Final Remedial Investigation Report (Redacted Version)
Ten-Mile Drain Superfund Site
St. Clair Shores, Macomb County, Michigan

Remedial Investigation/Feasibility Study
WA No. 165-RICO-B5BP/Contract No. EP-S5-06-01

Prepared for

September 2016

ch2m.

Contents

Acronyms and Abbreviations ..... **v**

1 Introduction **1-1**
1.1 Site Location 1-1
1.2 Background 1-1

2 Physical Site Setting **2-1**
2.1 Current Conditions 2-1
2.2 Assessment of Potential Future Use 2-1
2.3 Climate 2-1
2.4 Topography 2-1
2.5 Geologic, Hydrologic, and Ecologic Setting 2-1
2.5.1 Regional Geology 2-1
2.5.2 Local Geology 2-1
2.5.3 Hydrogeology 2-2
2.5.4 Ecological Setting 2-2
2.6 Storm Drain Hydraulics 2-2

3 Remedial Investigation Activities and Analysis **3-1**
3.1 Objectives 3-1
3.2 Remedial Investigation Activities 3-1
3.2.1 Utility Locating 3-2
3.2.2 Soil Sampling 3-2
3.2.3 TMD Manhole Sampling 3-5
3.2.4 Utility Trench Water Sampling and Elevation Measurements 3-5
3.2.5 Surface Water Sampling 3-5
3.3 Analytical Methods 3-5
3.4 Data Quality Evaluation 3-6

4 Remedial Investigation Findings **4-1**
4.1 Site Geology 4-1
4.2 Site Hydrogeology 4-1
4.3 Commercial Property and Right-of-Way Sampling 4-1
4.3.1 Property 001 4-1
4.3.2 Property 002 4-1
4.3.3 Sample Confirmation 4-2
4.4 Residential Property Soil Sampling Results 4-2
4.4.1 Bon Brae Street 4-2
4.4.2 Lange and Revere Street Canal Properties 4-2
4.4.3 Lakeland Street 4-2
4.4.4 2014 Time Critical Removal Action 4-2
4.5 Former Martin Drain Soil Sampling 4-3
4.6 TMD Manhole Sampling 4-3
4.7 Utility Trench Water Results 4-3
4.8 Surface Water Results 4-3
4.8.1 Outfall Sampling 4-4
4.8.2 Canal Sampling 4-4
4.9 Summary of Sediment Sampling 4-4
4.10 Post-Interim Remedial Action Monitoring and Utility Trench Sampling 4-4

5 Human Health and Ecological Risk Assessment Findings 5-1
5.1 Human Health Risk Evaluation 5-1
5.1.1 Contaminants of Potential Concern 5-1
5.1.2 Conceptual Site Model 5-1
5.1.3 Quantitative Exposure Estimates 5-2
5.1.4 Toxicity Assessment 5-2
5.1.5 Risk Characterization 5-2
5.1.6 Risk Characterization Summary 5-2
5.2 Ecological Risk Assessment 5-2

6 Summary and Conclusions 6-1

7 References 7-1

Tables

1 Commercial Property Soil Sample Results
2 Residential Property Soil Sample Results
3 Former Martin Drain Soil Sample Results
4 Manhole Wipe Sample Results
5 Groundwater Sample Results
6 Surface Water Sample Results

Figures

1 Site Location and Investigation Areas Map
2 DPT Soil Boring Locations at Harper Avenue – Property 001
3 DPT Soil Boring Locations at Harper Avenue – Property 002
4 Bon Brae Street Residential Soil Sampling Locations
5 Lange and Revere Street Canals
6 Lakeland Street Properties Sampled
7 Manhole Locations
8 Groundwater Monitoring Well and Surface Water Sampling Locations
9 Former Martin Drain Soil Sampling
10 Former Martin Drain Soil Sampling
11 Former Martin Drain Soil Sampling
12 Human Health Conceptual Site Model

Attachments

A Soil Boring Logs
B Data Quality Evaluation
C Soil Processing Logs
D Manhole Sample Forms
E 2011 Source Area Investigation Report
F 2011 Sediment Investigation
G Human Health Risk Assessment
H Ecological Risk Assessment
I Source Control Sampling Results
J Removal Letter Report

Acronyms and Abbreviations

°C	degrees Celsius
°F	degrees Fahrenheit
µg/L	micrograms per liter
bgs	below ground surface
CH2M	CH2M HILL, Inc.
CRL	Central Regional Laboratory
CSM	conceptual site model
DPT	direct-push technology
ECT	Environmental Consulting and Technology
EPA	U.S. Environmental Protection Agency
ERA	ecological risk assessment
FS	feasibility study
HHRA	human health risk assessment
MCPWO	Macomb County Public Works Office
MDEQ	Michigan Department of Environmental Quality
mg/kg	milligrams per kilogram
NRCS	Natural Resources Conservation Service
PCB	polychlorinated biphenyl
RA	remedial action
RI	remedial investigation
ROW	right-of-way
SAI	source area investigation
TCRA	time critical removal action
TMD site	Ten-Mile Drain Superfund site

SECTION 1

Introduction

This report summarizes the remedial investigation (RI) activities completed at the Ten-Mile Drain Superfund site (TMD site) between May 2013 and August 2015, evaluation of the data collected, and the findings and conclusions of RI activities. The work was performed for the U.S. Environmental Protection Agency (EPA) in accordance with the Statement of Work dated February 25, 2013, and Work Assignment No. 165-RICO-B5BP under Contract No. EP-S5-06-01.

The objective of the RI was to delineate the nature and extent of polychlorinated biphenyl (PCB) contamination associated with the TMD storm sewer system, including backfill material around the TMD storm sewer, sediment in the Lange and Revere Street canals, the former Martin Drain, and residential and commercial properties adjacent to the TMD storm sewer. The data collected during the RI will be used to prepare a feasibility study (FS). The FS will evaluate remedial alternatives for addressing the potential impact to human health and ecological receptors from PCBs associated with the TMD site.

1.1 Site Location

The TMD site is located in a mixed commercial/residential area in St. Clair Shores, Macomb County, Michigan. The TMD site encompasses a several-block area bounded by Bon Brae Street on the north, Harper Avenue on the west, 10 Mile Road on the south, and Jefferson Avenue on the east, along with the TMD outfall and the Lange and Revere Street canals. The site location is depicted on Figure 1.

1.2 Background

PCB contamination was initially identified in the Lange and Revere Street canal sediments in August 2001 when the Macomb County Public Works Office (MCPWO) collected sediment samples as part of a dredge permit application. In February 2002, MCPWO traced PCB contamination back to the TMD outfall in the Lange Street canal and into the TMD system. MCPWO requested that EPA assist in determining the source of PCB contamination. In March 2002, EPA initiated a source investigation at the TMD site. In June 2002, based on analytical results as high as 121,000 milligrams per kilogram (mg/kg) of PCBs near the intersection of Bon Brae Street and Harper Avenue, it was hypothesized that the PCB contamination was likely due to an illegal discharge to the TMD system near the Bon Brae Street/Harper Avenue intersection.

In the fall of 2002, EPA and MCPWO dewatered and cleaned the drain, removing sediments with PCB concentrations as high as 200,000 mg/kg. PCB-contaminated sediments from the western end of the Lange and Revere Street canals were also removed as part of this 2002 removal action. In February 2005, PCB contamination was again detected in the drain manhole vaults, and MCPWO requested assistance from EPA in re-evaluating the source of the PCB contamination.

In May 2005, the Michigan Department of Environmental Quality (MDEQ) and EPA installed 64 additional soil borings in suspected areas of concern near the Bon Brae Street/Harper Avenue intersection. In 2006, EPA dewatered the TMD system, removed impacted sediment, and installed approximately 1,000 feet of cured-in-place pipe liner within the drain near the Bon Brae Street/Harper Avenue intersection. In December 2009, MCPWO discovered PCB-contaminated oil with a concentration of approximately 800,000 milligrams per liter of PCBs within the manhole vaults located within the cured-in-place lined portion of the drain.

In December 2009, EPA placed oil collection snares within the sewer system manhole vaults near and downgradient of the intersection of Harper Avenue and Bon Brae Street to prevent migration of oil to the canals. In March 2010, EPA initiated removal of the oil and placed 15 weirs within the storm sewer to inhibit future migration of PCB-impacted sediments or oil in the TMD system. EPA also installed 43 additional soil borings at several properties located near the Bon Brae Street/Harper Avenue intersection based on public tip information regarding potential historical sources of contamination. Source control sampling of the manhole vaults that has been ongoing since 2010.

In April 2011, CH2M HILL, Inc. (CH2M) on behalf of EPA conducted an additional source area investigation (SAI) to find the location of the ongoing source material that continues to re-contaminate the TMD system. The SAI concluded that sufficient PCB contamination was present in the fill surrounding the bottom of the manhole vaults at the corner of Harper Avenue and Bon Brae Street to be the source (secondary) of the ongoing contamination in the TMD system (CH2M 2011). In September 2011, EPA selected an interim remedial action to address the high concentrations of PCB oil and contaminated sediments that continued to accumulate behind the 17 weirs and in the sediment trap at the outfall. The first interim action selected in September 2011 consists of monthly source control activities to handle the accumulation of PCB contamination behind the weirs and at the outfall of the TMD site in an effort to prevent additional PCB contamination from reaching the canals. Source control activities include monitoring, placement of absorbent snares to soak up oil and slow or stop the movement of contamination, and periodic removal and proper disposal of saturated snares and PCB-contaminated sediment, if needed. In August 2011, after completion of the SAI, the EPA FIELDS Group conducted sampling to characterize the nature and extent of PCBs within the sediments of the Lange and Revere Street canals (EPA 2012).

Based on the conclusions of the SAI in 2013, EPA issued the second Interim Record of Decision, where manhole vaults at the intersection of Harper Avenue and Bon Brae Street (M7179 and J01) as well as the connecting drain pipe between them were removed, replaced, and sealed to reduce the continued impacts of these identified ongoing secondary sources.

Prior to the finalization of this RI, a time critical removal action (TCRA) was completed in July 2014 (EPA 2014a), based on the preliminary findings from RI. The TCRA removed soils exceeding 22 mg/kg of PCB Aroclor-1248, and 3.4 mg/kg of PCB Aroclor-1256 from the areas depicted in the Removal Letter Report (EPA 2014a). Soil at these locations was removed to depths verified through sampling to be below action levels. The areas excavated were sampled for confirmation of contaminant removal.

SECTION 2

Physical Site Setting

2.1 Current Conditions

Land use in and around the TMD site is a mixture of commercial and residential.

2.2 Assessment of Potential Future Use

Current land use for the TMD site (commercial/residential) and the adjacent surrounding area is expected to remain the same into the future.

2.3 Climate

The region typically has warm to hot summers and cold winters, with July being the hottest month and January being the coldest. Although it peaks in the summer, precipitation is well distributed throughout the year. Based on records from 1961 and 1990, the average maximum temperature in St. Clair Shores, Michigan, in January is 31.8 degrees Fahrenheit (°F) (−0.1 degree Celsius [°C]) and 83.7°F (28.7°C) in July.[1] Between 1951 and 1995, the average annual precipitation was 31.9 inches, with approximately 58 percent falling from April through September.

2.4 Topography

The TMD site and surrounding area is relatively flat with little topographic relief. Based upon field global positioning system measurements, the average surface elevation of the site is approximately 583 feet above mean sea level. The TMD site and surrounding area slopes to the east-southeast at approximately 5 feet per mile, and does not contain any notable topographical relief features.

2.5 Geologic, Hydrologic, and Ecologic Setting

The regional geology and hydrogeology of the St. Clair Shores area and site-specific conditions at the TMD site are described in the following subsections.

2.5.1 Regional Geology

Quaternary geological maps from the State of Michigan (Farrand 1982) depict southeast Michigan as being composed of glacially deposited lacustrine clay and silt. Underlying the quaternary deposits in the vicinity of the site is the Bedford Shale. The Bedford Shale is underlain by the Antrim Shale. The Bedford Shale is coarser in texture than the Antrim shale. The Antrim Shale was deposited in the Upper (late) Devonian geologic time period, and the Bedford Shale was deposited in the Upper Devonian to Lower (early) Mississippian periods. The Antrim Shale is highly fractured and is one of the primary sources for oil and gas production in Michigan (United States Geological Survey 1996; United States Department of the Interior 1970).

2.5.2 Local Geology

The TMD site is located in an area classified as containing approximately 85 percent (by area) Lenawee Clay, 10 percent Toledo silty clay loam, and 5 percent Del Ray loam soils (Natural Resources

[1] World Climate, http://www.worldclimate.com/.

Conservation Service [NRCS] 2013). These soils are typical of clayey glaciolacustrine deposits that formed on flats of till-floored lake planes (NRCS 2013). Soil characteristics observed during both SAI and RI activities outside of the TMD utility corridor were consistent with the NRCS classifications. The TMD utility corridor along Bon Brae Street from Harper Avenue to at least B Street is backfilled with small gravel and fine- to medium-grained sand.

No water-bearing seams have been identified at the site between 0 and 20 feet below ground surface (bgs). Native soils of the site are characterized as having very low-transmissivity rates. No borings conducted in native soils during the SAI or RI produced enough groundwater for collection of a groundwater sample.

2.5.3 Hydrogeology

Based on the findings of the SAI and RI, no groundwater aquifer is present within 20 feet of the ground surface at the site. The site is located within the Lake St. Clair watershed (EPA 2014b). Historical Macomb County drain maps indicate that the former Martin Drain (an open drain) had formerly flowed through the investigation area and discharged at the Rio Vista canal (northeast of the project site) (Macomb County Drain Commission 1962). Based on historical information, it appears that the former Martin Drain was backfilled after the TMD storm sewer was constructed in the mid-1960s.

2.5.4 Ecological Setting

The TMD site and surrounding area consists of residential neighborhoods and commercial properties. Wildlife present on or directly adjacent to the TMD site includes various songbirds, household pets, and small mammals common to eastern Michigan. Threatened and endangered species are not expected onsite (see Section 5.2, Ecological Risk Assessment).

2.6 Storm Drain Hydraulics

There is minimal topographic relief in the vicinity of the site. The bottom of the drain is below the average surface water elevation of Lake St. Clair; therefore, water is continually present within the TMD system. The TMD storm sewer discharges into the Lange Street canal. The diameter of the drain is approximately 8.5 feet at the outfall. Wind direction causes water-level fluctuations (seiches) along the shoreline of Lake St. Clair. The changes in lake water levels directly affect the water levels within the TMD storm sewer. Under normal conditions, water within the TMD system flows from inland areas to the east, toward the Lange and Revere Street canals. However, onshore winds cause water levels to increase in the canals, resulting in a reversed water flow in the TMD from the canals into the TMD system.

TMD storm sewer pipe is 48 inches in diameter beneath Harper Avenue and increases in diameter as the drain nears the outfall (approximately 102 inches). The TMD storm sewer is constructed of jointed reinforced concrete pipe. The top of the reinforced concrete pipe ranges in depth from 4 to 8 feet bgs. The poorly sealed, jointed concrete construction allows water to pass through the joints of the drain causing both infiltration and exfiltration of water between the TMD backfill material and the inside of the drain. Water levels in the highly transmissive sand and gravel backfill equalize with the water levels inside the drain.

SECTION 3

Remedial Investigation Activities and Analysis

3.1 Objectives

The objective of the site-wide RI was to delineate the nature and extent of PCBs in soil and utility trench water at the site, assess human health and ecological risk from PCB contamination, and provide data to support site-wide remediation alternative development and evaluation in an FS if there are unacceptable risks to human health or the environment. The boundaries of the investigation are defined by the TMD utility corridor, as well as properties located near the TMD utility corridor and properties located along the Lange and Revere Street canals (CH2M 2013a). RI areas are described in more detail below.

3.2 Remedial Investigation Activities

To delineate the nature and extent of the PCB impact associated with TMD, per discussions with the EPA work assignment manager, MDEQ, City of St. Clair Shores, and MCPWO, the following areas were investigated:

- Residential and commercial properties adjoining the most heavily PCB-impacted areas of the TMD storm system to delineate the extent of PCB contamination adjacent to the drain (Figure 1, Investigation Area 1).
- Residential properties adjoining the Lange and Revere Street canals on Lake St. Clair to assess if pumping water from the canals to water lawns and gardens may have impacted the residential yards (Figure 1, Investigation Area 2).
- Manhole access points of the TMD system to delineate the extent of PCB contamination inside the drain.
- Pre-existing groundwater monitoring wells located within the TMD corridor near the intersection of Harper Avenue and Bon Brae Street to assess PCB concentrations in water within the utility corridor outside the drain.
- Residential and municipal properties transected by the former Martin Drain, downstream of the areas of known contamination (Figure 1, Martin Drain Investigation Area).

Refinement of RI activities was completed through review of historical data collected for the TMD site to meet the site's objectives. Historical documents reviewed are as follows:

- EPA. 2004. *Federal On-Scene Coordinator's Report for Ten-Mile Drain Polychlorinated Biphenyl Site Removal Action, St. Clair Shores, Macomb County, Michigan Site ID No. B52U TDD No. S05-0206-012.*
- Weston Solutions of Michigan, Inc. (Weston) for MDEQ. 2005. *Site Investigation Report and Focused Feasibility Study*.
- Weston for EPA. 2007. *St. Clair Shores PCB Site, St. Clair Shores, Macomb County, Michigan (Time Critical Removal Action Report).*
- MDEQ. 2009. *Site Inspection Report for St. Clair Shores Drain, St. Clair Shores, Michigan, EPA ID No. MID000510063.*

- Environmental Consulting and Technology (ECT) for EPA. 2011. *Monitoring and Remedial Measures for the 10 Mile Drain Site.*
- CH2M for EPA. 2011. *Source Area Investigation, Ten-Mile Drain Site, Data Summary Report, St. Clair Shores, Michigan*.
- Weston for EPA. 2010. *Bon Brae/Harper Site Removal Action, St. Clair Shores, Macomb County, Michigan, Technical Direction Document No. S05-0001-0912-017, Work Order No. 20405.012.001.0893.00, Document Control No. 893-2A-AHAW*.
- EPA Region 5, FIELDS Group. 2012. *Lange and Revere Street Canals Sediment Sampling Report*.

Data from the RI were collected from the following sources: 86 Geoprobe soil borings, geostatistical soil sampling of 57 residential properties, roller sampling of the bottom of 96 manholes, 2 confirmation soil samples from 1 hand auger boring, and 5 groundwater samples from pre-existing groundwater monitoring wells.

3.2.1 Utility Locating

Borings were installed at active commercial properties and residential properties near the TMD utility corridor. Prior to boring installation, Michigan's MISS DIG utility-locate service was contacted, and known utilities were marked by the MISS DIG contractors at each location prior to sampling. A private utility locator conducted ground-penetrating radar and electromagnetic surveys to confirm the MISS DIG locates and identify any unmarked or abandoned lines. Where possible, a minimum distance of at least 5 feet was maintained between sample locations and marked utilities/anomalies. Where a 5-foot clearance could not be maintained, the sample locations were hand cleared prior to sampling.

3.2.2 Soil Sampling

Soil cores from two commercial properties (Section 3.2.2.1), several residential properties, and within public right-of-ways (ROWs), were collected using a direct-push technology (DPT) drill rig. Slide hammers were also used to manually collect geostatistical soil samples from residential properties (Section 3.2.2.2). To assess for sample heterogeneity within the residential properties sampling population, replicate sampling was conducted (Section 3.2.2.3). Additional soil sampling along transects of the former Martin Drain was performed using a DPT drilling rig (Section 3.2.2.4).

3.2.2.1 Commercial Property and Right-of-Way Soil Sampling

Soil samples were collected using DPT from two commercial properties (Properties 001 and 002) located near the intersection of Harper Avenue and Lakeland Street. These two properties were identified as potential PCB source areas based on their proximity to TMD manhole vaults with historically high concentrations of PCB-contaminated oil/sediment as well as current and historical property uses.

A total of 48 soil borings was installed during the RI—13 at Property 001 and 35 at Property 002. The DPT borings were advanced to 20 feet bgs, approximately 5.5 feet deeper than the lowest known elevation of the TMD system (the bottom of the deepest manhole structure [J01] is approximately 14.5 feet bgs). Soil borings advanced on commercial and/or ROW properties are depicted on Figures 2 and 3.

Continuous soil cores were collected from each boring. Samples for laboratory analysis were obtained from predetermined depth intervals for each soil core as follows:

- 0 to 1 foot bgs
- 5 to 7 feet bgs
- 10 to 12 feet bgs
- 14 to 16 feet bgs
- 18 to 20 feet bgs

Each sample was analyzed for PCBs by EPA's onsite mobile laboratory.

If a sample from a predetermined interval could not be collected due to minimal recovery or lack of sufficient sample material due to the presence of debris, concrete, or gravel, etc., an adjoining depth interval in the same boring selected by the Field Team Leader, and containing sufficient sample material, was collected as an alternate. Alternate depth intervals were selected for the following boing locations: TMD-SO-002-29, TMD-SO-002-32, and TMD-SO-002-33 through 35. (Borings TMD-SO-002-33 through 35 were added by the work assignment manager and requested to only go to 5 feet bgs.) Additional samples for laboratory analysis were collected from depths outside the predetermined depth intervals when field staff observed intervals of potentially contaminated soil based on visual observations (staining or sheen) or odor.

Two soil samples were also collected from one hand-auger boring within the ROW at the southeast corner of Harper Avenue and Bon Brae Street in an effort to resample a location previously identified by MDEQ to have a PCB concentration of 31,820 mg/kg in soil at a depth interval of 0 to 1 foot bgs at sample location 022-023 (Weston 2005). This boring was advanced to 3 feet bgs. Samples from the 0- to 1-foot and 2- to 3-foot bgs intervals were submitted to EPA's onsite mobile laboratory for PCB analysis. The resampled boring location is depicted on Figure 4.

3.2.2.2 Residential Property Geostatistical Soil Sampling

Soil samples were collected from residential properties to assess whether properties within close proximity to the TMD storm sewer have been impacted by PCBs. The sampling was performed using the geostatistical sampling approach as outlined in the quality assurance project plan (CH2M 2013b). Samples were collected using a slide hammer with 6-inch stainless-steel barrel core samplers equipped with a disposable acetate liner or a DPT drilling rig. Samples were collected in three residential areas—along Bon Brae Street east of Harper Avenue, along the Lange and Revere Street canals, and along Lakeland Street east of Harper Avenue. A minimum of eight borings was advanced in each yard area/decision unit.

Residential soil borings were advanced to a maximum depth of 3 feet bgs. Soil was collected from each boring at the following intervals:

- 0 to 0.5 foot bgs
- 0.5 to 1 foot bgs
- 1.0 to 1.5 feet bgs
- 1.5 to 2.0 feet bgs
- 2.0 to 2.5 feet bgs
- 2.5 to 3.0 feet bgs

Soil samples within a yard area/decision unit were homogenized into a composite sample for each interval. A portion of the composited samples was analyzed for PCBs by EPA's mobile laboratory. Initially, EPA's mobile laboratory analyzed the 0 to 0.5 foot bgs, 1.0 to 1.5 feet bgs, and 2.5 to 3.0 feet bgs samples. If analytical results were above 2 mg/kg for an analyzed interval, then the next lowest interval was submitted to the mobile laboratory for analysis.

Bon Brae Street Soil Sampling

Soil samples were collected from residential properties along Bon Brae Street based on their proximity to historical near-surface PCB contamination present near the corner of Harper Avenue and Bon Brae Street and their proximity to TMD storm sewer. Twelve properties were geostatistically sampled along Bon Brae Street between Harper Avenue and E Street (Figure 4). Additionally, the backyards of Properties 003, 004, and 015 (Figure 4) were sampled based on elevated PCB levels detected on the adjacent commercial property (Property 002). The ROW of these same three properties were also sampled to assess if there was a difference in PCB concentrations between the ROW and the front yards.

Canal Property Soil Sampling

Soil samples were collected from residential properties along the Lange and Revere Street canals based on the potential use of pumps placed in the canals to pull water with "suspended particles" to water their yards, gardens, or clean boats, ultimately depositing the PCB-contaminated suspended particulates onto their yards. Twenty-seven properties were geostatistically sampled along the canals (10 Mile Road – 3; Lange Street – 18; Revere Street – 6). The backyard between the sea wall and the back of the residential structures (Figure 5) for each selected property was sampled and analyzed for PCBs by EPA's mobile laboratory.

Lakeland Street Soil Sampling

Soil samples were collected from residential properties along Lakeland Street based on elevated PCB levels detected at Property 002 during the spring 2013 RI mobilization, which also fronts Lakeland Street. Eighteen properties were geostatistically sampled along Lakeland Street east of Harper Avenue (Figure 6). Due to the size of the ROW (area between street curb and sidewalk), the ROW and front yards were sampled as separate decision units. Backyards at three residential properties; 067, 076, and 078, depicted on Figure 6 were sampled based on elevated PCB levels detected on the adjacent commercial property (Property 002), and analyzed for PCBs by EPA's mobile laboratory.

An attempt was made to gain access to all residential properties on Lakeland Street east of Harper Avenue to the point where PCBs were no longer detected in the yards (Properties 079/080 and 083/084). Some property owners did not provide access. Properties where access was not received are labeled "No Access" on Figure 6.

3.2.2.3 Replicate Sampling

Replicate samples were collected at a frequency of 15 percent of the total yard decision units to assess potential effects of sample heterogeneity (soil type and concentration variation) within the sampling population. Replicate samples were collected, processed, and analyzed in the same manner as the initial residential sample intervals. Two replicate samples were collected approximately 2 feet away from the original sample location in two different cardinal directions for each sample location within selected yard decision units.

The replicate sample results were used to quantify the sampling distribution variance and to develop a 99 percent confidence interval based on the calculated variance. A cut-off value of 3.4 mg/kg was recommended by the EPA FIELDS Group (Roth 2013, e-mail) based on a 99 percent lower confidence limit (one-tailed), the calculated standard deviation of replicate sample PCB concentrations, and the MDEQ residential direct contact criteria for total PCBs (4.0 mg/kg). Based on the calculation, and assuming the data are normally distributed, there is 99 percent confidence that the population value (true value) of PCB concentration in yard areas with sample concentrations below 3.4 mg/kg are below the MDEQ residential direct contact criteria.

3.2.2.4 Former Martin Drain Soil Sampling

Thirty-four cores were collected from seven transects of the former Martin Drain to evaluate the former drainage channel in relation to PCBs previously detected within the Lakecrest Street and Rio Vista Street canals (MDEQ 2009). Transect locations were selected based upon historical aerial photographs, which provided the approximate historical location of the former Martin Drain. Each transect consisted of five borings located on approximate 5-foot centers placed across the estimated former Martin Drain location (Figures 9 through 11). Seventy-two soil samples were collected from the cores for PCB analysis.

Sampling was performed using a DPT drilling rig to collect 2-inch-diameter soil cores in acetate liners. Soil cores were advanced from ground surface to a minimum of 8 feet bgs. Sample transects were located one on each side of Bon Brae Street, two on the western side and one on the eastern side of B Street, and one on each side of Jefferson Avenue.

3.2.3 TMD Manhole Sampling

Wipe/roller samples were collected from the interior bottom of the TMD at 96 manhole locations. The TMD storm sewer sampling at each manhole consisted of rolling the bottom of the manhole with a polyurethane roller, analyzing the most visually impacted portion of the roller. In addition, four catch basins in the parking lot of Property 002 were also sampled due to elevated PCB concentrations in surface soil on the property. The manhole and catch basin sampling locations are depicted on Figure 7.

3.2.4 Utility Trench Water Sampling and Elevation Measurements

Water samples and water elevation measurements were collected from five existing monitoring wells to acquire current PCB concentrations in the utility trench water. One additional well (MW6) was proposed for sampling; however, the well was not located. MW6 is assumed to have been destroyed by the recent repaving of the portion of Bon Brae Street. The monitoring well locations are depicted on Figure 8. Water samples collected from the monitoring wells were submitted to the EPA's Central Regional Laboratory (CRL) for PCBs analysis.

3.2.5 Surface Water Sampling

Based on elevated PCB concentrations in soil samples collected in the parking lot of Property 002, surface water samples were collected from two of the four stormwater catch basins located in the parking lot depicted on Figure 8. Surface water samples were submitted to EPA's CRL for PCB analysis.

3.3 Analytical Methods

Soil samples were collected and analyzed for one or more of the following:

- PCBs by EPA Contract Laboratory Program Statement of Work for Multi-Media, Multi-Concentration Organic Analysis; February 2007
- PCBs by SW-846 Method 8082

Groundwater and surface water samples were collected and analyzed for one or more of the following:

- PCBs by SW-846 Method 8082

Manhole (wipe) samples were collected and analyzed for one or more of the following:

- PCBs by SW-846 Method 8082

The following additional waste characterization samples were collected and analyzed:

- Three soil waste characterization samples were collected, and the following toxicity characteristic leaching procedure analyses were performed:
  - Volatile organic compounds by SW-846 1311/8260B
  - Pesticides (including hexabromobenzene, polybrominated biphenyl, and total dichlorodiphenyltrichloroethane) by SW-846 1311/8081
  - Herbicides by SW-846 1311/8151
  - Metals (aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium [total], cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc) by SW-846 1311/6010B/6020/7471
  - Flashpoint by SW-846 1010
  - pH by SW-846 9045

- Two water waste characterization samples were collected, and for the following toxicity characteristic leaching procedure analyses were performed:
  - Volatile organic compounds by SW-846 8260B
  - Pesticides (including hexabromobenzene, polybrominated biphenyl, and total dichlorodiphenyltrichloroethane) by SW-846 8081
  - Herbicides by SW-846 8151
  - Metals (aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium [total], cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc) by SW-846 6010B/6020/7471
  - Flashpoint by SW-846 1010
  - pH by SW-846 9045 for pH in liquids

As part of the quality assurance process outlined in the sampling and analysis plan, quality control samples were collected in the field to complement the assessment of overall data quality and usability.

3.4 Data Quality Evaluation

A data quality evaluation of soil, manhole/catch basin wipe samples, and groundwater/surface water samples was conducted by CH2M to assess the accuracy and precision of the data following guidelines outlined in the *Uniform Federal Policy Quality Assurance Project Plan, Ten-Mile Drain Site, St. Clair Shores, Michigan, Sitewide Remedial Investigation/Feasibility Study* (CH2M 2013b). The data quality evaluation technical memorandum for samples analyzed by EPA's Contract Laboratory Program and CRL is included as Attachment B.

SECTION 4

Remedial Investigation Findings

An evaluation of the data collected during each investigation activity is included in the following subsections.

4.1 Site Geology

Soil samples collected during the RI were primarily from the area near the intersection of Bon Brae Street and Harper Avenue and Lakeland Street and Harper Avenue (Investigation Area 1) or from the backyards along the Lange and Revere Street canals (Investigation Area 2). Areas 1 and 2 are depicted on Figure 1.

Native soil collected in Investigation Areas 1 and 2 was primarily logged as stiff to very stiff clay. Backfill material within the TMD utility trench was logged as either medium- to coarse-grained sand and peastone where new backfill had been used, or firm to stiff heavily mottled clay where backfilling had occurred, using native soils (refer to soil boring logs in Attachment A).

4.2 Site Hydrogeology

The 2011 SAI and 2013 RI did not identify a groundwater aquifer or any continuous seams of moderate to highly transmittable soils within 20 feet of the ground surface within the TMD system.

Groundwater is present within the backfill of the TMD utility corridor. However, this water appears to be limited to the utility corridor backfill, which may be due to the relatively low transmissivity of the surrounding native material.

4.3 Commercial Property and Right-of-Way Sampling

The objective of sampling the commercial properties, Property 001 and Property 002, and their ROWs, was to assess whether they were potential sources of PCBs entering the TMD storm sewer system.

4.3.1 Property 001

Soil collected from 5 of the 13 borings advanced beneath the sidewalk or from the ROW contained detectable concentrations of PCBs. The concentrations of these samples ranged between 0.39 mg/kg (TMD-SO-001-01-18/20) and 8.2 mg/kg (TMD-SO-001-13-0/1-R). Figure 2 depicts the PCB results from the soil borings. Analytical data are presented in Table 1, along with MDEQ Part 201 generic non-residential soil direct contact criteria, and the Toxic Substances Control Act threshold level. Boring logs are included in Attachment A.

4.3.2 Property 002

Soil collected from 31 of the 35 borings advanced on Property 002 contained detectable concentrations of PCBs. The detected concentrations ranged between 0.17(J) mg/kg (TMD-SO-002-25-5/7) and 530 mg/kg (TMD-SO-002-30-0.5/1). Samples from 21 soil borings contained PCB concentrations exceeding the MDEQ Part 201 generic non-residential soil direct contact criteria (10 mg/kg). Twelve soil borings had samples exceeding 50 mg/kg. Figure 3 depicts the soil boring results. Analytical data are presented in Table 1, and boring logs are included as Attachment A.

4.3.3 Confirmation Sample Near Bon Brae Street and Harper Avenue Intersection

PCBs were detected in the top 1-foot bgs interval at a concentration of 1.4 mg/kg (TMD-SO-042-0/1) (Figure 4). PCBs were not detected in the 2- to 3-foot bgs interval. The original MDEQ sample concentration from 2005 at this approximate location in the ROW had a PCB concentration of 31,820 mg/kg. No other location of near-surface soils at the TMD site has contained a concentration of PCBs remotely close to the concentrations formerly reported at this sample location. The concentration reported is only reflective of samples collected at the bottom of the TMD. Therefore, it is assumed that the former sample result of 31,820 mg/kg is a mislabeled sample that originated from a deeper sample location at the intersection of Harper Avenue and Bon Brae Street. Analytical data are presented in Table 1, and the boring log is included in Attachment A.

4.4 Residential Property Soil Sampling Results

Soil from 57 residential properties was geostatistically sampled during the 2013 RI activities. Residential soil samples were processed and submitted to either the EPA's onsite mobile laboratory or the EPA's CRL for PCB analysis. Soil processing logs for each sampled interval are included in Attachment C.

4.4.1 Bon Brae Street

None of the front yards sampled on Bon Brae Street had PCB concentrations above the calculated cut-off value of 3.4 mg/kg.

The ROW (5.6 mg/kg) and backyard (9.4 mg/kg) at Property 015 contained PCBs above the calculated cut-off value of 3.4 mg/kg. None of the other ROW or backyard areas exceeded the calculated true value. Figure 4 depicts the Bon Brae Street properties sampled during the RI.

Figure 4 depicts the highest PCB concentration found in a specific yard. The results shown are from the 0- to 0.5-foot interval unless otherwise specified in the figure. PCB results are summarized in Table 2.

4.4.2 Lange and Revere Street Canal Properties

None of the residential backyards sampled along the canals contained PCB concentrations above the calculated cutoff value of 3.4 mg/kg.

Figure 5 depicts the highest PCB concentrations found in a specific yard. The results shown are from the 0- to 0.5-foot interval unless otherwise specified in the figure. PCB results are summarized in Table 2.

4.4.3 Lakeland Street

The PCB concentrations for the Lakeland Street properties ranged between 0.17(J) mg/kg (TMD-SO-051-1.5/2) and 6,700 mg/kg (TMD-SO-048-1/1.5). Twelve properties along Lakeland Street contained concentrations above the calculated cut-off value of 3.4 mg/kg (Figure 6). Concentrations within the ROW area of Property 048(3,500 mg/kg [TMD-SO-048-0/0.5]) and the backyard area of Property 076 (130 mg/kg [TMD-SO-076-1/1.5]) contained PCB concentrations above 50 mg/kg.

Figure 6 depicts the PCB concentrations found in a specific yard area. The results are from the 0- to 0.5-foot interval unless otherwise specified in the figure. PCB results are summarized in Table 2.

4.4.4 2014 Time Critical Removal Action

A TCRA was completed on several properties along Harper Avenue and Lakeland Street. The TCRA removed soils with PCB concentrations above the removal management levels of 22 mg/kg for Aroclor-1248 and/or 3.4 parts per million for Aroclor-1254. Figure 6 depicts the current PCB conditions

remaining on the Lakeland Street and Harper Avenue properties including properties where a TCRA was conducted.

4.5 Former Martin Drain Soil Sampling

One attempted core from the transect located east of Jefferson Avenue was not collected due to refusal.

Fifteen of the 34 cores sampled contained detectible concentrations of PCBs. Two of the core locations (TMD-SO-105 and TMD-SO-121) contained PCB concentrations exceeding the calculated true value of 3.5 mg/kg. One sample (TMD-SO-105-3.4/4) contained a total PCB concentration of 169 mg/kg exceeding 50 mg/kg. Figures 9 through 11 depict the former Martin Drain soil sampling results. Results are summarized in Table 3.

4.6 TMD Manhole Sampling

Wipe/roller samples were collected from 92 manholes within the TMD system and 4 surface water catch basins draining to the TMD system from Property 002 were analyzed for PCBs in accordance with quality assurance project plan (CH2M 2013b) FOP-16 (Manhole Sediment/Oil Sampling). All manholes along the main line of the TMD system were sampled in this way.

Thirty-one of the manholes sampled had detectable concentrations of PCBs. The concentrations of the samples ranged from nondetect to 5,000,000,000 PCB standard units (TMD-MH-017 [Manhole M7179]). Since the manhole samples were collected using the paint-roller method, the data are only used for relative comparison purposes versus comparison to cleanup criteria.

Wipe/roller sample analytical results from the manhole locations are presented in Table 4. Figure 7 depicts the manhole locations sampled during the RI investigation. Manhole/catch basin sampling forms are included in Attachment D.

4.7 Utility Trench Water Results

Utility trench water samples were collected from five permanent monitoring wells and analyzed for PCBs during the 2013 RI activities.

The utility trench water PCB concentrations were compared to the following applicable MDEQ Part 201 residential generic cleanup criteria and EPA maximum contaminant level:

- Drinking water
- Groundwater surface water interface
- Direct contact
- EPA maximum contaminant level

Four utility water samples had detectible concentrations of PCBs. The concentrations of the utility trench water samples ranged from nondetect (TMD-GW-002-9/14) to 16 micrograms per liter (µg/L) (TMD-GW-003-7/12). Utility trench water analytical results are summarized in Table 5. Utility water results are shown on Figure 8.

4.8 Surface Water Results

Two surface water samples were collected from two of the four stormwater catch basins within the parking lot at Property 002 (Figure 8). None of the surface water samples had detectible concentrations of PCBs. The results are summarized in Table 6.

4.8.1 Outfall Sampling

Surface water at the TMD stormwater system outfall to the Lange and Revere Street canals was sampled 16 times between 2003 and 2011 (ECT 2011). PCB concentrations ranged from 0.17 µg/L in April 2005 to 9.5 µg/L in June 2004. Trends within the sampling data suggest that elevated PCB concentrations occurred following drain cleaning, which may have mobilized contaminants (ECT 2011).

MDEQ does not have Part 201 action levels for surface water, so EPA screening levels are used (EPA 2015). The applicable screening levels are as follows:

- Tap water (0.031 µg/L for PCBs) (EPA 2015) for human health risk
- Ecological screening levels (0.00012 µg/L for PCBs) (EPA 2003) in surface water for the protection of aquatic organisms

All of the samples collected from the drain outfall exceeded both of these criteria.

4.8.2 Canal Sampling

Surface water from within canals along the shoreline of Lake St. Clair were collected by MDEQ in 2008 (MDEQ 2009). All samples were collected from approximately 6 inches above the canal or lake bottom. Two of the eight sample locations were within the Lange and Revere Street canals. Sample SW2 (and its duplicate SW2D) were collected in the Lange Street canal near the TMD outfall. Sample SW3 was collected near the eastern end of the Revere Street canal.

Surface water PCB concentrations within SW2 and its duplicate were 5.25 µg/L and 3.85 µg/L, respectively. PCBs were not detected at sample location SW3.

4.9 Summary of Sediment Sampling

TMD discharges via an outfall to the Lange and Revere Street canals located near the intersection of Jefferson Avenue and 10 Mile Road (Figure 6) and is the pathway for PCB contamination historically found in the canals. The EPA Region 5 FIELDS Group conducted sediment characterization activities within the Lange and Revere Street canals in August and September 2011. The investigation was performed to assess the extent of PCB contamination within the sediments of the canals.

This investigation collected surface sediment grab samples from 102 locations and sediment cores from 41 locations within the Lange and Revere Street canals. In addition, three surface sediment grab samples were collected from within the Lakecrest and Rio Vista Street canals. All samples were analyzed for PCB Aroclors (EPA 2012).

The EPA FIELDS Group report is included as Attachment E. Results from that investigation indicated that PCB concentrations decrease with depth and distance from the outfall. It was also determined through statistical analysis that PCB concentrations within areas that had been dredged in 2003 were higher than concentrations outside the dredged areas, which indicated that recontamination of the canals had likely occurred. PCBs were not detected in the three grab samples collected from the Lakecrest and Rio Vista Street canals (EPA 2012).

4.10 Post-Interim Remedial Action Monitoring and Utility Trench Sampling

The highest concentrations of PCBs observed at the site in soil (up to 66,000 mg/kg) have been within the backfill beneath the M7179 and J01 manhole vaults. In 2015, the second interim remedial action (RA) was conducted to address these concentrations. The scope of this interim RA was to excavate and replace manhole vaults M7179 and J01 along with contaminated bedding materials. During the

excavation of the M7179 manhole vault, PCB-containing oil was observed flowing from between the cured-in-place pipe liner and the 48-inch-diameter concrete pipe that extends under Harper Avenue. Based on this new information, and to prevent recontamination of areas that had just been cleaned up, EPA expanded the interim action to include the removal and replacement of 120 feet of 48-inch-diameter reinforced concrete pipe along with the bedding materials between manhole vaults M7179 and J01.

Follow-up monitoring of the second interim RA included installation of extraction/monitoring wells near each of these manholes to facilitate groundwater monitoring and collect PCB oil that may accumulate near these vaults. The wells were sampled for 3 months after the completion of the interim RA for PCB detection along with source control sampling of the manhole vaults (including the newly replaced vaults) that has been ongoing since 2010. The results of the sampling are included in Attachment H.

SECTION 5

Human Health and Ecological Risk Assessment Findings

5.1 Human Health Risk Evaluation

The human health risk assessment (HHRA) evaluated potential risk at the site using the data presented within this RI. The findings of the HHRA are summarized in the following subsections. The complete HHRA is included in Attachment F.

The objective of the HHRA was to characterize and quantify, where appropriate, the potential current and future risks associated with site-related PCB exposures if no further remedial action is taken. The HHRA is designed to address whether PCB contamination at the site likely poses unacceptable risks to human health and if so, which transport mechanisms, exposure pathways, and exposure points drive unacceptable risk. The HHRA has been prepared in accordance with EPA HHRA guidance and additional guidance from MDEQ.

5.1.1 Contaminants of Potential Concern

PCBs (as total PCBs) were the only chemicals of potential concern screened against risk-based screening levels developed by EPA (regional screening levels) and MDEQ (Part 201 and 213 generic and risk-based cleanup levels). If maximum detected concentrations exceed screening levels, it will be retained as a chemical of potential concern for the HHRA.

5.1.2 Conceptual Site Model

A conceptual site model (CSM) was developed that describes the contaminant sources, migration pathways, receptors, and exposure pathways. The human health CSM flow path is included in Attachment F, Figure 1 of the HHRA and as Figure 12 of this RI. Potential receptor groups include the following:

- Residents—land owners/occupants (adult/child)
- Commercial workers—utility services, landscapers, excavators, etc.
- Recreational users—swimmers, boaters, anglers, etc.
- Recreational angler—individuals consuming fish (adult/child)
- Potential future site residents or commercial utility workers

Exposure scenarios evaluated included the following:

- Direct contact with site soils (incidental soil ingestion, dermal contact with soil, and inhalation of particles and/or vapors released from the soil to the ambient air)
- Direct contact with surface water (incidental ingestion and/or dermal contact with surface water)
- Ingestion of fish caught in the canals

Note: Groundwater ingestion and contact was not evaluated. Site investigations and activities concluded there is no aquifer within at least 25 feet of the ground surface, and the native uniform soils of the area (dense clay) are an aquitard for any potential deeper aquifer that may be present.

5.1.3 Quantitative Exposure Estimates

Standard default exposure factor values were used for most parameters. Site-specific information was used to estimate exposure frequencies, durations, and times for current site users and workers.

5.1.4 Toxicity Assessment

Quantitative toxicity values were obtained from EPA's preferred hierarchy of sources as follows:

- **Tier 1.** Integrated Risk Information System.
- **Tier 2.** Provisional Peer-Reviewed Toxicity Values from EPA's Superfund Technical Support Center at the National Center for Environmental Assessment.
- **Tier 3.** Tier 3 includes additional EPA and non-EPA sources of toxicity information. Priority should be given to sources of information that are the most current, the basis for which is transparent and publicly available, and which have been peer-reviewed.

5.1.5 Risk Characterization

The potential risk of adverse health effects is characterized based on potential exposures and potential dose-response relationships. An important additional source of uncertainty is introduced in this phase of the HHRA—the combination of upper-bound intake estimates with upper-bound toxicity estimates. Generally, the goal of a baseline HHRA is to estimate an upper-bound, but reasonable, potential risk. Such an upper-bound estimate can be derived in several ways, depending on how conservative one wants the final estimate to be. HHRAs combine several upper-bound assumptions to estimate potential risk. Most of the assumptions about exposure and toxicity used in this HHRA are representative of statistical upper-bounds for each parameter. The result of combining several such upper-bound assumptions is that the final estimate of potential exposure or potential risk is conservative.

5.1.6 Risk Characterization Summary

The large number of assumptions made in the risk calculations potentially could introduce a great deal of uncertainty. Although it is theoretically possible that this approach leads to the underestimation of potential risk, the use of numerous upper-bound assumptions almost certainly results in overestimates of potential risks. Any one individual's potential exposure and subsequent potential risk are influenced by their individual exposure and toxicity parameters and will vary on a case-by-case basis. Despite inevitable uncertainties associated with the steps used to estimate potential risks, the use of numerous health-protective assumptions will most likely lead to an overestimate of potential risks associated with site exposures.

5.2 Ecological Risk Assessment

An ecological risk assessment (ERA) was prepared for the TMD site, the findings of which are summarized in the following paragraphs. The complete ERA is included in Attachment G.

The ERA was conducted in accordance with EPA guidance (see ERA in Attachment G for guidance references). The data generated from the RI activities were used to assess potential risks for both lower-trophic-level (direct exposure) and upper-trophic-level (food web exposure) risks for a variety of terrestrial and aquatic receptors using multiple lines of evidence in a weight-of-evidence process, which includes assessing risk estimates in context with the extent, magnitude, and ecological significance of each line of evidence.

Based on the weight-of-evidence evaluation, total PCBs were identified across all assessment endpoints for aquatic receptor exposure scenarios (lower- and upper-trophic-levels) as a chemical of potential ecological concern, in the Lange and Revere Street canals surface water and sediment.

Based on the weight-of-evidence evaluation, total PCBs were not identified as presenting unacceptable ecological risk in upland terrestrial soils.

SECTION 6

Summary and Conclusions

RI activities were conducted at the TMD site to delineate the nature and extent of PCB contamination and to assess potential impacts to human health and ecological receptors to support subsequent development of an FS. Investigation activities have confirmed that the majority of existing PCB contamination in soil, sediment, and groundwater is contained in the northwestern and southeastern portions of the site. Contamination of surface water and groundwater (utility trench water) appears to be primarily limited to the drain corridor and Lange and Revere Street canals.

The RI identified the near-surface soils behind Property 002 (along Lakeland Street), as well as surrounding and adjoining properties along Lakeland Street, to contain the greatest concentrations of PCBs in near-surface soils across the investigation area.

The SAI identified the most elevated concentrations of PCBs in the investigation area to be located within the backfill of the lowest portions of the TMD around the manhole vaults J01 and M7179 near the intersection of Harper Avenue and Bon Brae Street. The backfill surrounding manhole vaults further east on Bon Brae Street (M4335 and M7183) also contained elevated concentrations of PCBs at depth, although these concentrations were lower than those found at Harper Avenue and Bon Brae Street.

The 2011 sediment sampling investigation found that the greatest concentrations of PCBs in sediments of the Lange and Revere Street canals were in near-surface sediments near the outfall of the TMD. Concentrations of PCBs in sediment were observed to decrease with distance from the outfall and to decrease with greater depth.

The 2015 investigation of the former Martin Drain identified PCBs in the area where the former Martin Drain crosses Bon Brae Street. This is consistent with previous data collected (Weston 2005), which detected PCBs in the same location. No other occurrences of PCBs exceeding MDEQ Part 201 criteria have been identified along the former Martin Drain.

The HHRA concluded that current and future receptors, including residents (adults and children), utility workers, recreational users, and recreational anglers, were found to be at risk. Residents and utility workers were at risk for direct contact with soils of the site. Recreational users were at risk for direct contact with waters of the site (at the outfall or within the Lange and Revere Street canals) and/or fish consumption (of fish caught in the Lange and Revere Street canals).

An ERA concluded that no unacceptable ecological risk was identified in upland terrestrial soils of the site, and that PCBs pose a risk to semi-aquatic wildlife populations, benthic invertebrate, and water-column biota communities, including forage fish at the site.

Based on the findings of the HHRA and ERA, proceeding with an FS to develop and evaluate remediation alternatives to mitigate unacceptable risks from PCBs to human health and the environment is warranted for the TMD site. The data collected during this RI for PCBs in sediment, soil, groundwater, and surface water delineate the nature and extent of PCB contamination at the site and can support development and comparison of remediation alternatives in the FS.

SECTION 7

References

CH2M HILL, Inc. (CH2M). 2011. *Source Area Investigation*, *Ten-Mile Drain Site, Data Summary Report, St. Clair Shores, Michigan.* January.

CH2M HILL, Inc. (CH2M). 2013a. *Field Sampling Plan, Ten-Mile Drain Site, Sitewide Remedial Investigation/Feasibility Study,* St. Clair Shores, Michigan. April.

CH2M HILL, Inc. (CH2M). 2013b. *Uniform Federal Policy Quality Assurance Project Plan, Ten-Mile Drain Site, St. Clair Shores, Michigan, Sitewide Remedial Investigation/Feasibility Study*. January.

Environmental Consulting and Technology (ECT). 2011. *Monitoring and Remedial Measures for the 10 Mile Drain Site*. September.

Farrand, W. R. and D. L. Bell. 1982. *Quaternary Geology of Southern Michigan*. Department of Geological Sciences, University of Michigan.

Macomb County Drain Commission. 1962. Maps.

Michigan Department of Environmental Quality (MDEQ). 2009. *Site Inspection Report for St. Clair Shores Drain, St. Clair Shores, Michigan, U.S. EPA ID No. MID000510063*. December.

Natural Resource Conservation Service (NRCS). 2013. Soil Survey Area: Macomb County, Michigan [Version 8]. http://websoilsurvey.nrcs.usda.gov. Accessed December 19, 2013.

Roth, C. 2013. Roth C./U.S. Environmental Protection Agency E-mail to Grant Koster/CH2M. November 25.

U.S. Geological Survey. 1996. *An Initial Resource Assessment of the Upper Devonian Antrim Shale in the Michigan Basin.* U.S. Geological Survey Open-File Report 95-75K.

U.S. Department of the Interior. 1970. *Age of the Bedford Shale, Bera Sandstone, and Sudbury Shale in the Appalachian and Michigan Basins, Pennsylvania, Ohio, and Michigan.* Contributions to Stratigraphy – Geological Survey Bulletin 1294 – G.

U.S. Environmental Protection Agency (EPA). 2003. Region 5, RCRA Ecological Screening Levels. www.epa.gov/reg5rcra/ca/ESL.pdf. August.

U.S. Environmental Protection Agency (EPA). 2004. *Federal On-Scene Coordinator's Report for Ten-Mile Drain Polychlorinated Biphenyl Site Removal Action, St. Clair Shores, Macomb County, Michigan Site ID No. B52U TDD No. S05-0206-012*.

U.S. Environmental Protection Agency (EPA). 2007. Contract Laboratory Program Statement of Work for Multi-Media, Multi-Concentration Organic Analysis. February.

U.S. Environmental Protection Agency (EPA) Region 5, FIELDS Group. 2012. *Lange and Revere Street Canals Sediment Sampling Report*. June.

U.S. Environmental Protection Agency (EPA). 2014a. *Removal Letter Report for St. Clair Shores PCB Drain Removal #2*. August 8.

U.S. Environmental Protection Agency (EPA). 2014b. Surf Your Watershed. http://cfpub.epa.gov/surf/huc.cfm?huc_code=04090002. Accessed on January 9, 2014.

U.S. Environmental Protection Agency (EPA). 2015. *Regional Screening Levels for Chemical Contaminants at Superfund Sites*. November.

Weston Solutions of Michigan, Inc. (Weston). 2005. *April-May 2005 Site Investigation Report and Focused Feasibility Study.* October.

Weston Solutions of Michigan, Inc. (Weston). 2007. *St. Clair Shores PCB Site, St. Clair Shores, Macomb County, Michigan (Time Critical Removal Action Report).* April 30.

Weston Solutions of Michigan, Inc. (Weston). 2010. *Bon Brae/Harper Site Removal Action, St. Clair Shores, Macomb County, Michigan, Technical Direction Document No. S05-0001-0912-017, Work Order No. 20405.012.001.0893.00, Document Control No. 893-2A-AHAW*.

Tables

Table 1. Commercial Property Soil Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Property Location ID	Sample Interval (feet)	Result Total PCBs (mg/kg)	
TMD-SO-001-01-0/1	001	0/1	0.40	U
TMD-SO-001-01-5/7	001	5/7	0.38	U
TMD-SO-001-01-10/12	001	10/12	0.37	U
TMD-SO-001-01-14/16	001	14/16	0.37	U
TMD-SO-001-01-18/20	001	18/20	0.39	
TMD-SO-001-02-0.5/1	001	0.5/1	0.39	U
TMD-SO-001-02-5/7	001	5/7	0.37	U
TMD-SO-001-02-10/12	001	10/12	0.35	U
TMD-SO-001-02-14/16	001	14/16	0.36	U
TMD-SO-001-02-18/20	001	18/20	0.37	U
TMD-SO-001-03-0.5/1	001	0.5/1	0.41	U
TMD-SO-001-03-5/7	001	5/7	0.35	U
TMD-SO-001-03-10/12	001	10/12	0.35	U
TMD-SO-001-03-14/16	001	14/16	0.34	U
TMD-SO-001-03-18/20	001	18/20	0.39	U
TMD-SO-001-04-0/1	001	0/1	0.39	U
TMD-SO-001-04-5/7	001	5/7	0.35	U
TMD-SO-001-04-10/12	001	10/12	0.38	U
TMD-SO-001-04-14/16	001	14/16	0.37	U
TMD-SO-001-04-18/20	001	18/20	0.38	U
TMD-SO-001-05-0.5/1	001	0.5/1	0.38	U
TMD-SO-001-05-5/7	001	5/7	0.36	U
TMD-SO-001-05-10/12	001	10/12	0.38	U
TMD-SO-001-05-14/16	001	14/16	0.38	U
TMD-SO-001-05-18/20	001	18/20	0.36	U
TMD-SO-001-06-0.5/1	001	0.5/1	0.38	U
TMD-SO-001-06-5/7	001	5/7	0.38	U
TMD-SO-001-06-10/12	001	10/12	0.36	U
TMD-SO-001-06-14/16	001	14/16	0.37	U
TMD-SO-001-06-18/20	001	18/20	0.37	U
TMD-SO-001-07-0.5/1	001	0.5/1	0.40	U
TMD-SO-001-07-5/7	001	5/7	0.37	U
TMD-SO-001-07-10/12	001	10/12	0.37	U
TMD-SO-001-07-15/16	001	15/16	0.38	U
TMD-SO-001-07-18/20	001	18/20	0.36	U
TMD-SO-001-07-18/20-R	001	18/20	0.38	U
TMD-SO-001-08-0.5/1	001	0.5/1	0.39	U
TMD-SO-001-08-5/7	001	5/7	0.35	U
TMD-SO-001-08-10/12	001	10/12	0.33	U
TMD-SO-001-08-14/16	001	14/16	0.38	U
TMD-SO-001-08-18/20	001	18/20	0.37	U
TMD-SO-001-08-18/20-R	001	18/20	0.38	U
TMD-SO-001-09-0.5/1	001	0.5/1	0.39	U
TMD-SO-001-09-0.5/1-R	001	0.5/1	0.38	U
TMD-SO-001-09-5/7	001	5/7	0.37	U
TMD-SO-001-09-10/12	001	10/12	0.37	U
TMD-SO-001-09-14/16	001	14/16	0.37	U
TMD-SO-001-09-18/20	001	18/20	0.37	U
TMD-SO-001-09-18/20-R	001	18/20	0.39	U
TMD-SO-001-10-0/1	001	0/1	0.44	U
TMD-SO-001-10-5/7	001	5/7	0.36	U
TMD-SO-001-10-10/12	001	10/12	0.37	U
TMD-SO-001-10-14/16	001	14/16	0.37	U

Table 1. Commercial Property Soil Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Property Location ID	Sample Interval (feet)	Result Total PCBs (mg/kg)	
TMD-SO-001-10-18/20	001	18/20	0.37	U
TMD-SO-001-11-0/1	001	0/1	1.10	
TMD-SO-001-11-5/7	001	5/7	0.35	U
TMD-SO-001-11-10/12	001	10/12	0.35	U
TMD-SO-001-11-14/16	001	14/16	0.36	U
TMD-SO-001-11-18/20	001	18/20	0.36	U
TMD-SO-001-11-18/20-R	001	18/20	0.37	U
TMD-SO-001-12-0/1	001	0/1	2.80	
TMD-SO-001-12-5/7	001	5/7	0.38	U
TMD-SO-001-12-10/12	001	10/12	0.36	U
TMD-SO-001-12-14/16	001	14/16	0.35	U
TMD-SO-001-12-18/20	001	18/20	0.38	U
TMD-SO-001-12-18/20-R	001	18/20	0.39	U
TMD-SO-001-13-0/1	001	0/1	4.70	
TMD-SO-001-13-0/1-R	001	0/1	8.20	
TMD-SO-001-13-5/7	001	5/7	0.36	U
TMD-SO-001-13-10/12	001	10/12	0.37	U
TMD-SO-001-13-14/16	001	14/16	0.35	U
TMD-SO-001-13-18/20	001	18/20	0.35	U
TMD-SO-002-01-0/1	002	0/1	0.36	U
TMD-SO-002-01-5/7	002	5/7	0.36	U
TMD-SO-002-01-10/12	002	10/12	0.35	U
TMD-SO-002-01-14/16	002	14/16	0.38	U
TMD-SO-002-01-14/16-R	002	14/16	0.37	U
TMD-SO-002-01-18/20	002	18/20	0.37	U
TMD-SO-002-02-0/1	002	0/1	0.38	U
TMD-SO-002-02-5/7	002	5/7	0.37	U
TMD-SO-002-02-10/12	002	10/12	0.35	U
TMD-SO-002-02-14/16	002	14/16	0.38	U
TMD-SO-002-02-16/18	002	16/18	0.36	U
TMD-SO-002-03-0/1	002	0/1	0.39	U
TMD-SO-002-03-5/7	002	5/7	0.34	U
TMD-SO-002-03-10/12	002	10/12	0.35	U
TMD-SO-002-03-10/12-R	002	10/12	0.37	U
TMD-SO-002-03-14/16	002	14/16	0.37	U
TMD-SO-002-03-18/20	002	18/20	0.37	U
TMD-SO-002-04-0/1	002	0/1	0.44	U
TMD-SO-002-04-5/7	002	5/7	0.38	U
TMD-SO-002-04-10/12	002	10/12	0.37	U
TMD-SO-002-04-14/16	002	14/16	0.37	U
TMD-SO-002-04-18/20	002	18/20	0.39	U
TMD-SO-002-05-0/1	002	0/1	3.00	
TMD-SO-002-05-5/7	002	5/7	0.38	U
TMD-SO-002-05-10/12	002	10/12	0.37	U
TMD-SO-002-05-10/12-R	002	10/12	0.37	U
TMD-SO-002-05-14/16	002	14/16	0.37	U
TMD-SO-002-05-18/20	002	18/20	0.38	U
TMD-SO-002-06-0/1	002	0/1	34.00	
TMD-SO-002-06-5/7	002	5/7	0.35	U
TMD-SO-002-06-10/12	002	10/12	0.36	U
TMD-SO-002-06-14/16	002	14/16	0.33	U
TMD-SO-002-06-18/20	002	18/20	0.36	U
TMD-SO-002-07-0/1	002	0/1	13.60	

Table 1. Commercial Property Soil Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Property Location ID	Sample Interval (feet)	Result Total PCBs (mg/kg)	
TMD-SO-002-07-5/7	002	5/7	0.37	U
TMD-SO-002-07-10/12	002	10/12	0.35	U
TMD-SO-002-07-14/16	002	14/16	0.38	U
TMD-SO-002-07-18/20	002	18/20	0.39	U
TMD-SO-002-07-18/20-R	002	18/20	0.33	U
TMD-SO-002-08-0/1	002	0/1	13.00	
TMD-SO-002-08-3/4.5	002	3/4.5	0.39	U
TMD-SO-002-08-5/7	002	5/7	2.40	
TMD-SO-002-08-10.5/12	002	10.5/12	0.36	U
TMD-SO-002-08-14/16	002	14/16	0.36	U
TMD-SO-002-08-18/20	002	18/20	0.38	U
TMD-SO-002-09-0/1	002	0/1	9.40	
TMD-SO-002-09-2.3/2.6	002	2.3/2.6	4.10	
TMD-SO-002-09-5/7	002	5/7	0.37	U
TMD-SO-002-09-10/12	002	10/12	0.38	U
TMD-SO-002-09-14/16	002	14/16	0.38	U
TMD-SO-002-09-18/20	002	18/20	0.40	U
TMD-SO-002-09-18/20-R	002	18/20	0.40	U
TMD-SO-002-10-0/1	002	0/1	34.00	J
TMD-SO-002-10-5/7	002	5/7	0.34	U
TMD-SO-002-10-10/12	002	10/12	0.35	U
TMD-SO-002-10-14/16	002	14/16	0.35	U
TMD-SO-002-10-18/20	002	18/20	0.28	U
TMD-SO-002-11-0/1	002	0/1	15.00	J
TMD-SO-002-11-5/7	002	5/7	0.39	U
TMD-SO-002-11-10/12	002	10/12	0.38	U
TMD-SO-002-11-14/15	002	14/15	0.37	U
TMD-SO-002-12-0/1	002	0/1	3.80	J
TMD-SO-002-12-5/7	002	5/7	0.36	U
TMD-SO-002-12-10/12	002	10/12	0.36	U
TMD-SO-002-12-10/12-R	002	10/12	0.38	U
TMD-SO-002-12-14/16	002	14/16	0.39	U
TMD-SO-002-12-18/20	002	18/20	0.38	U
TMD-SO-002-13-0/1	002	0/1	1.20	J
TMD-SO-002-13-5/7	002	5/7	0.38	U
TMD-SO-002-13-10/12	002	10/12	0.37	U
TMD-SO-002-13-14/16	002	14/16	0.38	U
TMD-SO-002-13-18/20	002	18/20	0.37	U
TMD-SO-002-13-18/20-R	002	18/20	0.39	U
TMD-SO-002-14-0/1	002	0/1	10.00	J
TMD-SO-002-14-5/7	002	5/7	0.38	U
TMD-SO-002-14-10/12	002	10/12	0.36	U
TMD-SO-002-14-14/16	002	14/16	0.35	U
TMD-SO-002-15-0/1	002	0/1	43.00	J
TMD-SO-002-15-5/7	002	5/7	0.39	U
TMD-SO-002-15-5/7-R	002	5/7	0.39	U
TMD-SO-002-15-10/12	002	15-10	0.34	U
TMD-SO-002-15-14/16	002	14/16	0.39	U
TMD-SO-002-15-18/20	002	18/20	0.37	U
TMD-SO-002-16-0/1	002	0/1	100.00	J
TMD-SO-002-16-5/7	002	5/7	0.38	U
TMD-SO-002-16-10/12	002	10/12	0.36	U
TMD-SO-002-16-14/16	002	14/16	0.34	U

Table 1. Commercial Property Soil Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Property Location ID	Sample Interval (feet)	Result Total PCBs (mg/kg)	
TMD-SO-002-16-18/20	002	18/20	0.38	U
TMD-SO-002-17-0/1	002	0/1	8.50	J
TMD-SO-002-17-5/7	002	5/7	0.36	U
TMD-SO-002-17-10/12	002	10/12	0.37	U
TMD-SO-002-17-10/12-R	002	10/12	0.38	U
TMD-SO-002-17-14/16	002	14/16	0.38	U
TMD-SO-002-17-18/20	002	18/20	0.37	U
TMD-SO-002-18-0/1	002	0/1	21.90	J
TMD-SO-002-18-5/7	002	5/7	0.38	U
TMD-SO-002-18-10/12	002	10/12	0.39	U
TMD-SO-002-18-14/16	002	14/16	0.37	U
TMD-SO-002-18-18/20	002	18/20	0.39	U
TMD-SO-002-19-0/1	002	0/1	16.00	J
TMD-SO-002-19-5/7	002	5/7	0.35	U
TMD-SO-002-19-10/12	002	10/12	0.35	U
TMD-SO-002-19-10/12-R	002	10/12	0.39	U
TMD-SO-002-19-14/16	002	14/16	0.36	U
TMD-SO-002-19-18/20	002	18/20	0.34	U
TMD-SO-002-20-0/1	002	0/1	110.00	
TMD-SO-002-20-1.2/1.4	002	1.2/1	4.30	
TMD-SO-002-20-5/7	002	5/7	0.40	U
TMD-SO-002-20-10/12	002	10/12	0.37	U
TMD-SO-002-20-14/16	002	14/16	0.36	U
TMD-SO-002-20-18/20	002	18/20	0.36	U
TMD-SO-002-21-0.5/1	002	0.5/1	99.00	J
TMD-SO-002-21-5/7	002	5/7	0.37	U
TMD-SO-002-21-10/12	002	10/12	0.38	U
TMD-SO-002-21-14/16	002	14/16	0.39	U
TMD-SO-002-21-18/20	002	18/20	0.36	U
TMD-SO-002-21-18/20-R	002	18/20	0.37	U
TMD-SO-002-22-0.5/1	002	0.5/1	53.00	J
TMD-SO-002-23-0.5/1	002	0.5/1	0.75	
TMD-SO-002-23-1/1.5	002	1/1.5	71.00	
TMD-SO-002-23-5/7	002	5/7	0.39	U
TMD-SO-002-23-5/7-R	002	5/7-R	0.40	U
TMD-SO-002-23-10/12	002	10/12	0.39	U
TMD-SO-002-23-14/16	002	14/16	0.25	J
TMD-SO-002-23-18/20	002	18/20	0.35	U
TMD-SO-002-24-0.5/1	002	0.5/1	240.00	
TMD-SO-002-24-5/7	002	5/7	0.34	U
TMD-SO-002-24-10/12	002	10/12	1.60	
TMD-SO-002-24-14/15	002	14/15	0.37	U
TMD-SO-002-24-20/22	002	20/22	0.54	
TMD-SO-002-25-0.5/1	002	0.5/1	190.00	
TMD-SO-002-25-1.5/2	002	1.5/2	460.00	
TMD-SO-002-25-2/3	002	2/3	1.20	
TMD-SO-002-25-5/7	002	5/7	0.17	J
TMD-SO-002-25-10/12	002	10/12	0.45	
TMD-SO-002-25-10/12-R	002	10/12	0.80	
TMD-SO-002-25-14/16	002	14/16	0.25	J
TMD-SO-002-25-18/20	002	18/20	0.36	U
TMD-SO-002-26-0/1	002	0/1	1.90	
TMD-SO-002-26-5/7	002	5/7	6.30	

Table 1. Commercial Property Soil Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Property Location ID	Sample Interval (feet)	Result Total PCBs (mg/kg)	
TMD-SO-002-26-8/10	002	8/10	0.38	U
TMD-SO-002-27-0/1	002	0/1	89.00	
TMD-SO-002-27-1/2.5	002	1/2.5	3.30	
TMD-SO-002-27-1/2.5-R	002	1/2.5	1.90	
TMD-SO-002-27-5/7	002	5/7	0.40	U
TMD-SO-002-27-8/10	002	8/10	0.37	U
TMD-SO-002-28-0/1	002	0/1	38.00	
TMD-SO-002-28-2/3.5	002	2/3.5	0.41	
TMD-SO-002-28-5/6	002	5/6	2.80	
TMD-SO-002-28-8/10	002	8/10	0.31	
TMD-SO-002-29-0.5/1	002	0.5/1	7.30	
TMD-SO-002-29-5/7	002	5/7	0.25	J
TMD-SO-002-29-10/12	002	10/12	6.10	
TMD-SO-002-29-10/12-R	002	10/12	0.33	J
TMD-SO-002-29-14/16	002	14/16	0.37	U
TMD-SO-002-29-17/19	002	17/19	0.34	U
TMD-SO-002-30-0.5/1	002	0.5/1	530.00	
TMD-SO-002-30-5/7	002	5/7	0.36	U
TMD-SO-002-30-10/12	002	10/12	3.60	
TMD-SO-002-30-14/16	002	14/16	0.37	U
TMD-SO-002-30-18/20	002	18/20	0.38	U
TMD-SO-002-31-1/2	002	1/2	60.00	
TMD-SO-002-31-5/7	002	5/7	0.38	U
TMD-SO-002-31-10/12	002	10/12	0.42	
TMD-SO-002-31-14/16	002	14/16	0.36	U
TMD-SO-002-31-14/16-R	002	14/16	0.31	J
TMD-SO-002-31-18/20	002	18/20	0.21	J
TMD-SO-002-32-1/2	002	1/2	0.61	
TMD-SO-002-32-5/7	002	5/7	0.41	U
TMD-SO-002-32-10/12	002	10/12	0.19	J
TMD-SO-002-32-14/16	002	14/16	0.38	U
TMD-SO-002-32-17/19	002	17/19	0.37	U
TMD-SO-002-33-0.5/1	002	0.5/1	140.00	
TMD-SO-002-33-0.5/1-R	002	0.5/1	140.00	
TMD-SO-002-33-4/5	002	4/5	0.46	
TMD-SO-002-34-0.5/1	002	0.5/1	45.00	
TMD-SO-002-34-4/5	002	4/5	0.26	J
TMD-SO-002-35-0.5/1	002	0.5/1	440.00	
TMD-SO-002-35-3.5/4.5	002	3.5/4	1.10	
TMD-SO-042-0/1	042	0/1	1.40	
TMD-SO-042-2/3	042	2/3	0.31	U

Notes:

Concentrations highlighted yellow exceed the MDEQ Non-Residential Direct-Contact Criterion of 10

Concentrations highlighted red exceed the Toxic Substances Control Act criterion of 50 mg/kg.

Sample ID appendage descriptions: "FD" = Field Duplicate Sample; "R#" = Replicate Sample

U = Analyte value is nondetect at the reported value

J = Analyte identified in sample; however, reported value is estimated due to quality control issues

Table 2. Residential Property Soil Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Property Location ID	Sample Interval (feet)	Result Total PCBs (mg/kg)
TMD-SO-003-0/0.5	003	0/0.5	0.42 U
TMD-SO-003-1/1.5	003	1/1.5	0.39 U
TMD-SO-003-2.5/3	003	2.5/3	0.38 U
TMD-SO-004-0/0.5	004	0/0.5	0.39 U
TMD-SO-004-1/1.5	004	1/1.5	0.40 U
TMD-SO-004-1/1.5-FD	004	1/1.5	0.39 U
TMD-SO-004-2.5/3	004	2.5/3	0.38 U
TMD-SO-005-0/0.5	005	0/0.5	1.30
TMD-SO-005-0.5/1	005	0.5/1	0.65
TMD-SO-005-1/1.5	005	1/1.5	0.39 U
TMD-SO-005-2.5/3	005	2.5/3	0.39 U
TMD-SO-006-0/0.5	006	0/0.5	0.36 U
TMD-SO-006-1/1.5	006	1/1.5	0.38 U
TMD-SO-006-2.5/3	006	2.5/3	0.39 U
TMD-SO-007-0/0.5	007	0/0.5	0.36 U
TMD-SO-007-1/1.5	007	1/1.5	0.37 U
TMD-SO-007-2.5/3	007	2.5/3	0.36 U
TMD-SO-008-0/0.5	008	0/0.5	0.41 U
TMD-SO-008-0/0.5-FD	008	0/0.5	0.38 U
TMD-SO-008-1/1.5	008	1/1.5	0.40 U
TMD-SO-008-2.5/3	008	2.5/3	0.38 U
TMD-SO-009-0/0.5	009	0/0.5	0.37 J
TMD-SO-009-1/1.5	009	1/1.5	0.40 U
TMD-SO-009-2.5/3	009	2.5/3	0.44 U
TMD-SO-010-0/0.5R1	010	0/0.5	1.60
TMD-SO-010-1/1.5R1	010	1/1.5	0.31 J
TMD-SO-010-2.5/3R1	010	2.5/3	0.38 U
TMD-SO-010-0/0.5R2	010	0/0.5	0.60
TMD-SO-010-0/0.5R2-FD	010	0/0.5	1.20
TMD-SO-010-1/1.5R2	010	1/1.5	0.27 J
TMD-SO-010-2.5/3R2	010	2.5/3	0.21 J
TMD-SO-010-0/0.5R3	010	0/0.5	2.10
TMD-SO-010-1/1.5R3	010	1/1.5	0.27 J
TMD-SO-010-2/2.5R3	010	2/2.5	0.21 J
TMD-SO-011-0/0.5R1	011	0/0.5	2.30
TMD-SO-011-0.5/1R1	011	0.5/1	1.70
TMD-SO-011-1/1.5R1	011	1/1.5	0.38
TMD-SO-011-2.5/3R1	011	2.5/3	0.28 J

Table 2. Residential Property Soil Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Property Location ID	Sample Interval (feet)	Result Total PCBs (mg/kg)
TMD-SO-011-0/0.5R2	011	0/0.5	2.30
TMD-SO-011-0.5/1R2	011	0.5/1	1.70
TMD-SO-011-1/1.5R2	011	1/1.5	0.63
TMD-SO-011-2.5/3R2	011	2.5/3	0.47
TMD-SO-011-0/0.5R3	011	0/0.5	2.90
TMD-SO-011-0.5/1R3	011	0.5/1	1.60
TMD-SO-011-1/1.5R3	011	1/1.5	0.96
TMD-SO-011-1/1.5R3-FD	011	1/1.5	0.57
TMD-SO-011-2.5/3R3	011	2.5/3	0.37 U
TMD-SO-012-0/0.5	012	0/0.5	0.37 U
TMD-SO-012-1/1.5	012	1/1.5	0.38 U
TMD-SO-012-2.5/3	012	2.5/3	0.35 U
TMD-SO-013-0/0.5	013	0/0.5	0.64
TMD-SO-013-1/1.5	013	1/1.5	0.41 U
TMD-SO-013-1/1.5-FD	013	1/1.5	0.35 U
TMD-SO-013-2.5/3	013	2.5/3	0.55
TMD-SO-014-0/0.5	014	0/0.5	0.42 U
TMD-SO-014-1/1.5	014	1/1.5	0.41 U
TMD-SO-014-2.5/3	014	2.5/3	0.39 U
TMD-SO-015-0/0.5	015	0/0.5	1.60
TMD-SO-015-1/1.5	015	1/1.5	0.36 U
TMD-SO-015-2.5/3	015	2.5/3	0.34 U
TMD-SO-016-0/0.5	016	0/0.5	0.24 J
TMD-SO-016-1/1.5	016	1/1.5	3.30 J
TMD-SO-016-1.5/2	016	1.5/2	0.38 U
TMD-SO-016-2.5/3	016	2.5/3	0.38 U
TMD-SO-016-2.5/3-FD	016	2.5/3	0.38 U
TMD-SO-017-0/0.5	017	0/0.5	0.38 U
TMD-SO-017-1/1.5	017	1/1.5	0.39 U
TMD-SO-017-2.5/3	017	2.5/3	0.42 U
TMD-SO-018-0/0.5	018	0/0.5	0.36 U
TMD-SO-018-1/1.5	018	1/1.5	0.38 U
TMD-SO-018-2.5/3	018	2.5/3	0.39 U
TMD-SO-019-0/0.5R1	019	0/0.5	1.00
TMD-SO-019-1/1.5R1	019	1/1.5	0.34 J
TMD-SO-019-2.5/3R1	019	2.5/3	0.37 U
TMD-SO-019-0/0.5R2	019	0/0.5	1.40
TMD-SO-019-0/0.5R2-FD	019	0/0.5	1.70

Table 2. Residential Property Soil Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Property Location ID	Sample Interval (feet)	Result Total PCBs (mg/kg)
TMD-SO-019-1/1.5R2	019	1/1.5	0.37 J
TMD-SO-019-2.5/3R2	019	2.5/3	0.23 J
TMD-SO-019-0/0.5R3	019	0/0.5	1.40
TMD-SO-019-1/1.5R3	019	1/1.5	0.62
TMD-SO-019-2.5/3R3	019	2.5/3	0.41 U
TMD-SO-020-0/0.5	020	0/0.5	0.18 J
TMD-SO-020-1/1.5	020	1/1.5	0.50
TMD-SO-020-2.5/3	020	2.5/3	0.39 U
TMD-SO-021-0/0.5	021	0/0.5	0.40 U
TMD-SO-021-1/1.5	021	1/1.5	0.40 U
TMD-SO-021-1/1.5-FD	021	1/1.5	0.39 U
TMD-SO-021-2.5/3	021	2.5/3	0.38 U
TMD-SO-022-0/0.5	022	0/0.5	0.36 U
TMD-SO-022-1/1.5	022	1/1.5	1.20
TMD-SO-022-2.5/3	022	2.5/3	0.40 UJ
TMD-SO-023-0/0.5	023	0/0.5	0.29 J
TMD-SO-023-1/1.5	023	1/1.5	0.36 U
TMD-SO-023-1/1.5-FD	023	1/1.5	0.38 U
TMD-SO-023-2.5/3	023	2.5/3	0.30 J
TMD-SO-024-0/0.5	024	0/0.5	0.82
TMD-SO-024-1/1.5	024	1/1.5	0.44
TMD-SO-024-2.5/3	024	2.5/3	0.40 U
TMD-SO-025-0/0.5	025	0/0.5	1.70
TMD-SO-025-1/1.5	025	1/1.5	0.35 J
TMD-SO-025-2.5/3	025	2.5/3	0.31 J
TMD-SO-026-0/0.5	026	0/0.5	1.60
TMD-SO-026-1/1.5	026	1/1.5	0.49
TMD-SO-026-2.5/3	026	2.5/3	0.51
TMD-SO-026-2.5/3-FD	026	2.5/3	0.42
TMD-SO-027-0/0.5	027	0/0.5	0.44
TMD-SO-027-1/1.5	027	1/1.5	0.57
TMD-SO-027-2.5/3	027	2.5/3	0.41 UJ
TMD-SO-028-0/0.5R1	028	0/0.5	0.36 U
TMD-SO-028-1/1.5R1	028	1/1.5	0.38 U
TMD-SO-028-2.5/3R1	028	2.5/3	0.40 U
TMD-SO-028-0/0.5R2	028	0/0.5	0.36 U
TMD-SO-028-1/1.5R2	028	1/1.5	0.37 U
TMD-SO-028-2.5/3R2	028	2.5/3	0.40 U

Table 2. Residential Property Soil Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Property Location ID	Sample Interval (feet)	Result Total PCBs (mg/kg)
TMD-SO-028-0/0.5R3	028	0/0.5	0.36 U
TMD-SO-028-0/0.5R3-FD	028	0/0.5	0.35 U
TMD-SO-028-1/1.5R3	028	1/1.5	0.35 U
TMD-SO-028-2.5/3R3	028	2.5/3	0.29 U
TMD-SO-029-0/0.5	029	0/0.5	1.70
TMD-SO-029-1/1.5	029	1/1.5	0.90
TMD-SO-029-2.5/3	029	2.5/3	0.20 J
TMD-SO-030-0/0.5	030	0/0.5	0.40 U
TMD-SO-030-1/1.5	030	1/1.5	0.39 U
TMD-SO-030-2.5/3	030	2.5/3	0.40 U
TMD-SO-031-0/0.5	031	0/0.5	0.33
TMD-SO-031-0/0.5-FD	031	0/0.5	0.32 J
TMD-SO-031-1/1.5	031	1/1.5	0.23 J
TMD-SO-031-2.5/3	031	2.5/3	0.53
TMD-SO-032-0/0.5	032	0/0.5	1.20
TMD-SO-032-1/1.5	032	1/1.5	0.33 U
TMD-SO-032-2.5/3	032	2.5/3	0.24 J
TMD-SO-033-0/0.5	033	0/0.5	2.90
TMD-SO-033-1/1.5	033	1/1.5	0.53
TMD-SO-033-2.5/3	033	2.5/3	0.34
TMD-SO-034-0/0.5	034	0/0.5	0.20 J
TMD-SO-034-1/1.5	034	1/1.5	0.30 U
TMD-SO-034-1/1.5-FD	034	1/1.5	0.34 U
TMD-SO-034-2.5/3	034	2.5/3	0.32 U
TMD-SO-035-0/0.5	035	0/0.5	0.40 U
TMD-SO-035-0.5/1	035	0.5/1	0.34 U
TMD-SO-035-1/1.5	035	1/1.5	0.34 U
TMD-SO-035-2.5/3	035	2.5/3	0.28 U
TMD-SO-036-0/0.5	036	0/0.5	0.31 U
TMD-SO-036-1/1.5	036	1/1.5	0.88
TMD-SO-036-2.5/3	036	2.5/3	0.21 J
TMD-SO-037-0/0.5	037	0/0.5	0.38 U
TMD-SO-037-1/1.5	037	1/1.5	0.34 U
TMD-SO-037-1/1.5-FD	037	1/1.5	0.30 U
TMD-SO-037-2.5/3	037	2.5/3	0.26 U
TMD-SO-038-0/0.5	038	0/0.5	0.52
TMD-SO-038-1/1.5	038	1/1.5	0.33 U
TMD-SO-038-2.5/3	038	2.5/3	0.37 U

Table 2. Residential Property Soil Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Property Location ID	Sample Interval (feet)	Result Total PCBs (mg/kg)
TMD-SO-039-0/0.5	039	0/0.5	0.43
TMD-SO-039-1/1.5	039	1/1.5	0.35 U
TMD-SO-039-2.5/3	039	2.5/3	0.34 U
TMD-SO-040-0/0.5R1	040	0/0.5	0.29 U
TMD-SO-040-1/1.5R1	040	1/1.5	0.34 U
TMD-SO-040-2.5/3R1	040	2.5/3	0.32 U
TMD-SO-040-0/0.5R2	040	0/0.5	0.37 U
TMD-SO-040-0/0.5R2-FD	040	0/0.5	0.33 U
TMD-SO-040-1/1.5R2	040	1/1.5	0.39 U
TMD-SO-040-2.5/3R2	040	2.5/3	0.37 U
TMD-SO-040-0/0.5R3	040	0/0.5	0.24 U
TMD-SO-040-1/1.5R3	040	1/1.5	0.30 U
TMD-SO-040-2.5/3R3	040	2.5/3	0.35 U
TMD-SO-041-0/0.5R1	041	0/0.5	0.32 U
TMD-SO-041-1/1.5R1	041	1/1.5	0.45
TMD-SO-041-2.5/3R1	041	2.5/3	0.38 U
TMD-SO-041-0/0.5R2	041	0/0.5	0.35 U
TMD-SO-041-1/1.5R2	041	1/1.5	0.35 U
TMD-SO-041-1/1.5R2-FD	041	1/1.5	0.19 J
TMD-SO-041-2.5/3R2	041	2.5/3	0.34 U
TMD-SO-041-0/0.5R3	041	0/0.5	0.25 J
TMD-SO-041-1/1.5R3	041	1/1.5	0.33 U
TMD-SO-041-2.5/3R3	041	2.5/3	0.37 U
TMD-SO-043-0/0.5	043	0/0.5	4.80
TMD-SO-043-1/1.5	043	1/1.5	8.00
TMD-SO-043-1.5/2	043	1.5/2	7.00
TMD-SO-044-0/0.5	044	0/0.5	14.00
TMD-SO-044-0/0.5-FD	044	0/0.5	14.00
TMD-SO-044-1/1.5	044	1/1.5	2.40
TMD-SO-044-1.5/2	044	1.5/2	1.10
TMD-SO-044-1.5/2-FD	044	1.5/2	1.10
TMD-SO-045-0/0.5	045	0/0.5	0.92
TMD-SO-045-1/1.5	045	1/1.5	0.39 U
TMD-SO-046-0/0.5	046	0/0.5	2.20
TMD-SO-046-1/1.5	046	1/1.5	1.20
TMD-SO-047-0/0.5	047	0/0.5	6.30
TMD-SO-047-1/1.5	047	1/1.5	7.70
TMD-SO-047-1.5/2	047	1.5/2	0.80 J

Table 2. Residential Property Soil Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Property Location ID	Sample Interval (feet)	Result Total PCBs (mg/kg)
TMD-SO-048-0/0.5	048	0/0.5	3,500.00
TMD-SO-048-1/1.5	048	1/1.5	6,700.00
TMD-SO-048-1.5/2	048	1.5/2	384.00
TMD-SO-049-0/0.5	049	0/0.5	2.00
TMD-SO-049-1/1.5	049	1/1.5	1.80 J
TMD-SO-049-1.5/2	049	1.5/2	0.33 J
TMD-SO-050-0/0.5	050	0/0.5	3.30
TMD-SO-050-1/1.5	050	1/1.5	3.00
TMD-SO-050-1.5/2	050	1.5/2	0.84
TMD-SO-051-0/0.5	051	0/0.5	8.70
TMD-SO-051-1/1.5	051	1/1.5	3.30 J
TMD-SO-051-1.5/2	051	1.5/2	0.17 J
TMD-SO-051-1.5/2-FD	051	1.5/2	0.19 J
TMD-SO-052-0/0.5	052	0/0.5	7.60
TMD-SO-052-1/1.5	052	1/1.5	0.38 U
TMD-SO-052-1/1.5-FD	052	1/1.5	0.41 U
TMD-SO-053-0/0.5	053	0/0.5	26.00
TMD-SO-053-1/1.5	053	1/1.5	2.60
TMD-SO-053-1.5/2	053	1.5/2	11.89
TMD-SO-054-0/0.5	054	0/0.5	2.80
TMD-SO-054-1/1.5	054	1/1.5	3.10
TMD-SO-054-1.5/2	054	1.5/2	0.94 J
TMD-SO-055-0/0.5R1	055	0/0.5	11.00
TMD-SO-055-1/1.5R1	055	1/1.5	2.40
TMD-SO-055-0/0.5R2	055	0/0.5	23.60 J
TMD-SO-055-1/1.5R2	055	1/1.5	2.82
TMD-SO-055-0/0.5R3	055	0/0.5	15.44
TMD-SO-055-1/1.5R3	055	1/1.5	2.44
TMD-SO-056-0/0.5	056	0/0.5	0.95
TMD-SO-056-1/1.5	056	1/1.5	0.44
TMD-SO-057-0/0.5	057	0/0.5	13.30
TMD-SO-057-1/1.5	057	1/1.5	0.38
TMD-SO-057-2.5/3	057	2.5/3	0.26 U
TMD-SO-058-0/0.5	058	0/0.5	0.70
TMD-SO-058-0/0.5-FD	058	0/0.5	0.56
TMD-SO-058-1/1.5	058	1/1.5	0.34 U
TMD-SO-058-2.5/3	058	2.5/3	0.37 U
TMD-SO-059-0/0.5	059	0/0.5	1.70

Table 2. Residential Property Soil Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Property Location ID	Sample Interval (feet)	Result Total PCBs (mg/kg)
TMD-SO-059-1/1.5	059	1/1.5	0.28 J
TMD-SO-059-2.5/3	059	2.5/3	0.31 U
TMD-SO-060-0/0.5R1	060	0/0.5	0.54
TMD-SO-060-1/1.5R1	060	1/1.5	0.30 U
TMD-SO-060-2.5/3R1	060	2.5/3	0.37 U
TMD-SO-060-0/0.5R2	060	0/0.5	0.31 U
TMD-SO-060-1/1.5R2	060	1/1.5	0.32 U
TMD-SO-060-2.5/3R2	060	2.5/3	0.31 U
TMD-SO-060-2.5/3R2-FD	060	2.5/3	0.27 U
TMD-SO-060-0/0.5R3	060	0/0.5	0.58 J
TMD-SO-060-1/1.5R3	060	1/1.5	0.36 U
TMD-SO-060-2.5/3R3	060	2.5/3	0.33 U
TMD-SO-061-0/0.5	061	0/0.5	2.70
TMD-SO-061-1/1.5	061	1/1.5	0.53 J
TMD-SO-061-2.5/3	061	2.5/3	0.37 U
TMD-SO-062-0/0.5	062	0/0.5	0.30 U
TMD-SO-062-1/1.5	062	1/1.5	0.30 U
TMD-SO-062-1/1.5-FD	062	1/1.5	0.31 U
TMD-SO-062-2.5/3	062	2.5/3	0.30 U
TMD-SO-063-0/0.5	063	0/0.5	6.70
TMD-SO-063-1/1.5	063	1/1.5	1.50
TMD-SO-063-2.5/3	063	2.5/3	0.26 U
TMD-SO-064-0/0.5	064	0/0.5	0.55 U
TMD-SO-064-1/1.5	064	1/1.5	1.65
TMD-SO-064-2.5/3	064	2.5/3	0.34 U
TMD-SO-065-0/0.5	065	0/0.5	19.00
TMD-SO-065-0/0.5-FD	065	0/0.5	36.00
TMD-SO-065-1/1.5	065	1/1.5	1.17
TMD-SO-065-2.5/3	065	2.5/3	0.23
TMD-SO-066-0/0.5	066	0/0.5	1.11
TMD-SO-066-1/1.5	066	1/1.5	1.50
TMD-SO-066-2.5/3	066	2.5/3	0.33 U
TMD-SO-067-0/0.5	067	0/0.5	1.73
TMD-SO-067-1/1.5	067	1/1.5	0.74
TMD-SO-067-2.5/3	067	2.5/3	ND
TMD-SO-068-0/0.5	068	0/0.5	13.40
TMD-SO-068-1/1.5	068	1/1.5	1.05
TMD-SO-068-1/1.5-FD	068	1/1.5	0.35

Table 2. Residential Property Soil Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Property Location ID	Sample Interval (feet)	Result Total PCBs (mg/kg)
TMD-SO-068-2.5/3	068	2.5/3	0.23
TMD-SO-069-0/0.5	069	0/0.5	77.00
TMD-SO-069-1/1.5	069	1/1.5	5.20
TMD-SO-069-2.5/3	069	2.5/3	0.36 U
TMD-SO-070-0/0.5	070	0/0.5	0.37 U
TMD-SO-070-1/1.5	070	1/1.5	0.81 J
TMD-SO-070-2.5/3	070	2.5/3	0.37
TMD-SO-071-0/0.5	071	0/0.5	5.60
TMD-SO-071-1/1.5	071	1/1.5	0.31 U
TMD-SO-071-2.5/3	071	2.5/3	0.31 UJ
TMD-SO-071-2.5/3-FD	071	2.5/3	0.33 UJ
TMD-SO-072-0/0.5	072	0/0.5	0.34 UJ
TMD-SO-072-1/1.5	072	1/1.5	0.28 U
TMD-SO-072-2.5/3	072	2.5/3	0.29 U
TMD-SO-073-0/0.5	073	0/0.5	0.30 U
TMD-SO-073-1/1.5	073	1/1.5	0.34 U
TMD-SO-073-2.5/3	073	2.5/3	0.27 U
TMD-SO-074-0/0.5R1	074	0/0.5	1.07
TMD-SO-074-1/1.5R1	074	1/1.5	0.50 J
TMD-SO-074-2.5/3R1	074	2.5/3	0.27 U
TMD-SO-074-0/0.5R2	074	0/0.5	0.90
TMD-SO-074-0/0.5R2-FD	074	0/0.5	1.08
TMD-SO-074-1/1.5R2	074	1/1.5	0.41 J
TMD-SO-074-2.5/3R2	074	2.5/3	0.32 U
TMD-SO-074-0/0.5R3	074	0/0.5	0.55
TMD-SO-074-1/1.5R3	074	1/1.5	0.23 J
TMD-SO-074-2.5/3R3	074	2.5/3	0.35 U
TMD-SO-075-0/0.5	075	0/0.5	0.33 U
TMD-SO-075-1/1.5	075	1/1.5	0.75
TMD-SO-076-0/0.5	076	0/0.5	8.00
TMD-SO-076-0/0.5-FD	076	0/0.5	11.00
TMD-SO-076-1/1.5	076	1/1.5	130.00
TMD-SO-077-0/0.5	077	0/0.5	9.40
TMD-SO-077-1/1.5	077	1/1.5	0.18 J
TMD-SO-077-2.5/3	077	2.5/3	0.31 U
TMD-SO-078-0/0.5R1	078	0/0.5	3.00 J
TMD-SO-078-1/1.5R1	078	1/1.5	1.53
TMD-SO-078-2.5/3R1	078	2.5/3	0.34 U

Table 2. Residential Property Soil Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Property Location ID	Sample Interval (feet)	Result Total PCBs (mg/kg)
TMD-SO-078-0/0.5R2	078	0/0.5	1.96 J
TMD-SO-078-1/1.5R2	078	1/1.5	0.61
TMD-SO-078-1/1.5R2-FD	078	1/1.5	1.33
TMD-SO-078-2.5/3R2	078	2.5/3	0.34 U
TMD-SO-078-0/0.5R3	078	0/0.5	3.90
TMD-SO-078-1/1.5R3	078	1/1.5	0.82
TMD-SO-078-2.5/3R3	078	2.5/3	0.35 U
TMD-SO-079-0/0.5	079	0/0.5	0.36 U
TMD-SO-079-1/1.5	079	1/1.5	0.28 U
TMD-SO-080-0/0.5	080	0/0.5	0.29 U
TMD-SO-080-1/1.5	080	1/1.5	0.33 U
TMD-SO-081-0/0.5	081	0/0.5	0.17 J
TMD-SO-081-0/0.5-FD	081	0/0.5	0.47 J
TMD-SO-081-1/1.5	081	1/1.5	0.29 U
TMD-SO-082-0/0.5	082	0/0.5	0.38 U
TMD-SO-082-1/1.5	082	1/1.5	0.29 U
TMD-SO-083-0/0.5	083	0/0.5	0.39 U
TMD-SO-083-1/1.5	083	1/1.5	0.26 U
TMD-SO-084-0/0.5	084	0/0.5	0.38 UJ
TMD-SO-084-1/1.5	084	1/1.5	0.33 UJ
TMD-SO-085-0/0.5	085	0/0.5	5.60
TMD-SO-086-0/0.5	086	0/0.5	1.50
TMD-SO-087-0/0.5	087	0/0.5	1.59
TMD-SO-087-0/0.5-FD	087	0/0.5	1.45

Notes:

Concentrations highlighted yellow exceed MDEQ adjusted Critical Value of 3.4 mg/kg as described in Section 2.2.1 of the RI report.

Concentrations highlighted red exceed TSCA criteria of 50 mg/kg.

Sample ID appendage descriptions: "FD" = Field Duplicate Sample; "R#" = Replicate Sample

U = Analyte value is nondetect at the reported value

J = Analyte identified in sample; however, reported value is estimated due to quality control issues

UJ = Analyte detected; however, due to poor surrogate recovery, the reported value is an estimate

Table 3. Former Martin Drain Soil Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Sample Interval (feet)	Result Total PCBs (mg/kg)
TMD-SO-088-2/3	2/3	0.094 UJ
TMD-SO-088-6/7.5	6/7.5	0.36 J
TMD-SO-089-2/3	2/3	0.092 U
TMD-SO-089-5/6	5/6	0.089 UJ
TMD-SO-090-2/3	2/3	0.10 U
TMD-SO-090-6/7	6/7	0.09 UJ
TMD-SO-091-2/3	2/3	0.17
TMD-SO-091-7/8	7/8	0.094 UJ
TMD-SO-092-2/3	2/3	0.11 U
TMD-SO-092-7.5/8.5	7.5/8.5	0.18 J
TMD-SO-092-7.5/8.5R	7.5/8.5	0.083 UJ
TMD-SO-093-2/3	2/3	0.080 U
TMD-SO-093-9/10	9/10	0.093 U
TMD-SO-094-2/3	2/3	0.099
TMD-SO-094-3.5/4.2	3.5/4.2	0.47
TMD-SO-095-4.4/4.8	4.4/4.8	0.11 U
TMD-SO-095-4.4/4.8-R	4.4/4.8	0.10 U
TMD-SO-095-6.2/6.8	6.2/6.8	0.11 U
TMD-SO-096-2.8/3.8	2.8/3.8	0.23
TMD-SO-096-6.3/7.3	6.3/7.3	0.11 U
TMD-SO-097-1.5/2.5	1.5/2.5	0.10 U
TMD-SO-097-5/5.7	5/5.7	0.36 J
TMD-SO-098-0.3/1.3	0.3/1.3	0.083 U
TMD-SO-098-6/6.7	6/6.7	0.11 U
TMD-SO-099-1.8/2.8	1.8/2.8	0.95
TMD-SO-099-6.4/6.9	6.4/6.9	0.12 U
TMD-SO-099-6.4/6.9-R	6.4/6.9	0.12 U
TMD-SO-100-1.4/2.4	1.4/2.4	0.093 U
TMD-SO-100-6.5/7	6.5/7	0.11 U
TMD-SO-101-1/2	1/2	0.092 U
TMD-SO-101-2/3	2/3	0.10 U
TMD-SO-101-2/3-R	2/3	0.10 U
TMD-SO-102-2.4/3.4	2.4/3.4	0.65
TMD-SO-102-3.4/4.4	3.4/4.4	0.69
TMD-SO-103-1.4/2.4	1.4/2.4	0.095 UJ
TMD-SO-103-5/6	5/6	0.11 UJ
TMD-SO-105-2.2/3.2	2.2/3.2	11
TMD-SO-105-3.4/4	3.4/4	169
TMD-SO-106-3/3.6	3/3.6	0.31 J
TMD-SO-106-5/6	5/6	0.09 UJ
TMD-SO-107-1.9/2.9	1.9/2.9	2.6

Table 3. Former Martin Drain Soil Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Sample Interval (feet)	Result Total PCBs (mg/kg)
TMD-SO-107-2.9/3.9	2.9/3.9	0.10 U
TMD-SO-108-2.3/3.3	2.3/3.3	0.09
TMD-SO-109-5.8/6.3	5.8/6.3	0.36
TMD-SO-109-6.3/6.8	6.3/6.8	0.11 U
TMD-SO-110-6.1/7	6.1/7	0.10 U
TMD-SO-111-1.5/2.5	1.5/2.5	0.074 U
TMD-SO-111-5/6	5/6	0.11 U
TMD-SO-112-1.7/2.7	1.7/2.7	0.081 U
TMD-SO-112-5/6	5/6	0.096 U
TMD-SO-113-2/3	2/3	0.084 U
TMD-SO-113-5/6	5/6	0.11 U
TMD-SO-114-2.5/3.5	2.5/3.5	0.10 U
TMD-SO-114-2.5/3.5-R	2.5/3.5	0.099 U
TMD-SO-114-5/5.6	5/5.6	0.090 U
TMD-SO-115-2.9/3.9	2.9/3.9	0.11 U
TMD-SO-115-5/5.4	5/5.4	0.095 U
TMD-SO-116-3.8/4.6	3.8/4.6	0.082 U
TMD-SO-116-5.8/6.8	5.8/6.8	0.11 U
TMD-SO-117-2.3/3.3	2.3/3.3	0.10 U
TMD-SO-119-1.3/2.3	1.3/2.3	0.11 U
TMD-SO-119-3.7/4.7	3.7/4.7	0.099 U
TMD-SO-120-1.4/2.4	1.4/2.4	2.4
TMD-SO-120-1.4/2.4-R	1.4/2.4	1.9
TMD-SO-120-2.4/3	2.4/3	0.11
TMD-SO-121-5/5.9	5/5.9	8.6
TMD-SO-122-1.6/2	1.6/2	0.10 U
TMD-SO-122-2/2.4	2/2.4	0.12 U
TMD-SO-122-2/2.4-R	2/2.4	0.11 U
TMD-SO-123-1.1/2.1	1.1/2.1	0.11 U
TMD-SO-123-2.2/3.2	2.2/3.2	0.098 U

Notes:

Concentrations highlighted yellow exceed MDEQ Generic Residential Cleanup Criteria of 4 mg/kg as described in Section 2.2.1 of the RI report.

Concentrations highlighted red exceed TSCA criteria of 50 mg/kg.

Sample ID appendage descriptions: "FD" = Field Duplicate Sample; "R#" = Replicate Sample

U = Analyte value is nondetect at the reported value

J = Analyte identified in sample; however, reported value is estimated due to quality control issues

UJ = Analyte detected; however, due to poor surrogate recovery, the reported value is an estimate

Table 4. TMD Manhole Sampling

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Manhole ID or Location Description	Total PCBs [a] mg/g
TMD-MH-001	M4266	2,000 U
TMD-MH-002	M4268	2,300
TMD-MH-003	M4224	2,000 U
TMD-MH-004	M7184	2,200
TMD-MH-004-FD	M7184	5,300
TMD-MH-005	M4263	10,000
TMD-MH-006	M4262	1,700 J
TMD-MH-007	M7182	1,200 J
TMD-MH-008	M4334	2,000 U
TMD-MH-009	M6975	1,100 J
TMD-MH-010	M6971	6,400
TMD-MH-011	M6969	10,000
TMD-MH-012	M4334	460,000
TMD-MH-013	M7183	1,000,000
TMD-MH-013-FD	M7183	780,000
TMD-MH-014	M4335	350,000,000
TMD-MH-015	M4281	83,000
TMD-MH-016	M7178	63,000
TMD-MH-017	M7179	5,000,000,000
TMD-MH-018	M6958	320,000
TMD-MH-019	M6961	67,000
TMD-MH-020	M7083	190,000
TMD-MH-021	M7076	630,000
TMD-MH-022	M7055	31,000
TMD-MH-023	Fresenius Parking Lot NE MH	68,000
TMD-MH-024	Fresenius Parking Lot NW MH	8,100
TMD-MH-024-FD	Fresenius Parking Lot NW MH	10,000
TMD-MH-025	Fresenius Parking Lot SW MH	870,000
TMD-MH-026	Fresenius Parking Lot SE MH	200,000
TMD-MH-027	M7177	1,300 J
TMD-MH-028	M4261	2,000 U
TMD-MH-029	M4225	2,000 U
TMD-MH-030	21235 Madison	2,000 U
TMD-MH-031	M4267	2,000 U
TMD-MH-032	M4208	2,000 U
TMD-MH-033	Crowley MH	2,000 U
TMD-MH-034	M4205	2,000 U
TMD-MH-035	MBB2	2,000 U
TMD-MH-036	MBB1	2,000 U
TMD-MH-036-FD	MBB1	2,000 U
TMD-MH-037	M6962	270,000
TMD-MH-038	M4427	2,000 U
TMD-MH-039	M4320	1,200 J
TMD-MH-040	M4321	2,000 U
TMD-MH-041	M4331	1,600 J
TMD-MH-042	M4330	1,300 J
TMD-MH-043	M4271	1,100 J
TMD-MH-044	M4272	2,000 U
TMD-MH-045	M4273	28,000
TMD-MH-045-FD	M4273	6,600
TMD-MH-046	M6973	2,000 U
TMD-MH-047	Bon Brae UNK 1	2,000 U
TMD-MH-048	M4422	2,000 U
TMD-MH-049	M4429	2,000 U
TMD-MH-050	M6965	2,000 U
TMD-MH-051	M4430	2,000 U
TMD-MH-051-FD	M4430	2,000 U
TMD-MH-052	M4270	2,000 U

Table 4. TMD Manhole Sampling

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Sample ID	Manhole ID or Location Description	Total PCBs [a] mg/g
TMD-MH-053	M4326	2,000 U
TMD-MH-054	M4329	2,000 U
TMD-MH-055	Madison UNK 1	2,000 U
TMD-MH-056	Madison UNK 2	2,000 U
TMD-MH-057	M4602	2,000 U
TMD-MH-058	Statler UNK 1	2,000 U
TMD-MH-059	M4276	2,000 U
TMD-MH-060	M4280/4323	2,000 U
TMD-MH-061	M4324	2,000 U
TMD-MH-062	M4325	2,000 U
TMD-MH-062-FD	M4325	2,000 U
TMD-MH-063	M4552	2,000 U
TMD-MH-064	M4548	2,000 U
TMD-MH-065	Benjamin UNK 1	2,000 U
TMD-MH-066	Benjamin UNK 2	2,000 U
TMD-MH-067	Benjamin UNK 3	2,000 U
TMD-MH-068	Benjamin UNK 4	2,000 U
TMD-MH-069	M7082	2,000 U
TMD-MH-070	Benjamin UNK 5	1,100 J
TMD-MH-071	M4274	2,000 U
TMD-MH-072	M4275	2,000 U
TMD-MH-073	Maple UNK 1	2,000 U
TMD-MH-073-FD	Maple UNK 1	2,000 U
TMD-MH-074	M4277	2,000 U
TMD-MH-075	M4279	2,000 U
TMD-MH-076	M4322	2,000 U
TMD-MH-077	M4551	2,000 U
TMD-MH-078	Maple UNK 2	2,000 U
TMD-MH-079	M4549	2,000 U
TMD-MH-080	Maple UNK 3	2,000 U
TMD-MH-081	Maple UNK 4	2,000 U
TMD-MH-081-FD	Maple UNK 4	2,000 U
TMD-MH-082	Maple UNK 5	2,000 U
TMD-MH-083	M4480	2,000 U
TMD-MH-084	10 Mile UNK 1	2,000 U
TMD-MH-084-FD	10 Mile UNK 1	2,000 U
TMD-MH-085	M4479	2,000 U
TMD-MH-086	10 Mile UNK 2	2,000 U
TMD-MH-087	M4545	2,000 U
TMD-MH-088	10 Mile UNK 3	2,000 U
TMD-MH-089	M4542	2,000 U
TMD-MH-090	M4540	2,000 UJ
TMD-MH-091	M4609	2,000 UJ
TMD-MH-091-FD	M4609	3,500
TMD-MH-092	10 Mile UNK 4	4,700
TMD-MH-093	10 Mile UNK 5	2,000 U
TMD-MH-094	M7058	2,000
TMD-MH-095	10 Mile UNK 6	2,000 U
TMD-MH-096	10 Mile UNK 7	5,600

Notes:

[a]Due to the method of sampling and laboratory processing, PCB analytical data were reported as a total per sample. No percent weight corrections have been made for this data. In an effort to provide a consistent reference upon which to evaluate the data from the manhole sampling, paint roller samples were cut to approximately equal volumes. The mobile laboratory then assumed that the sample volume/weight had a unitless base value of 1.

Table 5. Groundwater Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

			MDEQ Regulatory Criteria (µg/L)				
Sample ID	Well ID	Sample/Screened Interval (feet bgs)	Non-Residential Drinking Water	Groundwater Surface Water Interface Criteria	Direct Contact	EPA Maximum Allowable Contaminant Limit (µg/L)	Result Total PCBs (µg/L)
TMD-GW-001-7/12	MW-1	7/12	0.5	0.2	3.3	0.5	16
TMD-GW-001-7/12-FD	MW-1	7/12	0.5	0.2	3.3	0.5	24
TMD-GW-002-9/14	MW-5	9/14	0.5	0.2	3.3	0.5	ND
TMD-GW-003-7/12	MW-3	7/12	0.5	0.2	3.3	0.5	160
TMD-GW-004-10/15	MW-4	10/15	0.5	0.2	3.3	0.5	14
TMD-GW-005-13/18	MW-2	13/18	0.5	0.2	3.3	0.5	2.5

Notes:

ND = Nondetect

bgs = below ground surface

µg/L = micrograms per liter

Table 6. Surface Water Sample Results

Remedial Investigation Report, Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

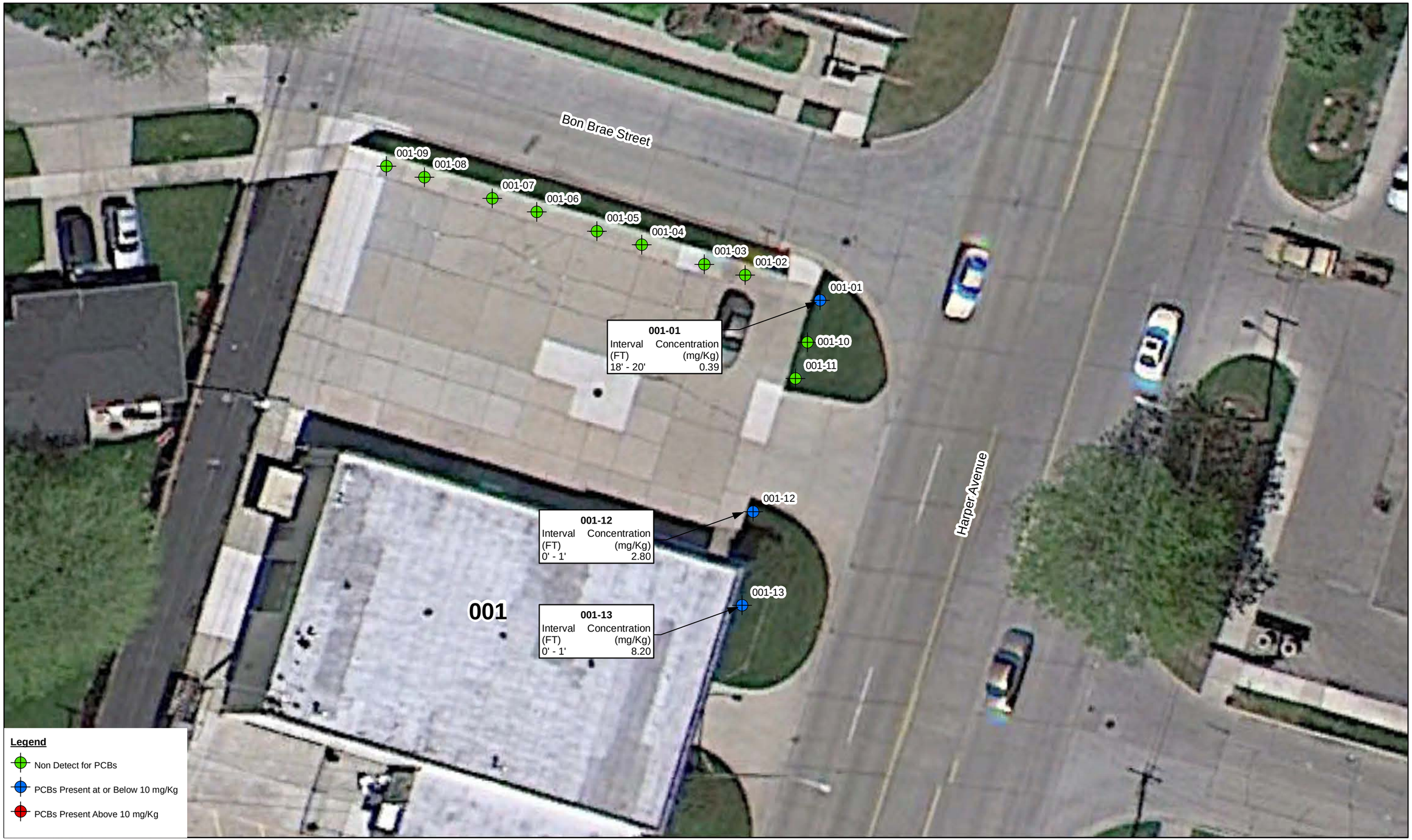
Sample ID	Location ID	Result Total PCBs (µg/L)
TMD-SW-001	002	ND
TMD-SW-002	002	ND

Figures

Note:
©2013 Google Aerial Dated May 9, 2010

FIGURE 1
Site Location and Investigation Areas Map
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

ch2m



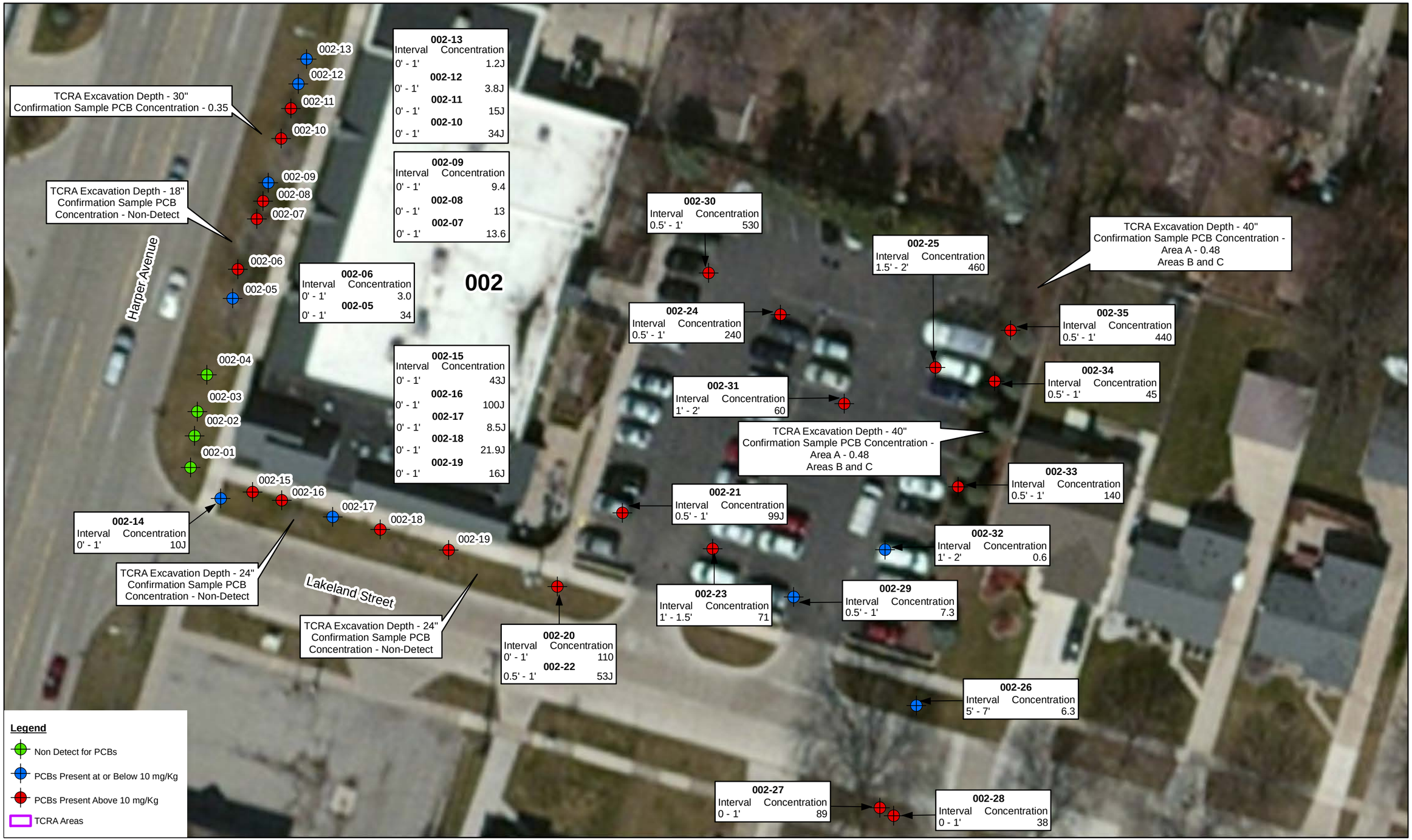
Note:

1. ©Google Aerial Dated May 9, 2010
2. All Samples Soil Borings Locations Begin with th prefix "TMD-SO-".
3. Soil borings are color coded based upon the greatest concentration detected within the boring. Except where noted, the greatest concentration of PCBs in a boring occurred within the 0 to 1 foot interval.

FIGURE 2
DPT Soil Boring Locations at Property 001
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

ch2m

\\cypress\proj\Army Corp\St Clair Shores\MXDs\Remedial Investigation\Figure Renember\TenMileDrain_Figure2_RI.mxd 02/19/2014



Notes:

1. All Samples Soil Borings Locations Begin with the prefix "TMD-SO-".
2. Soil borings are color coded based upon the greatest concentration detected within the boring. Except where noted, the greatest concentration of PCBs in a boring occurred within the 0 to 1 foot interval.
3. Interval unit of measurement is Feet and Concentration unit of measurement is mg/Kg
4. TCRA = Time Critical Removal Action
5. Basemap Source: Esri, 2014

FIGURE 3
DPT Soil Boring Locations at Property 002
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

N

0 25 50

Approximate scale in feet

Legend

Confirmation Sample

Front Yard

Parkway

Back Yard

Commercial Property

Notes:

1. ©Google Aerial Dated May 9, 2010
2. Highest concentrations for yard area are reported.
3. Highest concentrations occured in the 0-0.5' Interval unless otherwise noted.

FIGURE 4
Bon Brae Street Residential Soil Sampling Locations
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

ch2m.

\\cypress\proj\Army Corp\St Clair Shores\mcds\Remedial Investigation\Figure Renumber\TenMileDrain_Figure4_RI_June2014.mxd 06/30/2014

N

0 75 150

Approximate scale in feet

Legend

Back Yard

ND Non Detect for PCBs

Notes:

1. Hightest Concentrations for yard area are reported.
2. Highest concentrations occurred in the 0'-0.5' interval unless otherwise noted.
3. Basemap Source: Esri, 2014

FIGURE 5
Lange Revere Steet Canals
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

ch2m.

\\cypress\proj\Army Corp\St Clair Shores\MXDs\Remedial Investigation\Figure Renumber\TenMileDrain_Figure5_RI_June2014.mxd 06/30/2014

N

0 40 80

Approximate scale in feet

Legend

- Front Yard
- Parkway
- Back Yard
- Commercial Property

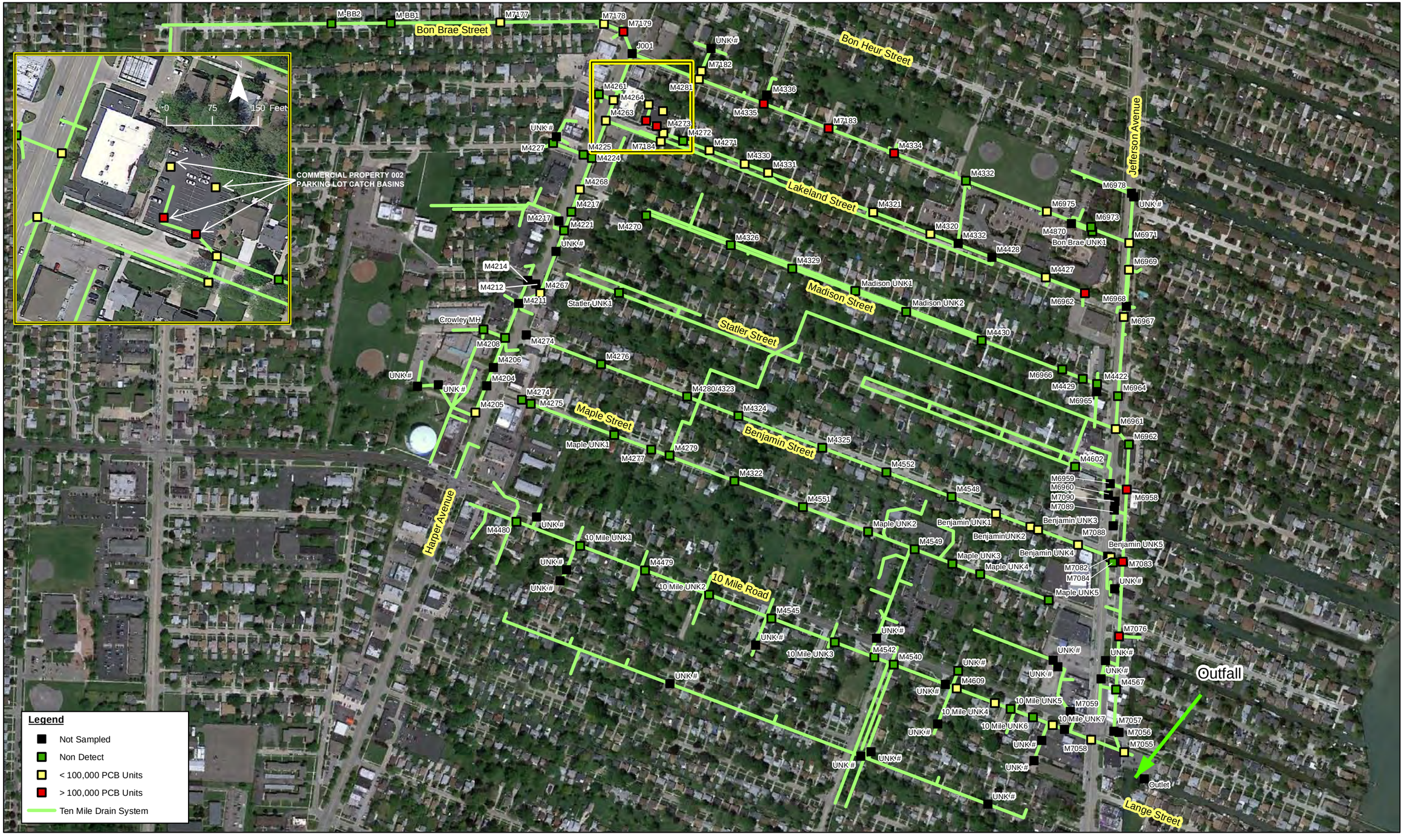
Notes:

1. ©Google Aerial Dated May 9, 2010
2. 2.2 @ 21606 Lakeland is combined parkway and yard results
3. Values in **RED** indicate a PCB concentration exceedance of the Critical Value (3.5 mg/Kg)
4. Values in **BLUE** indicate a PCB concentration not exceeding the Critical Value
5. Concentrations depicted, if not specified, are from the 0'-0.5' depth interval.
6. Depicted data accounts for soils removed through time critical removal action

Figure 6
Lakeland Street Properties Sampled
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

ch2m

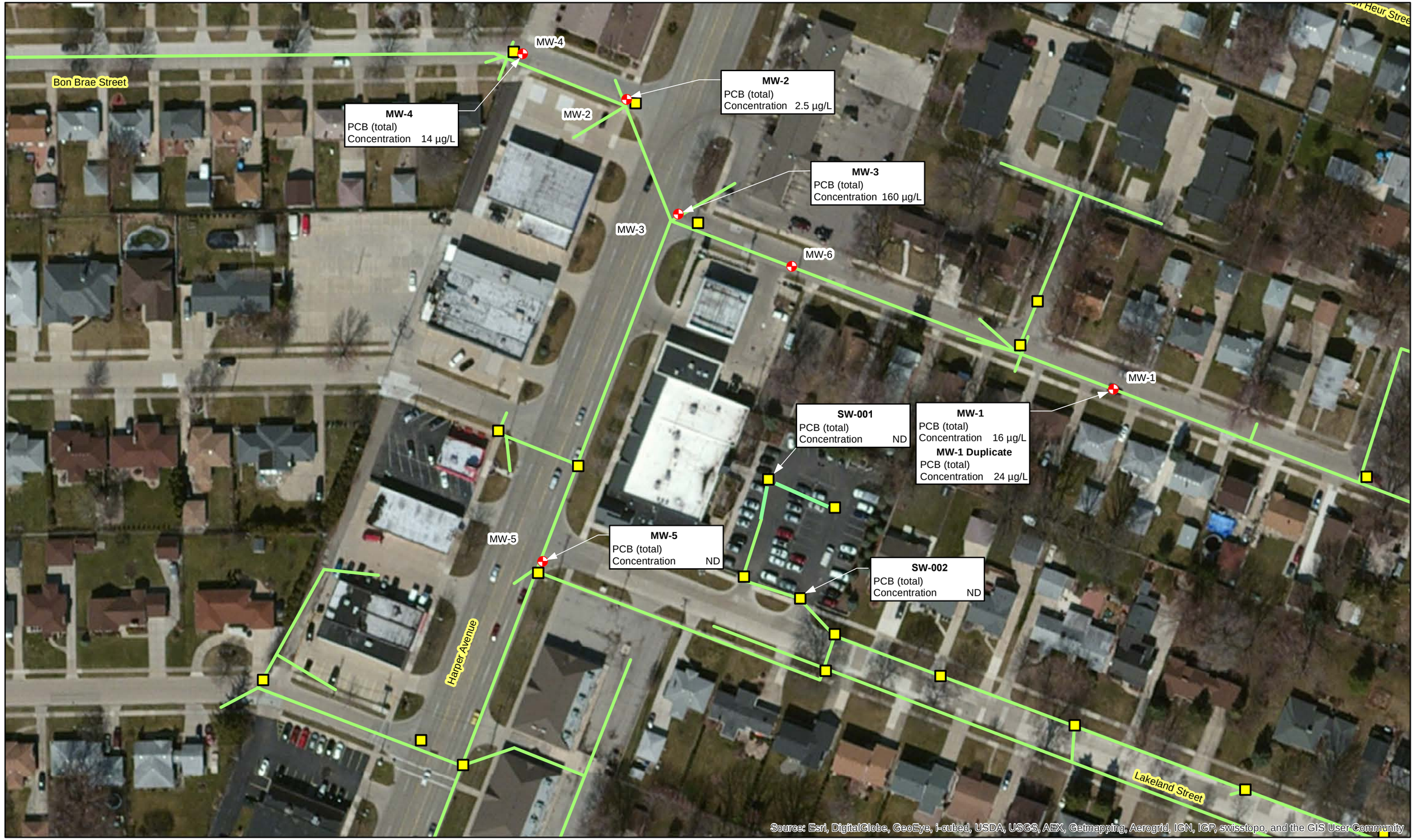
\\cypress\proj\army corp\Saint Clair Shores\MXDs\Revisions_Aug2016\TenMileDrain_Figure6a.mxd 9/16/2016



Note:
©Google Aerial May 9, 2010

FIGURE 7
Manhole Locations
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

\\cypress\proj\Army Corp\St Clair Shores\MXDs\Remedial-Investigation\Figure Renumber\TenMIleDrain_Figure7_RI.mxd 03/21/2014



N

0 45 90

Approximate scale in feet

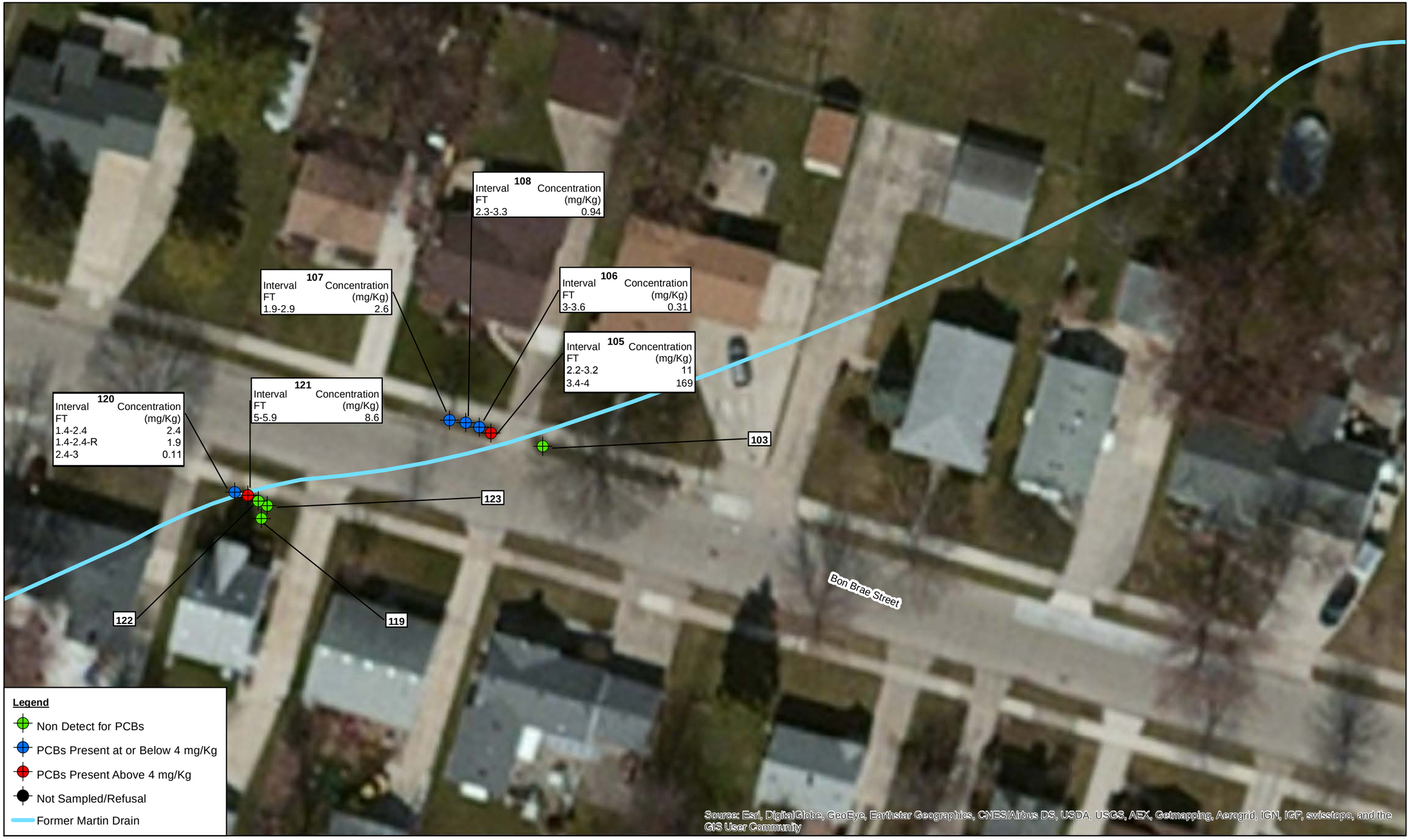
Legend

- Monitoring Wells
- Stormwater MH
- Ten Mile Drain System

FIGURE 8
Groundwater Monitoring Well and Surface Water Sampling Locations
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

ch2m

\\cypress\proj\Army Corp\St Clair Shores\MXDs\Remedial Investigation\Figure Renumber\TenMileDrain_Figure6_RI.mxd 02/19/2014



N

0 30 60 Feet

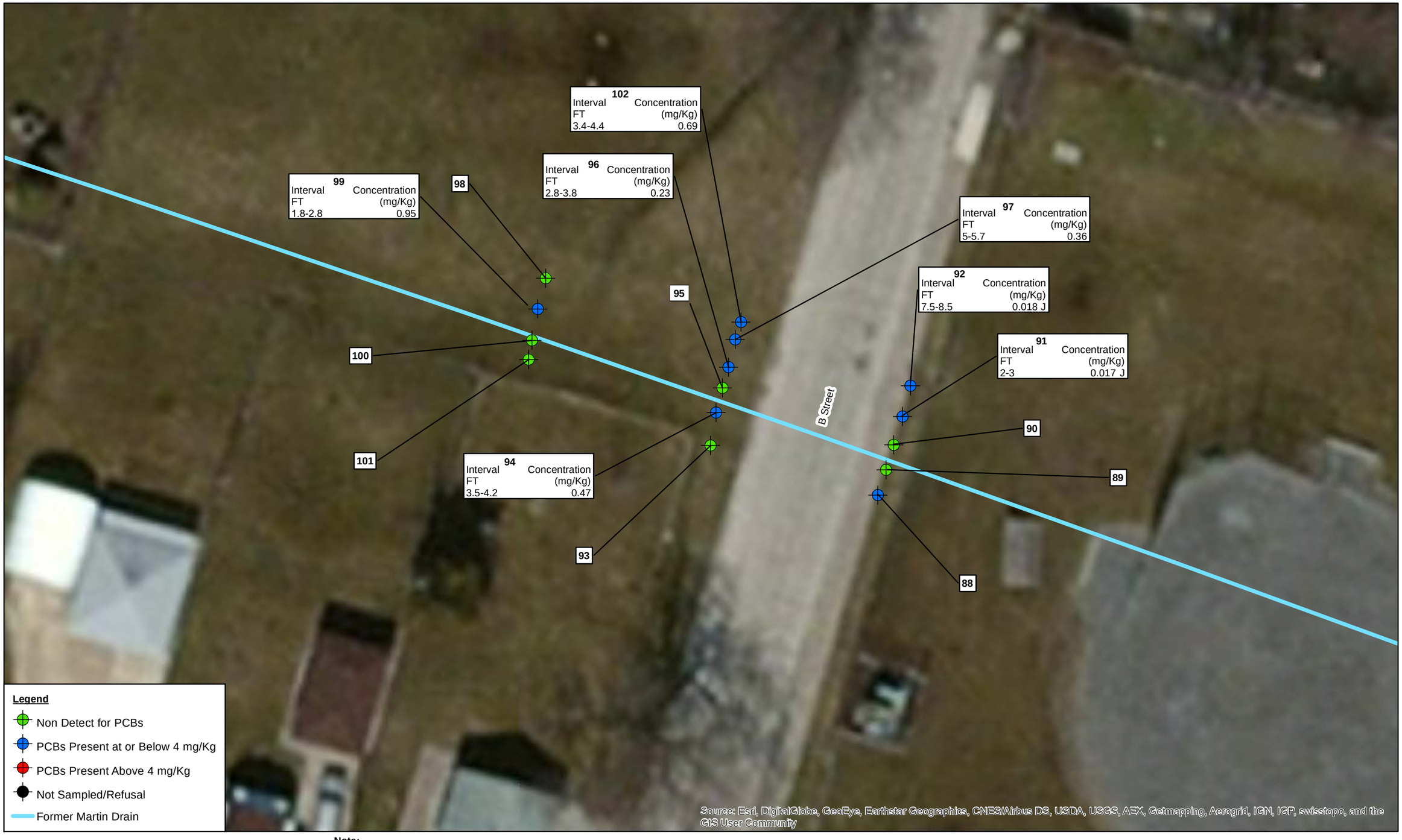
Note:

1. ©Google Aerial Dated May 9, 2010
2. All soil boring locations begin with the prefix "TMD-SO-".
3. Soil borings are color coded based upon the greatest concentration detected within the boring.

FIGURE 9
Former Martin Drain Soil Sampling
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

ch2m.

\\cypress\proj\army corp\Saint Clair Shores\MXDs\Remedial Investigation\Figure Renumber\TenMileDrain_Figure9_RI.mxd



N

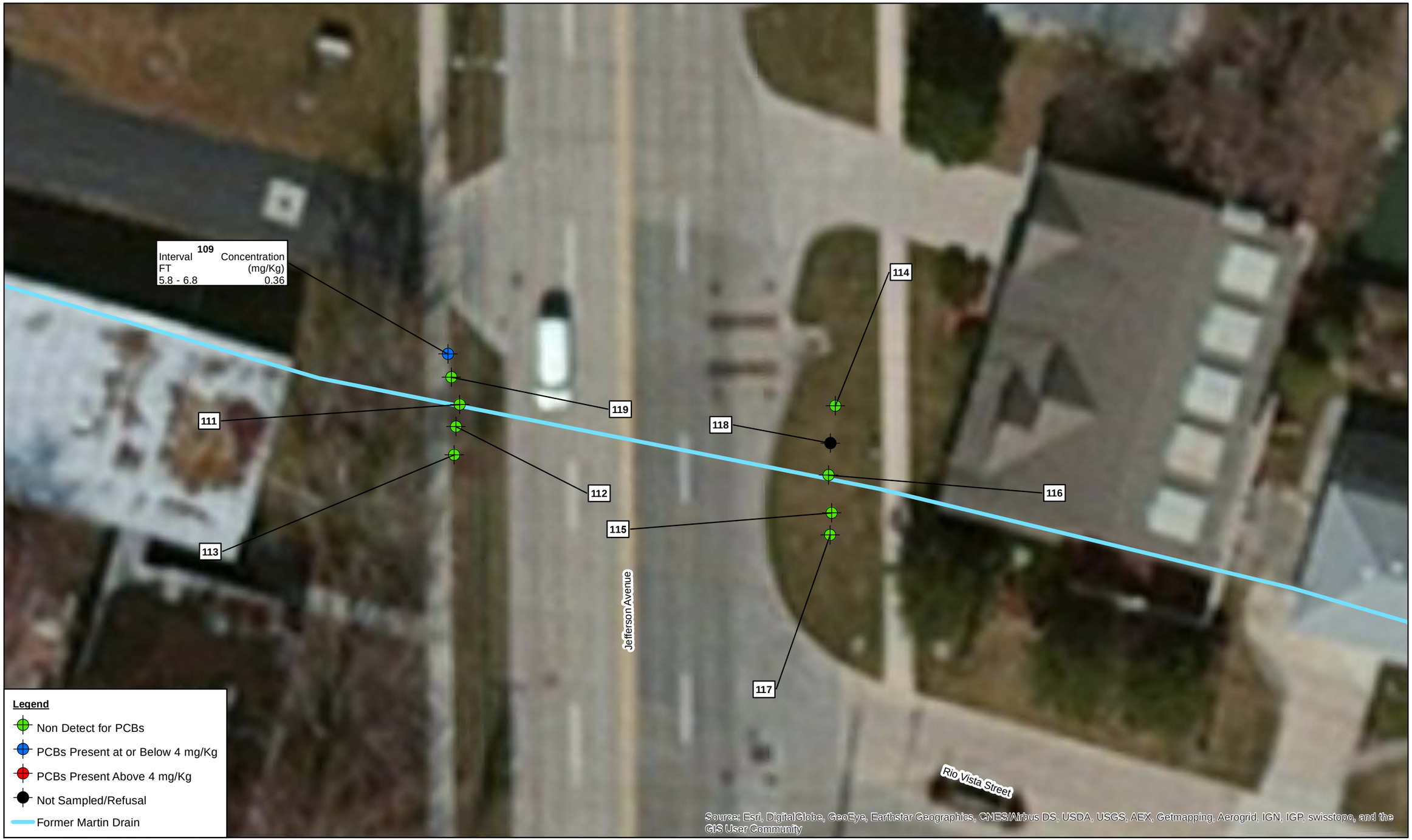
0 20 40 Feet

Note:

1. ©Google Aerial Dated May 9, 2010
2. All soil boring locations begin with the prefix "TMD-SO-".
3. Soil borings are color coded based upon the greatest concentration detected within the boring.

FIGURE 10
Former Martin Drain Soil Sampling
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

\\cypress\proj\army corp\Saint Clair Shores\MXDs\Remedial Investigation\Figure Renumber\TenMileDrain_Figure10_RI.mxd



Legend

- Non Detect for PCBs
- PCBs Present at or Below 4 mg/Kg
- PCBs Present Above 4 mg/Kg
- Not Sampled/Refusal
- Former Martin Drain

N

0 20 40 Feet

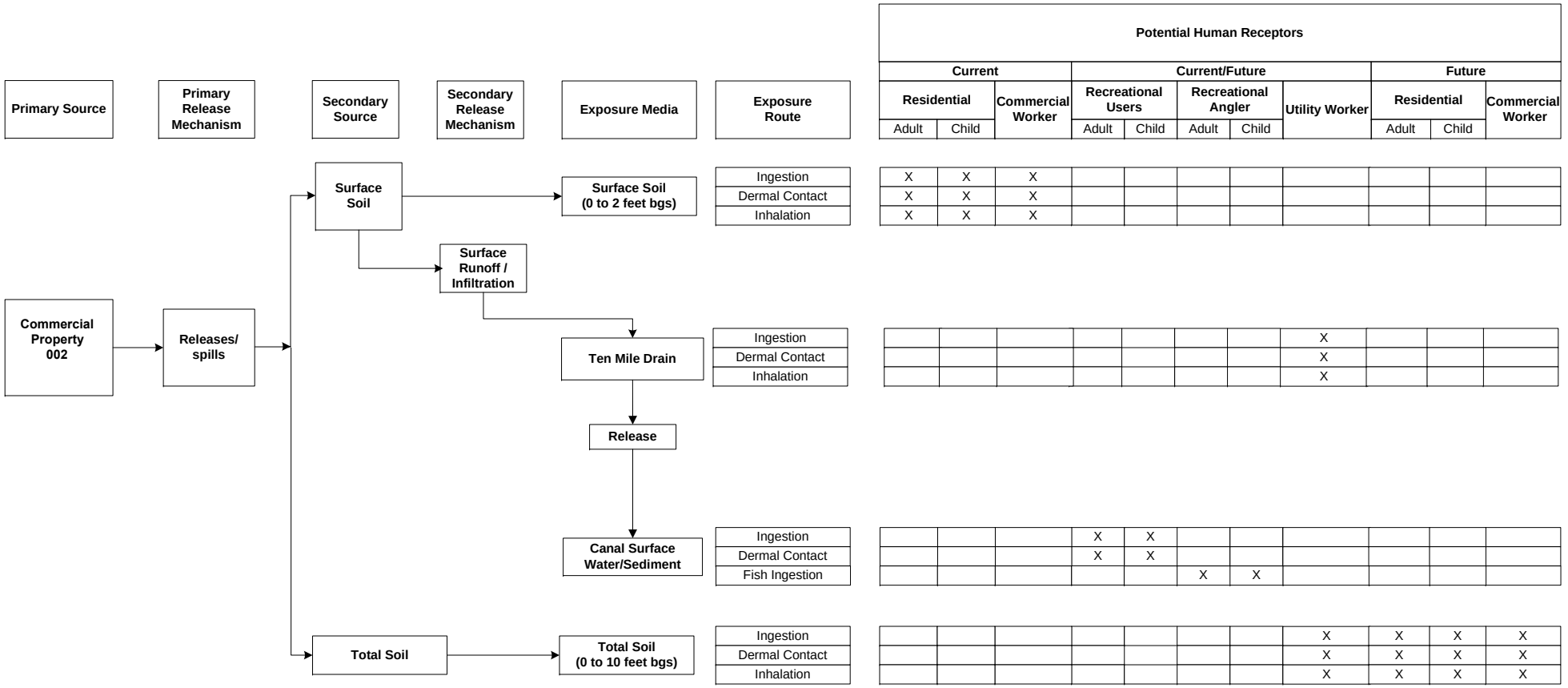
Note:

1. ©Google Aerial Dated May 9, 2010
2. All soil boring locations begin with the prefix "TMD-SO-".
3. Soil borings are color coded based upon the greatest concentration detected within the boring.

FIGURE 11
Former Martin Drain Soil Sampling
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

ch2m

\\cypress\proj\Army Corp\St Clair Shores\MXDs\Remedial Investigation\Figure Renember\TenMileDrain_Figure2_RI.mxd 02/19/2014



Primary Source	Primary Release Mechanism	Secondary Source	Secondary Release Mechanism	Exposure Media	Exposure Route	Potential Human Receptors											
						Current			Current/Future					Future			
						Residential		Commercial Worker	Recreational Users		Recreational Angler		Utility Worker	Residential		Commercial Worker
						Adult	Child		Adult	Child	Adult	Child		Adult	Child	
Commercial Property 002	Releases/ spills	Surface Soil		Surface Soil (0 to 2 feet bgs)	Ingestion	X	X	X								
					Dermal Contact	X	X	X								
					Inhalation	X	X	X								
		Surface Runoff / Infiltration		Ten Mile Drain	Ingestion								X			
					Dermal Contact								X			
					Inhalation								X			
				Release												
				Canal Surface Water/Sediment	Ingestion				X	X						
					Dermal Contact				X	X						
					Fish Ingestion						X	X				
		Total Soil		Total Soil (0 to 10 feet bgs)	Ingestion								X	X	X	X
					Dermal Contact								X	X	X	X
					Inhalation								X	X	X	X

Legend
X – Potentially complete exposure pathways identified
1 – Sediment exposure is considered insignificant and is not evaluated

Figure 12
Human Health Conceptual Site Model
Ten Mile Drain, St. Clair Shores, Michigan

Attachment A
Soil Boring Logs

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-001-01 SHEET 1 OF 1
	# SOIL BORING LOG	

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 4/29/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1100 END: 1220

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	SW	0.0'-1.0' Topsoil		
			CL	1.0'-1.4' Dark brown; silty clay; trace sand; moist; soft 1.4'-5.0' Brown with gray mottling; silty clay; trace sand; dry to moist; stiff	Collect TMD-SO-001-01-0/1 at 1100	
10	5-10	5.0'	CL	5.0'-10.0' Brown with gray mottling; silty clay; trace sand; dry; very stiff	Collect TMD-SO-001-01-5/7 at 1130	
15	10-15	5.0'	CL	10.0'-15.0' Brownish gray; silty clay; trace sand from 10.0'-11.5'; dry to moist; very stiff changing to stiff at 13.0'	Collect TMD-SO-001-01-10/12 at 1205 Collect TMD-SO-001-01-14/16 at 1220	
20	15-20	5.0'	CL	15.0'-20.0' Brownish gray; silty clay; trace sand; moist; stiff	Collect TMD-SO-001-01-18/20 at 1230	
				EOB = 20 ft BGS		
25						

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-001-02	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 4/29/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1245 END: 1350

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	---	0.0'-0.5' Concrete and gravel		
			ML	0.5'-1.4' Dark brown; clayey silt with trace fine sand; moist; low density	Collect TMD-SO-001-02-0.5/1 at 1310	
			CL	1.4'-5.0' Brown; sandy clay changing to silty clay; dry to moist; firm to stiff		
10	5-10	5.0'	CL	5.0'-10.0' Brown; silty clay; dry to moist; stiff to very stiff	Collect TMD-SO-001-02-5/7 at 1320	
15	10-15	5.0'	CL	10.0'-12.0' Brown; silty clay; dry to moist; stiff to very stiff 12.0'-15.0' Gray; silty clay; moist; firm	Collect TMD-SO-001-02-10/12 at 1325 Collect TMD-SO-001-02-14/16 at 1345	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; trace gravel from 18.0'-19.0'; moist; firm	Collect TMD-SO-001-02-18/20 at 1350	
25				**EOB = 20 ft BGS**		

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-001-03 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 4/29/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1355 END: 1445

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	---	0.0'-0.5' Concrete and gravel		
			ML	0.5'-1.5' Dark brown; clayey silt; moist; loose		
			CL	1.5'-5.0' Brown; sandy clay changing to silty clay; dry to moist; firm to stiff	Collect TMD-SO-001-03-0.5/1 at 1405	
10	5-10	5.0'	CL	5.0'-10.0' Brown; silty clay; dry to moist; very stiff	Collect TMD-SO-001-03-5/7 at 1410	
15	10-15	5.0'	CL	10.0'-15.0' Gray; silty clay; trace gravel; moist; stiff to firm	Collect TMD-SO-001-03-10/12 at 1425 Collect TMD-SO-001-03-14/16 at 1430	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; trace gravel; moist; firm	Collect TMD-SO-001-03-18/20 at 1445	
25				**EOB = 20 ft BGS**		

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-001-04 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 4/29/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1500 END: 1544

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	---	0.0'-0.5' Concrete and gravel		
			SM	0.5'-2.0' Dark brown changing to brown; silty sand; some clay; moist; wet at 1.5'-1.8'; loose	Collect TMD-SO-001-04-0.5/1 at 1511	
			CL	2.0'-5.0' Brown; silty clay; dry to moist; stiff changing to very stiff		
10	5-10	5.0'	CL	5.0'-10.0' Brown; silty clay; trace gravel; dry to moist; very stiff	Collect TMD-SO-001-04-5/7 at 1518	
15	10-15	5.0'	CL	10.0'-15.0' Dark brown changing to brown; silty clay; trace sand; dry to moist; stiff to very stiff	Collect TMD-SO-001-04-10/12 at 1530 Collect TMD-SO-001-04-14/16 at 1540	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; trace sand; moist; firm to soft	Collect TMD-SO-001-04-18/20 at 1544	
25				**EOB = 20 ft BGS**		

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-001-05 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 4/29/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1559 END: 1658

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	---	0.0'-0.5' Concrete and gravel		
			SM	0.5'-2.5' Dark brown changing to brown; silty sand; some clay; moist; wet at 1.8'-2.5'; loose	Collect TMD-SO-001-05-0.5/1 at 1618	
			CL	2.5'-5.0' Brown; silty clay; trace gravel; dry to moist; stiff to very stiff		
10	5-10	5.0'	CL	5.0'-10.0' Brown; silty clay; trace gravel; dry to moist; very stiff	Collect TMD-SO-001-05-5/7 at 1625	
15	10-15	3.5'	CL	10.0'-13.5' Dark brown changing to gray; silty clay; trace sand; moist; stiff to very stiff	Collect TMD-SO-001-05-10/12 at 1647	
			---	13.5'-15.0' No Recovery	Collect TMD-SO-001-05-14/16 at 1657	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; trace coarse sand to fine gravel; moist; soft to firm	Collect TMD-SO-001-05-18/20 at 1658	
25				**EOB = 20 ft BGS**		

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-001-06 SHEET 1 OF 1
	SOIL BORING LOG	

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 4/29/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1711 END: 1754

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	3.3'	---	0.0'-0.5' Concrete and gravel		
			SM	0.5'-2.0' Dark brown; silty fine sand; some clay; moist; loose		
			CL	2.0'-3.3' Brown; silty clay; dry to moist; very stiff	Collect TMD-SO-001-06-0.5/1 at 1730	
			---	3.3'-5.0' No recovery		
10	5-10	5.0'	CL	5.0'-10.0' Brown; silty clay; trace coarse sand and gravel; dry to moist; very stiff	Collect TMD-SO-001-06-5/7 at 1734	
15	10-15	5.0'	CL	10.0'-15.0' Brown changing to gray; silty clay; trace gravel; dry changing to moist; stiff changing to firm	Collect TMD-SO-001-06-10/12 at 1742 Collect TMD-SO-001-06-14/16 at 1752	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; trace gravel; moist; soft to firm	Collect TMD-SO-001-06-18/20 at 1754	
				EOB = 20 ft BGS		
25						

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-001-07 SHEET 1 OF 1
	SOIL BORING LOG	

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 4/30/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 0920 END: 1020

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	3.5'	---	0.0'-0.5' Concrete and gravel		
			SM	0.5'-2.5' Dark brown; silty sand changing to sandy silt; some clay; moist; loose changing to very dense	Collect TMD-SO-001-07-0.5/1 at 0955	
			CL	2.5'-3.5' Brown with gray mottling; silty clay; dry to moist; very stiff		
			---	3.5'-5.0' No recovery		
10	5-10	5.0'	CL	5.0'-10.0' Brown with gray mottling; silty clay; trace gravel; dry to moist; very stiff	Collect TMD-SO-001-07-5/7 at 1000	
15	10-15	4.0'	CL	10.0'-14.0' Brown silty clay; dry to moist; very stiff changing to gray; silty clay; moist; firm	Collect TMD-SO-001-07-10/12 at 1001	
			---	14.0'-15.0' No recovery	Collect TMD-SO-001-07-15/16 at 1023	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; moist; firm	Collect TMD-SO-001-07-18/20 at 1019; MS/MSD Collect TMD-SO-001-07-18/20-R at 1020	
25				**EOB = 20 ft BGS**		

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-001-08	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 4/30/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1020 END: 1120

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	---	0.0'-0.5' Concrete and gravel		
			SM	0.5'-1.0' Dark brown; silty sand; wet; medium density		
			CH	1.0'-2.0' Brown with green mottling; firm; saturated	Collect TMD-SO-001-08-0.5/1 at 1040; MS/MSD	
			CL	2.0'-5.0' Brown with gray mottling; silty clay; some gravel; dry to moist; very stiff		
10	5-10	5.0'	CL	5.0'-10.0' Brown with gray mottling changing to brown; silty clay; some gravel; dry to moist; stiff changing to very stiff	Collect TMD-SO-001-08-5/7 at 1045	
15	10-15	5.0'	CL	10.0'-15.0' Brown with gray mottling changing to gray; silty clay; trace gravel; moist; stiff changing to firm	Collect TMD-SO-001-08-10/12 at 1106 Collect TMD-SO-001-08-14/16 at 1115	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; trace gravel; moist; soft to firm	Collect TMD-SO-001-08-18/20 at 1120 Collect TMD-SO-001-08-18/20-R at 1121	
25				**EOB = 20 ft BGS**		

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-001-09 SHEET 1 OF 1
	# SOIL BORING LOG	

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 4/30/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1135 END: 1235

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	---	0.0'-0.5' Concrete and gravel		
			SM	0.5'-1.0' Dark brown; silty sand; moist; loose; very slight odor		
			CL	1.0'-1.5' Green and brown with gray mottling; silty clay; trace gravel; dry to moist; stiff to very stiff	Collect TMD-SO-001-09-0.5/1 at 1155	
				1.5'-5.0' Brown with gray mottling; silty clay; trace gravel; dry to moist; stiff to very stiff	Collect TMD-SO-001-09-0.5/1-R at 1156	
10	5-10	5.0'	CL	5.0'-10.0' Brown with gray mottling changing to brown; silty clay; some gravel; dry to moist; very stiff	Collect TMD-SO-001-09-5/7 at 1205	
15	10-15	5.0'	CL	10.0'-12.0' Gray and brown changing to brown; silty clay; trace to some gravel; dry to moist; stiff to very stiff	Collect TMD-SO-001-09-10/12 at 1225	
				12.0'-15.0' Gray; silty clay; some gravel; moist; firm	Collect TMD-SO-001-09-14/16 at 1243	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; some gravel; moist; firm changing to soft	Collect TMD-SO-001-09-18/20 at 1236 Collect TMD-SO-001-09-18/20-R at 1237	
25				**EOB = 20 ft BGS**		

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-001-10 SHEET 1 OF 1
	SOIL BORING LOG	

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 4/30/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1438 END: 1520

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	4.0'	SM	0.0'-1.0' Grass; dark brown; sandy silt; some clay; moist; loose		
			CL	1.0'-1.5' Brown with gray mottling; silty clay; trace gravel; dry to moist; firm to stiff		
			SM	1.5'-2.0' Dark brown; sandy silt; some clay; moist; loose	Collect TMD-SO-001-10-0/1 at 1450	
			CL	2.0'-4.0' Brown with gray mottling; silty clay; trace gravel; dry to moist; stiff to very stiff		
			---	4.0'-5.0' No recovery		
10	5-10	5.0'	CL	5.0'-10.0' Brown; silty clay; some gravel; dry to moist; very stiff	Collect TMD-SO-001-10-5/7 at 1459	
15	10-15	5.0'	CL	10.0'-15.0' Brown changing to gray; silty clay; trace to little gravel; dry to moist; very stiff changing to stiff	Collect TMD-SO-001-10-10/12 at 1510 Collect TMD-SO-001-10-14/16 at 1522	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; trace gravel; moist; firm	Collect TMD-SO-001-10-18/20 at 1525	
25				**EOB = 20 ft BGS**		

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-001-11	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 4/30/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1530 END: 1640

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	SM	0.0'-1.0' Grass; dark brown to brown; silty sand; some clay; moist; loose		
			CL	1.0'-5.0' Dark brown to brown with gray mottling; silty clay; dry to moist; firm changing to stiff	Collect TMD-SO-001-11-0/1 at 1545	
10	5-10	5.0'	CL	5.0'-10.0' Brown with gray mottling; silty clay; some gravel; dry to moist; very stiff	Collect TMD-SO-001-11-5/7 at 1555	
15	10-15	5.0'	CL	10.0'-15.0' Brown with gray mottling changing to gray; silty clay; some gravel; dry to moist; very stiff	Collect TMD-SO-001-11-10/12 at 1600 Collect TMD-SO-001-11-14/16 at 1620	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; some gravel; moist; very stiff	Collect TMD-SO-001-11-18/20 at 1625 Collect TMD-SO-001-11-18/20-R at 1626	
25				**EOB = 20 ft BGS**		

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-001-12	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 4/30/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1645 END: 1730

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	3.8'	SM	0.0'-0.7' Dark brown; silty sand; moist; loose 0.7'-1.2' Yellow brown; sand; wet; medium density	Collect TMD-SO-001-12-0/1 at 1700	
			CL	1.2'-3.8' Brown with gray mottling; silty clay; trace gravel; moist changing to dry; very stiff		
			---	3.8'-5.0' No recovery		
10	5-10	5.0'	CL	5.0'-10.0' Brown with gray mottling; silty clay; trace gravel; moist changing to dry; very stiff	Collect TMD-SO-001-12-5/7 at 1710	
15	10-15	5.0'	CL	10.0'-14.0' Brown with gray mottling; silty clay; trace gravel; moist changing to dry; very stiff 14.0'-15.0' Gray; silty clay; moist; firm	Collect TMD-SO-001-12-10/12 at 1725 Collect TMD-SO-001-12-14/16 at 1735	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; wet; firm	Collect TMD-SO-001-12-18/20 at 1740 Collect TMD-SO-001-12-18/20-R at 1741	
25				**EOB = 20 ft BGS**		

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-001-13 SHEET 1 OF 1
	SOIL BORING LOG	

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 4/30/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1745 END: 1915

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	SM	0.0'-0.5' Grass; dark brown; silty sand; some clay; moist; loose		
			CL	0.5'-5.0' Brown with gray mottling; silty clay; some gravel; dry to moist; very stiff	Collect TMD-SO-001-13-0/1 at 1840 Collect TMD-SO-001-13-0/1-R at 1841	
10	5-10	5.0'	CL	5.0'-10.0' Brown with gray mottling; silty clay; some gravel; dry; very stiff	Collect TMD-SO-001-13-5/7 at 1855	
15	10-15	5.0'	CL	10.0'-15.0' Brown with gray mottling; silty clay; some gravel; dry; very stiff	Collect TMD-SO-001-13-10/12 at 1905 Collect TMD-SO-001-13-14/16 at 1915	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; some gravel; moist; stiff	Collect TMD-SO-001-13-18/20 at 1920	
				EOB = 20 ft BGS		
25						

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-002-01	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/1/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1025 END: 1120

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	SM / SC	0.0'-1.0' Grass; dark brown; silty sand with clay		
			CL	1.0'-5.0' Brown with gray mottling; silty clay; moist; stiff	Collect TMD-SO-002-01-0/1 at 1048	
10	5-10	5.0'	CL	5.0'-10.0' Brown with gray mottling; silty clay; moist; stiff	Collect TMD-SO-002-01-5/7 at 1100	
15	10-15	5.0'	CL	10.0'-11.5' Brown with gray mottling; silty clay; trace gravel; moist; stiff	Collect TMD-SO-002-01-10/12 at 1123	
				11.5'-15.0' Gray; silty clay; moist; firm	Collect TMD-SO-002-01-14/16 at 1130 Collect TMD-SO-002-01-14/16-R at 1131	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; trace gravel; moist; firm	Collect TMD-SO-002-01-18/20 at 1137; MS/MSD	
25				**EOB = 20 ft BGS**		

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-002-02	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/1/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1140 END: 1235

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	SM / SC	0.0'-0.5' Grass; silty sand with clay; trace organics; moist; loose; last 2 inches heavy gravel		
			CL	0.5'-5.0' Brown with gray mottling; silty clay; moist; stiff	Collect TMD-SO-002-02-0/1 at 1200	
10	5-10	5.0'	CL	5.0'-10.0' Brown with gray mottling; silty clay; some gravel; dry; stiff	Collect TMD-SO-002-02-5/7 at 1205	
15	10-15	5.0'	CL	10.0'-11.0' Brown with gray mottling; silty clay; some gravel; moist; stiff 11.0'-15.0' Gray; silty clay; trace gravel; moist; firm to stiff	Collect TMD-SO-002-02-10/12 at 1220 Collect TMD-SO-002-02-14/16 at 1234	
20	15-20	3.0'	CL	15.0'-18.0' Gray; silty clay; trace gravel; moist; firm to stiff 18.0'-20.0' No recovery	Collect TMD-SO-002-02-16/18 at 1245	
				EOB = 18 ft BGS		
25						

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-002-03	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/1/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1250 END: 1330

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION	COMMENTS	PID (ppm)
5	0-5	3.5'	SM / SC	0.0'-2.0' Dark brown; silty sand with clay; moist; loose	Collect TMD-SO-002-03-0/1 at 1300	
			CL	2.0'-3.5' Brown with gray mottling; silty clay; some gravel; dry; stiff		
			---	3.5'-5.0' No recovery		
10	5-10	5.0'	CL	5.0'-10.0' Brown with gray mottling; silty clay; some gravel; dry; stiff	Collect TMD-SO-002-03-5/7 at 1300	
15	10-15	5.0'	CL	10.0'-11.0' Brown with gray mottling; silty clay; some gravel; dry; stiff 11.0'-15.0' Gray; silty clay; trace gravel; moist; firm	Collect TMD-SO-002-03-10/12 at 1336 Collect TMD-SO-002-03-10/12-R at 1337 Collect TMD-SO-002-03-14/16 at 1338	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; trace gravel; moist; firm	Collect TMD-SO-002-03-18/20 at 1345	
				EOB = 20 ft BGS		
25						

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-002-04	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/1/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1435 END: 1520

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	SM / SC	0.0'-1.0' Dark brown; silty sand with clay; trace organics; moist; loose 1.0'-2.0' Dark brown; silty clay; moist; firm; slag present 2.0'-5.0' Brown with gray mottling; silty clay; some gravel; moist; firm	Collect TMD-SO-002-04-0/1 at 1445	
			CL			
10	5-10	5.0'	CL	5.0'-6.0' Brown with gray mottling; silty clay; some gravel; moist; firm 6.0'-10.0' Brown with gray mottling; silty clay; some gravel; dry; very stiff	Collect TMD-SO-002-04-5/7 at 1455	
15	10-15	5.0'	CL	10.0'-15.0' Gray; silty clay; trace coarse sand; dry to moist changing to moist; stiff changing to firm	Collect TMD-SO-002-04-10/12 at 1510 Collect TMD-SO-002-04-14/16 at 1525	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; trace gravel; moist; firm	Collect TMD-SO-002-04-18/20 at 1530	
				EOB = 20 ft BGS		
25						

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-002-05	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/1/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1540 END: 1635

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	SC	0.0'-2.0' Brown changing to dark brown; clayey sand with silt; moist; low to medium density	Collect TMD-SO-002-05-0/1 at 1555	
			CL	2.0'-5.0' Brown with gray mottling; silty clay; dry to moist; firm changing to stiff		
10	5-10	5.0'	CL	5.0'-5.5' Brown with gray mottling; silty clay; dry to moist; firm to stiff 5.5'-10.0' Brown; silty clay; some gravel; dry; very stiff	Collect TMD-SO-002-05-5/7 at 1610	
15	10-15	5.0'	CL	10.0'-15.0' Gray; silty clay; moist; firm	Collect TMD-SO-002-05-10/12 at 1620 Collect TMD-SO-002-05-10/12-R at 1621 Collect TMD-SO-002-05-14/16 at 1635	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; moist; firm	Collect TMD-SO-002-05-18/20 at 1640	
				EOB = 20 ft BGS		
25						

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-002-06	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/1/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1650 END: 1745

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	SM	0.0'-0.3' Brown; silty sand; moist; loose		
			SC	0.3'-1.5' Brown; clayey sand; trace gravel; moist; loose		
			CL	1.5'-5.0' Dark brown changing to brown with gray mottling; silty clay; moist changing to dry; stiff	Collect TMD-SO-002-06-0/1 at 1710	
10	5-10	5.0'	CL	5.0'-10.0' Brown with gray mottling; silty clay; dry; stiff	Collect TMD-SO-002-06-5/7 at 1720; MS/MSD	
15	10-15	5.0'	CL	10.0'-12.0' Brown with gray mottling; silty clay; trace gravel; dry; stiff 12.0'-15.0' Gray; silty clay; moist; firm	Collect TMD-SO-002-06-10/12 at 1730 Collect TMD-SO-002-06-14/16 at 1735	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; moist; firm	Collect TMD-SO-002-06-18/20 at 1750	
25				**EOB = 20 ft BGS**		

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-002-07	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/2/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1700 END: 1755

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	SM	0.0'-1.0' Brown to dark brown; silty sand; some clay; moist; medium density		
			CL	1.0'-5.0' Brown with gray mottling; silty clay; moist; firm to stiff; sand lense (0.2' thick) at approximately 2.5'	Collect TMD-SO-002-07-0/1 at 1716	
10	5-10	5.0'	CL	5.0'-6.0' Brown with gray mottling; silty clay; moist; firm to stiff 6.0'-10.0' Brown; silty clay; some gravel; dry; hard	Collect TMD-SO-002-07-5/7 at 1730	
15	10-15	5.0'	CL	10.0'-11.5' Brown; silty clay; some gravel; dry; hard 11.5'-15.0' Gray; silty clay; dry changing to moist; stiff changing to firm	Collect TMD-SO-002-07-10/12 at 1748 Collect TMD-SO-002-07-14/16 at 1755	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; moist; firm	Collect TMD-SO-002-07-18/20 at 1800 Collect TMD-SO-002-07-18/20-R at 1801	
				EOB = 20 ft BGS		
25						

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-08 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/2/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1020 END: 1120

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	4.5'	SM	0.0'-1.0' Grass; dark brown; silty sand with clay; trace organics; moist; loose		
			---	1.0'-1.4' Slag		
			CL	1.4'-4.5' Dark brown changing to brown with gray mottling; silty clay; trace gravel; moist; firm; 3.7' to 4.0' very soft	Collect TMD-SO-002-08-0/1 at 1035 Collect TMD-SO-002-08-3/4.5 at 1050	
			---	4.5'-5.0' No recovery		
10	5-10	5.0'	CL	5.0'-6.7' Dark brown changing to brown with gray mottling; silty clay; trace gravel; moist; firm; 6.1' to 6.7' very soft 6.7'-10.0' Brown; silty clay; some gravel; dry to moist; very stiff	Collect TMD-SO-002-08-5/7 at 1052	
15	10-15	5.0'	CL	10.0'-10.5' Sample lost - fell out of core 10.5'-12.0' Brown; silty clay; some gravel; dry; very stiff 12.0'-15.0' Gray; silty clay; trace gravel; moist; firm	Collect TMD-SO-002-08-10.5/12 at 1110 Collect TMD-SO-002-08-14/16 at 1117	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; moist; firm	Collect TMD-SO-002-08-18/20 at 1122	
25				**EOB = 20 ft BGS**		

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-09 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/2/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1130 END: 1230

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
	0-5	4.0'	SW	0.0'-1.7' Dark brown; silty sand with clay; trace organics and gravel; dry to moist; loose		
			CL	1.7'-2.8' Dark brown; silty clay mixed with slag; dry to moist; firm; wet at 2.5'; sewer smell at 2.3' to 2.6'	Collect TMD-SO-002-09-0/1 at 1150	
				2.8'-4.0' Brown with gray mottling; silty clay; some gravel; moist; stiff; very soft at 3.2'	Collect TMD-SO-002-09-2.3/2.6 at 1155	
5			---	4.0'-5.0' No recovery		
	5-10	5.0'	CL	5.0'-10.0' Brown with gray mottling; silty clay; some gravel; moist changing to dry; very stiff	Collect TMD-SO-002-09-5/7 at 1200; MS/MSD	
10	10-15	5.0'	CL	10.0'-14.0' Brown with gray mottling; silty clay; some gravel; dry; very stiff	Collect TMD-SO-002-09-10/12 at 1215	
					Collect TMD-SO-002-09-14/16 at 1230	
15				12.0'-15.0' Gray; silty clay; moist; firm changing to stiff		
	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; moist; stiff	Collect TMD-SO-002-09-18/20 at 1240	
					Collect TMD-SO-002-09-18/20-R at 1241	
20				**EOB = 20 ft BGS**		
25						

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-002-10	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/3/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 0915 END: 1005

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	SM	0.0'-0.5' Dark brown; silty sand; trace organics (tree roots); dry to moist; loose		
			SC	0.5'-2.0' Dark brown; clayey sand; slag and brick pieces present; dry; medium density		
			CL	2.0'-5.0' Brown with gray mottling; silty clay; trace gravel; dry to moist; firm; very soft and dry at 4.5' to 4.7'	Collect TMD-SO-002-10-0/1 at 0930	
10	5-10	5.0'	CL	5.0'-10.0' Brown with gray mottling changing to gray; silty clay; some gravel; dry; very stiff; clay with sand at 5.4' and 5.9'	Collect TMD-SO-002-10-5/7 at 0950	
15	10-15	5.0'	CL	10.0'-11.5' Gray; silty clay; some gravel; dry to moist; very stiff	Collect TMD-SO-002-10-10/12 at 1010	
				11.5'-15.0' Gray; silty clay; some gravel; moist; firm	Collect TMD-SO-002-10-14/16 at 1005	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; some gravel; moist; firm	Collect TMD-SO-002-10-18/20 at 1015	
				EOB = 20 ft BGS		
25						

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-002-11	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/2/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1245 END: 1330

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	SM / SC	0.0'-1.5' Grass; dark brown; silty sand changing to clayey sand; dry to moist; medium density	Collect TMD-SO-002-11-0/1 at 1255	
			CL	1.5'-5.0' Brown with gray mottling; silty clay; trace gravel; dry to moist; firm to stiff changing to very stiff		
10	5-10	5.0'	CL	5.0'-5.5' Brown with gray mottling; silty clay; trace gravel; dry to moist; very stiff 5.5'-10.0' Brown with gray mottling; silty clay; trace gravel; dry; very stiff	Collect TMD-SO-002-11-5/7 at 1320	
15	10-15	5.0'	CL	10.0'-12.0' Brown with gray mottling; silty clay; trace gravel; dry; very stiff 12.0'-15.0' Gray; silty clay; trace gravel; moist; very stiff changing to stiff to firm	Collect TMD-SO-002-11-10/12 at 1335 Collect TMD-SO-002-11-14/16 at 1330	
20	15-20	0.0'	CL	15.0'-20.0' No recovery. Rock impeded soil sample collection.		
				EOB = 15 ft BGS		
25						

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-002-12	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/2/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1430 END: 1545

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	SM	0.0'-0.8' Brown; silty sand with clay; some gravel; moist changing to wet at bottom (0.8'); loose changing to medium density		
			CL	0.8'-5.0' Dark brown changing to brown with gray mottling; silty clay; slightly moist; stiff to very stiff	Collect TMD-SO-002-12-0/1 at 1445	
10	5-10	5.0'	CL	5.0'-10.0' Brown; silty clay with fine sand; trace coarse sand; dry; hard	Collect TMD-SO-002-12-5/7 at 1510	
15	10-15	5.0'	CL	10.0'-13.5' Brown; silty clay with fine sand; trace coarse sand; dry; hard 13.5'-15.0' Gray; silty clay; trace gravel; moist; firm	Collect TMD-SO-002-12-10/12 at 1545 Collect TMD-SO-002-12-10/12-R at 1546 Collect TMD-SO-002-12-14/16 at 1550	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; trace gravel; moist; firm	Collect TMD-SO-002-12-18/20 at 1555	
				EOB = 20 ft BGS		
25						

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-002-13	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/2/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1555 END: 1655

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	SM	0.0'-1.2' Brown changing to dark brown; silty sand; some clay present at 0.7' to 1.0'; some gravel; moist; medium density		
			CL	1.2'-5.0' Dark brown with gray and green mottling changing to brown with gray and green mottling; silty clay; trace wood; moist; stiff	Collect TMD-SO-002-13-0/1 at 1606	
10	5-10	5.0'	CL	5.0'-6.5' Brown with gray and green mottling; silty clay; trace wood; moist; stiff 6.5'-10.0' Brown; silty clay with sand; dry; very stiff to hard	Collect TMD-SO-002-13-5/7 at 1620	
15	10-15	5.0'	CL	10.0'-15.0' Brown; silty clay with sand; dry; very stiff to hard	Collect TMD-SO-002-13-10/12 at 1645; MS/MSD Collect TMD-SO-002-13-14/16 at 1655	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; trace gravel; moist; firm to stiff	Collect TMD-SO-002-13-18/20 at 1700 Collect TMD-SO-002-13-18/20-R at 1701	
25				**EOB = 20 ft BGS**		

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-002-14	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/3/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1020 END: 1150

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	4.5'	SM	0.0'-1.0' Dark brown; silty sand; some clay; moist; medium density		
			CL	1.0'-4.5' Brown with green mottling; silty clay; trace coarse sand; moist; firm	Collect TMD-SO-002-14-0/1 at 1110	
			---	4.5'-5.0' No recovery		
10	5-10	5.0'	CL	5.0'-5.7' Blue/green; silty clay; moist changing to wet; soft 5.7'-10.0' Brown; silty clay with fine sand; trace gravel and coarse sand; dry; hard	Collect TMD-SO-002-14-5/7 at 1120	
15	10-15	5.0'	CL	10.0'-12.0' Brown; silty clay with fine sand; trace gravel and coarse sand; dry; hard 12.0'-15.0' Gray; silty clay; trace gravel; moist changing to dry; firm to stiff	Collect TMD-SO-002-14-10/12 at 1140 Collect TMD-SO-002-14-14/16 at 1145	
20	15-20	1.5'	CL	15.0'-16.5' Gray; silty clay; trace gravel; dry; firm to stiff; large rock at 16.3' 16.5'-20.0' Refusal		
				EOB = 16.5 ft BGS		
25						

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-002-15	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/6/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1025 END: 1050

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	CL	0.0'-1.0' Dark brown; sandy clay; tree roots; slightly moist; soft/loose 1.0'-5.0' Brown with gray mottling; silty clay; tree roots at 2.0'; moist; firm	Collect TMD-SO-002-15-0/1 at 1040	
10	5-10	5.0'	CL	5.0'-10.0' Brown with gray mottling; silty clay; some gravel; dry; very stiff	Collect TMD-SO-002-15-5/7 at 1045 Collect TMD-SO-002-15-5/7-R at 1046	
15	10-15	5.0'	CL	10.0'-15.0' Gray (brown from 11.8' to 12.7'); silty clay; trace gravel; moist; firm changing to stiff	Collect TMD-SO-002-15-10/12 at 1055 Collect TMD-SO-002-15-14/16 at 1110	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; trace gravel; moist; stiff	Collect TMD-SO-002-15-18/20 at 1115	
25				**EOB = 20 ft BGS**		

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-16 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/6/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1110 END: 1210

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	3.2'	SC / CL	0.0'-1.5' Dark brown; clayey sand changing to sandy clay; tree roots; dry to slightly moist; dense	Collect TMD-SO-002-16-0/1 at 1135	
			CL	1.5'-3.2' Gray and green; silty clay; some tree roots; moist; stiff		
			---	3.2'-5.0' No recovery		
10	5-10	5.0'	CL	9.0' to 10.0' Gray; silty clay; trace gravel; moist; stiff	Collect TMD-SO-002-16-5/7 at 1150	
15	10-15	5.0'	CL	10.0'-15.0' Gray; silty clay; trace gravel; moist; firm changing to stiff	Collect TMD-SO-002-16-10/12 at 1205 Collect TMD-SO-002-16-14/16 at 1215	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; trace gravel; moist; firm	Collect TMD-SO-002-16-18/20 at 1220	
				EOB = 20 ft BGS		
25						

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-002-17	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/6/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1225 END: 1300

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	3.0'	SM	0.0'-1.7' Dark brown; silty sand; trace clay; dry; loose		
			CL	1.7'-3.0' Brown with gray and dark brown mottling; silty clay; moist; stiff	Collect TMD-SO-002-17-0/1 at 1240	
			---	3.0'-5.0' No recovery		
	5-10	5.0'	CL	5.0'-5.5' Brown with gray and dark brown mottling; silty clay; moist; stiff		
			SP	5.5'-7.3' Brown; fine to coarse sand; some gravel; wet; very dense	Collect TMD-SO-002-17-5/7 at 1245	
10			CL	7.3'-10.0' Gray; silty clay; trace gravel; slightly moist; stiff		
	10-15	4.5'	CL	10.0'-14.5' Gray; silty clay; trace gravel; moist; soft changing to firm; sluff at top of core	Collect TMD-SO-002-17-10/12 at 1300 Collect TMD-SO-002-17-10/12-R at 1301 Collect TMD-SO-002-17-14/16 at 1310	
15			---	14.5'-15.0' No recovery		
	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; trace gravel; moist; very soft; stiff at 15.7' to 16.2'	Collect TMD-SO-002-17-18/20 at 1310; MS/MSD	
20				**EOB = 20 ft BGS**		
25						

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-18 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/6/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1300 END: 1355

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	3.3'	SC	0.0'-2.3' Dark brown; sand with clay; some gravel; dry; loose		
			SP	2.3'-2.7' Brown; fine to coarse sand with gravel; moist; dense	Collect TMD-SO-002-18-0/1 at 1330	
			CL	2.7'-3.3' Brown and gray; silty clay; moist; stiff		
			---	3.3'-5.0' No recovery		
10	5-10	5.0'	CL	5.0'-8.7' Brown; silty clay; some gravel; dry; very stiff 8.7'-10.0' Gray; silty clay; moist; firm to stiff	Collect TMD-SO-002-18-5/7 at 1340	
15	10-15	5.0'	CL	10.0'-11.2' Brown and gray; silty clay; dry to slightly moist; stiff to very stiff 11.2-15.0' Gray; silty clay; some gravel; moist; firm; very soft from 12.6' to 13.0'	Collect TMD-SO-002-18-10/12 at 1350 Collect TMD-SO-002-18-14/16 at 1400	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; some gravel; moist; firm	Collect TMD-SO-002-18-18/20 at 1405	
25				**EOB = 20 ft BGS**		

Field QA/QC Review Signature / Date:

ch2m SM	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-19 SHEET 1 OF 1
	# SOIL BORING LOG	

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/6/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1455 END: 1545

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	3.4'	SM	0.0'-1.3' Brown to yellow brown; silty sand; little gravel; moist; medium density		
			CL	1.3'-3.4' Blue with brown oxidation channels; silty clay; moist; firm to stiff	Collect TMD-SO-002-19-0/1 at 1510	
			---	3.4'-5.0' No recovery		
10	5-10	5.0'	CL	5.0'-5.8' Brown with green-brown mottling; silty clay; moist to dry; stiff 5.8'-10.0' Brown; silty clay; dry changing to moist; stiff to firm	Collect TMD-SO-002-19-5/7 at 1515	
15	10-15	5.0'	CL	10.0'-15.0' Gray; silty clay; trace coarse sand and gravel; firm to very stiff	Collect TMD-SO-002-19-10/12 at 1530 Collect TMD-SO-002-19-10/12-R at 1531 Collect TMD-SO-002-19-14/16 at 1540	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; trace coarse sand and gravel; stiff changing to very stiff	Collect TMD-SO-002-19-18/20 at 1600	
				EOB = 20 ft BGS		
25						

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-20 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/6/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1600 END: 1710

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
0	0-5	4.0'	SM	0.0'-0.5' Dark brown; silty sand; trace gravel; moist; loose		
			SC	0.5'-1.5' Dark brown; clayey sand; trace gravel; moist; medium density; red/dark brown from 1.0'-1.5'; slight odor		
			CL	1.5'-4.0' Brown-gray; silty clay; moist; stiff	Collect TMD-SO-002-20-0/1 at 1615 Collect TMD-SO-002-20-1.2/1.4 at 1620	
5			---	4.0'-5.0' No recovery		
	5-10	5.0'	CL	5.0'-8.8' Brown; silty clay/clayey silt; little gravel; dry; very stiff	Collect TMD-SO-002-20-5/7 at 1640	
10				8.8'-10.0' Gray; silty clay; trace gravel; firm to stiff		
	10-15	5.0'	CL	10.0'-12.5' Gray; silty clay; trace gravel; soft	Collect TMD-SO-002-20-10/12 at 1645	
15				12.5'-15.0' Gray; silty clay; gravel at 12.5' to 12.8'; stiff	Collect TMD-SO-002-20-14/16 at 1655; MS/MSD	
	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; moist; stiff changing to very stiff	Collect TMD-SO-002-20-18/20 at 1655	
20				**EOB = 20 ft BGS**		
25						

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-21 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/6/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1710 END: 1750

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	---	0.0'-0.5' Asphalt and gravel		
			GW / SM	0.5'-1.0' Dark brown; sand and gravel; silt and clay from 0.8' to 1.0'; dry; medium density		
			CL	1.0'-5.0' Brown with gray mottling; silty clay; trace coarse sand and gravel	Collect TMD-SO-002-21-0.5/1 at 1725	
10	5-10	5.0'	CL	5.0'-5.8' Brown with gray mottling; silty clay; trace coarse sand and gravel 5.8'-10.0' Brown; silty clay; some changing to little gravel; dry; very stiff	Collect TMD-SO-002-21-5/7 at 1740	
15	10-15	5.0'	CL	10.0'-13.5' Brown; silty clay; some changing to little gravel; dry; very stiff 13.5'-15.0' Brown; silty clay; some changing to little gravel; moist; soft to firm	Collect TMD-SO-002-21-10/12 at 1755 Collect TMD-SO-002-21-14/16 at 1800	
20	15-20	5.0'	CL	15.0'-20.0' Brown; silty clay; some changing to little gravel; moist; soft to firm	Collect TMD-SO-002-21-18/20 at 1800 Collect TMD-SO-002-21-18/20-R at 1801	
				EOB = 20 ft BGS		
25						

Field QA/QC Review Signature / Date:

ch2m	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-23 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/7/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 0935 END: 1030

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
	0-5	5.0'	---	0.0'-0.5' Asphalt and gravel		
			SW / GW	0.5'-1.5' Black; sand and gravel; slightly moist; medium density; slight odor		
			CL	1.5'-2.0' Dark brown; silty clay; slightly moist; stiff	Collect TMD-SO-002-23-0.5/1 at 1000	
5				2.0'-5.0' Brown with gray mottling; silty clay; moist; stiff changing to firm	Collect TMD-SO-002-23-1/1.5 at 1005	
	5-10	5.0'	CL	5.0'-10.0' Brown with gray mottling; silty clay; dry to moist; very stiff	Collect TMD-SO-002-23-5/7 at 1020 Collect TMD-SO-002-23-5/7-R at 1021	
10	10-15	5.0'	CL	10.0'-15.0' Gray; silty clay; some gravel; moist; firm changing to very soft at 14.0'	Collect TMD-SO-002-23-10/12 at 1030 Collect TMD-SO-002-23-14/16 at 1035	
15	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; some gravel; moist; soft; very soft at 17.7' to 19.0'	Collect TMD-SO-002-23-18/20 at 1040	
20				**EOB = 20 ft BGS**		
25						

Field QA/QC Review Signature / Date:

ch2m	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-24 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/7/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1055 END: 1200

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	---	0.0'-0.5' Asphalt and gravel		
			CL	0.5'-1.3' Dark brown; silty clay with fine sand; moist; stiff; odor	Collect TMD-SO-002-24-0.5/1 at 1110	
				1.3'-5.0' Brown and gray changing to brown with gray mottling; silty clay; trace gravel; moist; stiff		
10	5-10	5.0'	CL	5.0'-10.0' Brown with gray mottling; silty clay; some gravel; dry; very stiff	Collect TMD-SO-002-24-5/7 at 1120	
15	10-15	5.0'	CL	10.0'-15.0' Gray; silty clay; trace gravel; moist; stiff	Collect TMD-SO-002-24-10/12 at 1140 Collect TMD-SO-002-24-14/16 at 1150	
20	15-20	0.0'	CL	15.0'-20.0' No recovery due to rock. Collected sample at 20.0'-25.0' due to no recovery.		
25	20-25	5.0'	CL	20.0'-25.0' Gray; silty clay; trace sand and gravel; moist; stiff changing to very stiff	Collect TMD-SO-002-24-20/22 at 1215	
				EOB = 25 ft BGS		

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-25 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/7/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1215 END: 1315

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	---	0.0'-0.5' Asphalt and gravel		
			SW / GW	0.5'-1.2' Dark brown; sand and gravel; dry to slightly moist; loose	Collect TMD-SO-002-25-0.5/1 at 1245	
				1.2'-2.0' Dark brown and black; silty clay; moist; stiff	Collect TMD-SO-002-25-1.5/2 at 1305	
			CL	2.0'-4.0' Gray and brown; silty clay; moist; stiff	Collect TMD-SO-002-25-2/3 at 1310	
				4.0'-5.0' Brown with gray mottling; silty clay; moist; stiff		
10	5-10	5.0'	CL	5.0'-6.0' Brown with gray mottling; silty clay; moist; stiff 6.0'-9.5' Gray; silty clay; some gravel; dry to moist; very stiff 9.5'-10.0' Gray; silty clay; some gravel; moist; stiff	Collect TMD-SO-002-25-5/7 at 1300	
15	10-15	5.0'	CL	10.0'-10.5' Gray; silty clay; some gravel; moist; stiff 10.5'-15.0' Gray; silty clay; trace gravel; moist; stiff; firm at 12.6' to 13.0'	Collect TMD-SO-002-25-10/12 at 1310 Collect TMD-SO-002-25-10/12-R at 1311 Collect TMD-SO-002-25-14/16 at 1320	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; trace gravel; moist; stiff to very stiff	Collect TMD-SO-002-25-18/20 at 1330	
				EOB = 20 ft BGS		
25						

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-26 SHEET 1 OF 1
	# SOIL BORING LOG	

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/7/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1400 END: 1500

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
	0-5	2.5'	SM	0.0'-1.0' Dark brown to brown; silty sand; trace clay; slightly moist; medium density		
			CL	1.0'-1.5' Dark brown; sandy clay; some gravel; moist; stiff to very stiff		
			SP	1.5'-2.5' Brown and dark brown; fine to medium sand; wet; dense	Collect TMD-SO-002-26-0/1 at 1505	
			---	2.5'-5.0' No recovery		
5	5-10	5.0'	CL / SM	5.0'-8.0' Brown with some gray; silty clay and sand; some gravel; dry to wet; stiff to firm and loose density	Collect TMD-SO-002-26-5/7 at 1530	
			CL	8.0'-9.5' Brown with gray mottling; silty clay; some gravel; dry to slightly moist; very stiff	Collect TMD-SO-002-26-8/10 at 1540	
10				9.5'-10.0' Gray; silty clay; trace gravel; moist; very stiff		
				EOB = 10 ft BGS		
15						
20						
25						

Field QA/QC Review Signature / Date:

ch2m	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-27 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/7/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1530 END: 1610

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
	0-5	2.5'	CL	0.0'-1.0' Brown; sandy clay; trace gravel and organics (grass, roots); dry to moist; firm to stiff		
			CL / SM	1.0'-2.5' Brown with gray mottling; silty clay and sand; some gravel; moist; firm to stiff; slag at 1.0'	Collect TMD-SO-002-27-0/1 at 1600 Collect TMD-SO-002-27-1/2.5 at 1555	
			---	2.5'-5.0' No recovery	Collect TMD-SO-002-27-1/2.5-R at 1556	
5						
	5-10	5.0'	CL / SM	5.0'-7.5' Brown with gray mottling; silty clay and sand; some gravel; moist; firm to stiff	Collect TMD-SO-002-27-5/7 at 1625	
			CL	7.5'-10.0' Gray; silty clay; trace gravel; mosit; soft; firm at 8.7'-10.0'; sand seam at 8.7', approximately 0.5" thick	Collect TMD-SO-002-27-8/10 at 1630	
10				**EOB = 10 ft BGS**		
15						
20						
25						

Field QA/QC Review Signature / Date:

ch2m	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-28 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/7/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1615 END: 1635

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
	0-5	3.5'	SC	0.0'-1.0' Brown; clayey sand; trace coarse sand; moist; medium density		
			CL	1.0'-2.3' Brown with gray mottling; silty clay with trace fine sand; dry to moist; very stiff changing to soft		
			SM	2.3'-3.5' Yellowish brown; fine sand with silt; trace gravel and organics (roots); wet; high density	Collect TMD-SO-002-28-0/1 at 1640	
			---	3.5'-5.0' No recovery	Collect TMD-SO-002-28-2/3.5 at 1650	
5						
	5-10	5.0'	---	5.0'-5.3' Concrete		
			ML	5.3'-5.9' Green to greenish black; clayey silt; saturated/wet; very soft; no odor		
			CL	5.9'-10.0' Brown; silty clay; trace coarse sand and gravel; dry; very stiff; moist and soft from 8.5' to 9.0'	Collect TMD-SO-002-28-5/6 at 1700 Collect TMD-SO-002-28-8/10 at 1715	
10				**EOB = 10 ft BGS**		
15						
20						
25						

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-29 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/7/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1650 END: 1740

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	2.8'	---	0.0'-0.5' Concrete and gravel		
			SM	0.5'-1.5' Dark brown; silty sand with gravel; moist; loose		
				1.5'-2.8' Brown; silty medium sand; trace gravel; moist; medium density	Collect TMD-SO-002-29-0.5/1 at 1720	
			---	2.8'-5.0' No recovery		
10	5-10	5.0'	SM	5.0'-5.2' Brown; silty medium sand; trace gravel; moist; medium density		
			CL	5.2'-7.7' Brown with gray mottling; silty clay; moist; stiff	Collect TMD-SO-002-29-5/7 at 1735; MS/MSD	
				7.7'-10.0' Brown; silty clay; trace coarse sand and gravel; dry; very stiff to hard		
15	10-15	5.0'	CL	10.0'-11.5' Brownish gray; silty clay with gravel (approximately 50%); wet; stiff	Collect TMD-SO-002-29-10/12 at 1745 Collect TMD-SO-002-29-10/12-R at 1746	
				11.5'-15.0' Gray; silty clay; trace gravel; moist; stiff	Collect TMD-SO-002-29-14/16 at 1755	
20	15-20	4.0'	CL	15.0'-19.0' Gray; silty clay; little gravel (approximately 15%); moist; stiff	Collect TMD-SO-002-29-17/19 at 1805	
			---	19.0'-20.0' No recovery		
				EOB = 19 ft BGS		
25						

Field QA/QC Review Signature / Date:

PROJECT NUMBER	BORING NUMBER	
458302	TMD-SO-002-30	SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/7/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1750 END: 1845

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	---	0.0'-0.5' Concrete and gravel		
			SW / GW	0.5'-1.0' Blackish brown; sand and gravel; moist; medium density; slight odor		
			CL	1.0'-5.0' Blue-green changing to brown with green mottling; silty clay; trace gravel; moist; firm changing to stiff	Collect TMD-SO-002-30-0.5/1 at 1810	
10	5-10	5.0'	CL	5.0'-5.5' Brown with green mottling; silty clay; trace gravel; moist; stiff 5.5'-10.0' Brown; silty clay; some gravel; dry; very stiff	Collect TMD-SO-002-30-5/7 at 1820; MS/MSD	
15	10-15	5.0'	CL	10.0'-11.8' Brown; silty clay; some gravel; dry; very stiff 11.8'-15.0' Gray; silty clay; moist; firm	Collect TMD-SO-002-30-10/12 at 1825 Collect TMD-SO-002-30-14/16 at 1845	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; moist; firm	Collect TMD-SO-002-30-18/20 at 1850	
25				**EOB = 20 ft BGS**		

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-31 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/8/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 0905 END: 0955

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	4.7'	---	0.0'-1.0' Asphalt, gravel, and slag		
			CL	1.0'-1.6' Dark brown and blue; silty clay; some fine sand; moist; stiff; slight odor	Collect TMD-SO-002-31-1/2 at 0930	
				1.6'-4.7' Brown and gray; silty clay; moist; stiff		
			---	4.7'-5.0' No recovery		
10	5-10	5.0'	CL	5.0'-5.9' Brown and gray; silty clay; moist; firm; very soft from 5.7' to 5.9'	Collect TMD-SO-002-31-5/7 at 0935	
				5.9'-10.0' Brown; silty clay; some gravel; dry to slightly moist; stiff		
15	10-15	5.0'	CL	10.0'-10.9' Brown; silty clay; some gravel; moist; stiff	Collect TMD-SO-002-31-10/12 at 0945; MS/MSD	
				10.9'-15.0' Gray; silty clay; some gravel; moist; stiff	Collect TMD-SO-002-31-14/16 at 0955 Collect TMD-SO-002-31-14/16-R at 0956	
20	15-20	5.0'	CL	15.0'-20.0' Gray; silty clay; some gravel; moist; stiff changing to firm	Collect TMD-SO-002-31-18/20 at 1000	
				EOB = 20 ft BGS		
25						

Field QA/QC Review Signature / Date:

ch2m	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-32 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/8/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1005 END: 1105

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	--- CL	0.0'-1.0' Asphalt, gravel, and slag 1.0'-4.0' Brown and gray; silty clay; moist; stiff 4.0'-5.0' Brown with gray mottling; silty clay; slightly moist; stiff	Collect TMD-SO-002-32-1/2 at 1030	
10	5-10	5.0'	CL	5.0'-10.0' Brown; silty clay; some gravel; slightly moist; very stiff	Collect TMD-SO-002-32-5/7 at 1040	
15	10-15	5.0'	CL	10.0'-10.5' Brown; silty clay; some gravel; slightly moist; stiff 10.5'-15.0' Gray; silty clay; some sand and gravel; moist; firm to stiff	Collect TMD-SO-002-32-10/12 at 1100 Collect TMD-SO-002-32-14/16 at 1105	
20	15-20	4.0'	CL ---	15.0'-19.0' Gray; silty clay; some sand and gravel; moist; firm to stiff 19.0'-20.0' No recovery	Collect TMD-SO-002-32-17/19 at 1120	
25				**EOB = 19 ft BGS**		

Field QA/QC Review Signature / Date:

ch2m SM	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-33 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/8/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1110 END: 1115

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	CL	0.0'-0.5' Mulch and clay moisture; silty dark brown to brown clay; moist 0.5'-2.5' Dark brown and gray; silty clay; moist; soft; slight odor 2.5'-5.0' Brown and gray; silty clay; trace gravel; slightly moist; stiff **EOB = 5 ft BGS**	Collect TMD-SO-002-33-0.5/1 at 1130 Collect TMD-SO-002-33-0.5/1-R at 1131 Collect TMD-SO-002-33-4/5 at 1135	
10						
15						
20						
25						

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-34 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/8/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1120 END: 1130

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
5	0-5	5.0'	CL	0.0'-0.5' Mulch and clay moisture; silty dark brown to brown clay; moist 0.5'-2.5' Dark brown; silty clay; moist; soft to very soft 2.5'-5.0' Brown and gray; silty clay; trace coarse sand; moist; soft to firm **EOB = 5 ft BGS**	Collect TMD-SO-002-34-0.5/1 at 1140 Collect TMD-SO-002-34-4/5 at 1145	
10						
15						
20						
25						

Field QA/QC Review Signature / Date:

ch2m.	PROJECT NUMBER 458302	BORING NUMBER TMD-SO-002-35 SHEET 1 OF 1

SOIL BORING LOG

PROJECT :	Ten-Mile Drain RI/FS	LOCATION:	Saint Clair Shores, MI
ELEVATION:	NA	DRILLING CONTRACTOR :	Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED :	Geoprobe	DATE: 5/8/2013	
WATER LEVELS :	NA	LOGGER : G. Koster/R. Blink	START: 1130 END: 1140

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	#/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND OBSERVATIONS	PID (ppm)
	0-5	4.5'	CL	0.0'-0.5' Mulch and clay moisture; silty dark brown to brown clay; moist 0.5'-1.5' Dark brown; sandy clay; some coarse sand; very moist; soft; slag and gravel present 1.5'-2.0' Dark brown; silty clay; moist; soft	Collect TMD-SO-002-35-0.5/1 at 1200	
5			---	2.0'-4.5' Brown and gray; silty clay; slightly moist; stiff to very stiff 4.5'-5.0' No recovery	Collect TMD-SO-002-35-3.5/4.5 at 1205	
				EOB = 4.5 ft BGS		
10						
15						
20						
25						

Field QA/QC Review Signature / Date:

Attachment B
Data Quality Evaluation

Analytical Data Summary of the Sampling at the Ten-Mile Drain Site, St. Clair Shores, Michigan

PREPARED FOR:	U.S. Environmental Protection Agency
PREPARED BY:	Shannon Olson/CH2M HILL
DATE:	September 20, 2016

The objective of the data quality evaluation memorandum is to assess the data quality of analytical results for soil samples collected during the field investigation conducted at the Ten-Mile Drain Site in St. Clair Shores, Michigan, from September 9, 2013, to September 19, 2013. Samples were collected and analyzed with the objective to collect the data necessary to support a remedy selection that eliminates, reduces, or controls risks to human health and the environment. Guidance for this assessment came from the quality assurance project plan (QAPP) (CH2M HILL [CH2M] January 2013), *U.S. Environmental Protection Agency (EPA) Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (June 2008), and individual method requirements were used in this assessment.

This memorandum is intended as a general data quality assessment designed to summarize data issues.

Analytical Data

The samples were collected by CH2M. Samples were analyzed by the EPA Field Services Section (FSS) mobile laboratory station near the site. Confirmatory samples (10 percent) were analyzed by the Central Regional Laboratory (CRL). As part of the quality assurance process outlined in the site-specific QAPP (CH2M 2013), quality control (QC) samples were collected in the field to complement the assessment of overall data quality and usability. The QC samples consisted of field duplicates (FDs) and aliquots for laboratory matrix spike (MS)/matrix spike duplicates (MSD). The samples were reported as 7 sample delivery groups (SDGs) listed in Table 1.

Table 1. Sample Summary

SDG	Laboratory	PCB Analysis	FD Analysis	MS/MSD Analysis
MLSG130911-001	FSS	16 Soil Samples	2 Soil FDs	1 MS
MLSG130912-001	FSS	15 Soil Samples	2 Soil FDs	1 MS
MLSG130913-001	FSS	13 Soil Samples	1 Soil FD	1 MS
MLSG130917-001	FSS	19 Soil Samples	2 Soil FDs	2 MSs
MLSG130918-001	FSS	19 Soil Samples	2 Soil FDs	1 MS
MLSG130920-001	FSS	15 Soil Samples	2 Soil FDs	1 MS
E130905	CRL	10 Soil Samples	None	1 MS/MSD

The following are the analytical laboratory analyses for samples collected:

- 97 soil samples (exclusive of field QC samples) were analyzed by the FSS mobile laboratory for polychlorinated biphenyls (PCBs) by SOM01.2.
- 11 soil FD samples were analyzed by the FSS mobile laboratory.

- 10 soil samples (exclusive of field QC samples) were analyzed by the CRL for PCBs by CRL SOP GC002 revision 4.

One-hundred percent of the data were reviewed by EPA contractor, Techlaw ESAT. Attachment 1 contains the FSS mobile laboratory case narratives prepared by Techlaw ESAT. Attachment 2 contains the CRL case narratives. The findings of the reviews are summarized in the following paragraphs. This memorandum is intended as a general data quality assessment designed to summarize data issues.

The ESAT assessment of data included a review of the following:

- Completeness (i.e., verification that all of the samples were analyzed for the requested analytical parameters)
- Chain-of-custody documentation
- Holding times and sample receipt conditions
- Required QC samples at the specified frequencies
- MS/MSD precision and accuracy
- Flagging for method blanks
- Laboratory control sample (LCS) accuracy
- Surrogate spike recoveries
- Blank contamination and, if any, its impact on the analytical results
- Initial calibration and continuing calibration precision and accuracy
- Column differential

Standard data qualifiers were added as a means of classifying the data as to their conformance to quality assurance (QA)/QC requirements. Multiple qualifiers are routinely applied to specific sample method/matrix/analyte combinations, but there will be only one final qualifier. A final qualifier is applied to the data and is the most conservative of the applied validation qualifiers. The data qualifiers are defined as follows:

[U] The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
[UJ] The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
[J] The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

Findings

The following sections summarize the data validation findings and usability of the final reportable results.

PCB Data

PCB data were assessed for Aroclor-1016, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1260 from 108 soil samples. The data were analyzed through the FSS and CRL, and 100 percent were reviewed by the EPA contractor, Techlaw ESAT.

J or U qualifiers were applied to sample results that were potentially affected by QC deficiencies. J qualifiers were also applied to sample results that were reported between the method detection limit and the reporting limit.

FSS Data

Detected and nondetected results were flagged estimated as “J” and “UJ”, respectively, due to low surrogate recoveries in samples TMD-SO-071-2.5/3, TMD-SO-071-2.5/3-FD, TMD-SO-072-0/0.5, TMD-SO-078-0/0.5R1, TMD-SO-078-0/0.5R2, TMD-SO-078-2.5/3R3, TMD-SO-084-0/0.5, and TMD-SO-084-1/1.5.

The following samples required dilutions in order to meet calibration criteria: TMD-SO-065-0/0.5-FD, TMD-SO-069-0/0.5, and TMD-SO-076-1/1.5.

The following samples were reanalyzed one or more times: TMD-SO-060-0/0.5, TMD-SO-060-1/1.5, TMD-SO-060-2.5/3, TMD-SO-074-0/0.5, TMD-SO-074-1/1.5, TMD-SO-074-2.5/3, TMD-SO-078-0/0.5, TMD-SO-078-1/1.5, and TMD-SO-078-2.5/3. No reason was provided for the reanalyses, and final results were not selected.

CRL Data

A small positive bias for Aroclor-1248 and Aroclor-1254 could be present in all of the samples analyzed due to an overlap of Congeners.

All of the Aroclor patterns showed signs of degradation in all of the analyzed samples.

The following samples required dilutions in order to meet calibration criteria: TMD-SO-063-0/0.5 Split and TMD-SO-069-1/1.5.

None of the reported PCB results was rejected. One-hundred percent of the data, as qualified, can be used to make project decisions.

Overall Assessment

The final activity in the data quality evaluation is an assessment of whether the data meet the data quality objectives. The goal of the assessment was to demonstrate that a sufficient number of representative samples were collected, and the resulting analytical data can be used to support the decision making process. The following summary highlights the data evaluation findings for the above-defined events:

1. The completeness objective of 90 percent was met for all method/analyte combinations.
2. The precision and accuracy of the data, as measured by field and laboratory QC indicators, indicate that the data quality objectives were met.

References

CH2M HILL (CH2M). 2013. *Quality Assurance Project Plan, Ten Mile Drain Site, St. Clair Shores, Michigan.* January.

U.S. Environmental Protection Agency (EPA). 2008. *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*. June.

Attachment 1

Site Name: 10 Mile Drain
TDF# 5-414-021
Date Issued: 10/22/13
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5BP.000.021
Report Title: 10 Mile Final

NARRATIVE

One hundred and eight (108) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following one hundred and eight (108) samples are included in this narrative:

13CD07-64	13CD07-65	13CD07-66	13CD07-67
13CD07-68	13CD07-69	13CD07-70	13CD07-71
13CD07-72	13CD07-73	13CD07-75	13CD07-76
13CD07-77	13CD07-78	13CD07-79	13CD07-80
13CD07-81	13CD07-82	13CD07-84	13CD07-85
13CD07-86	13CD07-87	13CD07-88	13CD07-89
13CD07-90	13CD07-91	13CD07-92	13CD07-93
13CD07-95	13CD07-96	13CD07-97	13CD07-98
13CD07-99	13CD08-01	13CD08-02	13CD08-03
13CD08-04	13CD08-05	13CD08-06	13CD08-08
13CD08-09	13CD08-10	13CD08-11	13CD08-12
13CD08-13	13CD08-14	13CD08-15	13CD08-16
13CD08-20	13CD08-17	13CD08-19	13CD08-21
13CD08-22	13CD08-23	13CD08-24	13CD08-25
13CD08-26	13CD08-27	13CD08-28	13CD08-29
13CD08-30	13CD08-31	13CD08-32	13CD08-33
13CD08-35	13CD08-36	13CD08-37	13CD08-38
13CD08-39	13CD08-41	13CD08-42	13CD08-43
13CD08-44	13CD08-45	13CD08-46	13CD08-47
13CD08-48	13CD08-49	13CD08-50	13CD08-51
13CD08-52	13CD08-54	13CD08-55	13CD08-56
13CD08-57	13CD08-58	13CD08-59	13CD08-60
13CD08-61	13CD08-62	13CD08-63	13CD08-64
13CD08-65	13CD08-67	13CD08-68	13CD08-69
13CD08-70	13CD08-71	13CD08-72	13CD08-73
13CD08-74	13CD08-75	13CD08-76	13CD08-78
13CD08-79	13CD08-80	13CD08-81	13CD08-82

Reviewed By: _____ Date: 10/22/13

Site Name: 10 Mile Drain
TDF# 5-414-021
Date Issued: 10/22/13
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5BP.000.021
Report Title: 10 Mile Final

PCB Analysis
Sample Collection and Analysis

The samples were collected between September 9 and 19, 2013 and were analyzed between September 11 and 23, 2013 within the required hold times for Polychlorinated Biphenyl analytes.

Initial and Continuing Calibration

The initial calibration for AR1248 and AR1254 was run on September 10, 2013 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

All the AR1248 and AR1254 analytes in the continuing calibrations run on September 11, 2013 were within the QC limits of ± 35%.

All the AR1248 and AR1254 analytes in the continuing calibrations run on September 12, 2013 were within the QC limits of ± 35%.

All the AR1248 and AR1254 analytes in the continuing calibrations run on September 13 and 16, 2013 were within the QC limits of ± 35%.

All the AR1248 and AR1254 analytes in the continuing calibrations run on September 17, 2013 were within the QC limits of ± 35%.

All the AR1248 and AR1254 analytes in the continuing calibrations run on September 18, 2013 were within the QC limits of ± 35%.

All the AR1248 and AR1254 analytes in the continuing calibrations run on September 20 and 23, 2013 were within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blanks MLDE130911003Bln01, MLDE130912003Bln01, MLDE130913003Bln01, MLDE130917003Bln01, MLDE130917003Bln02, MLDE130918005Bln01, MLDE130918005Bln02, MLDE130920003Bln01 and MLDE130920003Bln02 were found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R with the exception of:

- Decachlorobiphenyl was below the lower QC limit in samples 13CD08-12, 13CD08-52, 13CD08-58, 13CD08-69, 13CD08-73, 13CD08-74 and 13CD08-75.
- Tetrachloro-m-xylene and Decachlorobiphenyl were below the lower QC limit in samples 13CD08-25, 13CD08-26, 13CD08-27, 13CD08-54, 13CD08-57, 13CD08-63, 13CD08-76 and 13CD08-78.

Reviewed By: _____ Date: 10/22/13

Site Name: 10 Mile Drain
TDF# 5-414-021
Date Issued: 10/22/13
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5BP.000.021
Report Title: 10 Mile Final

Samples are not qualified when only one surrogate is out of control.

For samples 13CD08-25, 13CD08-26, 13CD08-27, 13CD08-54, 13CD08-57, 13CD08-63, 13CD08-76 and 13CD08-78, detects are qualified "J" and non-detects qualified "UJ" for surrogate recovery.

Samples 13CD07-64, 13CD07-95, 13CD08-06, 13CD08-28, 13CD08-41, 13CD08-50 and 13CD08-72 were utilized as the source for the matrix spike sample. The percent recovery of AR1248 was within acceptance criteria of 50-150 %R (percent recovery).

The following samples had concentrations which exceeded the calibration curves and were run at the stated dilutions:

- Sample 13CD08-02 was reported at a 2x dilution for AR1248 and AR1254.
- Sample 13CD08-16 was reported at a 10x dilution for AR1248 and AR1254.
- Sample 13CD08-49 was reported at a 50x dilution for AR1248.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 10/22/13

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG130911-001

Samples Received: 09/11/2013

14ML0002 **Collection Date** 09/09/2013 **Sampled By:**

Sample Description: **TMD-SO-057-0/0.5**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	130			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	130			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1248	7400		360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	5900		360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	120			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	120			MLDR130912001	9/12/2013 2:13:00 PM	TES

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix spike-PCBs-dry	Decachlorobiphenyl	100			MLDR130912001	9/12/2013 2:14:00 PM	TES
Matrix spike-PCBs-dry	Decachlorobiphenyl %R	100			MLDR130912001	9/12/2013 2:14:00 PM	TES
Matrix spike-PCBs-dry	PCB-1016	0.0	U	300.0	MLDR130912001	9/12/2013 2:14:00 PM	TES
Matrix spike-PCBs-dry	PCB-1232	0.0	U	300.0	MLDR130912001	9/12/2013 2:14:00 PM	TES
Matrix spike-PCBs-dry	PCB-1242	0.0	U	300.0	MLDR130912001	9/12/2013 2:14:00 PM	TES
Matrix spike-PCBs-dry	PCB-1248	10000		300.0	MLDR130912001	9/12/2013 2:14:00 PM	TES
Matrix spike-PCBs-dry	PCB-1254	6600		300.0	MLDR130912001	9/12/2013 2:14:00 PM	TES
Matrix spike-PCBs-dry	PCB-1260	0.0	U	300.0	MLDR130912001	9/12/2013 2:14:00 PM	TES
Matrix spike-PCBs-dry	Spike Amount	2954.82			MLDR130912001	9/12/2013 2:14:00 PM	TES
Matrix spike-PCBs-dry	Tetrachloro-m-xylene	100			MLDR130912001	9/12/2013 2:14:00 PM	TES
Matrix spike-PCBs-dry	Tetrachloro-m-xylene %R	100			MLDR130912001	9/12/2013 2:14:00 PM	TES

14ML0003 **Collection Date** 09/09/2013 **Sampled By:**

Sample Description: **TMD-SO-057-1/1.5**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	120			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	120			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1248	380		360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	120			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	120			MLDR130912001	9/12/2013 2:13:00 PM	TES

Report Number: MLSG130911-001
Samples Received: 09/11/2013

14ML0004 **Collection Date** 09/09/2013 **Sampled By:**

Sample Description: **TMD-SO-057-2.5/3**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	260.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	260.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	260.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	260.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	260.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	260.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES

14ML0005 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-058-0.05**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1248	700		370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES

14ML0006 **Collection Date** 09/09/2013 **Sampled By:**

Sample Description: **TMD-SO-058-0/0.5FD**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1248	560		370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES

14ML0007 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-058-1/1.5**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	98			MLDR130912001	9/12/2013 2:13:00 PM	TES

Report Number: MLSG130911-001
Samples Received: 09/11/2013

14ML0007 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-058-1/1.5**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl %R	100			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	340.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	340.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	340.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	340.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	340.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	340.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	100			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	100			MLDR130912001	9/12/2013 2:13:00 PM	TES

14ML0008 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-058-2.5/3**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES

14ML0009 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-059-0/0.5**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	120			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	120			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1248	920		370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	780		370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES

14ML0010 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-059-1/1.5**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES

14ML0010 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-059-1/1.5**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1016	0.0	U	360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1248	280	J	360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	360.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES

14ML0011 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-059-2.5/3**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES

14ML0012 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-060-0/0.5R1**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	300.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	300.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	300.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1248	540		300.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	300.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	300.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES

14ML0013 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-060-1/1.5R1**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	300.0	MLDR130912001	9/12/2013 2:13:00 PM	TES

Report Number: MLSG130911-001
Samples Received: 09/11/2013

14ML0013 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-060-1/1.5R1**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1232	0.0	U	300.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	300.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	300.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	300.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	300.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES

14ML0014 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-060-2.5/3R1**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	120			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	120			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	370.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES

14ML0015 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-060-0/0.5R2**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	100			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	100			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	100			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	100			MLDR130912001	9/12/2013 2:13:00 PM	TES

14ML0016 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-060-1/1.5R2**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	120			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	120			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	320.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	320.0	MLDR130912001	9/12/2013 2:13:00 PM	TES

Report Number: MLSG130911-001
Samples Received: 09/11/2013

14ML0016 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-060-1/1.5R2**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1242	0.0	U	320.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	320.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	320.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	320.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	110			MLDR130912001	9/12/2013 2:13:00 PM	TES

14ML0017 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-060-2.5/3R2**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	99			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	100			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	310.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	100			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	100			MLDR130912001	9/12/2013 2:13:00 PM	TES

14ML0018 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-060-2.5/3R2-FD**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	93			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	90.0			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	270.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	270.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	270.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	270.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	270.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	270.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	96			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	100			MLDR130912001	9/12/2013 2:13:00 PM	TES

14ML0019 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-060-0/0.5R3**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	100			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	100			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130912001	9/12/2013 2:13:00 PM	TES

Report Number: MLSG130911-001
Samples Received: 09/11/2013

14ML0019 **Collection Date** 09/10/2013 **Sampled By:**

Sample Description: **TMD-SO-060-0/0.5R3**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1248	290	J	330.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1254	290	J	330.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	100			MLDR130912001	9/12/2013 2:13:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	100			MLDR130912001	9/12/2013 2:13:00 PM	TES

Report Number:
Samples Received:

MLDE130911003Bln01 **Collection Date** 09/11/2013 **Sampled By:** TES

Sample Description:
Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs-dry	Decachlorobiphenyl	110			MLDR130912001		TES
Method Blank-PCBs-dry	Decachlorobiphenyl %R	110			MLDR130912001		TES
Method Blank-PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130912001		TES
Method Blank-PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130912001		TES
Method Blank-PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130912001		TES
Method Blank-PCBs-dry	PCB-1248	0.0	U	330.0	MLDR130912001		TES
Method Blank-PCBs-dry	PCB-1254	0.0	U	~~1,100.0~~ 330	MLDR130912001	9/23/13	TES
Method Blank-PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130912001		TES
Method Blank-PCBs-dry	Tetrachloro-m-xylene	110			MLDR130912001		TES
Method Blank-PCBs-dry	Tetrachloro-m-xylene %R	110			MLDR130912001		TES

Approved: _____
Quality Control Officer

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG130912-001
Samples Received: 09/12/2013

14ML0020 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-060-1/1.5R3**

units ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	100			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	105			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	360.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	360.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	360.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	360.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	360.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	360.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	111			MLDR130913002	9/13/2013 12:55:00 PM	TES

14ML0021 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-060-2.5/3R3**

Units ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	88			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	88.1			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	330.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	330.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	97			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	96.9			MLDR130913002	9/13/2013 12:55:00 PM	TES

14ML0022 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-061-0/0.5**

Units ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	120			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	116			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	340.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	340.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	340.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1248	1400		340.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1254	1300		340.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	340.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	111			MLDR130913002	9/13/2013 12:55:00 PM	TES

Report Number: MLSG130912-001
Samples Received: 09/12/2013

14ML0023 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-061-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	100			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	102			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1248	280	J	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1254	240	J	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	100			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	102			MLDR130913002	9/13/2013 12:55:00 PM	TES

14ML0024 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-061-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	110			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	110			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	370.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	370.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	370.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	370.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	370.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	370.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	109			MLDR130913002	9/13/2013 12:55:00 PM	TES

14ML0025 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-062-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	120			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	117			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	111			MLDR130913002	9/13/2013 12:55:00 PM	TES

14ML0026 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-062-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	110			MLDR130913002	9/13/2013 12:55:00 PM	TES

Report Number: MLSG130912-001
Samples Received: 09/12/2013

14ML0026 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-062-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl %R	110			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	106			MLDR130913002	9/13/2013 12:55:00 PM	TES

14ML0027 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-062-1/1.5-FD**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	110			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	111			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	109			MLDR130913002	9/13/2013 12:55:00 PM	TES

14ML0028 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-062-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	74			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	74.3			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	78			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	78.5			MLDR130913002	9/13/2013 12:55:00 PM	TES

14ML0029 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-063-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	100			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	105			MLDR130913002	9/13/2013 12:55:00 PM	TES

Report Number: MLSG130912-001
Samples Received: 09/12/2013

14ML0029 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-063-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1248	3900		330.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1254	2800		330.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	100			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	104			MLDR130913002	9/13/2013 12:55:00 PM	TES

14ML0030 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-063-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	100			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	104			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1248	1500		300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	106			MLDR130913002	9/13/2013 12:55:00 PM	TES

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix spike-PCBs-dry	Decachlorobiphenyl	120			MLDR130913002	9/13/2013 12:56:00 PM	TES
Matrix spike-PCBs-dry	Decachlorobiphenyl %R	117			MLDR130913002	9/13/2013 12:56:00 PM	TES
Matrix spike-PCBs-dry	PCB-1016	0.0	U	380.0	MLDR130913002	9/13/2013 12:56:00 PM	TES
Matrix spike-PCBs-dry	PCB-1232	0.0	U	380.0	MLDR130913002	9/13/2013 12:56:00 PM	TES
Matrix spike-PCBs-dry	PCB-1242	0.0	U	380.0	MLDR130913002	9/13/2013 12:56:00 PM	TES
Matrix spike-PCBs-dry	PCB-1248	6100		380.0	MLDR130913002	9/13/2013 12:56:00 PM	TES
Matrix spike-PCBs-dry	PCB-1254	0.0		380.0	MLDR130913002	9/13/2013 12:56:00 PM	TES
Matrix spike-PCBs-dry	PCB-1260	0.0	U	380.0	MLDR130913002	9/13/2013 12:56:00 PM	TES
Matrix spike-PCBs-dry	Spike Amount	3777.36			MLDR130913002	9/13/2013 12:56:00 PM	TES
Matrix spike-PCBs-dry	Tetrachloro-m-xylene	120			MLDR130913002	9/13/2013 12:56:00 PM	TES
Matrix spike-PCBs-dry	Tetrachloro-m-xylene %R	117			MLDR130913002	9/13/2013 12:56:00 PM	TES

14ML0031 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-063-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	130			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	125			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	260.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	260.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	260.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	260.0	MLDR130913002	9/13/2013 12:55:00 PM	TES

Report Number: MLSG130912-001
Samples Received: 09/12/2013

14ML0031 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-063-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1254	0.0	U	260.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	260.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	130			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	127			MLDR130913002	9/13/2013 12:55:00 PM	TES

14ML0032 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-064-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	61			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	61.2			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1248	550		310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	69			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	69.3			MLDR130913002	9/13/2013 12:55:00 PM	TES

14ML0033 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-064-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	100			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	103			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1248	850		310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1254	750		310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	310.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	100			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	105			MLDR130913002	9/13/2013 12:55:00 PM	TES

14ML0034 **Collection Date** 09/11/2013 **Sampled By:**

Sample Description: **TMD-SO-064-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	99			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	99.1			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	340.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	340.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	340.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1248	0.0	U	340.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1254	0.0	U	340.0	MLDR130913002	9/13/2013 12:55:00 PM	TES

14ML0034 Collection Date 09/11/2013 Sampled By:

Sample Description **TMD-SO-064-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1260	0.0	U	340.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	98			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	97.7			MLDR130913002	9/13/2013 12:55:00 PM	TES

14ML0035 Collection Date 09/11/2013 Sampled By:

Sample Description: **TMD-SO-065-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	93			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	92.8			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1248	12000		300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1254	7000		300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	300.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	95			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	95.0			MLDR130913002	9/13/2013 12:55:00 PM	TES

14ML0036 Collection Date 09/11/2013 Sampled By:

Sample Description: **TMD-SO-065-0/0.5-FD**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	92			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Decachlorobiphenyl %R	92.3			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1016	0.0	U	280.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1232	0.0	U	280.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1242	0.0	U	280.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1248	23000		560.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1254	13000		560.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	PCB-1260	0.0	U	280.0	MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene	95			MLDR130913002	9/13/2013 12:55:00 PM	TES
PCBs-dry	Tetrachloro-m-xylene %R	95.4			MLDR130913002	9/13/2013 12:55:00 PM	TES

MLDE130912003Bln01 Collection Date 09/12/2013 Sampled By: TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs-dry	Decachlorobiphenyl	120			MLDR130913002		TES
Method Blank-PCBs-dry	Decachlorobiphenyl %R	118			MLDR130913002		TES
Method Blank-PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130913002		TES
Method Blank-PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130913002		TES
Method Blank-PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130913002		TES
Method Blank-PCBs-dry	PCB-1248	0.0	U	330.0	MLDR130913002		TES

Report Number:
Samples Received:

MLDE130912003Bln01 **Collection Date** 09/12/2013 **Sampled By:** TES

Sample Description:
Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs-dry	PCB-1254	0.0	U	330.0	MLDR130913002		TES
Method Blank-PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130913002		TES
Method Blank-PCBs-dry	Tetrachloro-m-xylene	120			MLDR130913002		TES
Method Blank-PCBs-dry	Tetrachloro-m-xylene %R	118			MLDR130913002		TES

Approved:
Quality Control Officer

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG130913-001
Samples Received: 09/13/2013

14ML0037 **Collection Date** 09/12/2013 **Sampled By:**

Sample Description: **TMD-SO-065-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	57			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	56.9			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	300.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	300.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	300.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1248	780		300.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1254	390		300.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	300.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	69			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	68.8			MLDR130916003	9/16/2013 12:27:00 PM	CR

14ML0038 **Collection Date** 09/12/2013 **Sampled By:**

Sample Description: **TMD-SO-065-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	87			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	87.0			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1248	230	J	370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1254	0.0	U	370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	91			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	91.0			MLDR130916003	9/16/2013 12:27:00 PM	CR

14ML0039 **Collection Date** 09/12/2013 **Sampled By:**

Sample Description: **TMD-SO-066-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	87			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	86.6			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	320.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	320.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	320.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1248	640		320.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1254	470		320.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	320.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	91			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	90.6			MLDR130916003	9/16/2013 12:27:00 PM	CR

Report Number: MLSG130913-001
Samples Received: 09/13/2013

14ML0040 **Collection Date** 09/12/2013 **Sampled By:**

Sample Description: **TMD-SO-066-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	87			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	86.8			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	340.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	340.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	340.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1248	960		340.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1254	540		340.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	340.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	94			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	94.0			MLDR130916003	9/16/2013 12:27:00 PM	CR

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix spike-PCBs-dry	Decachlorobiphenyl	57			MLDR130916003	9/16/2013 12:32:00 PM	CR
Matrix spike-PCBs-dry	Decachlorobiphenyl %R	56.7			MLDR130916003	9/16/2013 12:32:00 PM	SA
Matrix spike-PCBs-dry	PCB-1016	0.0	U	340.0	MLDR130916003	9/16/2013 12:32:00 PM	SA
Matrix spike-PCBs-dry	PCB-1232	0.0	U	340.0	MLDR130916003	9/16/2013 12:32:00 PM	SA
Matrix spike-PCBs-dry	PCB-1242	0.0	U	340.0	MLDR130916003	9/16/2013 12:32:00 PM	SA
Matrix spike-PCBs-dry	PCB-1248	3300		350.0	MLDR130916003	9/16/2013 12:32:00 PM	TES
Matrix spike-PCBs-dry	PCB-1254	1380		350.0	MLDR130916003	9/16/2013 12:32:00 PM	TES
Matrix spike-PCBs-dry	PCB-1260	0.0	U	340.0	MLDR130916003	9/16/2013 12:32:00 PM	SA
Matrix spike-PCBs-dry	Spike Amount	3425.77			MLDR130916003	9/16/2013 12:32:00 PM	SA
Matrix spike-PCBs-dry	Tetrachloro-m-xylene	64			MLDR130916003	9/16/2013 12:32:00 PM	CR
Matrix spike-PCBs-dry	Tetrachloro-m-xylene %R	64.3			MLDR130916003	9/16/2013 12:32:00 PM	SA

14ML0041 **Collection Date** 09/12/2013 **Sampled By:**

Sample Description: **TMO-SO-066-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	74			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	74.1			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1248	0.0	U	330.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1254	0.0	U	330.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	80			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	79.8			MLDR130916003	9/16/2013 12:27:00 PM	CR

14ML0042 **Collection Date** 09/12/2013 **Sampled By:**

Sample Description: **TMD-SO-067-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	100			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	104			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130916003	9/16/2013 12:27:00 PM	CR

14ML0042 Collection Date 09/12/2013 Sampled By:

Sample Description: **TMD-SO-067-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1248	1100		330.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1254	630		330.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	100			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	100			MLDR130916003	9/16/2013 12:27:00 PM	CR

14ML0043 Collection Date 09/12/2013 Sampled By:

Sample Description: **TMD-SO-067-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	97			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	96.7			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	340.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	340.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	340.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1248	410		340.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1254	330	J	340.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	340.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	93			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	92.5			MLDR130916003	9/16/2013 12:27:00 PM	CR

14ML0044 Collection Date 09/12/2013 Sampled By:

Sample Description: **TMD-SO-067-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	77			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	77.4			MLDR130916003	9/16/2013 12:27:00 PM	SA
PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130916003	9/16/2013 12:27:00 PM	SA
PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130916003	9/16/2013 12:27:00 PM	SA
PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130916003	9/16/2013 12:27:00 PM	SA
PCBs-dry	PCB-1248	0.0	U	330.0	MLDR130916003	9/16/2013 12:27:00 PM	SA
PCBs-dry	PCB-1254	0.0	U	330.0	MLDR130916003	9/16/2013 12:27:00 PM	SA
PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130916003	9/16/2013 12:27:00 PM	SA
PCBs-dry	Tetrachloro-m-xylene	81			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	81.3			MLDR130916003	9/16/2013 12:27:00 PM	SA

14ML0045 Collection Date 09/12/2013 Sampled By:

Sample Description: **TMD-SO-068-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	38	J		MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	38.1			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	310.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	310.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	310.0	MLDR130916003	9/16/2013 12:27:00 PM	CR

14ML0045 Collection Date 09/12/2013 Sampled By:

Sample Description: **TMD-SO-068-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1248	8300		310.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1254	5100		310.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	310.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	50			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	50.3			MLDR130916003	9/16/2013 12:27:00 PM	CR

14ML0046 Collection Date 09/12/2013 Sampled By:

Sample Description: **TMD-SO-068-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	88			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	87.5			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1248	660		370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1254	370		370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	96			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	95.8			MLDR130916003	9/16/2013 12:27:00 PM	CR

14ML0047 Collection Date 09/12/2013 Sampled By:

Sample Description: **TMD-SO-068-1/1.5-FD**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	59			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	59.0			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	300.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	300.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	300.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1248	350		300.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1254	0.0	U	300.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	300.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	71			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	70.5			MLDR130916003	9/16/2013 12:27:00 PM	CR

14ML0048 Collection Date 09/12/2013 Sampled By:

Sample Description: **TMD-SO-068-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	100			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	99.8			MLDR130916003	9/16/2013 12:27:00 PM	SA
PCBs-dry	PCB-1016	0.0	U	380.0	MLDR130916003	9/16/2013 12:27:00 PM	SA
PCBs-dry	PCB-1232	0.0	U	380.0	MLDR130916003	9/16/2013 12:27:00 PM	SA
PCBs-dry	PCB-1242	0.0	U	380.0	MLDR130916003	9/16/2013 12:27:00 PM	SA
PCBs-dry	PCB-1248	230	J	380.0	MLDR130916003	9/16/2013 12:27:00 PM	SA

14ML0048 Collection Date 09/12/2013 Sampled By:

Sample Description: **TMD-SO-068-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1254	0.0	U	380.0	MLDR130916003	9/16/2013 12:27:00 PM	SA
PCBs-dry	PCB-1260	0.0	U	380.0	MLDR130916003	9/16/2013 12:27:00 PM	SA
PCBs-dry	Tetrachloro-m-xylene	100			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	101			MLDR130916003	9/16/2013 12:27:00 PM	SA

14ML0049 Collection Date 09/12/2013 Sampled By:

Sample Description: **TMD-SO-069-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	63			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	63.1			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	360.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	360.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	360.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1248	50000		3,600.0	MLDR130916003	9/16/2013 12:27:00 PM	SA
PCBs-dry	PCB-1254	27000		3,600.0	MLDR130916003	9/16/2013 12:27:00 PM	SA
PCBs-dry	PCB-1260	0.0	U	360.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	66			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	66.2			MLDR130916003	9/16/2013 12:27:00 PM	CR

14ML0050 Collection Date 09/12/2013 Sampled By:

Sample Description: **TMD-SO-070-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	52			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	52.2			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1248	0.0	U	370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1254	0.0	U	370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	370.0	MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	62			MLDR130916003	9/16/2013 12:27:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	62.1			MLDR130916003	9/16/2013 12:27:00 PM	CR

MLDE130913003Bln01 Collection Date 09/13/2013 Sampled By: TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs-dry	Decachlorobiphenyl	120			MLDR130916003		CR
Method Blank-PCBs-dry	Decachlorobiphenyl %R	117			MLDR130916003		CR
Method Blank-PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130916003		CR
Method Blank-PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130916003		CR
Method Blank-PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130916003		CR

Report Number:
Samples Received:

MLDE130913003Bln01 **Collection Date** 09/13/2013 **Sampled By:** TES

Sample Description:
Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs-dry	PCB-1248	0.0	U	330.0	MLDR130916003		CR
Method Blank-PCBs-dry	PCB-1254	0.0	U	330.0	MLDR130916003		CR
Method Blank-PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130916003		CR
Method Blank-PCBs-dry	Tetrachloro-m-xylene	110			MLDR130916003		CR
Method Blank-PCBs-dry	Tetrachloro-m-xylene %R	114			MLDR130916003		CR

Approved: _____
Quality Control Officer

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG130917-001
Samples Received: 09/17/2013

14ML0051 **Collection Date** 09/13/2013 **Sampled By:**

Sample Description: **TMD-SO-069-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	73			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	73.5			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	3200		320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	2000		320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	77			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	76.6			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0052 **Collection Date** 09/13/2013 **Sampled By:**

Sample Description: **TMD-SO-069-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	97			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	97.1			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	360.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	360.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	360.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	0.0	U	360.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	0.0	U	360.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	360.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	92			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	92.5			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0053 **Collection Date** 09/13/2013 **Sampled By:**

Sample Description: **TMD-SO-070-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	78			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	78.6			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	530		330.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	280	J	330.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	86			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	86.5			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0054 **Collection Date** 09/13/2013 **Sampled By:**

Sample Description: **TMD-SO-070-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	100			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	104			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	350.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	350.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	350.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	370		350.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	0.0	U	350.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	350.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	100			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	103			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0055 **Collection Date** 09/13/2013 **Sampled By:**

Sample Description **TMD-SO-071-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	98			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	98.1			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	3000		310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	2600		310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	96			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	96.2			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0056 **Collection Date** 09/13/2013 **Sampled By:**

Sample Description: **TMD-SO-071-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	78			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	77.8			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	0.0	U	310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	0.0	U	310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	79			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	79.1			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0057 **Collection Date** 09/13/2013 **Sampled By:**

Sample Description: **TMD-SO-071-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	44	J		MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0057 Collection Date 09/13/2013 Sampled By:

Sample Description: **TMD-SO-071-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl %R	44.1			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	UJ	310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	UJ	310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	UJ	310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	0.0	UJ	310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	0.0	UJ	310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	UJ	310.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	47	J		MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	47.5			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0058 Collection Date 09/13/2013 Sampled By:

Sample Description: **TMD-SO-071-2.5/3-FD**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	42	J		MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	42.1			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	UJ	330.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	UJ	330.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	UJ	330.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	0.0	UJ	330.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	0.0	UJ	330.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	UJ	330.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	45	J		MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	44.7			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0059 Collection Date 09/13/2013 Sampled By:

Sample Description: **TMD-SO-072-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	35	J		MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	35.3			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	UJ	340.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	UJ	340.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	UJ	340.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	0.0	UJ	340.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	0.0	UJ	340.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	UJ	340.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	46	J		MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	46.2			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0060 Collection Date 09/13/2013 Sampled By:

Sample Description: **TMD-SO-072-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	51			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	50.6			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0060 **Collection Date** 09/13/2013 **Sampled By:**

Sample Description: **TMD-SO-072-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1016	0.0	U	280.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	280.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	280.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	0.0	U	280.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	0.0	U	280.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	280.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	65			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	65.2			MLDR130918002	9/18/2013 12:14:00 PM	CR

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix spike-PCBs-dry	Decachlorobiphenyl	75			MLDR130918002	9/18/2013 12:18:00 PM	CR
Matrix spike-PCBs-dry	Decachlorobiphenyl %R	75.1			MLDR130918002	9/18/2013 12:18:00 PM	CR
Matrix spike-PCBs-dry	PCB-1016	0.0	U	280.0	MLDR130918002	9/18/2013 12:18:00 PM	CR
Matrix spike-PCBs-dry	PCB-1232	0.0	U	280.0	MLDR130918002	9/18/2013 12:18:00 PM	CR
Matrix spike-PCBs-dry	PCB-1242	0.0	U	280.0	MLDR130918002	9/18/2013 12:18:00 PM	CR
Matrix spike-PCBs-dry	PCB-1248	2800		280.0	MLDR130918002	9/18/2013 12:18:00 PM	CR
Matrix spike-PCBs-dry	PCB-1254	0.0	U	280.0	MLDR130918002	9/18/2013 12:18:00 PM	TES
Matrix spike-PCBs-dry	PCB-1260	0.0	U	280.0	MLDR130918002	9/18/2013 12:18:00 PM	CR
Matrix spike-PCBs-dry	Spike Amount	2834.44			MLDR130918002	9/18/2013 12:18:00 PM	CR
Matrix spike-PCBs-dry	Tetrachloro-m-xylene	91			MLDR130918002	9/18/2013 12:18:00 PM	CR
Matrix spike-PCBs-dry	Tetrachloro-m-xylene %R	91.1			MLDR130918002	9/18/2013 12:18:00 PM	CR

14ML0061 **Collection Date** 09/13/2013 **Sampled By:**

Sample Description: **TMD-SO-072-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	77			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	77.0			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	0.0	U	290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	0.0	U	290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	82			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	82.2			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0062 **Collection Date** 09/13/2013 **Sampled By:**

Sample Description: **TMD-SO-073-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	110			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	107			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	0.0	U	300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0062 **Collection Date** 09/13/2013 **Sampled By:**

Sample Description: **TMD-SO-073-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1254	0.0	U	300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	100			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	100			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0063 **Collection Date** 09/13/2013 **Sampled By:**

Sample Description: **TMD-SO-073-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	100			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	104			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	340.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	340.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	340.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	0.0	U	340.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	0.0	U	340.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	340.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	100			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	103			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0064 **Collection Date** 09/13/2013 **Sampled By:**

Sample Description: **TMD-SO-073-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	77			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	77.4			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	270.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	270.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	270.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	0.0	U	270.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	0.0	U	270.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	270.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	82			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	81.8			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML006S **Collection Date** 09/16/2013 **Sampled By:**

Sample Description: **TMD-SO-074-0/0.5R1**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	78			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	77.7			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	530		300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	540		300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0065 **Collection Date** 09/16/2013 **Sampled By:**

Sample Description: **TMD-SO-074-0/0.5R1**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1260	0.0	U	300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	86			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	85.7			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0066 **Collection Date** 09/16/2013 **Sampled By:**

Sample Description: **TMD-SO-074-1/1.5R1**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	86			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	86.5			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	280	J	320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	220	J	320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	89			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	88.7			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0067 **Collection Date** 09/16/2013 **Sampled By:**

Sample Description: **TMD-SO-074-2.5/3R1**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	79			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	79.4			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	270.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	270.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	270.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	0.0	U	270.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	0.0	U	270.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	270.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	84			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	84.2			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0068 **Collection Date** 09/16/2013 **Sampled By:**

Sample Description: **TMD-SO-074-0/0.5R2**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	65			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	65.0			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	440		290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	460		290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0068 Collection Date 09/16/2013 Sampled By:

Sample Description: **TMD-SO-074-0/0.5R2**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Tetrachloro-m-xylene	70			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	70.4			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0069 Collection Date 09/16/2013 Sampled By:

Sample Description **TMD-SO-074-0/0.5R2-FD**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	66			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	65.7			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	540		300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	540		300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	300.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	72			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	71.8			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0070 Collection Date 09/16/2013 Sampled By:

Sample Description: **TMD-SO-074-1/1.5R2**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	75			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	74.8			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	230	J	290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	180	J	290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	290.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	70			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene %R	69.8			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0071 Collection Date 09/16/2013 Sampled By:

Sample Description: **TMD-SO-074-2.5/3R2**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	100			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Decachlorobiphenyl %R	100			MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1016	0.0	U	320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1232	0.0	U	320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1242	0.0	U	320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1248	0.0	U	320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1254	0.0	U	320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	PCB-1260	0.0	U	320.0	MLDR130918002	9/18/2013 12:14:00 PM	CR
PCBs-dry	Tetrachloro-m-xylene	90			MLDR130918002	9/18/2013 12:14:00 PM	CR

14ML0071 **Collection Date** 09/16/2013 **Sampled By:**

Sample Description: **TMD-SO-074-2.5/3R2**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Tetrachloro-m-xylene %R	90.3			MLDR130918002	9/18/2013 12:14:00 PM	CR

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix spike-PCBs-dry	Decachlorobiphenyl	100			MLDR130918002	9/18/2013 12:18:00 PM	TES
Matrix spike-PCBs-dry	Decachlorobiphenyl %R	102			MLDR130918002	9/18/2013 12:18:00 PM	TES
Matrix spike-PCBs-dry	PCB-1016	0.0	U	320.0	MLDR130918002	9/18/2013 12:18:00 PM	TES
Matrix spike-PCBs-dry	PCB-1232	0.0	U	320.0	MLDR130918002	9/18/2013 12:18:00 PM	TES
Matrix spike-PCBs-dry	PCB-1242	0.0	U	320.0	MLDR130918002	9/18/2013 12:18:00 PM	TES
Matrix spike-PCBs-dry	PCB-1248	3400		320.0	MLDR130918002	9/18/2013 12:18:00 PM	TES
Matrix spike-PCBs-dry	PCB-1254	0.0		320.0	MLDR130918002	9/18/2013 12:18:00 PM	TES
Matrix spike-PCBs-dry	PCB-1260	0.0	U	320.0	MLDR130918002	9/18/2013 12:18:00 PM	TES
Matrix spike-PCBs-dry	Spike Amount	3244.6			MLDR130918002	9/18/2013 12:18:00 PM	TES
Matrix spike-PCBs-dry	Tetrachloro-m-xylene	100			MLDR130918002	9/18/2013 12:18:00 PM	TES
Matrix spike-PCBs-dry	Tetrachloro-m-xylene %R	103			MLDR130918002	9/18/2013 12:18:00 PM	TES

MLDE130917003Bln01 **Collection Date** 09/17/2013 **Sampled By:** TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs-dry	Decachlorobiphenyl	110			MLDR130918002		CR
Method Blank-PCBs-dry	Decachlorobiphenyl %R	112			MLDR130918002		CR
Method Blank-PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130918002		CR
Method Blank-PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130918002		CR
Method Blank-PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130918002		CR
Method Blank-PCBs-dry	PCB-1248	0.0	U	330.0	MLDR130918002		CR
Method Blank-PCBs-dry	PCB-1254	0.0	U	330.0	MLDR130918002		CR
Method Blank-PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130918002		CR
Method Blank-PCBs-dry	Tetrachloro-m-xylene	110			MLDR130918002		CR
Method Blank-PCBs-dry	Tetrachloro-m-xylene %R	107			MLDR130918002		CR

MLDE130917003Bln02 **Collection Date** 09/17/2013 **Sampled By:** TES

Sample Description

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs-dry	Decachlorobiphenyl	120			MLDR130918002		CR
Method Blank-PCBs-dry	Decachlorobiphenyl %R	118			MLDR130918002		CR
Method Blank-PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130918002		CR
Method Blank-PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130918002		CR
Method Blank-PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130918002		CR
Method Blank-PCBs-dry	PCB-1248	0.0	U	330.0	MLDR130918002		CR
Method Blank-PCBs-dry	PCB-1254	0.0	U	330.0	MLDR130918002		CR
Method Blank-PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130918002		CR
Method Blank-PCBs-dry	Tetrachloro-m-xylene	110			MLDR130918002		CR
Method Blank-PCBs-dry	Tetrachloro-m-xylene %R	108			MLDR130918002		CR

Approved:

Quality Control Officer

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG130918-001
Samples Received: 09/18/2013

14ML0072 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-074-0/0.5R3**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	87			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	86.7			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	360.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	360.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	360.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	0.0	U	360.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	550		360.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	360.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	92			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	92.1			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0073 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-074-1/1.5R3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	77			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	77.5			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	300.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	300.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	300.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	0.0	U	300.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	230	J	300.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	300.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	83			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	83.4			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0074 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-074-2.5/3R3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	95			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	94.8			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	0.0	U	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	93			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	92.5			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0075 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-075-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	90			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	90.4			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	0.0	U	330.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	330.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	93			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	93.0			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0076 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-075-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	100			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	102			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	0.0	U	320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	750		320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	100			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	104			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0077 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-076-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	190			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	95.0			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	5200		350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	2800		350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	180			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	90.8			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0078 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-076-0/0.5-FD**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	93			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0078 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-076-0/0.5-FD**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl %R	92.6			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	370.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	370.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	370.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	11000		370.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	370.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	370.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	89			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	89.2			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0079 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-076-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	90			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	89.8			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	290.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	290.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	290.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	130000		15,000.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	290.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	290.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	87			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	86.9			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0080 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-077-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	99			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	99.3			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	360.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	360.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	360.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	4800		360.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	4600		360.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	360.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	95			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	95.4			MLDR130919001	9/19/2013 11:06:00 AM	CR

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix spike-PCBs-dry	Decachlorobiphenyl	110			MLDR130919001	9/19/2013 11:08:00 AM	CR
Matrix spike-PCBs-dry	Decachlorobiphenyl %R	113			MLDR130919001	9/19/2013 11:08:00 AM	CR
Matrix spike-PCBs-dry	PCB-1016	0.0	U	360.0	MLDR130919001	9/19/2013 11:08:00 AM	CR
Matrix spike-PCBs-dry	PCB-1232	0.0	U	360.0	MLDR130919001	9/19/2013 11:08:00 AM	CR
Matrix spike-PCBs-dry	PCB-1242	0.0	U	360.0	MLDR130919001	9/19/2013 11:08:00 AM	CR

14ML0080 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-077-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix spike-PCBs-dry	PCB-1248	10000		360.0	MLDR130919001	9/19/2013 11:08:00 AM	CR
Matrix spike-PCBs-dry	PCB-1254	8100		360.0	MLDR130919001	9/19/2013 11:08:00 AM	CR
Matrix spike-PCBs-dry	PCB-1260	0.0	U	360.0	MLDR130919001	9/19/2013 11:08:00 AM	CR
Matrix spike-PCBs-dry	Spike Amount	3591.61			MLDR130919001	9/19/2013 11:08:00 AM	CR
Matrix spike-PCBs-dry	Tetrachloro-m-xylene	100			MLDR130919001	9/19/2013 11:08:00 AM	CR
Matrix spike-PCBs-dry	Tetrachloro-m-xylene %R	105			MLDR130919001	9/19/2013 11:08:00 AM	CR

14ML0081 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-077-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	56			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	55.6			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	180	J	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	64			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	64.0			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0082 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-077-2.5/3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	49	J		MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	49.2	J		MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	310.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	310.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	310.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	0.0	U	310.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	310.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	310.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	59			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	59.5			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0083 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-078-0/0.5R1**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	34	J		MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	33.7	J		MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	UJ	320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	UJ	320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	UJ	320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0083 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-078-0/0.5R1**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1248	1900	J	320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	1100	J	320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	UJ	320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	47	J		MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	46.5	J		MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0084 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-078-1/1.5R1**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	74			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	73.5			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	980		340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	550		340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	79			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	79.3			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0085 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-078-2.5/3R1**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	51			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	50.9			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	0.0	U	340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	62			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	62.1			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0086 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-078-0/0.5R2**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	37	J		MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	37.1	J		MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	UJ	320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	UJ	320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	UJ	320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	1200	J	320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0086 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-078-0/0.5R2**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1254	760	J	320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	UJ	320.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	46	J		MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	46.2	J		MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0087 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-078-1/1.5R2**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	50	J		MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	49.6	J		MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	250.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	250.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	250.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	610		250.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	250.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	250.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	60			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	59.8			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0088 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-078-1/1.5R2-FD**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	91			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	90.6			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	810		330.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	520		330.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	89			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	89.0			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0089 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-078-2.5/3R2**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	60			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	60.0			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	0.0	U	340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0089 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-078-2.5/3R2**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1260	0.0	U	340.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	67			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	67.2			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0090 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-078-0/0.5R3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	56			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	55.8			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	370.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	370.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	370.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	2400		370.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	1500		370.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	370.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	66			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	65.9			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0091 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-078-1/1.5R3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	52			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	51.9			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	280.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	280.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	280.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	500		280.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	320		280.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	280.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	59			MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	58.9			MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0092 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-078-2.5/3R3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	40	J		MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	40.3	J		MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1016	0.0	UJ	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1232	0.0	UJ	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1242	0.0	UJ	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1248	0.0	UJ	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1254	0.0	UJ	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	PCB-1260	0.0	UJ	350.0	MLDR130919001	9/19/2013 11:06:00 AM	CR

14ML0092 **Collection Date** 09/17/2013 **Sampled By:**

Sample Description: **TMD-SO-078-2.5/3R3**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Tetrachloro-m-xylene	43	J		MLDR130919001	9/19/2013 11:06:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	43.1	J		MLDR130919001	9/19/2013 11:06:00 AM	CR

Report Number:
Samples Received:
Page 8 of 8

MLDE130918005Bln01 **Collection Date** 09/18/2013 **Sampled By:** TES

Sample Description

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs-dry	Decachlorobiphenyl	110			MLDR130919001		CR
Method Blank-PCBs-dry	Decachlorobiphenyl %R	113			MLDR130919001		CR
Method Blank-PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130919001		CR
Method Blank-PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130919001		CR
Method Blank-PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130919001		CR
Method Blank-PCBs-dry	PCB-1248	0.0	U	330.0	MLDR130919001		CR
Method Blank-PCBs-dry	PCB-1254	0.0	U	330.0	MLDR130919001		CR
Method Blank-PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130919001		CR
Method Blank-PCBs-dry	Tetrachloro-m-xylene	110			MLDR130919001		CR
Method Blank-PCBs-dry	Tetrachloro-m-xylene %R	109			MLDR130919001		CR

MLDE130918005Bln02 **Collection Date** 09/19/2013 **Sampled By:** CR

Sample Description.

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs-dry	Decachlorobiphenyl	110			MLDR130919001		CR
Method Blank-PCBs-dry	Decachlorobiphenyl %R	114			MLDR130919001		CR
Method Blank-PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130919001		CR
Method Blank-PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130919001		CR
Method Blank-PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130919001		CR
Method Blank-PCBs-dry	PCB-1248	0.0	U	330.0	MLDR130919001		CR
Method Blank-PCBs-dry	PCB-1254	0.0	U	330.0	MLDR130919001		CR
Method Blank-PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130919001		CR
Method Blank-PCBs-dry	Tetrachloro-m-xylene	110			MLDR130919001		CR
Method Blank-PCBs-dry	Tetrachloro-m-xylene %R	109			MLDR130919001		CR

Approved _____
Quality Control Officer

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG130920-001
Samples Received: 09/20/2013

14ML0093 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-079-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	67			MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	66.9			MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	360.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	360.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	360.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1248	0.0	U	360.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	360.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	360.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	77			MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	76.8			MLDR130923001	9/23/2013 11:23:00 AM	CR

14ML0094 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-079-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	62			MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	61.6			MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	280.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	280.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	280.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1248	0.0	U	280.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	280.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	280.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	71			MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	71.0			MLDR130923001	9/23/2013 11:23:00 AM	CR

14ML0095 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-080-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	74			MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	74.2			MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	290.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	290.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	290.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1248	0.0	U	290.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	290.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	290.0	MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	71			MLDR130923001	9/23/2013 11:23:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	71.0			MLDR130923001	9/23/2013 11:23:00 AM	CR

14ML0096 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-080-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	74			MLDR130923001	9/23/2013 11:24:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	74.0			MLDR130923001	9/23/2013 11:24:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130923001	9/23/2013 11:24:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130923001	9/23/2013 11:24:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130923001	9/23/2013 11:24:00 AM	CR
PCBs-dry	PCB-1248	0.0	U	330.0	MLDR130923001	9/23/2013 11:24:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	330.0	MLDR130923001	9/23/2013 11:24:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130923001	9/23/2013 11:24:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	74			MLDR130923001	9/23/2013 11:24:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	73.5			MLDR130923001	9/23/2013 11:24:00 AM	CR

14ML0097 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-081-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	48	J		MLDR130923001	9/23/2013 11:27:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	48.4	J		MLDR130923001	9/23/2013 11:27:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	260.0	MLDR130923001	9/23/2013 11:27:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	260.0	MLDR130923001	9/23/2013 11:27:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	260.0	MLDR130923001	9/23/2013 11:27:00 AM	CR
PCBs-dry	PCB-1248	0.0	U	260.0	MLDR130923001	9/23/2013 11:27:00 AM	CR
PCBs-dry	PCB-1254	170	J	260.0	MLDR130923001	9/23/2013 11:27:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	260.0	MLDR130923001	9/23/2013 11:27:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	50			MLDR130923001	9/23/2013 11:27:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	50.4			MLDR130923001	9/23/2013 11:27:00 AM	CR

14ML0098 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-081-0/0.5-FD**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	79			MLDR130923001	9/23/2013 11:28:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	78.6			MLDR130923001	9/23/2013 11:28:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	340.0	MLDR130923001	9/23/2013 11:28:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	340.0	MLDR130923001	9/23/2013 11:28:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	340.0	MLDR130923001	9/23/2013 11:28:00 AM	CR
PCBs-dry	PCB-1248	200	J	340.0	MLDR130923001	9/23/2013 11:28:00 AM	CR
PCBs-dry	PCB-1254	270	J	340.0	MLDR130923001	9/23/2013 11:28:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	340.0	MLDR130923001	9/23/2013 11:28:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	79			MLDR130923001	9/23/2013 11:28:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	78.8			MLDR130923001	9/23/2013 11:28:00 AM	CR

14ML0099 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-081-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	100			MLDR130923001	9/23/2013 11:29:00 AM	CR

14ML0099 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-081-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl %R	103			MLDR130923001	9/23/2013 11:29:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	290.0	MLDR130923001	9/23/2013 11:29:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	290.0	MLDR130923001	9/23/2013 11:29:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	290.0	MLDR130923001	9/23/2013 11:29:00 AM	CR
PCBs-dry	PCB-1248	0.0	U	290.0	MLDR130923001	9/23/2013 11:29:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	290.0	MLDR130923001	9/23/2013 11:29:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	290.0	MLDR130923001	9/23/2013 11:29:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	110			MLDR130923001	9/23/2013 11:29:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	107			MLDR130923001	9/23/2013 11:29:00 AM	CR

14ML0100 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description **TMD-SO-082-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	59			MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	59.4			MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	380.0	MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	380.0	MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	380.0	MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	PCB-1248	0.0	U	380.0	MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	380.0	MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	380.0	MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	73			MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	72.5			MLDR130923001	9/23/2013 11:30:00 AM	CR

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix spike-PCBs-dry	Decachlorobiphenyl	57			MLDR130923001	9/23/2013 11:36:00 AM	CR
Matrix spike-PCBs-dry	Decachlorobiphenyl %R	56.8			MLDR130923001	9/23/2013 11:36:00 AM	CR
Matrix spike-PCBs-dry	PCB-1016	0.0	U	370.0	MLDR130923001	9/23/2013 11:36:00 AM	CR
Matrix spike-PCBs-dry	PCB-1232	0.0	U	370.0	MLDR130923001	9/23/2013 11:36:00 AM	CR
Matrix spike-PCBs-dry	PCB-1242	0.0	U	370.0	MLDR130923001	9/23/2013 11:36:00 AM	CR
Matrix spike-PCBs-dry	PCB-1248	3000		370.0	MLDR130923001	9/23/2013 11:36:00 AM	CR
Matrix spike-PCBs-dry	PCB-1254	0.0	U	370.0	MLDR130923001	9/23/2013 11:36:00 AM	CR
Matrix spike-PCBs-dry	PCB-1260	0.0	U	370.0	MLDR130923001	9/23/2013 11:36:00 AM	CR
Matrix spike-PCBs-dry	Spike Amount	3663.84			MLDR130923001	9/23/2013 11:36:00 AM	CR
Matrix spike-PCBs-dry	Tetrachloro-m-xylene	90			MLDR130923001	9/23/2013 11:36:00 AM	CR
Matrix spike-PCBs-dry	Tetrachloro-m-xylene %R	90.4			MLDR130923001	9/23/2013 11:36:00 AM	CR

14ML0101 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-082-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	37	J		MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	37.0	J		MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	290.0	MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	290.0	MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	290.0	MLDR130923001	9/23/2013 11:30:00 AM	CR

14ML0101 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-082-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1248	0.0	U	290.0	MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	290.0	MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	290.0	MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	57			MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	57.3			MLDR130923001	9/23/2013 11:30:00 AM	CR

14ML0102 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-083-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	47	J		MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	46.7	J		MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	390.0	MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	390.0	MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	390.0	MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	PCB-1248	0.0	U	390.0	MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	390.0	MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	390.0	MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	57			MLDR130923001	9/23/2013 11:30:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	57.0			MLDR130923001	9/23/2013 11:30:00 AM	CR

14ML0103 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-083-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	42	J		MLDR130923001	9/23/2013 11:31:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	42.5	J		MLDR130923001	9/23/2013 11:31:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	260.0	MLDR130923001	9/23/2013 11:31:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	260.0	MLDR130923001	9/23/2013 11:31:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	260.0	MLDR130923001	9/23/2013 11:31:00 AM	CR
PCBs-dry	PCB-1248	0.0	U	260.0	MLDR130923001	9/23/2013 11:31:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	260.0	MLDR130923001	9/23/2013 11:31:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	260.0	MLDR130923001	9/23/2013 11:31:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	53			MLDR130923001	9/23/2013 11:31:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	52.9			MLDR130923001	9/23/2013 11:31:00 AM	CR

14ML0104 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-084-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	28	J		MLDR130923001	9/23/2013 11:32:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	27.9	J		MLDR130923001	9/23/2013 11:32:00 AM	CR
PCBs-dry	PCB-1016	0.0	UJ	380.0	MLDR130923001	9/23/2013 11:32:00 AM	CR
PCBs-dry	PCB-1232	0.0	UJ	380.0	MLDR130923001	9/23/2013 11:32:00 AM	CR
PCBs-dry	PCB-1242	0.0	UJ	380.0	MLDR130923001	9/23/2013 11:32:00 AM	CR
PCBs-dry	PCB-1248	0.0	UJ	380.0	MLDR130923001	9/23/2013 11:32:00 AM	CR

14ML0104 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-084-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1254	0.0	UJ	380.0	MLDR130923001	9/23/2013 11:32:00 AM	CR
PCBs-dry	PCB-1260	0.0	UJ	380.0	MLDR130923001	9/23/2013 11:32:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	41	J		MLDR130923001	9/23/2013 11:32:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	41.1	J		MLDR130923001	9/23/2013 11:32:00 AM	CR

14ML0105 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-084-1/1.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	26	J		MLDR130923001	9/23/2013 11:32:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	25.6	J		MLDR130923001	9/23/2013 11:32:00 AM	CR
PCBs-dry	PCB-1016	0.0	UJ	330.0	MLDR130923001	9/23/2013 11:32:00 AM	CR
PCBs-dry	PCB-1232	0.0	UJ	330.0	MLDR130923001	9/23/2013 11:32:00 AM	CR
PCBs-dry	PCB-1242	0.0	UJ	330.0	MLDR130923001	9/23/2013 11:32:00 AM	CR
PCBs-dry	PCB-1248	0.0	UJ	330.0	MLDR130923001	9/23/2013 11:32:00 AM	CR
PCBs-dry	PCB-1254	0.0	UJ	330.0	MLDR130923001	9/23/2013 11:32:00 AM	CR
PCBs-dry	PCB-1260	0.0	UJ	330.0	MLDR130923001	9/23/2013 11:32:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	41	J		MLDR130923001	9/23/2013 11:32:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	40.9	J		MLDR130923001	9/23/2013 11:32:00 AM	CR

14ML0106 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-085-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	72			MLDR130923001	9/23/2013 11:33:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	71.7			MLDR130923001	9/23/2013 11:33:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	280.0	MLDR130923001	9/23/2013 11:33:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	280.0	MLDR130923001	9/23/2013 11:33:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	280.0	MLDR130923001	9/23/2013 11:33:00 AM	CR
PCBs-dry	PCB-1248	3400		280.0	MLDR130923001	9/23/2013 11:33:00 AM	CR
PCBs-dry	PCB-1254	2200		280.0	MLDR130923001	9/23/2013 11:33:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	280.0	MLDR130923001	9/23/2013 11:33:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	81			MLDR130923001	9/23/2013 11:33:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	80.7			MLDR130923001	9/23/2013 11:33:00 AM	CR

14ML0107 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-086-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	55			MLDR130923001	9/23/2013 11:34:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	54.8			MLDR130923001	9/23/2013 11:34:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	250.0	MLDR130923001	9/23/2013 11:34:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	250.0	MLDR130923001	9/23/2013 11:34:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	250.0	MLDR130923001	9/23/2013 11:34:00 AM	CR
PCBs-dry	PCB-1248	1500		250.0	MLDR130923001	9/23/2013 11:34:00 AM	CR
PCBs-dry	PCB-1254	0.0	U	250.0	MLDR130923001	9/23/2013 11:34:00 AM	CR

14ML0107 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-086-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	PCB-1260	0.0	U	250.0	MLDR130923001	9/23/2013 11:34:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	64			MLDR130923001	9/23/2013 11:34:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	64.1			MLDR130923001	9/23/2013 11:34:00 AM	CR

14ML0108 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-087-0/0.5**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	69			MLDR130923001	9/23/2013 11:34:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	58.7			MLDR130923001	9/23/2013 11:34:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	260.0	MLDR130923001	9/23/2013 11:34:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	260.0	MLDR130923001	9/23/2013 11:34:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	260.0	MLDR130923001	9/23/2013 11:34:00 AM	CR
PCBs-dry	PCB-1248	840		260.0	MLDR130923001	9/23/2013 11:34:00 AM	CR
PCBs-dry	PCB-1254	750		260.0	MLDR130923001	9/23/2013 11:34:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	260.0	MLDR130923001	9/23/2013 11:34:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	61			MLDR130923001	9/23/2013 11:34:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	61.1			MLDR130923001	9/23/2013 11:34:00 AM	CR

14ML0109 **Collection Date** 09/19/2013 **Sampled By:**

Sample Description: **TMD-SO-087-0/0.5-FD**

Units are ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs-dry	Decachlorobiphenyl	58			MLDR130923001	9/23/2013 11:35:00 AM	CR
PCBs-dry	Decachlorobiphenyl %R	57.5			MLDR130923001	9/23/2013 11:35:00 AM	CR
PCBs-dry	PCB-1016	0.0	U	300.0	MLDR130923001	9/23/2013 11:35:00 AM	CR
PCBs-dry	PCB-1232	0.0	U	300.0	MLDR130923001	9/23/2013 11:35:00 AM	CR
PCBs-dry	PCB-1242	0.0	U	300.0	MLDR130923001	9/23/2013 11:35:00 AM	CR
PCBs-dry	PCB-1248	760		300.0	MLDR130923001	9/23/2013 11:35:00 AM	CR
PCBs-dry	PCB-1254	690		300.0	MLDR130923001	9/23/2013 11:35:00 AM	CR
PCBs-dry	PCB-1260	0.0	U	300.0	MLDR130923001	9/23/2013 11:35:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene	66			MLDR130923001	9/23/2013 11:35:00 AM	CR
PCBs-dry	Tetrachloro-m-xylene %R	65.6			MLDR130923001	9/23/2013 11:35:00 AM	CR

MLDE130920003Bln01 **Collection Date** 09/20/2013 **Sampled By:** TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs-dry	Decachlorobiphenyl	110			MLDR130923001		CR
Method Blank-PCBs-dry	Decachlorobiphenyl %R	107			MLDR130923001		CR
Method Blank-PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130923001		CR
Method Blank-PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130923001		CR
Method Blank-PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130923001		CR
Method Blank-PCBs-dry	PCB-1248	0.0	U	330.0	MLDR130923001		CR

MLDE130920003Bln01 **Collection Date** 09/20/2013 **Sampled By:** TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs-dry	PCB-1254	0.0	U	330.0	MLDR130923001		CR
Method Blank-PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130923001		CR
Method Blank-PCBs-dry	Tetrachloro-m-xylene	100			MLDR130923001		CR
Method Blank-PCBs-dry	Tetrachloro-m-xylene %R	104			MLDR130923001		CR

MLDE130920003Bln02 **Collection Date** 09/23/2013 **Sampled By:** TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs-dry	Decachlorobiphenyl	110			MLDR130923001		CR
Method Blank-PCBs-dry	Decachlorobiphenyl %R	107			MLDR130923001		CR
Method Blank-PCBs-dry	PCB-1016	0.0	U	330.0	MLDR130923001		CR
Method Blank-PCBs-dry	PCB-1232	0.0	U	330.0	MLDR130923001		CR
Method Blank-PCBs-dry	PCB-1242	0.0	U	330.0	MLDR130923001		CR
Method Blank-PCBs-dry	PCB-1248	0.0	U	330.0	MLDR130923001		CR
Method Blank-PCBs-dry	PCB-1254	0.0	U	330.0	MLDR130923001		CR
Method Blank-PCBs-dry	PCB-1260	0.0	U	330.0	MLDR130923001		CR
Method Blank-PCBs-dry	Tetrachloro-m-xylene	110			MLDR130923001		CR
Method Blank-PCBs-dry	Tetrachloro-m-xylene %R	108			MLDR130923001		CR

Approved:
Quality Control Officer

Attachment 2

TechLaw
Quality & Integrity

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-2964
(312) 353-8307 (Fax)
www.techlawinc.com

Print Date: 9/30/2013

Subject: Review of Region 5 Data for 10 Mile Drain

From: Michele Traina, Chemist
Contractor to Region 5 Central Regional Laboratory
Submitted to CRL on

To: Superfund, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

Attached are Results for: 10 Mile Drain

Analyses included in this report:

PCB by ASE

Sylvia Griffin 11-12-13P01:36 RCVD

Data Management Coordinator and Date Received

11-12-13P01:36 RCVD

Date Transmitted: ____/____/_____

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

_____/____/_____

Received by and Date

Comments:

TechLaw
Quality & Integrity

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-2964
(312) 353-5814 (Fax)
www.techlawinc.com

Date: 10/30/2013

To: Dr. Whipple, ESAT Organic Analysis TOPO

From: Michele Traina, ESAT Chemist Michele Traina

Copies: Steve Peterson, EPA Project Officer, ESAT

Ref: TDF# 5-419-055, 5-0001-2-002

Techlaw Job# 03037.5.19.02.02.B5BP.000.055;
03074.1.01.202.1A.B5BP.00.0002

Contract # EP-W-06-031;
EP-W-13-025

Subject: Data Set for 10 Mile Drain E130905-01 through -10 for PCB analysis by GC using CRL SOP GC002 rev 4.

Attached are the deliverables for the analysis of ten (10) soil samples for PCBs by ASE extraction method. Included in the deliverables are the case narrative, raw results and Excel spreadsheets. All logbook pages have been provided in the following attachment.

The raw data, final report and other pertinent information are archived on:

R5CRL\VOL2\IITRI-PCB_PEST\MTraina\2013\10 Mile Drain\E130905

If you have any questions please feel free to contact me.

Thank you,

Michele Traina,
Techlaw ESAT Chemist
312-353-2735

Environmental Protection Agency Office of Emergency and Remedial Response TECHNICAL DIRECTION FORM (TDF)	Contract No. EP-W-06-031 Contractor: TechLaw, Inc./ESAT Task Order No. R05-4-419 TDF No. 5-419-055 03037.5.19.02.02.B5BP.000.055

Task Order Project Officer	Wayne Whipple	Phone	(312)353-9063

Superfund Site Name: 10 Mile Drain (RI/B5BPLA00)

Superfund Site ID #: (PRC Code 303DD2)

Start Date: September 20, 2013 Completion Date: October 15, 2013
Total hours required: 60 hours

Analyzed 17 soil samples received on June 11, 2013 for PCBs following appropriate CRL SOPs for sample prep., cleanup, and GC/ECD analysis.

Provide Preliminary EDD results to client in 72 hours.

DELIVERABLE:
The data set should be completed and assembled according to CRL guidelines. The data must be internally reviewed by ESAT following the CRL SOPs prior to delivering to the TOPO. The contractor shall immediately notify the PO and TOPO as soon as it appears that the task may not be completed within the scheduled dates and hours. A breakdown of hours spent for each part of the TDF should be provided with the data package.

Update standard and instrument maintenance logbooks after each preparation and analysis. Bring instruments back to original working condition after analysis completed. Notify the TOPO any instrumental problems that may need services from manufactures. Get TOPO's permission before switching any instrument parts. Inform the TOPO any standard inventory that is less than three vials. Clean the bench area, discard the broken glassware, change the gas tank if it is close to empty, and return the standard vials to refrigerators or designated areas immediately after analysis is complete. Return samples to custody as soon as analysis is complete. Discard prepared samples within two working days of notification of the ESAT Team Manager of acceptance of the data by CRL.

PO APPROVAL: *Steven Peterson* Date: 09/23/2013

I CERTIFY THAT THIS TECHNICAL DIRECTIVE DOES NOT REQUEST SERVICES THAT ARE INHERENTLY GOVERNMENTAL FUNCTIONS AND THAT IT DOES NOT ALTER THE (1) STATEMENT OF WORK, (2) LEVEL OF EFFORT, (3) COST OF PERFORMING THE AUTHORIZED WORK, (4) NUMBER OF DELIVERABLES, OR (5) THE DUE DATES OF DELIVERABLES FOR THE ABOVE REFERENCED TASK ORDER.

TOPO Signature _____ Date September , 2013

Original to Contractor
cc: TOPO file Project Officer Contracting Officer

Environmental Protection Agency
Office of Emergency and Remedial Response

TECHNICAL DIRECTION FORM (TDF)

Contract No. EP-W-13-025

Contractor: TechLaw, Inc./ESAT

Task Order No. R05-0-0001

Task Area: 2

TDF No. 5-0001-2-002
03074.1.01.202.1A.B5BP.00.0002

Task Order Project Officer	Wayne J. Whipple	Phone	(312)353-9063

Superfund Site Name: 10 Mile Drain (RI/B5BPLA00)

Superfund Site ID # B5BPLA00: (PRC Code 303DD2)

Start Date: October 22, 2013 Completion Date: November 7, 2013
Total hours required: 30 hours

TASK DESCRIPTION:

Analyzed 17 soil samples received on June 11, 2013 for PCBs following appropriate CRL SOPs for sample prep., cleanup, and GC/ECD analysis.

Provide Preliminary EDD results to client in 72 hours.

DELIVERABLE:

The contractor shall immediately notify the PO and TOPO as soon as it appears that the task may not be completed within the scheduled dates and hours. A breakdown of hours spent for project should be provided.

Update standard and instrument maintenance logbooks after each preparation and analysis. Bring instruments back to original working condition after analysis completed. Notify the TOPO any instrumental problems that may need services from manufactures. Get TOPO's permission before switching any instrument parts. Inform the TOPO any standard inventory that is less than three vials. Clean the bench area, discard the broken glassware, change the gas tank if it is close to empty, and return the standard vials to refrigerators or designated areas immediately after analysis is complete. Return samples to custody as soon as analysis is complete. Discard prepared samples within two working days of notification of the ESAT Team Manager of acceptance of the data by CRL.

PO APPROVAL Date:

I CERTIFY THAT THIS TECHNICAL DIRECTIVE DOES NOT REQUEST SERVICES THAT ARE INHERENTLY GOVERNMENTAL FUNCTIONS AND THAT IT DOES NOT ALTER THE (1) STATEMENT OF WORK, (2) LEVEL OF EFFORT, (3) COST OF PERFORMING THE AUTHORIZED WORK, (4) NUMBER OF DELIVERABLES, OR (5) THE DUE DATES OF DELIVERABLES FOR THE ABOVE REFERENCED TASK ORDER.

TOPO Signature Wayne J Whipple Date October 22, 2013

Original to Contractor
cc: TOPO file Project Officer Contracting Officer

TechLaw
Quality & Integrity

105 W. Madison Street, Suite 900
Chicago, IL 60602
(312) 345-8990
(312) 345-8979 (Fax)
www.techlawinc.com

WORK ORDER

Printed: 9/23/2013 7:54:51AM

E130905

TechLaw - ESAT Contract

Client: Superfund, US EPA Region 5
Project: 10 Mile Drain

Project Manager: James D. Burden
Project Number: [none]

Report To:
Howard Pham
Superfund, US EPA Region 5

77 West Jackson Boulevard
Chicago, IL 60604

Phone: (312) 353-2310
Fax: (312) 886-6171

Date Due: Oct-21-13 15:00 (30 day TAT)
Received By: Thomas E Sedlacek Sr
Logged In By: Stephen Connet

Date Received: Sep-20-13 10:20
Date Logged In: Sep-20-13 12:46

Samples Received at:	4.3°C
Custody Seals	Yes
Containers Intact	Yes
COC/Labels Agree	Yes
Preservation Confirmed	Yes

Analysis	Due	TAT	Expires	Comments
E130905-01 TMD-SO-059-2.5/3 Split [Soil] Sampled Sep-10-13 10:58 Eastern				**13CD07-74**
PCB by ASE	Oct-21-13 12:00	30	Sep-24-13 09:58	
Solids, Dry Weight	Sep-30-13 12:00	10	Sep-17-13 09:58	
E130905-02 TMD-SO-060-0/0.5R3 Split [Soil] Sampled Sep-10-13 16:40 Eastern				**13CD07-83**
PCB by ASE	Oct-21-13 12:00	30	Sep-24-13 15:40	
Solids, Dry Weight	Sep-30-13 12:00	10	Sep-17-13 15:40	
E130905-03 TMD-SO-063-0/0.5 Split [Soil] Sampled Sep-11-13 13:34 Eastern				**13CD07-94**
PCB by ASE	Oct-21-13 12:00	30	Sep-25-13 12:34	
Solids, Dry Weight	Sep-30-13 12:00	10	Sep-18-13 12:34	
E130905-04 TMD-SO-066-1/1.5 Split [Soil] Sampled Sep-12-13 10:32 Eastern				**13CD08-07**
Solids, Dry Weight	Sep-30-13 12:00	10	Sep-19-13 09:32	
PCB by ASE	Oct-21-13 12:00	30	Sep-26-13 09:32	
E130905-05 TMD-SO-069-1/1.5 Split [Soil] Sampled Sep-13-13 12:31 Eastern				**13CD08-18**
Solids, Dry Weight	Sep-30-13 12:00	10	Sep-20-13 11:31	
PCB by ASE	Oct-21-13 12:00	30	Sep-27-13 11:31	
E130905-06 TMD-SO-074-0/0.5R1 Split [Soil] Sampled Sep-16-13 13:39 Eastern				**13CD08-34**
Solids, Dry Weight	Sep-30-13 12:00	10	Sep-23-13 12:39	
PCB by ASE	Oct-21-13 12:00	30	Sep-30-13 12:39	

E130905

TechLaw - ESAT Contract

Client:	**Superfund, US EPA Region 5**	**Project Manager:**	**James D. Burden**
Project:	**10 Mile Drain**	**Project Number:**	**[none]**

Analysis	Due	TAT	Expires	Comments
E130905-07 TMD-SO-074-1/1.5R2 Split [Soil] Sampled Sep-16-13 13:59 Eastern				**13CD08-40**
Solids, Dry Weight	Sep-30-13 12:00	10	Sep-23-13 12:59	
PCB by ASE	Oct-21-13 12:00	30	Sep-30-13 12:59	
E130905-08 TMD-SO-077-2.5/3 Split [Soil] Sampled Sep-17-13 14:17 Eastern				**13CD08-53**
Solids, Dry Weight	Sep-30-13 12:00	10	Sep-24-13 13:17	
PCB by ASE	Oct-21-13 12:00	30	Oct-01-13 13:17	
E130905-09 TMD-SO-079-1/1.5 Split [Soil] Sampled Sep-19-13 12:53 Eastern				**13CD08-66**
Solids, Dry Weight	Sep-30-13 12:00	10	Sep-26-13 11:53	
PCB by ASE	Oct-21-13 12:00	30	Oct-03-13 11:53	
E130905-10 TMD-SO-084-0/0.5 Split [Soil] Sampled Sep-19-13 16:34 Eastern				**13CD08-77**
Solids, Dry Weight	Sep-30-13 12:00	10	Sep-26-13 15:34	
PCB by ASE	Oct-21-13 12:00	30	Oct-03-13 15:34	

Reviewed By

Date 9/24/13

Case Narrative & LIMS Analytical Report

CASE NARRATIVE

DATE: 09/27/2013
PROJECT NAME: 10 Mile Drain PCB ASE
DATA SET NUMBER: E130905
ANALYST(s): Michele Traina, ESAT

I. CASE DESCRIPTION:

ESAT was tasked with the extraction and analysis of ten (10) soils for Aroclors. The samples were ASE extracted on September 23, 2013 according to CRL SOP GC013 rev 2.1. All samples underwent acid cleanup according to CRL SOP GC016 rev 3. Samples were analyzed on September 25-26, 2013 according to CRL SOP GC002 rev 4. All analyses were within holding time criteria. The data was reviewed according to CRL SOP GEN016 rev 5.1.

II. INSTRUMENT QUALITY CONTROLS:

1. Initial Calibration

An acceptable ICAL is required before analyses of any target analytes. An Aroclor-1248 ICAL and an Aroclor-1254 ICAL were analyzed on 09/25/13. The surrogates (TCMX and DCB) were reported using the Aroclor-1248 calibration. All reported Aroclors are acceptable, therefore no qualifications are necessary.

III. SAMPLE QUALITY CONTROLS:

1. Surrogate (TCMX/DCB):

Samples E130905-07 (805.8%) and E130905-10 (160.2%) have surrogate recoveries for DCB outside the control limits (56.9-149%). No qualifications are necessary since the recovery for TCMX is within the control limits.

IV. SAMPLE RESULTS: Sample results reported in ug/kg.

Results on the second column are used for Aroclor pattern confirmation only, therefore no qualifications are applied to the samples. Quality control measures for the primary column (reported values) are discussed in this narrative.

All BS/BSD and MS/MSD samples were spiked with Aroclor-1248, as that was the expected Aroclor based on site history.

The surrogates (TCMX and DCB) were reported using the Aroclor-1248 calibration.

The identification of both Aroclor patterns 1248 and 1254 in these samples poses a unique challenge in quantitation, as 1248 and 1254 share approximately 60% of the middle congeners. Careful review of the sample data and chromatogram clearly showed a weathered 1248 pattern with early eluting compounds found only in 1248, as well as, later eluting components only found in 1254. Care was taken to select peaks in the calibration that minimize the effect of the chromatographic overlap on quantitation. However, it is possible that this causes a positive bias in the results. It was felt this option presented a result that is more representative of the PCB material found in the actual sample. The alternative would be to quantitate the 1248 pattern as the major component, but that would likely result in a significant low bias, due to not accounting for the late eluting 1254 material, which contributes to the total Aroclor concentration of the contamination present. (Total Aroclor =1248+1254 concentration in this instance).

An experienced GC chemist examined the chromatograms for each sample to determine if any of the Aroclors on the analyte list were present.

The following Lims IDs were created for reporting purposes only.

Acid Clean-up QC analyzed on 09/25/13:
Acid Clean-up Blank – EI32302-BLK2
Acid Clean-up Spike – EI32302-BS2

E130905-01 is the source for the MS/MSD analyses.

Aroclors-1248 and 1254 in sample E130905-03 were reported at a 10X dilution.

Aroclor-1248 in sample E130905-05 was reported at a 5X dilution.

The aroclor patterns present in the samples show signs of degradation.

Quality control measures not specifically discussed in this narrative met all quality criteria stated in the SOP.

Analytical data packages prepared by the EPA Region 5 Chicago Regional Laboratory (CRL) or the Superfund ESAT contractors working in our space are verified in accordance with the CRL Quality Management Plan or ESAT Quality Management Plan, respectively. CRL and ESAT data reports in the final analytical data package include the data qualifiers assigned through our data verification processes, as well as an explanation of the data qualifiers assigned by the scientists who performed the analyses as well as the chemist that conducted the data verification. This report narrative, which explains quality control outliers and other significant issues affecting data quality, is provided. This information constitutes the Region 5 CRL and ESAT processes that are equivalent to the data validation report provided with Contract Laboratory Program (CLP) data packages.

Manual Calculation E130905-02 Aroclor-1248

SOIL	Column#1	Response	A1248_092513.M	
1248	ICAL analyte1	2.467E+05		
	ICAL analyte2	2.878E+05		
GC#4	ICAL analyte3	2.256E+05		
	ICAL analyte4	5.233E+05		
	ICAL analyte5	2.959E+05		
	ICAL analyte6	2.620E+05		
	ICAL analyte7	1.954E+05		
	ICAL analyte8	2.292E+05		
	Total Response	2.266E+06		
	Avg Response (RF)	2.832E+05		
E130905-02	**Column#1**	**Response**	**Concentration**	**ng/mL**
	Sample analyte1	2.34E+07	9.468E+01	94.682
	Sample analyte2	7.34E+07	2.549E+02	254.947
	Sample analyte3	8.09E+07	3.587E+02	358.690
	Sample analyte4	1.36E+08	2.603E+02	260.271
	Sample analyte5	1.36E+08	4.610E+02	460.967
	Sample analyte6	2.22E+08	8.477E+02	847.710
	Sample analyte7	2.18E+08	1.115E+03	1114.637
	Sample analyte8	2.35E+08	1.026E+03	1026.178
	Total Response	1.125E+09	Total Conc ng/mL	4418.082
	Avg Response (AR)	1.407E+08	Avg Conc ng/mL (AR / RF)	552.260
			Avg Conc ug/mL (C)	0.552
FV = 10mL				
Df = 1			Sample Conc mg/Kg	0.61949
D = 0.874			Sample Conc ug/Kg	619.49
W = 10.20g			**LIMS Sample Conc ug/Kg**	**619**

C = (AR / RF)

(C / D) * (FV / W) * Df

(0.552/ 0.874) * (10 / 10.20) * 1

C = Sample Concentration (ug/mL)
AR = Average Response of Analyte
RF = ICAL Response Factor
D = % Dry Solids / 100
FV = Final Volume of Sample (mL)
W = Sample Weight (g)
Df = Dilution Factor

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-2964
(312) 353-8307 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: 10 Mile Drain	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Sep-30-13 13:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TMD-SO-059-2.5/3 Split	E130905-01	Soil	Sep-10-13 10:58	Sep-20-13 10:20
TMD-SO-060-0/0.5R3 Split	E130905-02	Soil	Sep-10-13 16:40	Sep-20-13 10:20
TMD-SO-063-0/0.5 Split	E130905-03	Soil	Sep-11-13 13:34	Sep-20-13 10:20
TMD-SO-066-1/1.5 Split	E130905-04	Soil	Sep-12-13 10:32	Sep-20-13 10:20
TMD-SO-069-1/1.5 Split	E130905-05	Soil	Sep-13-13 12:31	Sep-20-13 10:20
TMD-SO-074-0/0.5R1 Split	E130905-06	Soil	Sep-16-13 13:39	Sep-20-13 10:20
TMD-SO-074-1/1.5R2 Split	E130905-07	Soil	Sep-16-13 13:59	Sep-20-13 10:20
TMD-SO-077-2.5/3 Split	E130905-08	Soil	Sep-17-13 14:17	Sep-20-13 10:20
TMD-SO-079-1/1.5 Split	E130905-09	Soil	Sep-19-13 12:53	Sep-20-13 10:20
TMD-SO-084-0/0.5 Split	E130905-10	Soil	Sep-19-13 16:34	Sep-20-13 10:20

Michele Traina, Chemist

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-2964
(312) 353-8307 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: 10 Mile Drain	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Sep-30-13 13:45

PCB/Pesticide by GC/ECD

TechLaw - ESAT Contract

TMD-SO-059-2.5/3 Split (E130905-01) Soil Sampled: Sep-10-13 10:58 Received: Sep-20-13 10:20

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: Decachlorobiphenyl	22.2			*104 %*		*56.9-149*	*EI32302*	*Sep-23-13*	*Sep-25-13*
Surrogate: Tetrachloro-meta-xylene	19.2			*90.4 %*		*33.5-135*	"	"	"
PCB-1016	U		18.1	106	"	"	"	"	"
PCB-1221	U		18.1	106	"	"	"	"	"
PCB-1232	U		18.1	106	"	"	"	"	"
PCB-1242	U		18.1	106	"	"	"	"	"
PCB-1248	**43.5**	J	18.1	106	"	"	"	"	"
PCB-1254	U		18.1	106	"	"	"	"	"
PCB-1260	U		18.1	106	"	"	"	"	"
PCB-1262	U		18.1	106	"	"	"	"	"
PCB-1268	U		18.1	106	"	"	"	"	"

TMD-SO-060-0/0.5R3 Split (E130905-02) Soil Sampled: Sep-10-13 16:40 Received: Sep-20-13 10:20

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: Decachlorobiphenyl	24.9			*111 %*		*56.9-149*	*EI32302*	*Sep-23-13*	*Sep-25-13*
Surrogate: Tetrachloro-meta-xylene	21.1			*94.1 %*		*33.5-135*	"	"	"
PCB-1016	U		19.1	112	"	"	"	"	"
PCB-1221	U		19.1	112	"	"	"	"	"
PCB-1232	U		19.1	112	"	"	"	"	"
PCB-1242	U		19.1	112	"	"	"	"	"
PCB-1248	**619**		19.1	112	"	"	"	"	"
PCB-1254	**341**		19.1	112	"	"	"	"	"
PCB-1260	U		19.1	112	"	"	"	"	"
PCB-1262	U		19.1	112	"	"	"	"	"
PCB-1268	U		19.1	112	"	"	"	"	"

Michele Traina, Chemist

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-2964
(312) 353-8307 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: 10 Mile Drain	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Sep-30-13 13:45

PCB/Pesticide by GC/ECD

TechLaw - ESAT Contract

TMD-SO-063-0/0.5 Split (E130905-03) Soil Sampled: Sep-11-13 13:34 Received: Sep-20-13 10:20

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: Decachlorobiphenyl	31.8			*144 %*		*56.9-149*	*EI32302*	*Sep-23-13*	*Sep-25-13*
Surrogate: Tetrachloro-meta-xylene	24.8			*112 %*		*33.5-135*	"	"	"
PCB-1016	**U**		18.9	111	"	"	"	"	"
PCB-1221	**U**		18.9	111	"	"	"	"	"
PCB-1232	**U**		18.9	111	"	"	"	"	"
PCB-1242	**U**		18.9	111	"	"	"	"	"
PCB-1248	**16900**		189	1110	"	10	"	"	Sep-25-13
PCB-1254	**6120**		189	1110	"	"	"	"	"
PCB-1260	**U**		18.9	111	"	1	"	"	Sep-25-13
PCB-1262	**U**		18.9	111	"	"	"	"	"
PCB-1268	**U**		18.9	111	"	"	"	"	"

TMD-SO-066-1/1.5 Split (E130905-04) Soil Sampled: Sep-12-13 10:32 Received: Sep-20-13 10:20

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: Decachlorobiphenyl	27.7			*117 %*		*56.9-149*	*EI32302*	*Sep-23-13*	*Sep-25-13*
Surrogate: Tetrachloro-meta-xylene	21.4			*90.8 %*		*33.5-135*	"	"	"
PCB-1016	**U**		20.0	118	"	"	"	"	"
PCB-1221	**U**		20.0	118	"	"	"	"	"
PCB-1232	**U**		20.0	118	"	"	"	"	"
PCB-1242	**U**		20.0	118	"	"	"	"	"
PCB-1248	**979**		20.0	118	"	"	"	"	"
PCB-1254	**390**		20.0	118	"	"	"	"	"
PCB-1260	**U**		20.0	118	"	"	"	"	"
PCB-1262	**U**		20.0	118	"	"	"	"	"
PCB-1268	**U**		20.0	118	"	"	"	"	"

Michele Traina, Chemist

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-2964
(312) 353-8307 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: 10 Mile Drain	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Sep-30-13 13:45

PCB/Pesticide by GC/ECD
TechLaw - ESAT Contract

TMD-SO-069-1/1.5 Split (E130905-05) Soil Sampled: Sep-13-13 12:31 Received: Sep-20-13 10:20

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: Decachlorobiphenyl	18.4			*81.1 %*		*56.9-149*	*EI32302*	*Sep-23-13*	*Sep-25-13*
Surrogate: Tetrachloro-meta-xylene	16.5			*72.7 %*		*33.5-135*	"	"	"
PCB-1016	**U**		19.3	113	"	"	"	"	"
PCB-1221	**U**		19.3	113	"	"	"	"	"
PCB-1232	**U**		19.3	113	"	"	"	"	"
PCB-1242	**U**		19.3	113	"	"	"	"	"
PCB-1248	**3740**		96.3	567	"	5	"	"	Sep-26-13
PCB-1254	**1770**		19.3	113	"	1	"	"	Sep-25-13
PCB-1260	**U**		19.3	113	"	"	"	"	"
PCB-1262	**U**		19.3	113	"	"	"	"	"
PCB-1268	**U**		19.3	113	"	"	"	"	"

TMD-SO-074-0/0.5R1 Split (E130905-06) Soil Sampled: Sep-16-13 13:39 Received: Sep-20-13 10:20

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: Decachlorobiphenyl	27.6			*125 %*		*56.9-149*	*EI32302*	*Sep-23-13*	*Sep-26-13*
Surrogate: Tetrachloro-meta-xylene	21.9			*99.0 %*		*33.5-135*	"	"	"
PCB-1016	**U**		18.8	111	"	"	"	"	"
PCB-1221	**U**		18.8	111	"	"	"	"	"
PCB-1232	**U**		18.8	111	"	"	"	"	"
PCB-1242	**U**		18.8	111	"	"	"	"	"
PCB-1248	**1280**		18.8	111	"	"	"	"	"
PCB-1254	**900**		18.8	111	"	"	"	"	"
PCB-1260	**U**		18.8	111	"	"	"	"	"
PCB-1262	**U**		18.8	111	"	"	"	"	"
PCB-1268	**U**		18.8	111	"	"	"	"	"

Michele Traina, Chemist

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-2964
(312) 353-8307 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: 10 Mile Drain	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Sep-30-13 13:45

PCB/Pesticide by GC/ECD
TechLaw - ESAT Contract

TMD-SO-074-1/1.5R2 Split (E130905-07) Soil Sampled: Sep-16-13 13:59 Received: Sep-20-13 10:20

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: Decachlorobiphenyl	178			*806 %*		*56.9-149*	*EI32302*	*Sep-23-13*	*Sep-26-13*
Surrogate: Tetrachloro-meta-xylene	21.1			*95.6 %*		*33.5-135*	"	"	"
PCB-1016	U		18.8	110	"	"	"	"	"
PCB-1221	U		18.8	110	"	"	"	"	"
PCB-1232	U		18.8	110	"	"	"	"	"
PCB-1242	U		18.8	110	"	"	"	"	"
PCB-1248	U		18.8	110	"	"	"	"	"
PCB-1254	306		18.8	110	"	"	"	"	"
PCB-1260	U		18.8	110	"	"	"	"	"
PCB-1262	U		18.8	110	"	"	"	"	"
PCB-1268	U		18.8	110	"	"	"	"	"

TMD-SO-077-2.5/3 Split (E130905-08) Soil Sampled: Sep-17-13 14:17 Received: Sep-20-13 10:20

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: Decachlorobiphenyl	25.3			*118 %*		*56.9-149*	*EI32302*	*Sep-23-13*	*Sep-26-13*
Surrogate: Tetrachloro-meta-xylene	19.6			*91.5 %*		*33.5-135*	"	"	"
PCB-1016	U		18.2	107	"	"	"	"	"
PCB-1221	U		18.2	107	"	"	"	"	"
PCB-1232	U		18.2	107	"	"	"	"	"
PCB-1242	U		18.2	107	"	"	"	"	"
PCB-1248	238		18.2	107	"	"	"	"	"
PCB-1254	91.5	J	18.2	107	"	"	"	"	"
PCB-1260	U		18.2	107	"	"	"	"	"
PCB-1262	U		18.2	107	"	"	"	"	"
PCB-1268	U		18.2	107	"	"	"	"	"

Michele Traina, Chemist

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-2964
(312) 353-8307 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: 10 Mile Drain	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Sep-30-13 13:45

PCB/Pesticide by GC/ECD
TechLaw - ESAT Contract

TMD-SO-079-1/1.5 Split (E130905-09) Soil Sampled: Sep-19-13 12:53 Received: Sep-20-13 10:20

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: Decachlorobiphenyl	26.2			*116 %*		*56.9-149*	*EI32302*	*Sep-23-13*	*Sep-26-13*
Surrogate: Tetrachloro-meta-xylene	19.8			*87.8 %*		*33.5-135*	"	"	"
PCB-1016	U		19.2	113	"	"	"	"	"
PCB-1221	U		19.2	113	"	"	"	"	"
PCB-1232	U		19.2	113	"	"	"	"	"
PCB-1242	U		19.2	113	"	"	"	"	"
PCB-1248	U		19.2	113	"	"	"	"	"
PCB-1254	U		19.2	113	"	"	"	"	"
PCB-1260	U		19.2	113	"	"	"	"	"
PCB-1262	U		19.2	113	"	"	"	"	"
PCB-1268	U		19.2	113	"	"	"	"	"

TMD-SO-084-0/0.5 Split (E130905-10) Soil Sampled: Sep-19-13 16:34 Received: Sep-20-13 10:20

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: Decachlorobiphenyl	35.7			*160 %*		*56.9-149*	*EI32302*	*Sep-23-13*	*Sep-26-13*
Surrogate: Tetrachloro-meta-xylene	21.7			*97.2 %*		*33.5-135*	"	"	"
PCB-1016	U		19.0	111	"	"	"	"	"
PCB-1221	U		19.0	111	"	"	"	"	"
PCB-1232	U		19.0	111	"	"	"	"	"
PCB-1242	U		19.0	111	"	"	"	"	"
PCB-1248	U		19.0	111	"	"	"	"	"
PCB-1254	U		19.0	111	"	"	"	"	"
PCB-1260	U		19.0	111	"	"	"	"	"
PCB-1262	U		19.0	111	"	"	"	"	"
PCB-1268	U		19.0	111	"	"	"	"	"

Michele Traina, Chemist

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-2964
(312) 353-8307 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: 10 Mile Drain	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Sep-30-13 13:45

PCB/Pesticide by GC/ECD - Quality Control
TechLaw - ESAT Contract

Batch EI32302 - EPA 3545 ASE

Blank (EI32302-BLK1) **Prepared: Sep-23-13 Analyzed: Sep-25-13**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Tetrachloro-meta-xylene	*14.0*				*ug/kg wet*	*19.1*		*73.4*	*33.5-135*		
Surrogate: Decachlorobiphenyl	*16.7*				"	*19.1*		*87.6*	*56.9-149*		
PCB-1016	U		16.2	95.3	"						
PCB-1221	U		16.2	95.3	"						
PCB-1232	U		16.2	95.3	"						
PCB-1242	U		16.2	95.3	"						
PCB-1248	U		16.2	95.3	"						
PCB-1254	U		16.2	95.3	"						
PCB-1260	U		16.2	95.3	"						
PCB-1262	U		16.2	95.3	"						
PCB-1268	U		16.2	95.3	"						

Blank (EI32302-BLK2) **Prepared: Sep-23-13 Analyzed: Sep-25-13**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Tetrachloro-meta-xylene	*22.9*				*ug/kg wet*	*20.0*		*114*	*33.5-135*		
Surrogate: Decachlorobiphenyl	*23.7*				"	*20.0*		*118*	*56.9-149*		
PCB-1016	U		17.0	100	"						
PCB-1221	U		17.0	100	"						
PCB-1232	U		17.0	100	"						
PCB-1242	U		17.0	100	"						
PCB-1248	U		17.0	100	"						
PCB-1254	U		17.0	100	"						
PCB-1260	U		17.0	100	"						
PCB-1262	U		17.0	100	"						
PCB-1268	U		17.0	100	"						

LCS (EI32302-BS1) **Prepared: Sep-23-13 Analyzed: Sep-25-13**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Tetrachloro-meta-xylene	*19.1*				*ug/kg wet*	*19.6*		*97.3*	*33.5-135*		
Surrogate: Decachlorobiphenyl	*19.8*				"	*19.6*		*101*	*56.9-149*		

Michele Traina, Chemist

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-2964
(312) 353-8307 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: 10 Mile Drain	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Sep-30-13 13:45

PCB/Pesticide by GC/ECD - Quality Control
TechLaw - ESAT Contract

Batch EI32302 - EPA 3545 ASE

LCS (EI32302-BS1) **Prepared: Sep-23-13 Analyzed: Sep-25-13**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
PCB-1016	U		16.7	98.1	ug/kg wet				24.4-164		
PCB-1248	**1020**		16.7	98.1	"	980		104	50-150		
PCB-1260	U		16.7	98.1	"				30.1-180		

LCS (EI32302-BS2) **Prepared: Sep-23-13 Analyzed: Sep-25-13**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Tetrachloro-meta-xylene	*23.2*				*ug/kg wet*	*20.0*		*116*	*33.5-135*		
Surrogate: Decachlorobiphenyl	*24.3*				"	*20.0*		*121*	*56.9-149*		
PCB-1016	U		17.0	100	"				24.4-164		
PCB-1248	**1320**		17.0	100	"	999		132	50-150		
PCB-1260	U		17.0	100	"				30.1-180		

LCS Dup (EI32302-BSD1) **Prepared: Sep-23-13 Analyzed: Sep-25-13**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Tetrachloro-meta-xylene	*15.9*				*ug/kg wet*	*18.9*		*84.1*	*33.5-135*		
Surrogate: Decachlorobiphenyl	*15.8*				"	*18.9*		*83.9*	*56.9-149*		
PCB-1016	U		16.0	94.3	"				24.4-164		30
PCB-1248	**841**		16.0	94.3	"	942		89.3	50-150	19.2	30
PCB-1260	U		16.0	94.3	"				30.1-180		30

Matrix Spike (EI32302-MS1) **Source: E130905-01** **Prepared: Sep-23-13 Analyzed: Sep-25-13**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Tetrachloro-meta-xylene	*17.6*				*ug/kg dry*	*22.0*		*79.8*	*33.5-135*		
Surrogate: Decachlorobiphenyl	*20.4*				"	*22.0*		*92.5*	*56.9-149*		
PCB-1016	U		18.7	110	"		U		24.4-164		
PCB-1248	**1140**		18.7	110	"	1100	43.5	99.5	50-150		
PCB-1260	U		18.7	110	"		U		30.1-180		

Matrix Spike Dup (EI32302-MSD1) **Source: E130905-01** **Prepared: Sep-23-13 Analyzed: Sep-25-13**

Michele Traina, Chemist

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-2964
(312) 353-8307 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: 10 Mile Drain	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Sep-30-13 13:45

PCB/Pesticide by GC/ECD - Quality Control
TechLaw - ESAT Contract

Batch EI32302 - EPA 3545 ASE

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Tetrachloro-meta-xylene	*15.4*				*ug/kg dry*	*22.3*		*68.7*	*33.5-135*		
Surrogate: Decachlorobiphenyl	*17.6*				*"*	*22.3*		*78.6*	*56.9-149*		
PCB-1016	**U**		19.0	112	"		U		24.4-164		30
PCB-1248	**969**		19.0	112	"	1120	43.5	83.0	50-150	16.0	30
PCB-1260	U		19.0	112	"		U		30.1-180		30

Michele Traina, Chemist

TechLaw
Quality & Integrity

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-2964
(312) 353-8307 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: 10 Mile Drain	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Sep-30-13 13:45

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

Michele Traina, Chemist

Attachment C
Soil Processing Logs

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-01 USEPA Tag Number: SC-048931

PROPERTY ADDRESS	21522 Bon Brae
ASSIGNED PROPERTY NUMBER	003
DEPTH INTERVAL	0-6 inches (0-0.5')
SAMPLE ID	TMD-SO-003-0/0.5
DATE/TIME	4/30/2013 0805
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: _____

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown clayey sand, some silt, trace fine gravel, trace organics, Topsoil. GV > 1/4" VBS. SC.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
TMH RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 4/30/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-02 **USEPA Tag Number:** SC-048932

PROPERTY ADDRESS	21528 Bon Brae
ASSIGNED PROPERTY NUMBER	003
DEPTH INTERVAL	12-18 inches (1-1.5')
SAMPLE ID	TMD-SO-003-~~12/18~~ 1/1.5
DATE/TIME	4/~~29~~30/2013 0810
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: _____

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
# 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns.

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown clayey sand, trace silt, trace fine gravel. GV > 1/4" VBS. SC

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
~~JAE~~ RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 4/30/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-03 **USEPA Tag Number:** SC-048933

PROPERTY ADDRESS	21522 Bon Bizae
ASSIGNED PROPERTY NUMBER	003
DEPTH INTERVAL	30-36 inches (2.5-3')
SAMPLE ID	TMD-SO-003-2.5/3
DATE/TIME	4/30/2013 1745
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: _____

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S 1-8 SHA ROTATED ~50 TURNS	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

COMMENTS	**SAMPLE DESCRIPTION**
	DARK BROWN clay, trace sand (CL)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
TMH	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 4/30/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-04 **USEPA Tag Number:** SC-04934

PROPERTY ADDRESS	21534 Bon Brae
ASSIGNED PROPERTY NUMBER	004
DEPTH INTERVAL	0-6
SAMPLE ID	TMD-SO-004-0/0.5
DATE/TIME	4/30/2013 1900
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
# 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA Rotated ~ 50 Turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark Brown clayey Sand, trace gravel, trace organics – topsoil GV > 1/4" VBS-SC

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
TMH LAJ JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/1/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-05 (DUP) & 13CD03-06 USEPA Tag Number: 5C-048935 (DUP) & 5C-048936

PROPERTY ADDRESS	21534 Bon Brae
ASSIGNED PROPERTY NUMBER	004
DEPTH INTERVAL	12-18
SAMPLE ID	TMD-SO-004-1/1.5
DATE/TIME	4/30/2013 1905 FD@1905
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-004-1/1.5-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
# 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA Rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown sandy clay, trace fine gravel - CL

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE	NAME
LAJ	SIGNATURE
TMH	DATE OF QC

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-07 **USEPA Tag Number:** ~~FB~~ 5C-048937

PROPERTY ADDRESS	21534 Bon Brae
ASSIGNED PROPERTY NUMBER	004
DEPTH INTERVAL	30-36"
SAMPLE ID	TMD-SO-004 2.5/3
DATE/TIME	4/30/2013 19:38
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
# 1-8 ~~DARK BROWN~~ TMH	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA Rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark Brown clay, trace sand - CL

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
~~LAF~~ TMH JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/1/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-08 USEPA Tag Number: SC-048938

PROPERTY ADDRESS	21628 Bon Brae
ASSIGNED PROPERTY NUMBER	005
DEPTH INTERVAL	0-6"
SAMPLE ID	TMD-SO-005-0/0.5
DATE/TIME	4/30/2013 2008
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
# 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA ROTATED ~ 50 TURNS

COMMENTS	SAMPLE DESCRIPTION
	DARK Brown clayey sand, trace gravel - topsoil gv > 1/4" - SC

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
~~EAJ~~ EJ	NAME Elizabeth Johnson
TMH	SIGNATURE Elizabeth Johnson
JAE	DATE OF QC 5/7/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-34 **USEPA Tag Number:** 5C-054643

PROPERTY ADDRESS	21628 Bon Brae
ASSIGNED PROPERTY NUMBER	005
DEPTH INTERVAL	6-12
SAMPLE ID	TMD-SO-005-0.5/1
DATE/TIME	5/2/13 1840
REPLICATE SAMPLE	YES NO

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

50 rotations w/ SHA

COMMENTS	**SAMPLE DESCRIPTION**
CRL split sample → to be split after received back from Mobile Lab.	Sandy Clay, damp, poorly sorted, ~~dar~~ brn GV > 1/4" VBS (ED)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
JAE SPC	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/3/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13C003-09 **USEPA Tag Number:** 5C-048939

PROPERTY ADDRESS	21628 Bon Brae
ASSIGNED PROPERTY NUMBER	005
DEPTH INTERVAL	12-18"
SAMPLE ID	TMD-SO-005 1/1.5
DATE/TIME	4/30/2013 2025
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: N/A

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA notched ~ 50 twirls

COMMENTS	**SAMPLE DESCRIPTION**
	Dark Brown sandy clay, trace fine - Cl

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
~~EAJ~~ EA TMH JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/1/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-10 **USEPA Tag Number:**

PROPERTY ADDRESS	21628 Bon Brae
ASSIGNED PROPERTY NUMBER	005
DEPTH INTERVAL	30-36 in
SAMPLE ID	TMD-SO-005 2.5/3
DATE/TIME	4/30/2013 2055
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA Rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	DARK Brown clay, trace Sand-CL

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
~~LAF~~ TMH JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/1/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: # 13CD03-11 USEPA Tag Number: SC-048987

PROPERTY ADDRESS	21632 Bon Brae
ASSIGNED PROPERTY NUMBER	006
DEPTH INTERVAL	0"-6" (0'-0.5')
SAMPLE ID	TMD-SO-006-~~0~~ 0/0.5
DATE/TIME	5/1/2013 8:21
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: MA

MS/MSD COLLECTED: ~~YES~~ (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1, 2, 3, 4, 5, 6, 7, 8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
Split sample → split after receive back from Metal Lab	Dark brown clayey sand Trace silt & organics. GV > 1/4" VBS. SC

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/1/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-12 USEPA Tag Number: SC-048988

PROPERTY ADDRESS	21632 Bon Brae
ASSIGNED PROPERTY NUMBER	006
DEPTH INTERVAL	12"-18" (1'-1.5')
SAMPLE ID	~~TMD-SO-006-12~~ TMD-SO-006-~~12/18~~ 1/1.5
DATE/TIME	5/1/2013 8:24
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: (YES) NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1, 2, 3, 4, 5, 6, 7, 8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown to brown sandy clay. trace silt. Trace organics. GV>1/4" VBS. CL

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/2/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-13 . USEPA Tag Number: 5C-048989

PROPERTY ADDRESS	21632 Bon Brae
ASSIGNED PROPERTY NUMBER	006
DEPTH INTERVAL	30" - 36" (2.5'-3.0')
SAMPLE ID	TMD-SO-006-2.5/3.0
DATE/TIME	5/1/2013 8:54
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1, 2, 3, 4, 5, 6, 7, 8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay. trace coarse sand. GV > 1/4" VBS. CL

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE RLB	NAME SIGNATURE DATE OF QC

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-14 USEPA Tag Number: SC -048998

PROPERTY ADDRESS	21620 Bon Brae
ASSIGNED PROPERTY NUMBER	007
DEPTH INTERVAL	0-6"
SAMPLE ID	TMD-SO-007-0105
DATE/TIME	5/1/13 1600
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

COMMENTS	SAMPLE DESCRIPTION
	Brown, SANDY CLAY ~~[illegible]~~ trace gravel, trace organics (CL), moist, Firm (CL)

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE ARM	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/2/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-15 USEPA Tag Number: SC-048991

PROPERTY ADDRESS	21620 Bon Brae
ASSIGNED PROPERTY NUMBER	007
DEPTH INTERVAL	12-18"
SAMPLE ID	TMD-SO-007-1/1.5
DATE/TIME	5/1/13 1745
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

50 turns

COMMENTS	SAMPLE DESCRIPTION
	Clayey Sand; Fine-med, mod sort, dark brn, 5%clay

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
ARM JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/1/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: ~~13CD03-13~~ 13CD03-18 (SA) USEPA Tag Number: SC-048992

PROPERTY ADDRESS	21620 Bon Brae
ASSIGNED PROPERTY NUMBER	007
DEPTH INTERVAL	30-36"
SAMPLE ID	TMD-50-007-2.5/3.0
DATE/TIME	5/1/13 1830
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

50 turns

COMMENTS	SAMPLE DESCRIPTION
	Clayey Sand, Fine, mod sort, brn, 5% clay

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
ARM (SA)	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/2/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: BCD03-17 & BCD03-18 USEPA Tag Number: SC-048993 & SC-048994

PROPERTY ADDRESS	21604 Bon Brae
ASSIGNED PROPERTY NUMBER	008
DEPTH INTERVAL	0-6
SAMPLE ID	TMD-SO-008-0/0.5
DATE/TIME	5/1/2013 1915 FD@ 1915 (4)
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-008-~~05~~ 0/0.5-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

50 turns

COMMENTS	SAMPLE DESCRIPTION
	Clay w/SICT, brn, mod sort

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE (EB)	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/2/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-19 USEPA Tag Number: ~~#55~~ 5C-048995

PROPERTY ADDRESS	21604 Bon Brae
ASSIGNED PROPERTY NUMBER	008
DEPTH INTERVAL	12-18
SAMPLE ID	TMD-SO-008-1/1.5
DATE/TIME	5/1/2013 / 1850
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: ~~YES~~ 80 (NO)

FD SAMPLE DESIGNATION: ~~TMD-SO-008-1/1.5-FD~~ 80

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns (80)

COMMENTS	SAMPLE DESCRIPTION
	Brownish Yellow. LEAN CLAY WITH SAND (CL), moist, St. Fa

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
ARM	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/2/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-20 USEPA Tag Number: SC-048996

PROPERTY ADDRESS	21604 Bon Brae
ASSIGNED PROPERTY NUMBER	008
DEPTH INTERVAL	30-36
SAMPLE ID	TMD-50-008-2.5/3
DATE/TIME	5/1/2013 1920
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns (2)

COMMENTS	SAMPLE DESCRIPTION
	Brown, SANDY CREAM CLAY (CL) moist, Firm.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
ARM	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/2/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-21 USEPA Tag Number: 5C-048997

PROPERTY ADDRESS	21612 Bon Brae
ASSIGNED PROPERTY NUMBER	009
DEPTH INTERVAL	0'-0.5'
SAMPLE ID	TMD-SO-009-0/0.5
DATE/TIME	5/2/2013 8:05
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown sandy clay. Trace organics. Trace fine gravel. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/2/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13 CD 03-22 USEPA Tag Number: SC-048998

PROPERTY ADDRESS	21612 Bon Brae
ASSIGNED PROPERTY NUMBER	009
DEPTH INTERVAL	1.0' - 1.5'
SAMPLE ID	TMD-SO-009-~~1.0~~/1.5
DATE/TIME	5/2/2013 0855
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
Split sample - to be split ~~by~~ EA mobile lab after receiving back from EA 5/2/13	Clay, Silt, minor gravel 1-2%, Poorly sorted, damp, brn GV > 1/4" VBS EA 5/2/13

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/2/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-23 **USEPA Tag Number:** 5C-048999

PROPERTY ADDRESS	21612 Bon Brae
ASSIGNED PROPERTY NUMBER	009
DEPTH INTERVAL	2.5' - 3.0'
SAMPLE ID	TMD-SO-009-2.5/3
DATE/TIME	5/2/2013 1715
REPLICATE SAMPLE	YES NO

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Silty, Clay, Light brown, damp so mod Sort GV>1/4" VBS ED 5/2/13

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
JAE RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/2/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-24 USEPA Tag Number: 5C-054633

PROPERTY ADDRESS	21615 Bon Brae
ASSIGNED PROPERTY NUMBER	010
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-010-0505 R1
DATE/TIME	5/2/2013 1704
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#5 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

~50 rotations in SHA (Sample homogenization Apparatus)

COMMENTS	SAMPLE DESCRIPTION
	Silty clay (CL) Brown, med stiff, moist little fine sand & organics GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
~~SEP~~ SPC JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/3/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-25 USEPA Tag Number: 5C-0546034

PROPERTY ADDRESS	21615 Bon Brae
ASSIGNED PROPERTY NUMBER	010
DEPTH INTERVAL	~~1.5~~ 12-18"
SAMPLE ID	TMD-SO-010-1/1.5 R1
DATE/TIME	5/2/2013 1880
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
~~#5~~ 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
~~Brbw~~	Brownish grey silty clay (CL), trace fine gravel, trace organics. Slightly moist. GV>1/4" BS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Tom Hightower SIGNATURE Thm. W DATE OF QC 5/3/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-26 **USEPA Tag Number:** 5C-054635

PROPERTY ADDRESS	21615 Bon Brae
ASSIGNED PROPERTY NUMBER	010
DEPTH INTERVAL	30-36
SAMPLE ID	TMD-SO-010-2.5/3 R1
DATE/TIME	5/3/2013 1200
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

~50 rotations in SHA

COMMENTS	**SAMPLE DESCRIPTION**
	Sandy Clay, gry-brn, Poorly Sorted Fine GV>1/4" VBS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/6/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-27 & 13CD03-28 **USEPA Tag Number:** 5C-0546036 & 5C-0546037

PROPERTY ADDRESS	~~TMD-80-010~~ 80 21615 Bon Brae
ASSIGNED PROPERTY NUMBER	010
DEPTH INTERVAL	0-6
SAMPLE ID	TMD-80-010-0/0.5R2
DATE/TIME	5/2/13 1730 FD@ 1731
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-80-010-0/0.5R2-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

~ 50 rotations on SHA

COMMENTS	**SAMPLE DESCRIPTION**
	Silty clay (CL) Brown, med stiff, most little fine sand & organics GV > 1/4" VBS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SPC JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/3/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: BCD03-29 **USEPA Tag Number:** SC-0546038

PROPERTY ADDRESS	21615 Bon Brae
ASSIGNED PROPERTY NUMBER	010
DEPTH INTERVAL	12" - 18" (1' - 1.5')
SAMPLE ID	TMD-SO-010-1/1.5 R2
DATE/TIME	5/3/2013 8:05
REPLICATE SAMPLE	(YES) NO

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown to brown clay; some fine to medium sand & trace gravel. GV > 1/4" VBS.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
RLB	NAME Elizabeth Johnson SIGNATURE [signature] DATE OF QC 5/3/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-30 **USEPA Tag Number:** SC-054639

PROPERTY ADDRESS	2615 Bon Brae
ASSIGNED PROPERTY NUMBER	010
DEPTH INTERVAL	~~30" - 36"~~ 24" - 30" (2-2.5'
SAMPLE ID	TMD-SO-010 - ~~3522~~ 2/2.5R2
DATE/TIME	5/6/2013 828
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown clay. Some fine to medium sand. GV > 1/4" VBS.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
RLB	**NAME** **SIGNATURE** **DATE OF QC**

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-31 USEPA Tag Number: SC-0546040

PROPERTY ADDRESS	21615 Bon Brae
ASSIGNED PROPERTY NUMBER	010
DEPTH INTERVAL	0-6
SAMPLE ID	TMD-SO-010-0/0.5 R3
DATE/TIME	5/2/13 1810
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

50 rotations on SHA

COMMENTS	SAMPLE DESCRIPTION
	SILT w/ Fine Sand, mod sort, dk brn, damp, 1-2% clay GV > 1/4" BS (@)

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/3/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-32 **USEPA Tag Number:** SC-054641

PROPERTY ADDRESS	21615 Bon Brae
ASSIGNED PROPERTY NUMBER	010
DEPTH INTERVAL	12-18
SAMPLE ID	TMD-SO-010-1/1.5R3
DATE/TIME	5/3/2013 1155
REPLICATE SAMPLE	(YES) R3 NO

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE

#s 1-8

PRELIMINARY ANALYSIS (WET WEIGHT, PPM)

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

~50 rotations in SHA

COMMENTS

SAMPLE DESCRIPTION

Silty clay (CL) Brown/grey, med stiff, moist trace fine sand

GW>1/4" WBS

PROCESSOR NAME(S)

SPC

FIELD QUALITY MANAGER

NAME Elizabeth Johnson

SIGNATURE Elizabeth Johnson

DATE OF QC 5/3/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 3CDOS-33 USEPA Tag Number: SC-054642

PROPERTY ADDRESS	21615 Bon Brae
ASSIGNED PROPERTY NUMBER	010
DEPTH INTERVAL	30" - 36"
SAMPLE ID	TMD-SO-010-2.5/3R3
DATE/TIME	5/6/2013 915
REPLICATE SAMPLE	YES NO R3
ASSOCIATED QA/QC SAMPLE FD SAMPLE COLLECTED: YES NO FD SAMPLE DESIGNATION: NA MS/MSD COLLECTED: YES NO	

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns.

COMMENTS	SAMPLE DESCRIPTION
	Dark brown to brown clay. Little to some sand. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/6/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-36 **USEPA Tag Number:** ~~SC-054738~~ SC-054803

PROPERTY ADDRESS	21531 Bon Brae
ASSIGNED PROPERTY NUMBER	11
DEPTH INTERVAL	0-6
SAMPLE ID	TMD-SO-011-0/0.5 R1
DATE/TIME	5/6/13 1631
REPLICATE SAMPLE	(YES) R1 NO —

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: (YES) NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

Rotate SHA ~50 revolutions

COMMENTS	**SAMPLE DESCRIPTION**
	silty clay (CL) Brown, moist, med stiff, little fine sand, trace organics GV>1/4" VBS 5/9/13

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
Steve Chumney	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-90 USEPA Tag Number: SC-054864

PROPERTY ADDRESS	21531 Bon Brae
ASSIGNED PROPERTY NUMBER	011
DEPTH INTERVAL	6"-12" (0.5'-1.0')
SAMPLE ID	TMD-SO-011-0.5/1 R1 ✓
DATE/TIME	5/15/2013 1411 ✓
REPLICATE SAMPLE	(YES) NO ✓ R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown to brown silty clay. Some sand (fine to med). Slightly moist. (CL). GV > 1/4" VBS. ✓

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/16/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03 - 37 USEPA Tag Number: ~~SC 0571739~~ SC-059804

PROPERTY ADDRESS	21531 Bon Brae
ASSIGNED PROPERTY NUMBER	11
DEPTH INTERVAL	12-18"
SAMPLE ID	TMD-50-011-1/1.5 R1
DATE/TIME	5/6/13 1635
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: N/A

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

Rotate SHA 50 revolutions

COMMENTS	SAMPLE DESCRIPTION
	Silty Clay, minor Sand (Fine-med), brn, damp, minor organics, Poorly Sorted GVS 1/4" VBS 5/9/13 (CL) ES 5/9/13

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: BCD03-38 USEPA Tag Number: ~~SC-054740~~ SC-054805

PROPERTY ADDRESS	21531 Bon Brae
ASSIGNED PROPERTY NUMBER	11
DEPTH INTERVAL	30-36"
SAMPLE ID	TMD-SO-011 - 2.5/3.0 R1
DATE/TIME	5/6/13 1715
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

Rotate SHA 50 times

COMMENTS	SAMPLE DESCRIPTION
	Clayey Sand & SILT, brn, Fine-Sand, damp, Poorly sorted (SC-SM) @ 5/9/13 GV>14" VBS @ 5/9/13

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-39 USEPA Tag Number: SC-0548066

PROPERTY ADDRESS	21531 Bon Brae
ASSIGNED PROPERTY NUMBER	11
DEPTH INTERVAL	0-6"
SAMPLE ID	TMD-50-011-0/0.5 R2 ✓
DATE/TIME	5/6/13 1755
REPLICATE SAMPLE	(YES) NO ✓ R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO) ✓

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

50 SHA revolutions

COMMENTS	SAMPLE DESCRIPTION
	SILT/Sand; Fine, dk brn, 2% clay, moderately sorted, damp (SH) 5/9/13 GV>14" YBS 5/9/2013

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-91 USEPA Tag Number: 5C-054865

PROPERTY ADDRESS	21531 Bon Brae
ASSIGNED PROPERTY NUMBER	011
DEPTH INTERVAL	6" – 12" (0.5' – 1.0')
SAMPLE ID	TMD-SD-011-0.5'-R2
DATE/TIME	5/15/2013 1439
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns.

COMMENTS	SAMPLE DESCRIPTION
	Dark brown to brown silty clay with fine to med sand. slightly moist. (CL). GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/16/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-HD USEPA Tag Number: SC-054807

PROPERTY ADDRESS	21531 Bon Brae
ASSIGNED PROPERTY NUMBER	011
DEPTH INTERVAL	12" - 18"
SAMPLE ID	TMD-SO-011-1/1.5R2
DATE/TIME	5/7/2013 758
REPLICATE SAMPLE	YES (R2) NO

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown; clay; trace sand. GV > 1/4" VBS. (CL)

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-41 USEPA Tag Number: SC-054808

PROPERTY ADDRESS	21531 Bon Brae
ASSIGNED PROPERTY NUMBER	011
DEPTH INTERVAL	30" - 36" 2.5' - 3'
SAMPLE ID	TMD-SO-011 - 2.5/3 R2
DATE/TIME	5/7/2013 0820
REPLICATE SAMPLE	(YES) NO R2
ASSOCIATED QA/QC SAMPLE FD SAMPLE COLLECTED: YES (NO) FD SAMPLE DESIGNATION: NA @ 5/9/13 MS/MSD COLLECTED: YES (NO)	

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

50 SHA revolutions

COMMENTS	SAMPLE DESCRIPTION
	Clayey - Silt & Fine Sand, brn, damp, Poorly Sorted (SC-SM)

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-42 **USEPA Tag Number:** 5C-054809

PROPERTY ADDRESS	21531 Bon Brae
ASSIGNED PROPERTY NUMBER	011
DEPTH INTERVAL	0-6
SAMPLE ID	TMD-SD-011-0.5 R3
DATE/TIME	5/8/2013 755
REPLICATE SAMPLE	YES NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown clayey fine to med sand. Trace organics. Moist; GV> ¼" VBS. (SC)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-92 USEPA Tag Number: 5C-054866

PROPERTY ADDRESS	21531 Bon Brae
ASSIGNED PROPERTY NUMBER	011
DEPTH INTERVAL	6"-12" (0.5'-1.0')
SAMPLE ID	TMD-SD-011-0.5/1 R3
DATE/TIME	5/15/2013 1504
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

Sta Rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown to brown silty clay. Some fine to med sand. (CL). GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/16/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-43 & 13CD03-44 USEPA Tag Number: SC-054810 & SC-054811

PROPERTY ADDRESS	21531 Bon Brae
ASSIGNED PROPERTY NUMBER	11
DEPTH INTERVAL	12-18"
SAMPLE ID	TMD-SO-011-1.0/1.5 ~~R2~~ R3
DATE/TIME	5/6/13 1835
REPLICATE SAMPLE	(YES) NO ~~R2~~ R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-011-1.0/1.5 ~~R2~~ R3 -FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

50 SHA rotations

COMMENTS	SAMPLE DESCRIPTION
	SICT & Sand; Fine Sand, 2% Clay, dk brn, damp, moderately Sorted (SM) GV > 1/4" VBS 5/9/13

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-45 **USEPA Tag Number:** SC-054812

PROPERTY ADDRESS	21531 Bon Brae
ASSIGNED PROPERTY NUMBER	011
DEPTH INTERVAL	30" – 36" 2.5' – 3.0'
SAMPLE ID	TMD-SO-011-2.5/3 R3 ✓
DATE/TIME	5/8/2013 1500
REPLICATE SAMPLE	(YES) NO ✓ R3

ASSOCIATED QA/QC SAMPLE ✓

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
Split sample for CRL.	Brown silty clay, ~~with~~ some fine to coarse sand. GV > 1/4" VBS. Moist (CL) ✓

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-46 **USEPA Tag Number:** 5C-054813

PROPERTY ADDRESS	22449 Revere
ASSIGNED PROPERTY NUMBER	012
DEPTH INTERVAL	0"-6" 0'-0.5'
SAMPLE ID	TMD-SO-012-0/0.5 ✓
DATE/TIME	5/8/2013 1540
REPLICATE SAMPLE	YES (NO) ✓

ASSOCIATED QA/QC SAMPLE ✓

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown to dark brown fine to coarse sand. ~~trae~~ trace gravel. trace clay. GV> 1/4" VBS. (SP)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-47 USEPA Tag Number: 5C-054814

PROPERTY ADDRESS	22449 Revere
ASSIGNED PROPERTY NUMBER	012
DEPTH INTERVAL	12"-18" 1'-1.5'
SAMPLE ID	TMD-SO-012-1/1.5
DATE/TIME	5/8/2013 1608
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown to dark brown silty fine to medium sand. Little clay. GV > 1/4" VBS. (SM)

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-48 USEPA Tag Number: 5C-054815

PROPERTY ADDRESS	22449 Revere
ASSIGNED PROPERTY NUMBER	012
DEPTH INTERVAL	30" - 36" 2.5/3
SAMPLE ID	TMD-SO-012- 2.5/3
DATE/TIME	5/8/2013 1642
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns MHS.

COMMENTS	SAMPLE DESCRIPTION
	Dark brown silty clay with sand. Moisture content is high. GV > 1/4" VBS. (CL)

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-49 **USEPA Tag Number:** FC-054816

PROPERTY ADDRESS	~~22487~~ 22478 10 Mile Rd
ASSIGNED PROPERTY NUMBER	013
DEPTH INTERVAL	0"-6" 0'-0.5'
SAMPLE ID	TMD-SD-013-0/0.5
DATE/TIME	~~1110~~ 5/8/2013 1744
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown clayey sand. Some silt. trace organics. GV > 1/4" VBS (SC)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
RJB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-50 & 13CD03-51 **USEPA Tag Number:** SC-054817 & ~~BED~~ SC-054818

PROPERTY ADDRESS	22478 Ten Mile Rd
ASSIGNED PROPERTY NUMBER	013
DEPTH INTERVAL	12" - 18" 1'/1.5'
SAMPLE ID	TMD-SO-013-1/1.5
DATE/TIME	5/9/2013 802 FD@803 FD@804
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-013-1/1.5-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown silty clay. Some sand. Moist. GV > 1/4" VBS. (CL)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: BCD03-52 USEPA Tag Number: 5C-05481B

PROPERTY ADDRESS	22478 Ten Mile Rd
ASSIGNED PROPERTY NUMBER	013
DEPTH INTERVAL	30" - 36" 2.5/3
SAMPLE ID	TMD-SO-013-2.5/3
DATE/TIME	5/9/2013 848
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns. MHS

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay. Little sand. Very moist. GV> 1/4" VBS: (CL)

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-53 USEPA Tag Number: SC-054819

PROPERTY ADDRESS	2169 Bon Brae
ASSIGNED PROPERTY NUMBER	014
DEPTH INTERVAL	0"-6" 0'-0.5'
SAMPLE ID	TMD-SO-014-0.5
DATE/TIME	5/9/2013 952
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

EHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown silty clay with sand. trace organics. Moist to v. moist. GV > 1/4" VBS. CL.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-54 **USEPA Tag Number:** SC-054821

PROPERTY ADDRESS	21619 Bon Brae
ASSIGNED PROPERTY NUMBER	014
DEPTH INTERVAL	12" - 18" 1'-1.5'
SAMPLE ID	TMD-SO-014-1/1.5
DATE/TIME	5/9/2013 1043
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown silty clay. Some sand. Moist. GV> 1/4" VBS. (CL).

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-55 USEPA Tag Number: SC-05H822

PROPERTY ADDRESS	21619 Bon Brae
ASSIGNED PROPERTY NUMBER	014
DEPTH INTERVAL	30" - 36" (2.5'-3.0')
SAMPLE ID	TMD-SO-014-2.5/3
DATE/TIME	5/9/2013 1122
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns. MHS.

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay. Some sand. moist to very moist. GV>1/4" VBS. (CL).

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-56 **USEPA Tag Number:** SC-054823

PROPERTY ADDRESS	21512 Bon Brae
ASSIGNED PROPERTY NUMBER	015
DEPTH INTERVAL	0"-6" (0'-0.5')
SAMPLE ID	TMD-SO-015-0/0.5
DATE/TIME	5/9/2013 1206
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-B	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
Split sample for CRL.	Dark brown silty sand (SM). Trace clay and organics. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-57 **USEPA Tag Number:** 5C-054824

PROPERTY ADDRESS	21512 Bon Brae
ASSIGNED PROPERTY NUMBER	015
DEPTH INTERVAL	12" - 18" (1'-1.5')
SAMPLE ID	TMD-SD-015-1/1.5
DATE/TIME	5/9/2013 1236
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: (YES) NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown silty sand. Some clay. (SM). GV> 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-58 USEPA Tag Number: 5C-054825

PROPERTY ADDRESS	21512 Bon Brae
ASSIGNED PROPERTY NUMBER	015
DEPTH INTERVAL	30" - 36" (2.5' - 3.0')
SAMPLE ID	TMD-SO-015-2.5/3
DATE/TIME	5/9/2013 1402
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay. trace sand (CL). GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/10/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-59 USEPA Tag Number: SC-054826

PROPERTY ADDRESS	21600 Bon Brae
ASSIGNED PROPERTY NUMBER	016
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	THD-SO-016-0/0.5
DATE/TIME	5/9/2013 1355
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: N/A

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown to black clayey silty sand (SM-SC) trace organics (clayey topsoil) GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 5/13/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 513CD03-60 USEPA Tag Number: 5C-054827

PROPERTY ADDRESS	21600 Bon Brae
ASSIGNED PROPERTY NUMBER	016
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD-SO-016-1/1.5
DATE/TIME	5/9/2013 1442
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: N/A

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns.

COMMENTS	SAMPLE DESCRIPTION
	Brown to dark brown silty to sandy clay (CL) trace organics, trace fine gravel. GV>1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 5/13/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13D03-68 & 13D03-68 USEPA Tag Number: SC-054828 & SC-054829

PROPERTY ADDRESS	21600 Bon Brae
ASSIGNED PROPERTY NUMBER	016
DEPTH INTERVAL	30" - 36"
SAMPLE ID	TMD-SO-016-2.5/3
DATE/TIME	5/9/2013 1535 FD@1536
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-016-2.5/3-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

~50 rotations in SHA

COMMENTS	SAMPLE DESCRIPTION
	Silty clay (CL) lt. brown, med stiff, moist, trace fine sand, trace organics GV>1/4" VBS 5/10/13

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB SPC	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/10/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-63 USEPA Tag Number: SC-054830

PROPERTY ADDRESS	22485 Lange
ASSIGNED PROPERTY NUMBER	017
DEPTH INTERVAL	0-6
SAMPLE ID	TMD-SO-017-0/0.5
DATE/TIME	5/10/2013 0900
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: N/A

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown silty fine sand (SM), trace organics, trace to little clay. (topsoil) GV>14" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
TMH	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/13/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-64 USEPA Tag Number: 5C-054831

PROPERTY ADDRESS	22435 Lange
ASSIGNED PROPERTY NUMBER	017
DEPTH INTERVAL	12-18
SAMPLE ID	THD-SO-017-1/1.5
DATE/TIME	5/10/2013 0927
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay (CL), stiff, trace fine gravel, trace organics. GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink. SIGNATURE Rachel Blink DATE OF QC 5/13/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-65 USEPA Tag Number: SC-054832

PROPERTY ADDRESS	28435 Lange
ASSIGNED PROPERTY NUMBER	017
DEPTH INTERVAL	30-36"
SAMPLE ID	TMD-SO-017-2.5/3
DATE/TIME	5/10/2013 1040
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns → MHS

COMMENTS	SAMPLE DESCRIPTION
	Dark grey clay (CH), trace coarse sand, plastic, soft to med. stiff, GV > 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE RachelleBlink DATE OF QC 5/13/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-166 USEPA Tag Number: 5C-654883

PROPERTY ADDRESS	22500 10 Mile Road
ASSIGNED PROPERTY NUMBER	018
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-018-0.5
DATE/TIME	5/10/2013 1148
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: N/A

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#1-4 & 6-9	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	(SM) Brown silty fine sand, trace organics, trace to little clay (topsoil) GV 7"/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 5/13/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-67 USEPA Tag Number: 5C-054834

PROPERTY ADDRESS	22500 10 Mile Rd
ASSIGNED PROPERTY NUMBER	018
DEPTH INTERVAL	~~0-6" (0-0.5')~~ ~~5/10/13~~ 12-18" (1-1.5')
SAMPLE ID	TMD-SO-018-~~0/0.5~~ 1/1.5
DATE/TIME	~~5/10/2013~~ 5/13/2013 0923
REPLICATE SAMPLE	YES NO

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
~~1-3~~ 1-4, 6-9	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

50 SHA revolutions

COMMENTS	SAMPLE DESCRIPTION
Split sample - will be split after received back from mobile lab.	(ML-SM) SILT; w/Fine sand, minor ~~[illegible]~~ Clay + gravel, poorly sorted, damp, brn GV>'14" VBS 5/13/13

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
~~LAJ~~ JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/13/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-68 USEPA Tag Number: SC-054835

PROPERTY ADDRESS	22500 10 Mile Rd
ASSIGNED PROPERTY NUMBER	018
DEPTH INTERVAL	30" - 36" (2.5' - 3.0')
SAMPLE ID	TMD-SO-018-2.5/3
DATE/TIME	5/13/2013 921
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
~~1-9~~ 1-4, 6-9	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay. some fine to med sand. very moist. GV > 1/4" VBS (CL).

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/13/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-69 USEPA Tag Number: SC-654836

PROPERTY ADDRESS	22487 Lange
ASSIGNED PROPERTY NUMBER	019
DEPTH INTERVAL	0"-6" (0'-0.5')
SAMPLE ID	TMD-SO-019-0/0.5 R1
DATE/TIME	5/13/2013 1019
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-11	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns.

COMMENTS	SAMPLE DESCRIPTION
	Dark brown fine sand and silt. Trace med to coarse sand & fine gravel. Trace clay. Topsoil. (SM). GV> 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/13/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: BCD03-70 USEPA Tag Number: 5C-054837

PROPERTY ADDRESS	22487 Lange
ASSIGNED PROPERTY NUMBER	019
DEPTH INTERVAL	12" - 18" (1'-1.5')
SAMPLE ID	TMD-SO-019-1/1.5 R1 ✓
DATE/TIME	5/13/2013 1105 ✓
REPLICATE SAMPLE	YES ✓ NO R1

ASSOCIATED QA/QC SAMPLE ✓

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-11	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

50 SHA revolutions

COMMENTS	SAMPLE DESCRIPTION (ML-SM) EQ 5/13/13
	SILT; W/Fine Sand, <5% clay, minor gravel, poorly sorted, damp, brn GV > 1/4" VBS EQ 5/13/13

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
Jae	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/13/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-71 USEPA Tag Number: 5C-054838

PROPERTY ADDRESS	22487 Large
ASSIGNED PROPERTY NUMBER	019
DEPTH INTERVAL	30" - 36" (2.5'-3.0')
SAMPLE ID	TMD-50-019-2.5/3 R1
DATE/TIME	5/13/2013 1119
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-11	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay with sand & trace fine gravel. (CL). Moist. GV> 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/13/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-72 & 13CD03-73 USEPA Tag Number: SC-054839 & SC-054840

PROPERTY ADDRESS	22487 Lange
ASSIGNED PROPERTY NUMBER	019
DEPTH INTERVAL	0" - 6" ~~0.5' - 1.0'~~ 0-0.5'
SAMPLE ID	TMD-SO-019-~~0.5~~ 0/0.5 R2 ✓
DATE/TIME	5/13/2013 1150 & 1151 ✓
REPLICATE SAMPLE	(YES) NO ✓ R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-019-~~0.5~~ 0/0.5 R2-FD ✓

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-11	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

50 SHA Revolutions

COMMENTS	SAMPLE DESCRIPTION
	SILT/SAND; Fine, mod sorting, damp, brn (SM) EA 5/13/13 GV>1/4" VBS EA 5/13/13

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/10/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-74 USEPA Tag Number: SC-054841

PROPERTY ADDRESS	22487 Lange
ASSIGNED PROPERTY NUMBER	019
DEPTH INTERVAL	12" - 18" (1' - 1.5')
SAMPLE ID	TMD-SO-019-1/1.5 R2
DATE/TIME	5/13/2013 1232
REPLICATE SAMPLE	(YES) NO ✓ R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-11	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay with sand (CL). Trace organics. Slightly moist. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/13/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-75 USEPA Tag Number: 5C-054842

PROPERTY ADDRESS	22487 Lange
ASSIGNED PROPERTY NUMBER	019
DEPTH INTERVAL	30-36"
SAMPLE ID	TMD-50-019-2.5/3.0 R2
DATE/TIME	5-13-13, 1230
REPLICATE SAMPLE	YES NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION:_____

MS/MSD COLLECTED: YES NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
~~50 SHA Revolutions~~ J.E. 1-11	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

50 SHA Revolutions

COMMENTS	SAMPLE DESCRIPTION
	Clay; minor SILT & Fine Sand, + gravel damp, Poorly Sorted, brn (CL) EJ 5/13/13 GV >1/4" VBS EJ 5/13/13

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/13/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-76 **USEPA Tag Number:** 5C-054843

PROPERTY ADDRESS	22487 Lange
ASSIGNED PROPERTY NUMBER	019
DEPTH INTERVAL	0"-6" (0'-0.5')
SAMPLE ID	TMD-SO-019-0/0.5 R3 ✓
DATE/TIME	5/13/2013 1641 ✓
REPLICATE SAMPLE	(YES) NO ✓ R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-11	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
Split Sample for CRL ✓	Dark brown silt ~~with~~ some fine to coarse sand. trace gravel and organics. Topsoil. GV> 1/4" VBS. (ML) SB 5/13/13

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/13/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-77 **USEPA Tag Number:** SC-054844

PROPERTY ADDRESS	22487 Lange
ASSIGNED PROPERTY NUMBER	019
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	JMD-SO-019-1/1.5 R3
DATE/TIME	5/13/2013 1711
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: (YES) NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-11	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown to light brown silty clay (CL) trace coarse sand & fine gravel. GV>1/4" VBS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
LAJ	NAME SIGNATURE DATE OF QC

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-78 **USEPA Tag Number:** SC-054845

PROPERTY ADDRESS	22487 Lange
ASSIGNED PROPERTY NUMBER	019
DEPTH INTERVAL	30" - 36" (2.5' - 3.0')
SAMPLE ID	TMD-SO-019-2.5/3 R3
DATE/TIME	5/13/2013 1735
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-11	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown silty clay. Some fine to medium sand (CL). GV > 1/4" VBS.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/13/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-[redacted]79 USEPA Tag Number: SC-054846

PROPERTY ADDRESS	22665 Revere
ASSIGNED PROPERTY NUMBER	020
DEPTH INTERVAL	0"-6"
SAMPLE ID	TMD-SO-020-0'/0.5'
DATE/TIME	5/13/2013 / 1805
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty fine sand with trace to little clay (SM-SC). Trace organics, trace fine gravel. GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
GCK	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/14/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-80 USEPA Tag Number: SC-054847

PROPERTY ADDRESS	22665 Revere
ASSIGNED PROPERTY NUMBER	020
DEPTH INTERVAL	12" - 18" (1' - 1.5')
SAMPLE ID	TMD-SO-020-1/1.5
DATE/TIME	5/13/2013 1808
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty fine to med. sand (SM). Trace fine gravel. GV > ¼" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/14/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-81 **USEPA Tag Number:** SC-054848

PROPERTY ADDRESS	22665 Revere
ASSIGNED PROPERTY NUMBER	020
DEPTH INTERVAL	30-36" (2.5-3.0')
SAMPLE ID	TMD-SO-020-2.5/3.0
DATE/TIME	5/14/13, 0825
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
~~50 SHA Revolutions~~ 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

50 SHA revolutions

COMMENTS	**SAMPLE DESCRIPTION**
	SILTY CLAY; (CL) brn, moist to wet, some Fine Sand GV>1/4" VBS 5/14/13

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
(GT) Grant Koster	NAME Elizabeth Johnson
	SIGNATURE Elizabeth Johnson
	DATE OF QC

Attachment 1 – Soil Sample Processing Log

SAS Number: BCD03-86 USEPA Tag Number: SC-054860

PROPERTY ADDRESS	22501 Revere
ASSIGNED PROPERTY NUMBER	021
DEPTH INTERVAL	0-6"
SAMPLE ID	TMD-SO-021-0/0.5'
DATE/TIME	5-14-13, 0810
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
~~#8~~ #9 5/14/13 #8 1-3, 5-8, & 10	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

50 SHA Revolutions

COMMENTS	SAMPLE DESCRIPTION
	SILT/SAND; Fine, mod sort, organics, brn - damp to dry, 10% clay, 2% gravel (SM) GV 3'14" VBS 5/14/13

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/14/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-87 & 13CD03-88 USEPA Tag Number: SC-0548601 & SC-0548602

PROPERTY ADDRESS	22501 Revere
ASSIGNED PROPERTY NUMBER	021
DEPTH INTERVAL	12" - 18" (1.0' - 1.5')
SAMPLE ID	TMD-SO-021-1/1.5
DATE/TIME	5/15/2013 0834 FD@ 0835
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SD-021-1/1.5-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown silty clay. Some fine sand. Trace ~~coarse~~ gravel. GV > 1/4" VBS (CL).

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME Elizabeth Jenson SIGNATURE Elizabeth Jenson DATE OF QC 5/16/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-891 USEPA Tag Number: 5C-054863

PROPERTY ADDRESS	22501 Revere
ASSIGNED PROPERTY NUMBER	021
DEPTH INTERVAL	30"-36" (2.5'-3.0')
SAMPLE ID	TMD-50-021-2.5/3.0 ✓
DATE/TIME	5/15/13 0900
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE ✓

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA - Rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Grey; Silty Clay; moist; trace fine sand; (CL) ✓ GVS 1/4" VBS @ 5/16/13

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE @ 5/16/13 ~~EET~~	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/16/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-94 USEPA Tag Number: 5C-0548608

PROPERTY ADDRESS	22439 Lange
ASSIGNED PROPERTY NUMBER	022
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-022-0/0.5
DATE/TIME	5/15/13 1715
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
~~#s 1-12~~ #s 1-7 & 10-12	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown to black silty fine sand (SM) trace to little clay, trace organics (grass & roots) GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-95 USEPA Tag Number: SC-054869

PROPERTY ADDRESS	22439 Lange
ASSIGNED PROPERTY NUMBER	022
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD-SO-022-1/1.5
DATE/TIME	5/15/13 1759
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
~~#S 1-12~~ #S 1-7 & 10-12	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brownish grey silty clay (CL), trace coarse sand & fine gravel GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE Rachel L Blink DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-96 USEPA Tag Number: 5C-054870

PROPERTY ADDRESS	22439 Lange
ASSIGNED PROPERTY NUMBER	022
DEPTH INTERVAL	30-36" (2.5-3')
SAMPLE ID	TMD-SO-022-2.5/3
DATE/TIME	5/15/13 @ 1855
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-7 & 10-12	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns @ 5/16/13

COMMENTS	SAMPLE DESCRIPTION
	CL; Brownish grey; Silty Clay; moist; GVS 1/4" VBS @ 5/16/13

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
GCK @ 5/16/13 TMH	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/16/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-97 **USEPA Tag Number:** SC-05487 1

PROPERTY ADDRESS	22445 Lange
ASSIGNED PROPERTY NUMBER	023
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-023-%0.5
DATE/TIME	5/15/13 1850
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA for ~50 rotations

COMMENTS	**SAMPLE DESCRIPTION**
	SM; Dark Brown; Silty Sand; (trace clay w/ trace coarse sand); moist; low cohesion GV>1/4" VBS @ 5/16/13

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
GK @ 5/16/13 TMH	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/16/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-98 & 13CD03-99 **USEPA Tag Number:** SC-054872 & SC-054873

PROPERTY ADDRESS	22445 Lange
ASSIGNED PROPERTY NUMBER	023
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD-SO-023-1/1.5
DATE/TIME	5/15/13 19:10 FDG, 1910 5/16/13
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-023-1/1.5-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA for ~50 rotations

COMMENTS	**SAMPLE DESCRIPTION**
CRL split sample on original sample.	

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
GCK 5/16/13 TMH	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/16/13

Attachment 1 – Soil Sample Processing Log

SAS Number: BCD05-01 **USEPA Tag Number:** SC-854874

PROPERTY ADDRESS	22415 Lange
ASSIGNED PROPERTY NUMBER	023
DEPTH INTERVAL	30-36" (2.5-3')
SAMPLE ID	TMD-SO-023-2.5/3
DATE/TIME	5/15/13 @ 1920
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: (YES) NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
~~1,2,4-8~~ #S1-8 SS 5/16/13	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated for 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Sandy Clay; Dark Brown; moist; (CL) GV>1/4" YBS SS 5/16/13

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
GCK TMH	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 5/16/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-02 **USEPA Tag Number:** SC-054875

PROPERTY ADDRESS	22517 Revere
ASSIGNED PROPERTY NUMBER	024
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-024-0.5
DATE/TIME	5/16/13 0828
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#3 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns.

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown silty fine sand, trace clay (SM) trace coarse sand & fine gravel. trace organics GV>1/4" VBS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
LAJ TMH	NAME Rachel Blank SIGNATURE Rachel Blank DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: BCD05-03 **USEPA Tag Number:** SC-054876

PROPERTY ADDRESS	22517 Revere
ASSIGNED PROPERTY NUMBER	024
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD-SC-024-1/1.5
DATE/TIME	5/16/2013 0855
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA Rotated ~ 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark Brown S.Cly Clay (CL) - some sand, gravel GV>1/4" 1BS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
LAJ TMH	NAME Rachel Blink SIGNATURE RachelLBlink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 130D05-04 USEPA Tag Number: SC-054877

PROPERTY ADDRESS	22517 Revere
ASSIGNED PROPERTY NUMBER	024
DEPTH INTERVAL	30-36" (2.5-3')
SAMPLE ID	TMD-30-024-2.5/3
DATE/TIME	5/16/13 0900
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Greyish brown silty clay (CH) - fat clay, very plastic, trace coarse sand. GV>14" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE RachelLBlink DATE OF QC 5/28/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD03-05 USEPA Tag Number: SC-054878

PROPERTY ADDRESS	22535 Lange
ASSIGNED PROPERTY NUMBER	025
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-025-0/0.5
DATE/TIME	5/16/2013 9:33
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown - Blk topsoil, GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
TMH	NAME Rachel Blink SIGNATURE RachelBlink DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-06 USEPA Tag Number: 5C-054879

PROPERTY ADDRESS	22535 Lange
ASSIGNED PROPERTY NUMBER	025
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	THD-SO-025-1/1.5
DATE/TIME	5/16/2013 0940
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns > MHS

COMMENTS	SAMPLE DESCRIPTION
	Greyish brown silty to sandy clay (CL) slightly plastic, trace fine gravel. GV > 14" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-07 USEPA Tag Number: 5C-054880

PROPERTY ADDRESS	22535 Lange
ASSIGNED PROPERTY NUMBER	025
DEPTH INTERVAL	30-36" (2.5-3')
SAMPLE ID	TMD-SO-025-2.5/3
DATE/TIME	5/16/13 0951
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
	brown-gray, clay, some silt. gravel 1/4" → 3/4" (a) go > 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
TM/H	NAME Rachel Blank SIGNATURE Rachel Blank DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD 05-08 USEPA Tag Number: SC-054881

PROPERTY ADDRESS	22431 Lange
ASSIGNED PROPERTY NUMBER	026
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-026-0/0.5
DATE/TIME	5/16/13 1032
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-12	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark Brown Silty-clay, some gravel 1/4"-1/2", roots, (CL) GUL > 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
TMH	NAME Rachel Blink SIGNATURE RachelBlink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-09 USEPA Tag Number: SC-054882

PROPERTY ADDRESS	22431 Lange
ASSIGNED PROPERTY NUMBER	026
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD-SS-026-1/1.5
DATE/TIME	5/16/13 1050
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S 1-12	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
CRL Split sample	Brown to greyish brown clay (CH) trace to little silt, trace coarse sand & fine gravel. Slightly moist GVs 1/4" VBs

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blunk SIGNATURE Rachel Blunk DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-10 & 13CD05-11 USEPA Tag Number: SC-05489 & SC-05484

PROPERTY ADDRESS	22431 Lange
ASSIGNED PROPERTY NUMBER	026
DEPTH INTERVAL	30-36" (2.5-3')
SAMPLE ID	TMD-SO-026.2.5/3
DATE/TIME	5/16/2013 1239 FD@1240
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-026.2.5/3-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-12	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns → MLS

COMMENTS	SAMPLE DESCRIPTION
	Greyish brown clay (CH), trace to little silt & sand, trace fine gravel. very plastic GV>1/4" MBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
TMH JAE LAT	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-12 USEPA Tag Number: SC-054885

PROPERTY ADDRESS	22470 Lange
ASSIGNED PROPERTY NUMBER	027
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-027-0/0.5
DATE/TIME	5/16/2013 1156
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
~~#S 1-8~~ #S 1-9	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown to black silty fine sand, trace clay (SM) → topsoil. trace organics GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE RachelBlink DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-13 USEPA Tag Number: SC-054886

PROPERTY ADDRESS	22470 Lange
ASSIGNED PROPERTY NUMBER	027
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD-SO-027-1/1.5
DATE/TIME	5/16/2013 1242
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-9	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown clayey silt & sand (SC), trace to little coarse sand & fine gravel. GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
	NAME Rachel Blink
	SIGNATURE RachelBlink
	DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-14 USEPA Tag Number: 5C-054887

PROPERTY ADDRESS	22470 Lange
ASSIGNED PROPERTY NUMBER	027
DEPTH INTERVAL	30-36" (2.5-3')
SAMPLE ID	TMD-SO-027-2.5/3
DATE/TIME	5/16/13 1822
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-9	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown silty to sandy clay (CL) plastic to very plastic, trace coarse sand & fine gravel GV>1/4" NBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE Rachel L Blink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-15 USEPA Tag Number: SC-054888

PROPERTY ADDRESS	22429 Lange
ASSIGNED PROPERTY NUMBER	028
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-028-0\0.5 R1
DATE/TIME	5/16/2013 1720
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION (SM)
	Dark brown to black silty fine sand, trace clay. organics - topsoil GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE Rachel L Blink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-16 USEPA Tag Number: SC-054889

PROPERTY ADDRESS	22429 Lange
ASSIGNED PROPERTY NUMBER	028
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD-SO-028-1/1.5R1
DATE/TIME	5/16/13 1755
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty to sandy clay (CL), trace fine gravel, trace organics. GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE RachelBlink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-17 USEPA Tag Number: 5C-054890

PROPERTY ADDRESS	22429 Lange
ASSIGNED PROPERTY NUMBER	028
DEPTH INTERVAL	30-36" (2.5/3')
SAMPLE ID	TMD-50-028-2.5/3 R1
DATE/TIME	~~5/16/13~~ 5/17/13 0727
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#5 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Light greyish brown silty to sandy clay (CL) trace fine gravel, med. stiff GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blunk SIGNATURE Rachel Blunk DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-18 USEPA Tag Number: SC-054891

PROPERTY ADDRESS	22429 Lange
ASSIGNED PROPERTY NUMBER	028
DEPTH INTERVAL	0-6" (0.-0.5")
SAMPLE ID	TMD-SO-028-0/0.5 R2
DATE/TIME	~~5/16/13~~ 5/17/13 0955
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
~~DAF~~ #s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown to black silty fine sand (SM) trace to little clay → topsoil GV>1/4" BS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE RachelBlink DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-19 USEPA Tag Number: 5C-064892

PROPERTY ADDRESS	22429 Lange
ASSIGNED PROPERTY NUMBER	028
DEPTH INTERVAL	12-18" ~~(1.5-2')~~ (1.0'-1.5')
SAMPLE ID	TMD-SO-028-1/1.5 R2
DATE/TIME	~~5/16/13~~ 5/17/13 0925
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
CRL Split sample	Light brown to brown silty to sandy clay (CL); trace coarse sand & fine gravel. Med. stiff GV > 1/4" BGS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE Rachel L Blink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-20 USEPA Tag Number: 5C-654893

PROPERTY ADDRESS	22429 Lange
ASSIGNED PROPERTY NUMBER	028
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SO-028-2.5/3R2
DATE/TIME	5/17/13 1008
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: (YES) NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
	Light brown silty clay (CL), trace fine gravel. Dense to hard. GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-21 & 13CD05-22 USEPA Tag Number: SC-054894 & SC-054895

PROPERTY ADDRESS	22429 Lange
ASSIGNED PROPERTY NUMBER	028
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-028-0.5R3
DATE/TIME	5/16/2013 1039 FD@ 1040
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-028-0.5R3-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown silty fine sand, organics (SM) trace fine gravel. → topsoil GVs'14" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE RachelBlink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-23 USEPA Tag Number: SC-054896

PROPERTY ADDRESS	± 22429 Lange
ASSIGNED PROPERTY NUMBER	028
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD-50-028-1/1.5R3
DATE/TIME	5/16/13 1131
REPLICATE SAMPLE	(YES) R3 NO

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: N/A

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#5 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay (CL), trace course sand & fine gravel. GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: ~~BCD04~~ BCD05-24 USEPA Tag Number: SC-054897

PROPERTY ADDRESS	22429 Lange
ASSIGNED PROPERTY NUMBER	028
DEPTH INTERVAL	30-36" (2.5-3)
SAMPLE ID	TMD-SO-028-2.5/3 R3
DATE/TIME	5/16/13 1234
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay (CL), hard ~~dense~~ (82) very dry. trace coarse sand & fine gravel. GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
	NAME Rachel Blink
	SIGNATURE Rachel Blink
	DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-25 USEPA Tag Number: SC-054898

PROPERTY ADDRESS	22469 Lange
ASSIGNED PROPERTY NUMBER	029
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-029-0.5
DATE/TIME	5/16/13 1402
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: MA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown to black silty fine sand (SM), organics (topsoil). trace clay. GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE RachelBlink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-26 USEPA Tag Number: 5C-054899

PROPERTY ADDRESS	22469 Lange
ASSIGNED PROPERTY NUMBER	029
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD-SO-029-1/1.5
DATE/TIME	5/16/13 1423
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown to black clayey silt & sand (SC), fine to med. sand w/ silt, trace fine gravel. GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE Rachel L Blink DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-27 USEPA Tag Number: SC-054900

PROPERTY ADDRESS	22469 Lange
ASSIGNED PROPERTY NUMBER	029
DEPTH INTERVAL	30-36" (2.5-3')
SAMPLE ID	TMD-SO-029-25/3
DATE/TIME	5/16/13 1443
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
~~#S~~ 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Grey to blue clay (CH), high plasticity -very plastic, trace silt & coarse sand. GVS 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 3CD05-29 USEPA Tag Number: 5C- 054902

PROPERTY ADDRESS	22571 Lange
ASSIGNED PROPERTY NUMBER	030
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-50-030-0/0.5
DATE/TIME	5/17/13 0815
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: _____

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-12	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

50 SHA Revolutions

COMMENTS	SAMPLE DESCRIPTION
	SILT/Fine Sand; 10% clay, 10% gravel, mod sort, damp (SM) Gv > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-30 USEPA Tag Number: 5C-054903

PROPERTY ADDRESS	22571 Lange
ASSIGNED PROPERTY NUMBER	030
DEPTH INTERVAL	12-18" ~~0-5~~ (1-1.5')
SAMPLE ID	TMD-50-030-1/1.5
DATE/TIME	5/17/13, 0850
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: _____

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-12	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

50 SHA Revolutions

COMMENTS	SAMPLE DESCRIPTION
	SICT/Fine Sand; 20% clay+gravel, slag, glass, Poorly sorted, damp, dk brn (SM) GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
JAE	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13005-31 USEPA Tag Number: SC-054904

PROPERTY ADDRESS	22571 Lange
ASSIGNED PROPERTY NUMBER	030
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SO-030-2.5/3
DATE/TIME	5/20/2013 1025
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-12	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns - MHS

COMMENTS	SAMPLE DESCRIPTION
	Grey sandy clay with slag pieces, moisture content is high, some course sand & fine gravel (CL) GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-32 & 13CD05-33 USEPA Tag Number: SC-054905 & SC-054906

PROPERTY ADDRESS	22497 Lange
ASSIGNED PROPERTY NUMBER	031
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-031-%0.5
DATE/TIME	5/20/2013 1055
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-031-%0.5-FD 1056

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	(SM) Dark brown; Silty Sand; little clay; moist GW>14' BGS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
GCK	NAME Rachel Blink SIGNATURE RachelBlink DATE OF QC 5/23/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-34 USEPA Tag Number: SC-054907

PROPERTY ADDRESS	22497 Large
ASSIGNED PROPERTY NUMBER	031
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD-SO-031-1/1.5
DATE/TIME	5/20/2013 ~~1055~~ 1105
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Light brown silty to sandy clay (CL), trace med coarse sand & little fine gravel. Clay is slightly plastic GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE Rachel L Blink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-35 USEPA Tag Number: SC-054908

PROPERTY ADDRESS	22497 Lange
ASSIGNED PROPERTY NUMBER	031
DEPTH INTERVAL	30-36" (2.5-3')
SAMPLE ID	TMD-SO-031-2.5/3
DATE/TIME	5/20/2013 1155
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	(ML) Sandy silt; dark brown; wet; trace clay GV>¼" BS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
GCK	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-36 **USEPA Tag Number:** SC-054909

PROPERTY ADDRESS	22486 Lange
ASSIGNED PROPERTY NUMBER	032
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-032-0.5
DATE/TIME	5/20/2013 1157
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown to black ~~sandy~~ (SM) silty fine sand, trace clay, trace fine gravel. organics → topsoil GV>1/4" VBS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
LAJ	NAME Rachel Blank SIGNATURE Rachel Blank DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-37 USEPA Tag Number: SC-054900

PROPERTY ADDRESS	22486 Lange
ASSIGNED PROPERTY NUMBER	032
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	THD-SO-032 1/1.5
DATE/TIME	5/20/2013 1333
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown clay (CL), trace fine gravel, trace silt. GV > 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAS	NAME Rachel Blink SIGNATURE RachelBlink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-38 USEPA Tag Number: SC-054911

PROPERTY ADDRESS	22486 Lange
ASSIGNED PROPERTY NUMBER	032
DEPTH INTERVAL	30-36" (2.5/3)
SAMPLE ID	TMD-SO-032-2.5/3
DATE/TIME	5/20/2013 1405
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
	(CL); Dark brown; Silty Clay; moist to wet; Low-Cohesion GV>14" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
GLK	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05 38 USEPA Tag Number: SC-05491

PROPERTY ADDRESS	22539 Lange
ASSIGNED PROPERTY NUMBER	033
DEPTH INTERVAL	0-6" (0.05')
SAMPLE ID	TMD-SO-033-0.5
DATE/TIME	5/20/2013 1435
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#5 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
CRL split sample	(SM) Dark brown silty fine sand, trace to little clay. trace fine gravel. organics → topsoil GV > 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE RachelLBlink DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-49 USEPA Tag Number: 5C-054922

PROPERTY ADDRESS	22539 Lange
ASSIGNED PROPERTY NUMBER	033
DEPTH INTERVAL	6-12" (0.5/1)
SAMPLE ID	TMD-50-033-0.5/1
DATE/TIME	5/21/2013 1015
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown sandy clay (CL), slightly plastic to plastic, slightly moist, fine to med. sand, trace fine gravel. GVS 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-40 USEPA Tag Number: SC-054913

PROPERTY ADDRESS	22539 Lange
ASSIGNED PROPERTY NUMBER	033
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	THD-SO-033 1/1.5
DATE/TIME	5/20/2013 1515
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Light brown sandy to silty clay (CL), clay is highly plastic, trace med to coarse sand slightly moist GV 5/14 VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE RachelBlink DATE OF QC ~~5/10~~ 5/23/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-41 USEPA Tag Number: SC-054414

PROPERTY ADDRESS	2259 Lange
ASSIGNED PROPERTY NUMBER	033
DEPTH INTERVAL	2.5-3 (30 36")
SAMPLE ID	JMD-SO 033 2.5/3
DATE/TIME	5/20/2013 1620
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE

#S 1-8

SHA rotated ~50 turns

PRELIMINARY ANALYSIS (WET WEIGHT, PPM)

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

COMMENTS

SAMPLE DESCRIPTION

(CL); Brown; Silty Clay; Low Plasticity; tr. fine sand; moist.

GV > 1/4" VBS

PROCESSOR NAME(S)

G. Koster

FIELD QUALITY MANAGER

NAME Rachel Blink

SIGNATURE Rachel Blink

DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-42 USEPA Tag Number: SC-05495

PROPERTY ADDRESS	22551 Lunge
ASSIGNED PROPERTY NUMBER	034
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-034-0.5
DATE/TIME	5/20/2013 1615
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: (YES) NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown to black silty fine sand, trace clay (SM), trace fine gravel. Organics → topsoil GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAT	NAME Rachel Blink SIGNATURE RachelBlink DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-43 & 13CD05 44 USEPA Tag Number: SC-054916 & ~~13CD05 L~~ SC-054917

PROPERTY ADDRESS	22551 Lange
ASSIGNED PROPERTY NUMBER	034
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD-SO-034-1/1.5
DATE/TIME	5/20/2013 1705
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) ~~NO~~ (80)

FD SAMPLE DESIGNATION: ~~TMD-SO-034-1/1.5~~ TMD-SO-034-1/1.5-FD 1706

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
	(SM) Dark Brown; Silty (fine) Sand; trace coarse Sand; moist (SP) GV > 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
G. Koster	NAME Rachel Blink SIGNATURE RACHELLBLINK DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-45 USEPA Tag Number: SC-054918

PROPERTY ADDRESS	22551 Lange
ASSIGNED PROPERTY NUMBER	034
DEPTH INTERVAL	30 36" (2.5-3')
SAMPLE ID	TMD-SO-034-2.5/3
DATE/TIME	5/20/2013 1645
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Greyish brown silty to sandy clay (CL) clay is slightly plastic, sand is med to course foundry sand, trace fine gravel Moisture content is high GV > 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blink SIGNATURE Rachel L Blink DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-46 USEPA Tag Number: SC-054919

PROPERTY ADDRESS	22545 Lange
ASSIGNED PROPERTY NUMBER	035
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-035-0/0.5
DATE/TIME	5/21/2013 0835
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
	(SM-SC) Dark brown to black clayey silty fine sand (clayey topsoil) organics, slightly moist trace fine gravel GV>'14" vBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Blank SIGNATURE Rachel Blank DATE OF QC 5/28/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-47 **USEPA Tag Number:** SC-054920

PROPERTY ADDRESS	2275 Large
ASSIGNED PROPERTY NUMBER	035
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD-SO-035-1/1.5
DATE/TIME	5/21/2013 0923
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#5 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	brown silty to sandy clay (CL), slightly plastic to plastic, slightly moist, trace fine gravel GW>1/4" VBS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
LAJ	NAME Rachel Blink. SIGNATURE Rachel L Blink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CP05-48 **USEPA Tag Number:** SC-054921

PROPERTY ADDRESS	2245 Lange
ASSIGNED PROPERTY NUMBER	035
DEPTH INTERVAL	30-36" (2.5-3')
SAMPLE ID	JMD-SO-035-25/3
DATE/TIME	5/21/2013 0952
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown silty to sand clay (CL), very plastic, moist (high moisture content). trace fine gravel & course sand GW > 14" BGS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
LAJ	NAME Rachel Bink SIGNATURE Rachel Bink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13005-50 **USEPA Tag Number:** SC-054923

PROPERTY ADDRESS	22490 Lange
ASSIGNED PROPERTY NUMBER	036
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-50-036-0005
DATE/TIME	5/21/13 1108
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
CRL split sample	Dark brown silty fine sand (SM), trace clay, organics → topsoil trace fine gravel. GVS 1/4" VBS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
LAJ	NAME Rachel Blink SIGNATURE RachelBlink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05 51 USEPA Tag Number: SC-054924

PROPERTY ADDRESS	22490 Lange
ASSIGNED PROPERTY NUMBER	036
DEPTH INTERVAL	12-18" (1 1.5')
SAMPLE ID	TMD-SO-036-1/1.5
DATE/TIME	5/21/13 1241
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: MA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown ~~clay~~ (2) silty to sandy clay (CL) plastic, trace to little med to coarse sand & fine gravel, trace organics. GVS 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAT	NAME Rachel Blink SIGNATURE RachelBlink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-52 USEPA Tag Number: SC-054925

PROPERTY ADDRESS	22490 Lange
ASSIGNED PROPERTY NUMBER	036
DEPTH INTERVAL	30-36" (2.5 3')
SAMPLE ID	TMD-SD-036-2.5/3
DATE/TIME	5/21/13 1315
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns → MIS

COMMENTS	SAMPLE DESCRIPTION
	Greyish brown clay (CH), trace med to coarse sand & fine gravel. highly plastic, soft, slightly moist GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAT	NAME Rachel Blink SIGNATURE RachelBlink DATE OF QC 5/22/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-53 USEPA Tag Number: SC-054926

PROPERTY ADDRESS	22444 Lange
ASSIGNED PROPERTY NUMBER	037
DEPTH INTERVAL	0-6" (0.05')
SAMPLE ID	JMD-SO-037-0.5
DATE/TIME	5/21/13 1425
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown to black silty fine sand (SM) with some clay → clayey topsoil, trace fine gravel. organics. GV >1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05 54 & 13CD05-55 USEPA Tag Number: SC-054927 & SC-054928

PROPERTY ADDRESS	22444 Lange
ASSIGNED PROPERTY NUMBER	037
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD 50-037-1/1.5
DATE/TIME	5/21/13 1516 FD@ 1517
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-50-037-1/1.5-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#5 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHAT rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty to sandy clay (CL), trace fine gravel. GV > 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/21/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-90 USEPA Tag Number: SC 054479

PROPERTY ADDRESS	22944 Lange
ASSIGNED PROPERTY NUMBER	037
DEPTH INTERVAL	30 in (2.5-3')
SAMPLE ID	TMD-30-037-~~0-0.5~~ 2.5/3 FD
DATE/TIME	5/21/13 1553
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#5 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHM mixed ~20 turns

COMMENTS	SAMPLE DESCRIPTION
	Greyish brown silty to sandy clay (CL), soft, trace fine gravel slightly moist. Mild sweet like smell. GV >1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-57 USEPA Tag Number: SC-654430

PROPERTY ADDRESS	22506 Lange
ASSIGNED PROPERTY NUMBER	038
DEPTH INTERVAL	0-6" (0 0.5')
SAMPLE ID	TMD-SO-038-0.5
DATE/TIME	5/21/13 1618
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown to black silty fine and organics trace clay. trace fine gravel. → topsoil (SM). GV>14" BS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-58 USEPA Tag Number: SC-054931

PROPERTY ADDRESS	2250 le Lange
ASSIGNED PROPERTY NUMBER	038
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD-SO-038-1/1.5
DATE/TIME	5/21/13 1635
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown to black silty fine sand with clay (SM) → clayey topsoil. trace fine gravel. GV > 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAT	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-59 USEPA Tag Number: SL-054932

PROPERTY ADDRESS	22506 Lange
ASSIGNED PROPERTY NUMBER	038
DEPTH INTERVAL	#30 36" (2.5-3')
SAMPLE ID	TMD-SO-038-2.5/3
DATE/TIME	5/21/13 1652
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Greyish brown silty to sandy clay (CL), trace fine gravel. GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAT	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-60 USEPA Tag Number: SC-054933

PROPERTY ADDRESS	22493 Revere
ASSIGNED PROPERTY NUMBER	039
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-039-0.5
DATE/TIME	5/21/2013 1730
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown silty fine sand (SM) with organics. trace to little clay. trace fine gravel. Topsoil. GV>14" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Vaughan SIGNATURE RachelVaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13C005-61 **USEPA Tag Number:** SC-054934

PROPERTY ADDRESS	22493 ~~target~~ Revere
ASSIGNED PROPERTY NUMBER	039
DEPTH INTERVAL	12-18" ~~(0-0.5'~~ (1-1.5')
SAMPLE ID	TMD-SO-039-1/1.5
DATE/TIME	5/22/13 0945
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	(CL); Brown; Silty Clay; trace fine sand; trace coarse sand. GV>1/4" VBS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
GCK	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-62 USEPA Tag Number: SC-054935

PROPERTY ADDRESS	22493 Revere
ASSIGNED PROPERTY NUMBER	039
DEPTH INTERVAL	30 36" (2.5/3')
SAMPLE ID	TMD-SO 039-2.5/3
DATE/TIME	5/21/13 1030
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	(CL) Grey Brown; Silty Clay; trace sand (fine); moist; GV 3/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
GCK	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-71 **USEPA Tag Number:** ~~BS~~ SC-054967

PROPERTY ADDRESS	22483 Revere
ASSIGNED PROPERTY NUMBER	040
DEPTH INTERVAL	0-6" (0 0.5')
SAMPLE ID	TMP-SO-040-0505R1
DATE/TIME	5/22/13 1125
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns.

COMMENTS	**SAMPLE DESCRIPTION**
	(SM) Brown; Silty Sand; (fine - med. sand); moist; non-cohesive;

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
G. Koster	NAME Rachel Vaughan SIGNATURE RachelVaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-78 USEPA Tag Number: SC-054968

PROPERTY ADDRESS	22483 Revere
ASSIGNED PROPERTY NUMBER	040
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD SO 040 1/1.5 R1
DATE/TIME	5/22/13 1200
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: (YES) NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown silty to sandy clay (CL), slightly plastic, trace to little med to coarse sand & fine gravel. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-73 ~~13CD05-74~~ USEPA Tag Number: SC 054169 ~~SC 054170~~

PROPERTY ADDRESS	22483 REVERE
ASSIGNED PROPERTY NUMBER	040
DEPTH INTERVAL	30-36" (2.5-3')
SAMPLE ID	TMD-SO-040-2.5/3 R1
DATE/TIME	5/22/13 1200
REPLICATE SAMPLE	YES NO R1
ASSOCIATED QA/QC SAMPLE FD SAMPLE COLLECTED: ~~YES~~ NO FD SAMPLE DESIGNATION: ~~TMD SO 040 2.5/3 R1 FD~~ MS/MSD COLLECTED: YES NO	

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	(ML); Dark brown; clayey silt; trace fine to medium sand; moist-wet

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
G. Koster	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-74 & 13CD05 75 **USEPA Tag Number:** SC-054970 & SC-054971

PROPERTY ADDRESS	28483 Revere
ASSIGNED PROPERTY NUMBER	040
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-040-0/0.5 R2
DATE/TIME	5/22/13 1321 FD@1322
REPLICATE SAMPLE	(YES) NO R2
ASSOCIATED QA/QC SAMPLE **FD SAMPLE COLLECTED:** YES (NO) **FD SAMPLE DESIGNATION:** ~~NA~~ TMD-SO-040 0/0.5 R2-FD **MS/MSD COLLECTED:** YES (NO)	

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION** (SP) Brown fine to med. sand, trace to little silt trace clay, trace fine gravel. organics. GV > 1/4" VBS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
LAJ.	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-76 USEPA Tag Number: SC-054972

PROPERTY ADDRESS	22483 Revere
ASSIGNED PROPERTY NUMBER	040
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD-SO-040-1/1.5 R2
DATE/TIME	5/22/13 1349
REPLICATE SAMPLE	YES NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown to black silty to sandy clay (CL), non-plastic, trace fine gravel. slightly moist. GV > 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAT	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: BCD05-77 USEPA Tag Number: SC-054973

PROPERTY ADDRESS	22483 Revere
ASSIGNED PROPERTY NUMBER	040
DEPTH INTERVAL	30 36" (2.5-3')
SAMPLE ID	TMD SO 040-2.5/3R2
DATE/TIME	5/22/13 1404
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHM rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
Entire volume collected for sample	Greyish brown clay (CH), trace to little silt trace fine gravel. highly plastic GV>#4 #35

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-78 USEPA Tag Number: SC-054974

PROPERTY ADDRESS	22483 Revere
ASSIGNED PROPERTY NUMBER	040
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-040-0.5R3
DATE/TIME	5/22/13 1435
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
CRL split sample	Dark brown fine to med. sand (SP) with silt (SM), organics, trace fine gravel. GV>1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-79 USEPA Tag Number: SC-054975

PROPERTY ADDRESS	22483 Revere
ASSIGNED PROPERTY NUMBER	046
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD-SO-046-1/1.5 R3
DATE/TIME	5/22/13 1508
REPLICATE SAMPLE	YES (NO) R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown to black silty to sandy clay (CL), trace fine gravel. GV > 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
LAJ	NAME Rachel Vaughan SIGNATURE RachelVaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-80 USEPA Tag Number: SC 054976

PROPERTY ADDRESS	22483 Revere
ASSIGNED PROPERTY NUMBER	040
DEPTH INTERVAL	30-36" (2.5-3')
SAMPLE ID	THD 30-040-2.5/3
DATE/TIME	5/22/2013 1550
REPLICATE SAMPLE	YES NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	(CL) Dark brown; silty clay; with sand (fine to coarse), moist → wet GV > 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
GCK	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-81 **USEPA Tag Number:** SC-054979

PROPERTY ADDRESS	22442 Ten Mile Rd.
ASSIGNED PROPERTY NUMBER	041
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-041-0.5R1
DATE/TIME	5/22/13 1650
REPLICATE SAMPLE	(YES) R1 NO

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	(SM); dark brown; Silty Sand w/ little clay; moist; GV>14" BS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
G. Koster	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-82 **USEPA Tag Number:** 5C-05498D

PROPERTY ADDRESS	22442 Ten Mile Road
ASSIGNED PROPERTY NUMBER	041
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD-SO-041-1/1.5R1
DATE/TIME	5/22/13 1650
REPLICATE SAMPLE	YES (R1) NO

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Light brown to brown silty to sandy clay, slightly plastic, trace fine gravel (CL). GV>1/4" YBS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
LAJ	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-83 **USEPA Tag Number:** SC-054981

PROPERTY ADDRESS	22442 Ten Mile Road
ASSIGNED PROPERTY NUMBER	041
DEPTH INTERVAL	30-36" (2.5-3')
SAMPLE ID	TMD-SO-041-25/3R1
DATE/TIME	5/22/13 1702
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Grey to blue/grey clay (CH), trace silt, very plastic, slightly moist, trace coarse sand & fine gravel GV 3/4" VBS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
LAT	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-84 **USEPA Tag Number:** SC-054982

PROPERTY ADDRESS	22442 Ten Mile Road
ASSIGNED PROPERTY NUMBER	041
DEPTH INTERVAL	0-6" (0-05')
SAMPLE ID	TMD-SO-041-005R2
DATE/TIME	5/22/13 1721
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown to black silty fine sand (SM) with organics. trace fine gravel, trace clay. GV>1/4" VBS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
LAT	NAME Rachel Vaughan SIGNATURE RachelVaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-85 & 13CD05-86 **USEPA Tag Number:** SC-054983 & SC-054984

PROPERTY ADDRESS	22442 Ten Mile Road
ASSIGNED PROPERTY NUMBER	041
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD SO-041 1/1.5 R2
DATE/TIME	5/23/13 841 & FD@ 842
REPLICATE SAMPLE	(YES) R2 NO

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-041-1/1.5R2 FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown to greyish brown silty clay (CL) trace med. to coarse sand & fine gravel. stiff to very stiff, non-plastic GV>1/4" VBS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
LAJ	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: BCD05-87 **USEPA Tag Number:** ~~TS~~ SC-054985

PROPERTY ADDRESS	22482 Ten Mile Road
ASSIGNED PROPERTY NUMBER	041
DEPTH INTERVAL	30-36" (2.5-3')
SAMPLE ID	TMD-SO 041-2.5/3 R2
DATE/TIME	5/22/13 1725
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown clay (CH), trace silt & coarse sand trace fine gravel. Highly plastic, slightly moist. GVS 14" VBS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
GCK LAJ	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: BCD65-88 **USEPA Tag Number:** 5C-054986

PROPERTY ADDRESS	22442 Ten Mile Road
ASSIGNED PROPERTY NUMBER	041
DEPTH INTERVAL	0-6" (0-0.5')
SAMPLE ID	TMD-SO-041-0.5 R3
DATE/TIME	5/28/13 0730
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown silty fine sand with organics & trace to little clay. trace fine gravel. ~~(SM)~~ (SM) GV > 1/4" VBS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
LAT	NAME Rachel Vaughan SIGNATURE RachelVaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD65-89 **USEPA Tag Number:** SC-654987

PROPERTY ADDRESS	22442 Ten Mile Drain
ASSIGNED PROPERTY NUMBER	041
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	TMD-SO-041-1/1.5 R3
DATE/TIME	5/28/13 0848
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Light brown to brown silty clay (CL) trace med. to coarse sand & fine gravel. Stiff to very stiff, non-plastic GV > 1/4" BS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
LAJ	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD05-90 **USEPA Tag Number:** SC-054988

PROPERTY ADDRESS	22442 Ten Mile Drain
ASSIGNED PROPERTY NUMBER	041
DEPTH INTERVAL	30-36" (2.5-3')
SAMPLE ID	TMD-80-041-2.5/3R3
DATE/TIME	5/29/13 0734
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: (YES) NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	greyish brown to greyish blue clay (CH) trace silt & med to coarse sand, slightly moist, very plastic GV > 1/4" BS

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
LAJ	NAME Rachel Vaughan SIGNATURE Rachel Vaughan DATE OF QC 5/29/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-11 **USEPA Tag Number:** SC -033202

PROPERTY ADDRESS	21595 Lakeland (Yard)
ASSIGNED PROPERTY NUMBER	043
DEPTH INTERVAL	0" - 6" (0.0' - 0.5')
SAMPLE ID	TMD-SO-043-0|0.5 1726
DATE/TIME	6|4|2013
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown silt (ML) with clay. Trace sand. Trace organics. GV > 1/4" VBS.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
RLV	NAME Grant Kooter SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-12 USEPA Tag Number: SC-033203

PROPERTY ADDRESS	21595 Lakeland (Yard)
ASSIGNED PROPERTY NUMBER	043
DEPTH INTERVAL	12"-18" (1.0'-1.5')
SAMPLE ID	TMD-SO-043-1/1.5
DATE/TIME	6/4/2013 1801
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay (CL). Dry. Trace sand & fine gravel. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME Grant Koster SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-23 USEPA Tag Number: SC-033214

PROPERTY ADDRESS	21595 Lakeland (yard)
ASSIGNED PROPERTY NUMBER	043
DEPTH INTERVAL	18"-24" (1.5'-2.0')
SAMPLE ID	TMD-SO-043-1.5/2
DATE/TIME	6/5/2013 ~~1804~~ 1904
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown to dark brown silty clay (CL). Some sand. Trace fine gravel. GV > 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME Grant Koster SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-13, 13CD07-14 **USEPA Tag Number:** SC-033204, SC-033205

PROPERTY ADDRESS	21510 Lakeland (parkway)
ASSIGNED PROPERTY NUMBER	044
DEPTH INTERVAL	0-0.5'
SAMPLE ID	TMD-SO-044-0/0.5
DATE/TIME	6/5/13 0800 FD @0801
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-044-0/0.5-FD

MS/MSD COLLECTED: YES NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

~50 revolutions of SHA

COMMENTS	**SAMPLE DESCRIPTION**
	(ML) Sandy Silt; brown; dry; little clay + coarse sand Gravel > ¼" screened out

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
G. Koster	NAME ~~Grad~~ Rachel Blink SIGNATURE Rachel Blink DATE OF QC 7/8/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-15 **USEPA Tag Number:** 5C-033206

PROPERTY ADDRESS	21510 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	044
DEPTH INTERVAL	12"-18" (1.0'-1.5')
SAMPLE ID	TMD-SO-044-1/1.5
DATE/TIME	6/5/2013 0750
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown silty clay (CL). Trace fine sand. GV>1/4" VBS.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
RLV	NAME Grant Kooles SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-24 / 13CD07-25 USEPA Tag Number: SC-033215 / SC-033216

PROPERTY ADDRESS	21510 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	044
DEPTH INTERVAL	18"-24" (1.5'-2.0')
SAMPLE ID	TMD-SO-044-1.5/2
DATE/TIME	6/6/2013 0710 FD@ 0711
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-044-1.5/2-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown clayey sand (SC). Trace silt. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME Grant Kostey
	SIGNATURE [signature]
	DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-16 USEPA Tag Number: SC-033207

PROPERTY ADDRESS	21510 Lakeland (yard)
ASSIGNED PROPERTY NUMBER	045
DEPTH INTERVAL	0"-6" (0.0'-0.5')
SAMPLE ID	TMD-SO-045-0/0.5
DATE/TIME	6/5/2013 0826
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
Split sample for CRL.	Dark brown silt (ML) with clay and sand. Trace fine gravel and organics. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME Grant Koster SIGNATURE DATE OF QC

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-17 **USEPA Tag Number:** 5C-033208

PROPERTY ADDRESS	21510 Lakeland (yard)
ASSIGNED PROPERTY NUMBER	045
DEPTH INTERVAL	1'-1.5'
SAMPLE ID	TMD-SO-045-1/1.5
DATE/TIME	6/5/13 0910
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-6	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

~50 rotations of the SHA

COMMENTS	**SAMPLE DESCRIPTION**
	(CL) Silty Clay; brown; dry; trace sand. GV > 1/4" VBS.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
G. Koster	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 7/8/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13C007-18 **USEPA Tag Number:** SC-033209

PROPERTY ADDRESS	21606 Lakeland
ASSIGNED PROPERTY NUMBER	046
DEPTH INTERVAL	0"-6" (0.0' -0.5')
SAMPLE ID	TMD-SO-046-0|0.5
DATE/TIME	6/5/2013 1338
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-12	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	sandy silt (ML); some clay; Trace gravel and organics. GV> 1/4" VBS.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
RLV	NAME Grant Koster SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-19 USEPA Tag Number: 5C-033210

PROPERTY ADDRESS	21606 Lakeland
ASSIGNED PROPERTY NUMBER	046
DEPTH INTERVAL	12"-18" (1.0'-1.5')
SAMPLE ID	TMD-SO-046-1/1.5
DATE/TIME	6/5/2013 1425
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-12	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay (CL). some sand. Trace fine gravel. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME Grant Kester SIGNATURE DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-21 USEPA Tag Number: SC-033212

PROPERTY ADDRESS	21600 Lakeland
ASSIGNED PROPERTY NUMBER	047
DEPTH INTERVAL	0"- 6" (0.0' -0.5')
SAMPLE ID	TMD-SO-047-0/0.5
DATE/TIME	6/5/2013 1615
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-12	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Sandy silt (ML). Some clay Trace fine gravel and organics. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME Grant Kooker SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-20 USEPA Tag Number: 5C-033211

PROPERTY ADDRESS	21600 Lakeland
ASSIGNED PROPERTY NUMBER	047
DEPTH INTERVAL	@ 12" - 18" (1.0' - 1.5')
SAMPLE ID	TMD-SO-047-1/1.5
DATE/TIME	6/5/2013 1726
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-12	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay (CL). some sand. Trace fine gravel. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME Grant Kester SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-30 USEPA Tag Number: 5C-033221

PROPERTY ADDRESS	21600 Lakeland
ASSIGNED PROPERTY NUMBER	047
DEPTH INTERVAL	18" - 24" (1.5' - 2.0')
SAMPLE ID	TMD-SD-047-1.5/2
DATE/TIME	6/6/2013 1135
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
~~1-12~~ 1-9, 11, 12 ~~#10~~ #10 Refusal	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown to dark brown silty clay. Some sand. (CL). GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME G. Koster SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13C007-26 USEPA Tag Number: 5C-033217

PROPERTY ADDRESS	21530 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	048
DEPTH INTERVAL	0"-6" (0.0'-0.5')
SAMPLE ID	TMD-SD-048-0/0.5
DATE/TIME	6/6/2013 0806
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
Split sample for CRL	Dark brown clayey silt (ML). trace sand and fine gravel. trace organics. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME Grant Koster SIGNATURE DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-27 USEPA Tag Number: SC-033218

PROPERTY ADDRESS	21530 Lakeland (parkway)
ASSIGNED PROPERTY NUMBER	048
DEPTH INTERVAL	1.0'/1.5' (12"-18")
SAMPLE ID	TMD-SO-048-1'/1.5'
DATE/TIME	6/6/13 0812
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
2-8 #	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

#1 Refusal

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown clayey sand. trace fine gravel. (-V>1/4" VBS. (SC).

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
G. Koster	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 7/8/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-44 USEPA Tag Number: 5C-033235

PROPERTY ADDRESS	21530 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	048
DEPTH INTERVAL	~~12"-18"~~ ~~1.0'-1.5'~~ 18"-24" (1.5'-2.0')
SAMPLE ID	TMD-50-048-1.5/2
DATE/TIME	6/7/2013 0804
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: (YES) NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Sand Mt grain with brown silty clay, gravel > 1/4 inch VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
Hutch	NAME G. Kooker SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-28 USEPA Tag Number: 5C-033219

PROPERTY ADDRESS	21530 Lakeland (yard)
ASSIGNED PROPERTY NUMBER	049
DEPTH INTERVAL	0" - 6" (0.0' - 0.5')
SAMPLE ID	TMD-SO-049-0/0.5
DATE/TIME	6/6/2013 0926
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown clayey silt. Trace sand and fine gravel. GV> 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME Grant Koster SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-29 USEPA Tag Number: 5C-0332220 GL

PROPERTY ADDRESS	21530 Lakeland (yard)
ASSIGNED PROPERTY NUMBER	049
DEPTH INTERVAL	12"-18" (1.0'-1.5')
SAMPLE ID	TMD-SO-049-1/1.5
DATE/TIME	6/6/13 1019
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
samples 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay (CL). trace sand and fine gravel. GV> 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME Grant Kosteg SIGNATURE DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-45 USEPA Tag Number: SC-033236

PROPERTY ADDRESS	41530 Lakeland (Yard)
ASSIGNED PROPERTY NUMBER	049
DEPTH INTERVAL	18" - 24" (1.5' - 2.0')
SAMPLE ID	TMD-SO-049-1.5/2
DATE/TIME	6/7/2013 0817
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: ~~YES~~ (NO)

FD SAMPLE DESIGNATION: ~~TMD-SO-049-1.5/2-FD~~ (RV)

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown clayey sand (SC). Trace Silt. GV > 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME Grant Kester
	SIGNATURE
	DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-10 **USEPA Tag Number:** SC-033201

PROPERTY ADDRESS	21595 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	~~042~~ 050
DEPTH INTERVAL	12"-18" (1.0'-1.5')
SAMPLE ID	TMD-SO-~~042~~ 050 - 1/1.5
DATE/TIME	6/4/2013 1644
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 30 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown silty clay (CL). Trace to some sand. Trace fine gravel. GV > 1/4" VBS.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
RLW	NAME Grant Koster SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD01-22 USEPA Tag Number: EC-033213

PROPERTY ADDRESS	21595 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	~~042~~ 050
DEPTH INTERVAL	18" - 24" (1.5' - 2.0')
SAMPLE ID	TMD-50-042-1.5/2 (650)
DATE/TIME	6/5/2013 1822
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay (CL). Some sand. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME Grant Koster SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-31 USEPA Tag Number: 5C-033222

PROPERTY ADDRESS	21518 Lakeland (parkway)
ASSIGNED PROPERTY NUMBER	051
DEPTH INTERVAL	0"-6" (0.0'-0.5')
SAMPLE ID	TMD-SO-051-0/0.5
DATE/TIME	6/6/2013 1343
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-7 #8 Refusal	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown sandy silt (ML). Trace clay. Trace organics. Trace fine gravel. GV > 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME Grant Koster SIGNATURE DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-32 USEPA Tag Number: 5C-033223

PROPERTY ADDRESS	21518 Lakeland (parkway)
ASSIGNED PROPERTY NUMBER	051
DEPTH INTERVAL	12" - 18" (1.0' - 1.5')
SAMPLE ID	TMD-SO-051-1/1.5
DATE/TIME	6/6/2013 1411
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-7 #8 Refusal	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
split sample for CRL	Brown fine to medium sand (SP). Trace to some clay. Trace fine gravel. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME G. Koster SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-46 13CD07-47 USEPA Tag Number: 5C-033237 5C-033238

PROPERTY ADDRESS	21518 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	051
DEPTH INTERVAL	18" - 24" (1.5'-2.0')
SAMPLE ID	TMD-SO-051 - 1.5/2
DATE/TIME	6to6 6/7/2013 0949 FD@ 0950
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-051-1.5/2-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
~~#8~~ 1-6 #7, #8 Refusal	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay (CL). Trace to some sand. Moist. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME G. Kostes SIGNATURE DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-33 USEPA Tag Number: EC-033224

PROPERTY ADDRESS	21518 Lakeland (Yard)
ASSIGNED PROPERTY NUMBER	052
DEPTH INTERVAL	0"-6" (0.0' - 0.5')
SAMPLE ID	TMD-SO-052-0.5
DATE/TIME	6/6/2013 1451
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: (YES) NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown clayey silt (SM). Trace sand and fine gravel. Trace organics. Gr > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME G. Koster SIGNATURE DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-34, 13CD07-35 USEPA Tag Number: SC-033225, SC-033226

PROPERTY ADDRESS	21518 Lakeland (yard)
ASSIGNED PROPERTY NUMBER	052
DEPTH INTERVAL	12" - 18" (1.0' - 1.5')
SAMPLE ID	TMD-SO-052-1.5
DATE/TIME	6/6/2013 1523 FD@ 1524
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-052-1.5-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay (CL). Some sand. Trace fine gravel. GV> 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME G. Koster SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-36 **USEPA Tag Number:** 5C033227

PROPERTY ADDRESS	21601 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	053
DEPTH INTERVAL	0"-6" (0.0'-0.5')
SAMPLE ID	TMD-SO-053-0/0.5
DATE/TIME	6/6/2013 1653
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown silt (ML). Trace to some clay. Trace organics. GV> 1/4" VBS.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
RLV	NAME G. Koster SIGNATURE DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-37 USEPA Tag Number: EC-033228

PROPERTY ADDRESS	21601 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	053
DEPTH INTERVAL	12" - 18" (1.0' - 1.5')
SAMPLE ID	TMD-SO-053-1/1.5
DATE/TIME	6/6/2013 1723
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown clayey silt. Trace fine gravel & organics. CMG GV>1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME G. Kooter SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-48 USEPA Tag Number: 5C-033239

PROPERTY ADDRESS	21601 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	053
DEPTH INTERVAL	18"-24" (1.5'-2.0')
SAMPLE ID	TMD-SO-053.1.5/2
DATE/TIME	6/7/2013 1025
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown to dark brown ~~clayey~~ silty clay (CL) ~~SILT (ML)~~. Trace sand and fine gravel. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME G. Koster
	SIGNATURE
	DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD01-38 USEPA Tag Number: SC-033229

PROPERTY ADDRESS	21601 Lakeland (yard)
ASSIGNED PROPERTY NUMBER	054
DEPTH INTERVAL	0"-6" (0.0'-0.5')
SAMPLE ID	TMD-SO-054-00.5
DATE/TIME	6/6/2013 1756
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown clayey silt (ML). Trace sand & fine gravel. Trace organics. GV> 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME G. Koster SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-39 USEPA Tag Number: SC-033230

PROPERTY ADDRESS	21601 Lakeland (Yard)
ASSIGNED PROPERTY NUMBER	054
DEPTH INTERVAL	12"-18" (1.0'-1.5')
SAMPLE ID	TMD-SO-054-1/1.5 ~~1830~~ GK
DATE/TIME	6/6/2013 1830
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown to dark brown silty clay (CL). trace sand. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME G. Koster SIGNATURE G. Koster DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13C007-49 USEPA Tag Number: 5C-033240

PROPERTY ADDRESS	21601 Lakeland (yard)
ASSIGNED PROPERTY NUMBER	054
DEPTH INTERVAL	18"-24" (1.5'-2.0')
SAMPLE ID	TMD-SO-054-1.5/2
DATE/TIME	6/7/2013 1056
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay (CL). Trace sand. Dry. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME Gr Koster
	SIGNATURE [signature]
	DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-40 USEPA Tag Number: 5C-033231

PROPERTY ADDRESS	21607 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	055
DEPTH INTERVAL	0"-6" (0.0'-0.5')
SAMPLE ID	TMD-SO-055-0/0.5
DATE/TIME	6/6/2013 1901
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	(SM) Brown; Silty Sand; dry; non-cohesive; trace clay; * (Gravel > 1/4" screened out.)

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
G. Koster	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 7/8/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-41 USEPA Tag Number: 5C-033232

PROPERTY ADDRESS	21607 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	055
DEPTH INTERVAL	12"-18" (1.0'-1.5')
SAMPLE ID	TMD-SO-055-1/1.5 ~~1905~~ GK
DATE/TIME	6/6/2013 1906
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-7 #8 Refusal	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown sandy clay (CL). trace fine gravel. GV > 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME G. Koster SIGNATURE DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-50 USEPA Tag Number: 5C-033241

PROPERTY ADDRESS	21607 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	055
DEPTH INTERVAL	0"-6" (0.0'-0.5')
SAMPLE ID	TMD-SO-055-0/0.5 R2
DATE/TIME	6/7/2013 1150
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown Silty-clay, Dry. gravel > 1/4" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
Hutch	NAME G. Koster SIGNATURE DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13C007-51 USEPA Tag Number: 5C-033242

PROPERTY ADDRESS	21607 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	055
DEPTH INTERVAL	12"-18" (1.0' - 1.5')
SAMPLE ID	TMD-50-055-1/1.5R2
DATE/TIME	6/7/2013 1145
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty, sandy clay (CL). trace fine gravel. Dry. GV>1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLB	NAME G. Kaster SIGNATURE [signature] DATE OF QC 7/8/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-52 USEPA Tag Number: 5C-033243

PROPERTY ADDRESS	21607 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	055
DEPTH INTERVAL	0"-6" (0.0'-0.5')
SAMPLE ID	TMD-SO-055-0.5R3
DATE/TIME	6/7/2013 1282
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: N.A.

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

EHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown silt (ML). trace sand and fine gravel. GV>Y+U VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME G. Kosters SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-53 USEPA Tag Number: SC-033244

PROPERTY ADDRESS	21607 Lakeland (parkway)
ASSIGNED PROPERTY NUMBER	055
DEPTH INTERVAL	12"-18" (1.0'-1.5')
SAMPLE ID	TMD-SO-055-1/1.5 R3
DATE/TIME	6/7/2013 1206
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty clay (CL). Trace sand and fine gravel. Dry. GV > 1/4" VBS.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
RLV	NAME G. Koster SIGNATURE [signature] DATE OF QC 7/2/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13C007-42 USEPA Tag Number: SC-03323

PROPERTY ADDRESS	21607 Lakeland (yard)
ASSIGNED PROPERTY NUMBER	056
DEPTH INTERVAL	0"-6" (0.0'-0.5')
SAMPLE ID	TMD-SO-056-0/0.5
DATE/TIME	6/6/2013 1915
REPLICATE SAMPLE	YES (X) NO

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-7 # 8 ~~Refusal~~ No Recovery	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown/dark brown silty clay, some gravel <½", gravel >½" UBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
Hutch	NAME G. Koster SIGNATURE DATE OF QC 7/8/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-43 USEPA Tag Number: 5C-033234

PROPERTY ADDRESS	21607 Lakeland
ASSIGNED PROPERTY NUMBER	056
DEPTH INTERVAL	12"-18" (1.0'-1.5')
SAMPLE ID	TMD-50-056-1/1.5
DATE/TIME	6/6/2013 1935
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

~50 rotations of the SHA

COMMENTS	SAMPLE DESCRIPTION
	(CL) Brown; silty Clay; dry; trace sand; Gravel > ¼" VBS

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
G. Koster	NAME Rachel Blink SIGNATURE Rachel Blink DATE OF QC 7/8/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-~~5~~164 **USEPA Tag Number:** 5C-033281

PROPERTY ADDRESS	21711 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	057
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-057-0/0.5
DATE/TIME	9/9/2013 1621
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: (YES) NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clayey fine SAND, with organics (SC) and trace fine gravel. Dry

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/9/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-65 **USEPA Tag Number:** SC-033282

PROPERTY ADDRESS	21711 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	057
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	THD-SO-057-1/1.5
DATE/TIME	9/9/2013 1613
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown silty to sandy clay, slightly plastic, dry to slightly moist. trace fine gravel. (CL)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/10/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-616 **USEPA Tag Number:** 5C-033283

PROPERTY ADDRESS	21711 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	057
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SO-057-2.5/3
DATE/TIME	9/9/2013 17:46
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: MA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns.

COMMENTS	**SAMPLE DESCRIPTION**
	Clay - (CH) - slightly plastic

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/10/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-67 & 13CD07-68 **USEPA Tag Number:** SC-033284 & SC-033285

PROPERTY ADDRESS	21711 Lakeland (Front Yard)
ASSIGNED PROPERTY NUMBER	058
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-058-0/0.5
DATE/TIME	9/10/2013 0805 EJ 9/10/13
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-058-0/0.5-FD 0806 EJ 9/10/13

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clayey fine sand with organics (SC) and trace fine gravel. Slightly moist.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/10/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-69 **USEPA Tag Number:** 5C-033286

PROPERTY ADDRESS	2171 Lakeland (Front Yard)
ASSIGNED PROPERTY NUMBER	058
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SO-058-1/1.5
DATE/TIME	9/10/13 0845
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: ~~NA~~

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

~~SHA~~ rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown silty to sandy clay (CL), slightly plastic, dry to slightly moist, trace fine gravel.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
TMH	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/10/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13C007-~~70~~ **USEPA Tag Number:** 5C-033287

PROPERTY ADDRESS	21711 Lakeland (Front Yard)
ASSIGNED PROPERTY NUMBER	058
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SO-058-2.5/3
DATE/TIME	9/10/13 0938
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	CLAY-(CH)-Slightly plastic

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/10/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13C007-~~66~~ 71 **USEPA Tag Number:** 5C-033288

PROPERTY ADDRESS	21619 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	059
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-059-0/0.5
DATE/TIME	9/10/13 0917
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Topsoil w/ clay, debris, Brown, Dry

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
TMH	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/10/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CDOT-[redacted]72 **USEPA Tag Number:** 5C-033289

PROPERTY ADDRESS	21619 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	059
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SO-059-1/1.5
DATE/TIME	9/10/2013 0954
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	light greyish brown silty to sandy clay (cl) trace to little fine gravel. very dry.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/10/2013

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-~~873~~ & 13CD07-74 **USEPA Tag Number:** 5C-033290 & 5C-033291

PROPERTY ADDRESS	21619 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	059
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SO-059-2.5/3
DATE/TIME	9/10/2013 1058 ~~SPLIT @ 1059~~
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
Split sample collected.	Clay - fine gravel. Dry

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER** **NAME** **SIGNATURE** **DATE OF QC**

Attachment 1 – Soil Sample Processing Log

SAS Number: 13C D07-75 **USEPA Tag Number:** 5C-033292

PROPERTY ADDRESS	21619 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	060
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-060-0.5 R1
DATE/TIME	9/10/13 1530
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	brown silty fine sand w/ clay (SM-SC) trace organics, trace fine gravel. very dry. ↳ clayey topsoil

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
TMH	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/10/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-76 **USEPA Tag Number:** 5C-033293

PROPERTY ADDRESS	21619 lakeland (front yard)
ASSIGNED PROPERTY NUMBER	060
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SO-060-1/1.5 R1
DATE/TIME	9/10/13 1541
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown silty to sandy clay, trace fine gravel. very dry. slightly cohesive. (CL)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
TMH	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/10/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-~~77~~ **USEPA Tag Number:** 5C-033294

PROPERTY ADDRESS	21619 Lakeland
ASSIGNED PROPERTY NUMBER	060
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SO-060-2.5/3 R1
DATE/TIME	9/10/13 1549
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

~~SHA~~ rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown silty to sandy clay (CL), very hard, very dry.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
TMH & SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/10/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-78 **USEPA Tag Number:** 5C-033295

PROPERTY ADDRESS	21619 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	060
DEPTH INTERVAL	0-0.5 (0-6")
SAMPLE ID	TMD-SO-060-0/0.5 R2
DATE/TIME	9/10/13 1627
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clayey - fine sand, trace gravels Few organics

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth ~~Hill~~ Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/11/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13D07-79 **USEPA Tag Number:** 5C-033296

PROPERTY ADDRESS	21619 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	060
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SO-060-1/1.5R2
DATE/TIME	9/10/13 1638
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clayey SAND with gravel (SC) Dry. not plastic.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SHA	NAME Elizabeth ~~Harkman~~ (EA) Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/11/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07~~80~~ 5 13CD07~~81~~2 **USEPA Tag Number:** 5C-033297 5 5C-033298

PROPERTY ADDRESS	21619 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	060
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SO-060-2.5/3R2
DATE/TIME	9/10/13 1619
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-060-2.5/3R2-FD @ 1620

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clay - Slightly Plastic - Dry (CL)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/11/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-~~83~~ 82 ≷ 13CD07-~~83~~ USEPA Tag Number: SC-033299 ≷ SC-033300

PROPERTY ADDRESS	21619 Lakeland (Front Yard)
ASSIGNED PROPERTY NUMBER	060
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-060-0.5 R3
DATE/TIME	9/10/13 1640
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
Collected split sample	Clayey sand - organics, with trace fine gravel. Dry (SC)

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
S.VD	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/11/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-~~33~~84 USEPA Tag Number: ~~SC-033600~~ SC-033601

PROPERTY ADDRESS	21619 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	060
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SO-060-1/1.5R3
DATE/TIME	9/11/13 0815
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: MA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Light brown silty to sandy clay (CL), very dry, trace fine gravel.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/12/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-85 **USEPA Tag Number:** 5C-033602

PROPERTY ADDRESS	31619 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	060
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SO-060-2.5/3 R3
DATE/TIME	9/11/2013 0925
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Greyish brown silty clay with little sand & fine gravel. slightly moist (CL), very hard.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAT	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/12/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-86- **USEPA Tag Number:** SC-033603

PROPERTY ADDRESS	21613 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	0161
DEPTH INTERVAL	0-0.5' (0-6)"
SAMPLE ID	TMD-SD-0161-%0.5
DATE/TIME	9/11/13 / 0935
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
~~#S1-9~~ #S1-9	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clayey sand with fine gravel and some organics. (SC)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/12/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-87 **USEPA Tag Number:** SC-0336024

PROPERTY ADDRESS	21613 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	061
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	JMD-SO-061-1/1.5
DATE/TIME	9/11/13 1045
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
~~#S1-8~~ #S1-9	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Light greyish brown silty to sandy clay (CL) trace to little fine gravel. hard, dry.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/12/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-88 **USEPA Tag Number:** 5C-033605

PROPERTY ADDRESS	21613 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	061
DEPTH INTERVAL	2-5-3' (30-36")
SAMPLE ID	TMD-SO-061-2.5/3
DATE/TIME	9/11/2013 / 1220
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: MA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
~~#S1-8~~ #S1-9	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clays with fine sand. Dry (SC)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/12/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-89 **USEPA Tag Number:** SC-033602

PROPERTY ADDRESS	21613 Lakeland (Front Yard)
ASSIGNED PROPERTY NUMBER	062
DEPTH INTERVAL	0 - 0.5' (0-6")
SAMPLE ID	TMD-SO-062-0/0.5
DATE/TIME	9/11/13 1100
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
~~#1-8~~ ~~#1-9~~ #s 1-11	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown silty fine sand w/ clay (SMSC), trace fine gravel, organics. very dry.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/12/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-90 & 13CD07-91 **USEPA Tag Number:** SC-033607 & SC-033608

PROPERTY ADDRESS	31613 Lakeland (Front Yard)
ASSIGNED PROPERTY NUMBER	062
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SO-062-1/1.5 ~~1130~~ (EA)
DATE/TIME	9/11/13 1113 FD@1131
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-062-1/1.5-FD @1131

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
~~#3 1-11~~ #3 1-11	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	brown silty fine to med. sand (SM SP) with some clay. trace gravel. dry.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/12/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-92 **USEPA Tag Number:** 5C-033609

PROPERTY ADDRESS	21613 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	062
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SO-062-2.5/3
DATE/TIME	9/11/13/1343
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: MA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
~~#S1-9~~ #S 1-11	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clay with trace fine gravels. Dry, not plastic (CL)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/12/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-93 & 13CD07-94 (split) **USEPA Tag Number:** 5C-033610 & 5C-03611 (split)

PROPERTY ADDRESS	~~31613~~ 31624 Lakeland (parkway)
ASSIGNED PROPERTY NUMBER	063
DEPTH INTERVAL	0-0.5 (0-6 inches)
SAMPLE ID	TMD-SO-063-%0.5
DATE/TIME	~~9/11~~ 9/11/13 1334
REPLICATE SAMPLE	YES NO

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
Split sample collected TMD-SO-063-%0.5-Split	Clayey-sand with fine gravel and some organics. (SC)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	**NAME** Elizabeth Johnson **SIGNATURE** Elizabeth Johnson **DATE OF QC** 9/12/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-95 **USEPA Tag Number:** SC-033612

PROPERTY ADDRESS	21624 Lakeland (parkway)
ASSIGNED PROPERTY NUMBER	063
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SO-063-1/1.5
DATE/TIME	9/11/13 1430
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	brown silty to sandy clay (CL), trace fine gravel. very hard, very dry.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Eliz Johnson DATE OF QC 9/11/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-96 **USEPA Tag Number:** SC-033613

PROPERTY ADDRESS	21624 Lakeland (parkway)
ASSIGNED PROPERTY NUMBER	063
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SO-063-2.5/3
DATE/TIME	9/11/13 15:43
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns.

COMMENTS	**SAMPLE DESCRIPTION**
	Stiff clay, dry, not plastic. (CL)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/12/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-97 **USEPA Tag Number:** SC-033614

PROPERTY ADDRESS	31624 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	064
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-064-0/0.5
DATE/TIME	9/11/13 1458
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SAA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown silty fine sand w/ clay (SMSC) [clayey topsoil] trace fine gravel. Dry

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/12/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-98 **USEPA Tag Number:** 5C-033615

PROPERTY ADDRESS	21624 Lakeland
ASSIGNED PROPERTY NUMBER	064
DEPTH INTERVAL	1-1.5 (12-18")
SAMPLE ID	TMD-SO-064-1/1.5
DATE/TIME	9/11/13 1527
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SAA rotated ~ 50 turns.

COMMENTS	**SAMPLE DESCRIPTION**
	Brown fine to med. sand w/ clay (SPSC) slightly moist, trace gravel.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/12/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD07-99 **USEPA Tag Number:** 5C-0336116

PROPERTY ADDRESS	21624 Bon Brae
ASSIGNED PROPERTY NUMBER	064
DEPTH INTERVAL	2.5-3 (30-36")
SAMPLE ID	TMD-20-064-2.5/3
DATE/TIME	9/11/13 16:26
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clay, slightly plastic (CH)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/12/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-01 & 13CD08-02 USEPA Tag Number: SC-033617 & SC-033618

PROPERTY ADDRESS	31618 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	065
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-065-0/0.5
DATE/TIME	9/11/13 1654 & 1655
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-065-0/0.5-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Clayey sand with fine gravel in trace amounts, some organics (SC)

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/12/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-03 USEPA Tag Number: SC-0 3362~~19~~20

PROPERTY ADDRESS	21618 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	065
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	JMD-SO-065-1/1.5
DATE/TIME	9/12/13 0905
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brownish grey silty to sandy clay (CL), trace to little fine gravel. GR>1/4" VBS. very dry, hard.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/13/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-04 **USEPA Tag Number:** 5C-033620

PROPERTY ADDRESS	21618 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	065
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SO-065-2.5/3
DATE/TIME	9/12/13 1059
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clay - slightly plastic with trace fine gravel. (CL/CH)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/13/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-05 **USEPA Tag Number:** SC-033622

PROPERTY ADDRESS	21618 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	0666
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	FMD-SO-0666-0.5
DATE/TIME	9/12/13 0800
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clayey sand with some organics and trace fine gravel. Dry. (SC)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/13/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13C008-06 & 13C008-07 (split) USEPA Tag Number: SC-033623 & SC-033624 (split)

PROPERTY ADDRESS	21618 Lakeland (Front Yard)
ASSIGNED PROPERTY NUMBER	0666
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SO-0666-1/1.5
DATE/TIME	9/12/13 1032
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: (YES) NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
Collected split sample TMD-SO-0666-1/1.5-~~FD~~ split	Brown silty to sandy clay (CL), trace to little fine gravel, hard, dry.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/13/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-08 **USEPA Tag Number:** 5C-033625

PROPERTY ADDRESS	21618 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	0666
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SS-0666-2.5/3
DATE/TIME	9/12/13 1151
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown silty to sandy clay (CL), little fine gravel. slightly mosty slightly plastic.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/13/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-09 **USEPA Tag Number:** 5C-033626

PROPERTY ADDRESS	21607 Lakeland (Back Yard)
ASSIGNED PROPERTY NUMBER	067
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-067-0.5
DATE/TIME	9/12/13 13:12
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clayey sand with gravel and some organics. Dry (SC)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/13/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-10 **USEPA Tag Number:** SC-033627

PROPERTY ADDRESS	21607 Lakeland (Back Yard)
ASSIGNED PROPERTY NUMBER	067
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	THD-SO-067-1/1.5
DATE/TIME	9/12/13 12:30
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clay - Dry, not plastic. Trace fine gravel. (CH)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/13/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-11 **USEPA Tag Number:** 5C-033628

PROPERTY ADDRESS	21607 Lakeland (Back Yard)
ASSIGNED PROPERTY NUMBER	067
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SO-067-2.5/3
DATE/TIME	9/12/13 1619
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown silty to sandy clay (CL), slightly moist trace fine gravel, hard.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/13/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13C008-12 USEPA Tag Number: SC-033629

PROPERTY ADDRESS	21612 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	0068
DEPTH INTERVAL	0-0.5 (0-6")
SAMPLE ID	TMD-SD-068-0.5
DATE/TIME	9/12/13 1300
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown silty fine sand w/ clay (SMSC), trace to little fine gravel. Slightly moist.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/13/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-13 & 13CD08-14 USEPA Tag Number: 5C-033630 & 5C-033631

PROPERTY ADDRESS	21612 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	068
DEPTH INTERVAL	1-1.5 (12-18")
SAMPLE ID	TMD-SO-068-1/1.5
DATE/TIME	9/12/13 1459 FD@ 1500
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-068-1/1.5-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown clay (CH), trace sand & fine gravel. plastic, soft to med. stiff

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/13/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13C008-15 **USEPA Tag Number:** 5C-033632

PROPERTY ADDRESS	21612 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	068
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-80-068-2.5/3
DATE/TIME	9/12/13 @ 15:54
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clay with trace fine gravel - moist, slightly plastic (CL)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/13/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-16 **USEPA Tag Number:** SC-033633

PROPERTY ADDRESS	21600 LAKELAND (PARKWAY)
ASSIGNED PROPERTY NUMBER	069
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-069-%0.5
DATE/TIME	9/12/13 17:15
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	CLAY Sand with some organics and loose fine gravel (SC)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SJD	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/13/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-17 & 13CD08-18 USEPA Tag Number: 5C-0336345 5C-0336335

PROPERTY ADDRESS	21600 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	069
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SD-069-1/1.5
DATE/TIME	9/13/13 1231
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SAA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
Split sample collected TMD-SD-069-1/1.5-Split	~~Clay- moist, slightly plastic~~ Brown silty to sandy clay (CL), trace fine gravel hard, dry.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
SND GEK	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/14/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-19 **USEPA Tag Number:** 5C-0336036

PROPERTY ADDRESS	21600 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	069
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SO-069-2.5/3
DATE/TIME	9/13/13 14:30
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clay, dry, not plastic with some gravel (CL)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/14/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-20 **USEPA Tag Number:** SC-033637

PROPERTY ADDRESS	21612 Lakeland (Yard-Front)
ASSIGNED PROPERTY NUMBER	070
DEPTH INTERVAL	0-0.5
SAMPLE ID	TMD-SO-070-0.5
DATE/TIME	9/12/13 1730
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clayey SAND with trace fine gravel, slightly moist. (SC)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SNA	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/19/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-21 USEPA Tag Number: 5C-033638

PROPERTY ADDRESS	21612 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	070
DEPTH INTERVAL	1-1.5 (12-18")
SAMPLE ID	TMD-SO-070-1/1.5
DATE/TIME	9/13/2013 0900
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Clay (CH), moist, slightly plastic

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/14/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-22 USEPA Tag Number: SC-033639

PROPERTY ADDRESS	21612 Lakeland
ASSIGNED PROPERTY NUMBER	070
DEPTH INTERVAL	2.5-3 (30-36")
SAMPLE ID	IMD-SO-070-2.5/3
DATE/TIME	9/13/13 1127
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown clay (CH), some fine to med. sand, very soft, very plastic, slightly moist

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/14/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13D08-23 USEPA Tag Number: SC-033640

PROPERTY ADDRESS	21725 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	071
DEPTH INTERVAL	0-0.5 (0-6")
SAMPLE ID	TMD-SO-071-0/0.5
DATE/TIME	9/13/13 1144
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown to dark brown silty fine sand w/ clay (SMSC), trace fine gravel, organics (clayey topsoil), dry

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/14/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-24 **USEPA Tag Number:** SC-033641

PROPERTY ADDRESS	21725 Lakeland
ASSIGNED PROPERTY NUMBER	071
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SO-071-1/1.5
DATE/TIME	9/13/13 1224
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: MA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SMA rotated ~ 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brownish grey silty to sandy clay (CL) trace fine gravel. med. stiff, dry

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/14/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13D08-25 & 13D08-26 USEPA Tag Number: 5C-033642 & 5C-033643

PROPERTY ADDRESS	21725 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	071
DEPTH INTERVAL	2.5-3 (30-36")
SAMPLE ID	TMD-SO-071-2.5/3
DATE/TIME	9/13/13 1409 FD@ 1410
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-071-2.5/3-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
	Grey silty to sandy clay, (CL) trace fine gravel. Dry, hard

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
GCR	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/14/13

Attachment 1 – Soil Sample Processing Log

SAS Number: @ 13CD08 - 27 **USEPA Tag Number:** SC-03364[illegible]

PROPERTY ADDRESS	21680 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	072
DEPTH INTERVAL	0-0.5 (0-6")
SAMPLE ID	TMD-SO-072-0.5
DATE/TIME	9/13/13 0948
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clayey sand with trace fine gravel and some organics (SC)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/14/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-28 USEPA Tag Number: SC-033645

PROPERTY ADDRESS	21600 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	072
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SO-072-1/1.5
DATE/TIME	9/13/13 0933
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: (YES) NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown to grey silty ~~fine to no~~ to sandy clay (CL) trace fine gravel. very dry, very hard.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/14/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-29 **USEPA Tag Number:** 5C-0331646

PROPERTY ADDRESS	21600 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	072
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-80-072-2.5/3
DATE/TIME	9/13/13 1044
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SPPA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown silty to sandy clay (CL), trace fine gravel. very hard, dry

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/14/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-30 USEPA Tag Number: SC-033647

PROPERTY ADDRESS	21725 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	073
DEPTH INTERVAL	0-0.5
SAMPLE ID	TMD-SO-073-0/0.5
DATE/TIME	9/13/13 1307
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S 1-10	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown silty fine to med. sand, little clay, trace fine gravel. organics. Dry (SM) topsoil

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/14/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-31 **USEPA Tag Number:** SC-033648

PROPERTY ADDRESS	21725 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	073
DEPTH INTERVAL	1-1.5 (12-18")
SAMPLE ID	THD-SO-073-1/1.5
DATE/TIME	9/13/13 1327
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#1-10	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown fine to med. sand (SP) trace silt & clay, trace fine gravel. Dry.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/14/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-32 **USEPA Tag Number:** SC-033649

PROPERTY ADDRESS	21725 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	073
DEPTH INTERVAL	2.5-3 (30-36")
SAMPLE ID	TMD-SO-073-2.5/3
DATE/TIME	9/13/13 1416
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-10	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Light brown fine to med sand w/ grey clay. slightly moist, clay is slightly plastic & med. stiff to stiff

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/14/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-33 & 13CD08-34 USEPA Tag Number: SC-033650 & SC-033651

PROPERTY ADDRESS	21522 Bon Brae
ASSIGNED PROPERTY NUMBER	074
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-074-90.5 R1
DATE/TIME	9/16/13 13:39
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: MA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

3HA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
Collected split sample TMD-SO-074-90.5R1-Split	Clayey sand with trace fine gravel and some organics, dry.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/17/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-35 USEPA Tag Number: SC-033652

PROPERTY ADDRESS	21522 Bon Brae
ASSIGNED PROPERTY NUMBER	074
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SO-074-01.5 R1
DATE/TIME	9/16/13 14:15
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Clayey sand with trace gravel and few organics, dry.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/17/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-36 USEPA Tag Number: SC-033653

PROPERTY ADDRESS	21522 Bon Bril
ASSIGNED PROPERTY NUMBER	074
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	JMD-SO-074-2.5/3 R1
DATE/TIME	9/16/13 16:18
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	SAMPLE DESCRIPTION
	Clay, very dark with trace gravels. Not plastic (CL)

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/17/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-37 & 13CD08-38 **USEPA Tag Number:** SC-033634 & SC-033635

PROPERTY ADDRESS	21522 Bon Brae
ASSIGNED PROPERTY NUMBER	074
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-074-0|0.5 R2
DATE/TIME	9/16/13 1331 & 1333
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-074-0\|0.5 R2-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown silty fine sand w/clay, trace med to coarse sand & fine gravel, organics. slightly moist (SM)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/17/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-39 & 13CD08-40 USEPA Tag Number: SC-033656 & SC-033657

PROPERTY ADDRESS	21522 Bon Brae
ASSIGNED PROPERTY NUMBER	074
DEPTH INTERVAL	~~1-2~~ 1-1.5' (12-18")
SAMPLE ID	TMD-SO-074-1/1.5R2
DATE/TIME	9/16/13 1359
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: ~~YES~~ (EQ) (NO)

FD SAMPLE DESIGNATION: ~~TMD-SO-074-1/1.5R2-~~ EQ

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
Collected split sample. TMD-SO-074-1/1.5R2 split	Brown ~~fine~~ clay w/ silt & fine to med. sand (CL), trace fine gravel. Dry.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/17/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-41 **USEPA Tag Number:** SC-033658

PROPERTY ADDRESS	21522 Bon Brae
ASSIGNED PROPERTY NUMBER	074
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	THD-SO-074-2.5/3 R2
DATE/TIME	9/16/13 1545
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Greyish brown silty to sandy clay (CL) trace to little fine gravel. Dry, hard.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/17/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-42 **USEPA Tag Number:** SC-033659

PROPERTY ADDRESS	21522 Bon Brae
ASSIGNED PROPERTY NUMBER	074
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	~~IMD 074~~ (SS) IMD-SO-074-90-SR3
DATE/TIME	9/17/13 0742
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	CLAYEY SAND with few organics AND trace fine gravel (SC)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-43 **USEPA Tag Number:** SC-033660

PROPERTY ADDRESS	21522 Bon Brae
ASSIGNED PROPERTY NUMBER	074
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SO-074-1/1.5R3
DATE/TIME	9/17/13 0837
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: MA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clayey sand with few organics and trace gravels. Dry, not plastic (SC)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-44 **USEPA Tag Number:** SC-033606 1

PROPERTY ADDRESS	21522 Bon Brae
ASSIGNED PROPERTY NUMBER	074
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SO-074-2.5/3R3
DATE/TIME	9/17/13 1036
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns.

COMMENTS	**SAMPLE DESCRIPTION**
	Clay- dry, not plastic trace fine gravel (CL)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-45 USEPA Tag Number: SC-0336663

PROPERTY ADDRESS	21534 Bon Brae (Back yard)
ASSIGNED PROPERTY NUMBER	075
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-075-%0.5
DATE/TIME	9/17/13 0901
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: MA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns.

COMMENTS	SAMPLE DESCRIPTION
	Dark brown silty fine sand, some clay & organics, trace fine gravel. Dry to slightly moist. (SM)

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-46 **USEPA Tag Number:** 5C-033664

PROPERTY ADDRESS	21534 Bon Brae
ASSIGNED PROPERTY NUMBER	075
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SO-075-1/1.5'
DATE/TIME	9/17/13 0935
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown silty fine to med. sand, some clay, trace gravel. Dry. (SP)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-47 & 13CD08-48 **USEPA Tag Number:** 5C-0336065 & 5C-0336066

PROPERTY ADDRESS	21595 Lakeland (Backyard)
ASSIGNED PROPERTY NUMBER	076
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-076-0.5
DATE/TIME	9/17/13 1008 & 1009
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO (80)

FD SAMPLE DESIGNATION: ~~DUP~~ TMD-SO-076-0.5-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Light brown silty fine sand, some clay, trace fine gravel & organics. Dry.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13D08-~~49~~ 49 **USEPA Tag Number:** 5C-033663

PROPERTY ADDRESS	21595 Lakeland
ASSIGNED PROPERTY NUMBER	076
DEPTH INTERVAL	1-1.5'
SAMPLE ID	TMD-SO-076-1/1.5
DATE/TIME	9/17/13 1045
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: ~~YES~~ EAJ (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#5 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown silty fine to med. sand, some clay, trace fine gravel. Dry. (SP)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13C D08 - 50 **USEPA Tag Number:** 5C-0336068

PROPERTY ADDRESS	21572 Bon Brae (Back yard)
ASSIGNED PROPERTY NUMBER	077
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	IMD-SO-077-0/0.5
DATE/TIME	9/17/13 1057
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: (YES) NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clayey sand with few organics and trace gravel. Dry (SC)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	**NAME** Elizabeth Johnson **SIGNATURE** Elizabeth Johnson **DATE OF QC** 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-51 **USEPA Tag Number:** SC-0336669

PROPERTY ADDRESS	21512 Bon Brae (Back yard)
ASSIGNED PROPERTY NUMBER	077
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SO-077-1/1.5
DATE/TIME	9/17/13 1128
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clayey sand with trace organics and fine gravel. Dry (SC)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-52 & 13CD08-53 (53 ↙ Split) USEPA Tag Number: SC-033670 & SC-033671 (671 ↙ Split)

PROPERTY ADDRESS	21512 Bon Brae
ASSIGNED PROPERTY NUMBER	077
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SO-077-2.5/3
DATE/TIME	9/17/13 14:17
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
Collected split sample TMD-SO-077-2.5/3-~~FD~~ split	Clay, hard, dry with trace fine gravel/brick. (CL)

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-54 **USEPA Tag Number:** 5C-033672

PROPERTY ADDRESS	21601 Lakeland (Back yard)
ASSIGNED PROPERTY NUMBER	078
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-078-%0.5R1
DATE/TIME	9/17/13 1330
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns.

COMMENTS	**SAMPLE DESCRIPTION**
	dark brown clay w/ sand, organics (CL)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
GCK	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-55- **USEPA Tag Number:** 5C-033673

PROPERTY ADDRESS	~~TMD-SO-078-1.5RI~~ (SO) 21601 Lakeland (Back Yard)
ASSIGNED PROPERTY NUMBER	078
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SO-078-1/1.5 RI
DATE/TIME	9/17/13 1430
REPLICATE SAMPLE	(YES) RI NO

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	dark brown sand w/ clay, organics, trace pebbles (SC)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
GCK	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-56 USEPA Tag Number: 5C-033674

PROPERTY ADDRESS	21601 Lakeland (Back yard)
ASSIGNED PROPERTY NUMBER	078
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SO-078-2.5/3 R1
DATE/TIME	9/17/13 1507
REPLICATE SAMPLE	(YES) NO R1

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns.

COMMENTS	SAMPLE DESCRIPTION
	dark brown clay, trace sand, trace organics

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
GCK	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13C008-57 **USEPA Tag Number:** SC-033675

PROPERTY ADDRESS	21601 Lakeland (Back yard)
ASSIGNED PROPERTY NUMBER	078
DEPTH INTERVAL	0-0.5 (0-6")
SAMPLE ID	TMD-SO-078-0/0.5 R2
DATE/TIME	9/17/13 1322
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown silty fine sand, some clay, trace fine gravel. Dry (SM)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-58 & 13CD08-59 **USEPA Tag Number:** 5C-033676 & 5C-033677

PROPERTY ADDRESS	21601 Lakeland (Back Yard)
ASSIGNED PROPERTY NUMBER	078
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-80-078-1/1.5R2
DATE/TIME	9/17/13 1409 FD@1410
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-80-078-1/1.5R2-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHAs rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Brown silty fine to med. sand w/clay (SPSC). Dry, trace fine gravel.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAT	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-60 **USEPA Tag Number:** SC-033678

PROPERTY ADDRESS	21601 Lakeland (Back yard)
ASSIGNED PROPERTY NUMBER	078
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-SO-078-2.5/3 R2
DATE/TIME	9/17/13 1515
REPLICATE SAMPLE	(YES) NO R2

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clay, dry not plastic with trace fine gravel/brick (CL)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-61 **USEPA Tag Number:** SC-033679

PROPERTY ADDRESS	21601 Lakeland (Back Yard)
ASSIGNED PROPERTY NUMBER	078
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-078-00.5R3
DATE/TIME	9/17/13 1340
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE

#s 1-8

PRELIMINARY ANALYSIS (WET WEIGHT, PPM)

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS

SAMPLE DESCRIPTION

Clayey Silt -> silty clay; brown; organics (roots); trace debris; firm to stiff (ML)

Gravel > 1/4" screened out.

PROCESSOR NAME(S)

G. Koster

FIELD QUALITY MANAGER

NAME Elizabeth Johnson

SIGNATURE Elizabeth Johnson

DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-62 **USEPA Tag Number:** 5C-033680

PROPERTY ADDRESS	21601 Lakeland (Back Yard)
ASSIGNED PROPERTY NUMBER	078
DEPTH INTERVAL	1-1.5 ft (12-18")
SAMPLE ID	JMD-SO-078-1'1.5R3
DATE/TIME	9/17/13 1450
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Silty Clay; dry; trace debris; stiff → v. stiff trace organics (roots) (CL) Gravel > 1/4" screened out

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
G. Koster	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-63 **USEPA Tag Number:** 5C-033681

PROPERTY ADDRESS	21601 Lakeland (Back yard)
ASSIGNED PROPERTY NUMBER	078
DEPTH INTERVAL	2.5-3' (30-36")
SAMPLE ID	TMD-80-078-2.5/3R3
DATE/TIME	9/17/13 1527
REPLICATE SAMPLE	(YES) NO R3

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns.

COMMENTS	**SAMPLE DESCRIPTION**
	Silty Clay; Brown; hard→v.hard; trace org. (roots); dry. (CL) Gravel > 1/4" screened out

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
G. Koster	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/18/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-64 ~~13CD08-65~~ USEPA Tag Number: 5C-033682 ~~5C-033683~~

PROPERTY ADDRESS	21811 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	079
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-079-%0.5
DATE/TIME	9/19/13 ~~13:53~~ 13:38
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-9	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
~~collected split sample~~ (@) ~~TMD-SO-079-%0.5-Split~~	Fine to medium sand with trace organics and fine gravel. (SP)

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/20/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-65 & 13CD08-66 USEPA Tag Number: 5C-033683 & 5C-033684

PROPERTY ADDRESS	21811 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	079
DEPTH INTERVAL	12-18" (1-1.5')
SAMPLE ID	JMD-SO-079-1/1.5
DATE/TIME	9/19/13 1253
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-9	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
Collected split sample JMD-SO-079-1/1.5-Split	Fine to med. sand w/ trace organics (SP)

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/20/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-67 **USEPA Tag Number:** SC-033685

PROPERTY ADDRESS	21811 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	080
DEPTH INTERVAL	0-0.5 (0-6")
SAMPLE ID	TMD-SO-080-0/0.5
DATE/TIME	9/19/13 1314
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-9	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown clayey silty & fine sand (SM-SC) clayey topsoil, organics, slightly moist

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/20/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13 CD08-68 USEPA Tag Number: 5C-033686

PROPERTY ADDRESS	21811 Lakeland
ASSIGNED PROPERTY NUMBER	080
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SO-080-1/1.5
DATE/TIME	9/19/13 1248
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-9	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Brown fine to med. sand (SP), little clay, trace fine gravel. Slightly moist.

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/20/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-69 & 13CD08-70 USEPA Tag Number: SC-033687 & SC-033688

PROPERTY ADDRESS	21805 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	081
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-081-0/0.5
DATE/TIME	9/19/13 1407 & 1408 → FD
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-081-0/0.5-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	PRELIMINARY ANALYSIS (WET WEIGHT, PPM)
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	SAMPLE DESCRIPTION
	Dark brown ~~silt~~ clayey silt & fine sand w/ organics. Slightly moist. (ML)

PROCESSOR NAME(S)	FIELD QUALITY MANAGER
EAT	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/20/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-71 **USEPA Tag Number:** SC-033689

PROPERTY ADDRESS	21805 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	081
DEPTH INTERVAL	1-1.5 (12-18")
SAMPLE ID	JMD-SO-081-1/1.5
DATE/TIME	9/19/13 1346
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Greyish brown fine to med. sand (SP) slightly mast, med. dense.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/20/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-72 **USEPA Tag Number:** 5C-033690

PROPERTY ADDRESS	21805 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	082
DEPTH INTERVAL	0-0.5 (0-6")
SAMPLE ID	TMD-SO-082-0/0.5
DATE/TIME	9/19/13 14:24
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: (YES) NO

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clayey sand, clay not plastic (SC) with organics and trace fine gravel.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/20/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-73 **USEPA Tag Number:** SC-033691

PROPERTY ADDRESS	21805 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	082
DEPTH INTERVAL	1-1.5 (12-18")
SAMPLE ID	TMD-SD-082-1/1.5 (SD)
DATE/TIME	9/9/13 14:24
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: MA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Clayey-sand-slightly moist, not plastic. (SC)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/20/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-74 **USEPA Tag Number:** 5C-0336092

PROPERTY ADDRESS	21700 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	083
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-083-%0.5
DATE/TIME	9/19/13 1559
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown silty fine sand, w/ organics trace fine gravel. Dry. (SM)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/20/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-75 **USEPA Tag Number:** SC-033693

PROPERTY ADDRESS	21700 Lakeland (Parkway)
ASSIGNED PROPERTY NUMBER	083
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	JMD-SO-083-1/1.5
DATE/TIME	9/19/13 1615
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Sandy Clay; brown; stiff; trace org. (roots); moist to dry. (SCL)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
G. Kostes	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/20/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-76 & 13CD08-77 **USEPA Tag Number:** SC-033694 & SC-033695

PROPERTY ADDRESS	21700 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	084
DEPTH INTERVAL	0-0.5 (0-6")
SAMPLE ID	TMD-SO-084-0.5
DATE/TIME	9/19/13 16:34
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~ 50 turns

COMMENTS	**SAMPLE DESCRIPTION**
Split sample collected TMD-SO-084-0.5-split	Clayey sand with some organics and fine gravel. Dry. (SC)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
SND	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/20/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD08-78 **USEPA Tag Number:** 5C-033696

PROPERTY ADDRESS	21700 Lakeland (Front yard)
ASSIGNED PROPERTY NUMBER	084
DEPTH INTERVAL	1-1.5' (12-18")
SAMPLE ID	TMD-SS-084-1/1.5
DATE/TIME	9/19/13 1600
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns.

COMMENTS	**SAMPLE DESCRIPTION**
	Clayey Silt; brown; stiff; moist; (ML) trace org. (roots) Gravel > 1/4" screened out

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
S. Dunford G. Koster	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/20/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13CD089-79 **USEPA Tag Number:** SC-033697

PROPERTY ADDRESS	21512 Bon Brae (Parkway)
ASSIGNED PROPERTY NUMBER	085
DEPTH INTERVAL	0-0.5 (0-6")
SAMPLE ID	TMD-SO-085-0\0.5
DATE/TIME	9/19/13 1456
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#s 1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SAA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown silty fine sand w/ organics, trace to little clay. trace fine gravel. Dry. (SM)

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
GCK	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/20/13

Attachment 1 – Soil Sample Processing Log

SAS Number: ~~21542~~ 13C008-80 **USEPA Tag Number:** 5C-033698

PROPERTY ADDRESS	21522 Bon Brae (Parkway)
ASSIGNED PROPERTY NUMBER	086
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-086-0.5
DATE/TIME	9/19/13 1440
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SAA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Dark brown silty fine sand w/ some clay & organics (SCSM), trace fine gravel. Dry.

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
EAJ	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/20/13

Attachment 1 – Soil Sample Processing Log

SAS Number: 13C008-81 & 13C008-82 **USEPA Tag Number:** SC-033699 & SC-033700

PROPERTY ADDRESS	21534 Bon Brae (Parkway)
ASSIGNED PROPERTY NUMBER	087
DEPTH INTERVAL	0-0.5' (0-6")
SAMPLE ID	TMD-SO-087-0.5
DATE/TIME	9/19/13 1450 FD @ 1451
REPLICATE SAMPLE	YES (NO)

ASSOCIATED QA/QC SAMPLE

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-SO-087-0.5-FD

MS/MSD COLLECTED: YES (NO)

SUB-SAMPLE LOCATIONS INCLUDED IN HOMOGONIZED SAMPLE	**PRELIMINARY ANALYSIS (WET WEIGHT, PPM)**
#S1-8	

DESCRIBE SAMPLE HOMOGENIZATION PROCESS (NUMBER OF REVOLUTIONS, OBSERVATIONS, PROBLEMS)

SHA rotated ~50 turns

COMMENTS	**SAMPLE DESCRIPTION**
	Silty Sand; brown; stiff; dry; heavy organics (roots) (SM) Gravel > 1/4" screened out

PROCESSOR NAME(S)	**FIELD QUALITY MANAGER**
G. Koster	NAME Elizabeth Johnson SIGNATURE Elizabeth Johnson DATE OF QC 9/20/13

Attachment D
Manhole Sample Forms

Manhole Sediment/Oil Sampling Log

SAS Number: 13D06-01 USEPA Tag Number: SC-054989

MANHOLE ID	M4266
SAMPLE ID	TMD-MH-001
DATE/TIME	5/23/13 @ 0820
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	Stettler + Harper (25800 Harper)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

G. Koster

FIELD QUALITY MANAGER

NAME Rachel Vaughan

SIGNATURE Rachel Vaughan

DATE OF QC 5/29/13

Manhole Sediment/Oil Sampling Log

SAS Number: 13C006-02 USEPA Tag Number: 5C-054990

MANHOLE ID	M4268
SAMPLE ID	TMD-MH-002
DATE/TIME	5/23/13 0855
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	Madison & Harper
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

G. Koster

FIELD QUALITY MANAGER

NAME Rachel Vaughan

SIGNATURE RachelVaughan

DATE OF QC 5/29/13

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-03 **USEPA Tag Number:** 5C-052491

MANHOLE ID	M4224
SAMPLE ID	TMD-MH-003
DATE/TIME	5/23/13 0920
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	Madison & ~~Jefferson~~ (EV) Harper
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	(YES) ~~(NO)~~

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

G. Kaster

FIELD QUALITY MANAGER

NAME Rachel Vaughan

SIGNATURE Rachel Vaughan

DATE OF QC 5/29/13

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-04 & 13CD06-05 **USEPA Tag Number:** SC-054992 & SC-054993

MANHOLE ID	M7184
SAMPLE ID	TMD-(GK)-MH-004
DATE/TIME	5/23/13 0940 FD@0941
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21530 Lakeland
OIL OBSERVED	(YES) NO
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-MH-004-FD

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

Slight odor on roller when sampled. "Sweet smelling"

SAMPLER NAME(S)

G. Koster

FIELD QUALITY MANAGER

NAME Rachel Vaughan

SIGNATURE Rachel Vaughan

DATE OF QC 5/29/13

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-00 USEPA Tag Number: 5C-054994

MANHOLE ID	M4263
SAMPLE ID	TMD-MH-005
DATE/TIME	5/23/13 0955
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	Lakeland & Harper Ave
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

Snare present – Also a lot of floating debris

SAMPLER NAME(S)

G. Koster

FIELD QUALITY MANAGER

NAME Rachel Vaughan

SIGNATURE Rachel Vaughan

DATE OF QC 5/29/13

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-07 USEPA Tag Number: SC-054995

MANHOLE ID	M4262
SAMPLE ID	TMD-MH-006
DATE/TIME	5/23/13 1015
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	In front of Fresenius along Harper
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

G. Koster

FIELD QUALITY MANAGER

NAME Rachel Vaughan

SIGNATURE Rachel Vaughan

DATE OF QC 5/29/13

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD00-08 USEPA Tag Number: SC-0549960

MANHOLE ID	M7182
SAMPLE ID	TMD-MH-007
DATE/TIME	5/23/2013 1045
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	Bon Brae Court ~~West~~ East side of 21531 Bon Brae
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

G. Koster & L. Johnson

FIELD QUALITY MANAGER

NAME Rachel Vaughan

SIGNATURE Rachel Vaughan

DATE OF QC 5/29/13

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-09 **USEPA Tag Number:** 5C-054997

MANHOLE ID	~~M4334~~ M4432 ~~M4433~~ GK
SAMPLE ID	TMD-MH-008
DATE/TIME	5/23/13 1059
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	22108 BonBrae -where BonBrae curves (near ball field & fence)
OIL OBSERVED	YES NO
SEDIMENT OBSERVED	YES ~~NO~~ EG

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES NO

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

water present in manhole - flowing slowly to the west.
slight sheen observed on water surface - sheen also observed on roller

SAMPLER NAME(S)

G. Koster & L. Johnson

FIELD QUALITY MANAGER

NAME Rachel Vaughan

SIGNATURE Rachel Vaughan

DATE OF QC 5/29/13

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD00-10 USEPA Tag Number: SC-054998

MANHOLE ID	M6975
SAMPLE ID	TMD-MH-009
DATE/TIME	5/23/13 1105
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	South west corner of fenced baseball field near Macomb county public works building.
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

water present in manhole - water flowing from pipe above (dribbling)
water flow to the southwest - slow

SAMPLER NAME(S)

G. Koster & L. Johnson

FIELD QUALITY MANAGER

NAME Rachel Vaughan

SIGNATURE Rachel Vaughan

DATE OF QC 5/29/13

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-11 USEPA Tag Number: SC-854999

MANHOLE ID	M1697
SAMPLE ID	TMD-MH-010
DATE/TIME	5/28/13 1122
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	intersection of Bon Brae & Jefferson
OIL OBSERVED	(YES) NO
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

Pan-Boms/snares present

water present in manhole - surface water sheen observed.

SAMPLER NAME(S)

G. Koster & L. Jonson

FIELD QUALITY MANAGER

NAME Rachel Vaughan

SIGNATURE RachelVaughan

DATE OF QC 5/29/13

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-12 **USEPA Tag Number:** SC-055000

MANHOLE ID	M6969
SAMPLE ID	TMD-MH-011
DATE/TIME	5/23/13 1155
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	SW cor of Jefferson + Lakeland
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

Slight sheen on surface waters.

SAMPLER NAME(S)

G. Koster

FIELD QUALITY MANAGER

NAME Rachel Vaughan

SIGNATURE Rachel Vaughan

DATE OF QC 5/29/13

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-13 USEPA Tag Number: SC-033101

MANHOLE ID	M4334
SAMPLE ID	TMD-MH-012
DATE/TIME	5/23/13 1345
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21840 Bon Brae St.
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

Slight sheen on water surface.

SAMPLER NAME(S)

G. Koster

FIELD QUALITY MANAGER

NAME Rachel Vaughan

SIGNATURE Rachel Vaughan

DATE OF QC 5/29/13

Manhole Sediment/Oil Sampling Log

SAS Number: 13C006-14 | 13C006-24 USEPA Tag Number: SC-033102 | SC-033117

MANHOLE ID	M7183
SAMPLE ID	TMD-MH-013
DATE/TIME	5/23/13 1415
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21720 Ben Brae St.
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-MH-013-FD

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

Surface sheen when removing snare.

SAMPLER NAME(S)

G. Koster

FIELD QUALITY MANAGER

NAME Rachel Vaughan

SIGNATURE Rachel Vaughan

DATE OF QC 5/29/13

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-15 **USEPA Tag Number:** SC-033103

MANHOLE ID	M 4335
SAMPLE ID	TMD-MH-014
DATE/TIME	5/23/13 1440
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21632 Bon Brae St.
OIL OBSERVED	(YES) NO
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

Surface Sheen after pulling snare. High odor & oily snare

SAMPLER NAME(S)

G. Koster

FIELD QUALITY MANAGER

NAME Rachel Vaughan
SIGNATURE RachelVaughan
DATE OF QC 5/29/13

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-16 **USEPA Tag Number:** SC-033104

MANHOLE ID	M4281
SAMPLE ID	TMD-MH-015
DATE/TIME	5/23/13 1510
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	Bon Brae Street & Bon Brae Court (middle of intersection)
OIL OBSERVED	(YES) NO (None noted on sample, only sediment)
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

Sediment was stained & had strong odor

SAMPLER NAME(S)

G. Koster

FIELD QUALITY MANAGER

NAME Rachel Vaughan

SIGNATURE Rachel Vaughan

DATE OF QC 5/29/13

Manhole Sediment/Oil Sampling Log

SAS Number: 13C006-17 **USEPA Tag Number:** 5C-033105

MANHOLE ID	M 7178
SAMPLE ID	~~FMD-80~~ TMD-MH-016
DATE/TIME	5/23/13 1545
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	Intersection of Bon Brae & Alley by HAE
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

Minimal sediment

SAMPLER NAME(S)

G. Koster

FIELD QUALITY MANAGER

NAME Rachel Vaughan

SIGNATURE RachelVaughan

DATE OF QC 5/29/13

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-18 USEPA Tag Number: SC-033106

MANHOLE ID	M7179
SAMPLE ID	TMD-MH-017
DATE/TIME	5/23/13 1605
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	NW cor Harper & Ben Brae
OIL OBSERVED	(YES) NO
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

Thick tar-like oil present

SAMPLER NAME(S)

G. Koster

FIELD QUALITY MANAGER

NAME Rachel Blink

SIGNATURE Rachel Vaughan

DATE OF QC 5/29/13

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-19 **USEPA Tag Number:** 5C-033107

MANHOLE ID	M6958
SAMPLE ID	TMD-MH-018
DATE/TIME	5/28/13 1112
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	~~on Jefferson Ave~~. SE corner of Jefferson Ave @ Statler Blvd.
OIL OBSERVED	YES NO
SEDIMENT OBSERVED	YES NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES NO

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

Sheen noted on surface water.

SAMPLER NAME(S)

GCK
RLB

FIELD QUALITY MANAGER

NAME Steve Chymney

SIGNATURE [signature]

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-20 USEPA Tag Number: 5C-033108

MANHOLE ID	~~MH~~ M E961
SAMPLE ID	TMD-MH-09
DATE/TIME	5/28/13 1129
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	on west side of Jefferson Ave, between Statler Blvd and Madison Dr. (closer to Madison Dr)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

GCK
RLB

FIELD QUALITY MANAGER

NAME Steve Chaumney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-21 USEPA Tag Number: SC-033109

MANHOLE ID	MH 7083
SAMPLE ID	TMD-MH-02
DATE/TIME	5/28/13 1144
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	NE corner of Benjamin Ave @ Jefferson Ave.
OIL OBSERVED	(YES) NO
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

GCK

PLB

FIELD QUALITY MANAGER

NAME Steve Chaplinsky

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-22 **USEPA Tag Number:** 5C-033110

MANHOLE ID	MH 7076
SAMPLE ID	TMD-MH021
DATE/TIME	5/28/13 1155
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	SE corner of Maple Ave @ Jefferson Ave
OIL OBSERVED	YES NO
SEDIMENT OBSERVED	YES NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

GCK
RLB

FIELD QUALITY MANAGER

NAME Steve Chymiy

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13C006-23 USEPA Tag Number: 5C-033111

MANHOLE ID	~~M7056~~ M7055
SAMPLE ID	TMD-MH-02
DATE/TIME	5/28/13 1221
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	~~NE~~ SE corner of 10 Mile Rd @ ~~Harper~~ Jefferson Ave
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: N/A

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

GCK

RLB

FIELD QUALITY MANAGER

NAME Stan Chmura

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-24 **USEPA Tag Number:** 5C-033112

MANHOLE ID	Fresenius Parking Lot NE MH
SAMPLE ID	TMD-MH-023
DATE/TIME	5/28/13 1313
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	NE corner of East Freschius parking Lot
OIL OBSERVED	(YES) NO
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

Sheen on surface water

SAMPLER NAME(S)

GCK

RLB

FIELD QUALITY MANAGER

NAME Steve Chymny

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-25 | 13CD06-26 USEPA Tag Number: 5C-033113 | 5C-033114

MANHOLE ID	Fresenius Parking Lot NW MH
SAMPLE ID	TMD-MH-024
DATE/TIME	5/28/13 1323 FD@1324
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	NW corner of East Fresenius parking lot.
OIL OBSERVED	(YES) NO
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-MH-024-FD

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

GCK

RLB

FIELD QUALITY MANAGER

NAME Steve Chumney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-27 USEPA Tag Number: SC-033115

MANHOLE ID	Fresenius Parking Lot SW MH
SAMPLE ID	FMD-MH-025
DATE/TIME	5/28/13 1333
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	SW corner of EAST fresenius parking lot
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

GCK

RLB

FIELD QUALITY MANAGER

NAME Steve Chymney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD66-28 USEPA Tag Number: SC-033116

MANHOLE ID	Fresenius Parking Lot SEMH
SAMPLE ID	TMD-MH-026
DATE/TIME	5/28/13 1343
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	SE corner of EB St Fresenius parking lot
OIL OBSERVED	(YES) NO
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~~N/A~~

Surface water sheen was observed.

SAMPLER NAME(S)

GCK

~~RLB~~

FIELD QUALITY MANAGER

NAME Steve Chyunger

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-30 USEPA Tag Number: SC-033118

MANHOLE ID	M7177
SAMPLE ID	TMD-MH-027
DATE/TIME	5/28/13 1654
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	In intersection of Bon Brae & Manhattan 21206 Bon Brae
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

GCK
RLB

FIELD QUALITY MANAGER

NAME Steve Chyanney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-31 USEPA Tag Number: 5C-033119

MANHOLE ID	M4261
SAMPLE ID	TMD-MH-C28
DATE/TIME	5/28/13 1703
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	SW corner of Lakeland @ Harper
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

GCK
RLB

FIELD QUALITY MANAGER

NAME Steve Chymney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13C006-32 USEPA Tag Number: SC-033120

MANHOLE ID	M4225
SAMPLE ID	TMD-MH-029
DATE/TIME	5/28/13 1714
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	Intersection of Madison St. @ Harper Ave.
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

GCK
RLB

FIELD QUALITY MANAGER

NAME Steve Chevalier

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13C006-33 USEPA Tag Number: SC-033121

MANHOLE ID	21235 Madison Ave.
SAMPLE ID	TMD-MH-030
DATE/TIME	5/22/13 1722
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	South of 21235 Madison Ave
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

GCK
RLB

FIELD QUALITY MANAGER

NAME Steve Chyanney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13C006-34 USEPA Tag Number: SC-033122

MANHOLE ID	M4267
SAMPLE ID	TMD-MH-031
DATE/TIME	5/28/13 1742
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	West of 25600 Harper
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

GCK
RLB

FIELD QUALITY MANAGER

NAME Steve Chymnecz

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-35 USEPA Tag Number: SC-033123

MANHOLE ID	M4208
SAMPLE ID	TMD-MH-032
DATE/TIME	5/28/13 1752
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	NW corner of Hudson Ave & Harper Ave (Crowley Ave)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

GCK
RLB

FIELD QUALITY MANAGER

NAME Steve Chymney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-36 **USEPA Tag Number:** SC-033124

MANHOLE ID	Crowley MH
SAMPLE ID	TMD-MH-033
DATE/TIME	5/22/13 1752
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	MH immediately upgradient of MH~~369~~4208
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

GCK
RLB

FIELD QUALITY MANAGER

NAME Steve Chymney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-37 USEPA Tag Number: SC-033125

MANHOLE ID	M4205
SAMPLE ID	TMD-MH-034
DATE/TIME	5/22/13 1808
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	NW corner of Maple & Harper
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

GCK
RLB

FIELD QUALITY MANAGER

NAME Steve Chumney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-38 USEPA Tag Number: 5C-033126

MANHOLE ID	MBB2
SAMPLE ID	TMD-MH-035
DATE/TIME	5/29/13 918
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21000 Bon Brae
OIL OBSERVED	YES NO
SEDIMENT OBSERVED	YES NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES NO

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

NA

SAMPLER NAME(S)

GCK

~~RLB~~ RLV

FIELD QUALITY MANAGER

NAME Steve Chumner

SIGNATURE [signature]

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-39 / 13CD06-40 USEPA Tag Number: SC-033127 / SC-033128

MANHOLE ID	MBB1
SAMPLE ID	TMD-MH-036
DATE/TIME	5/29/13 926 FD@927
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21036 Bon Brae
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-MH-036 FD

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

Slight odor

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chaymney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-41 USEPA Tag Number: 5C-033129

MANHOLE ID	M6962
SAMPLE ID	TMD-MH-037
DATE/TIME	5/29/13 1008
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	NE corner of 25814 Jefferson
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

Slight odor present, but no apparent oil

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chamney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-42 USEPA Tag Number: SC-033130

MANHOLE ID	M4427
SAMPLE ID	TMD-MH-038
DATE/TIME	5/29/13 1031
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	On N side of RA across from 22300 Lakeland
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

Very shallow ~2.5' to 3.0'

Some sediment observed.

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chomney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-43 USEPA Tag Number: 5C-033131

MANHOLE ID	~~M4320~~ (RV) ~~DA13521~~ (RV) M4320
SAMPLE ID	TMD-MH-039
DATE/TIME	5/29/13 1110
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	on North side of Lakeland, across from 21920 Lakeland.
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

Some sediment observed.

~3.0' deep

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Johnncy

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-44 USEPA Tag Number: 5C-033132

MANHOLE ID	M4321
SAMPLE ID	TMD-MH-040
DATE/TIME	5/29/13 1121
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21841 Lakeland (northside of St.)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3' deep

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Gummey

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13C006-45 USEPA Tag Number: 5C-033133

MANHOLE ID	M4331
SAMPLE ID	TMD-MH-041
DATE/TIME	5/29/13 1128
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21725 Lakeland (north side of Street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3' deep

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chymanczyk

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-46 USEPA Tag Number: SC-033134

MANHOLE ID	M4330
SAMPLE ID	TMD-MH-042
DATE/TIME	5/29/13 1138
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	2170' Lakeland (north side of street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.0' deep
slight odor

SAMPLER NAME(S)

RLV
GCK

FIELD QUALITY MANAGER

NAME Steve Chumney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-47 USEPA Tag Number: SC-033135

MANHOLE ID	M4271
SAMPLE ID	TMD-MH-043
DATE/TIME	5/29/13 1146
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21619 Lakeland (north side of street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~~mh~~

~3.0' deep

Some sediment observed

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chauncey

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-48 USEPA Tag Number: 5C-033136

MANHOLE ID	M4272
SAMPLE ID	TMD-MH-044
DATE/TIME	5/29/13 1150
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21601 Lakeland (north side of street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.0' deep

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chymney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-49 / 13CD06-50 USEPA Tag Number: 5C-033137 / 5C 033138

MANHOLE ID	M4273
SAMPLE ID	TMD-MH-045
DATE/TIME	5/29/13 1158 FD@ 1159
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21595 Lakeland (north side of street).
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-MH-045-FD

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.0' deep

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chyminey

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13C006-51 USEPA Tag Number: 5C-033139

MANHOLE ID	M6973
SAMPLE ID	TMD-MH-046
DATE/TIME	5/29/13 1511
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	South side of Bon Brae East of East entrance of 26001 Bon Brae
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

very deep ~18'

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chamney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-52 USEPA Tag Number: SC-033140

MANHOLE ID	Bon Brae Unk #1
SAMPLE ID	TMD-MH-047
DATE/TIME	5/29/13 1518
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	South side of Bon Brae ~~East~~ NE of entrance to 2606 Bon Brae (2 MHs - east MH)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~6.0' deep

SAMPLER NAME(S)

GCK
RLB

FIELD QUALITY MANAGER

NAME Steve Chyzner

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-53 **USEPA Tag Number:** 5C-033141

MANHOLE ID	M4422
SAMPLE ID	TMD-MH-048
DATE/TIME	5/29/13 1529
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	25877 Madison Ave.
OIL OBSERVED	YES NO
SEDIMENT OBSERVED	YES NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES NO

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~2.5' deep

SAMPLER NAME(S)

GCK
RW

FIELD QUALITY MANAGER

NAME Steve Chymnex

SIGNATURE [signature]

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-54 USEPA Tag Number: 5C-033142

MANHOLE ID	M4429
SAMPLE ID	TMD-MH-049
DATE/TIME	5/29/30 1539
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	22322 Madison Ave (on S side of Street)
OIL OBSERVED	YES NO
SEDIMENT OBSERVED	YES NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES NO

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

slight odor.
~2.0' deep

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chumney

SIGNATURE [signature]

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-55 USEPA Tag Number: SC-033143

MANHOLE ID	M6965
SAMPLE ID	TMD-MH-050
DATE/TIME	5/29/13 1546
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	22312 Madison (south side of street)
OIL OBSERVED	(YES) NO
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~2.0' deep
slight odor

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chumney

SIGNATURE

DATE OF QC 7/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 136006-56 136006-57 USEPA Tag Number: SC-033144 SC-033145

MANHOLE ID	M4430
SAMPLE ID	TMD-MH-051
DATE/TIME	5/29/13 1600 FD@1601
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	22210 Madison Ave (south side of street)
OIL OBSERVED	(YES) NO
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-MH-051-FD

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~2.0' deep

SAMPLER NAME(S)

GCK
PLV

FIELD QUALITY MANAGER

NAME Steve Chamness

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-58 USEPA Tag Number: SC-033146

MANHOLE ID	M4276
SAMPLE ID	TMD-MH-052
DATE/TIME	5/29/13 1612
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21526 Madison (South side of street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~4.0' deep
sulfur smell

SAMPLER NAME(S)

GCK
RLB

FIELD QUALITY MANAGER

NAME Steve Chyrmacy

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-59 USEPA Tag Number: SC-033147

MANHOLE ID	M4326
SAMPLE ID	TMD-MH-053
DATE/TIME	5/29/13 1619
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21708 Madison (South side of street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~4.0' deep

SAMPLER NAME(S)

GCK
RLB

FIELD QUALITY MANAGER

NAME Steve Chutkney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13D06-60 **USEPA Tag Number:** 5C-633148

MANHOLE ID	M4329
SAMPLE ID	TMD-MH-054
DATE/TIME	5/29/13 1025
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	2816 Madison (south side of the street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~4.0' deep

SAMPLER NAME(S)

GCK
RLB

FIELD QUALITY MANAGER

NAME Steve Chrysanthopoulos

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-61 USEPA Tag Number: SC-033149

MANHOLE ID	Madrson UNK 1
SAMPLE ID	TMD-MH-055
DATE/TIME	5/29/13 1634
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21900 Madrson Ave (south side of the street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~4.0' deep

SAMPLER NAME(S)

GCK
RLB

FIELD QUALITY MANAGER

NAME Steve Chalmers

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13C006 62 **USEPA Tag Number:** 5C-033150

MANHOLE ID	Madison UNK 2
SAMPLE ID	TMD-MH-056
DATE/TIME	5/29/13 1641
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	22016 Madison (south side of the street)
OIL OBSERVED	YES NO
SEDIMENT OBSERVED	YES NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES NO

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.0' deep

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chumney

SIGNATURE [signature]

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13C006-63 USEPA Tag Number: SC-033151

MANHOLE ID	M4602
SAMPLE ID	TMD-MH-057
DATE/TIME	5/29/13 1659
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	22332 ~~Madison~~ (RV) Statler (South side of Rd)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~4.0' deep

SAMPLER NAME(S)

GCK

RLB

FIELD QUALITY MANAGER

NAME Steve Chaney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-64 USEPA Tag Number: 5C-633152

MANHOLE ID	Statler UNK 1
SAMPLE ID	TMD-MH-058
DATE/TIME	5/29/13 1713
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21604 Statler (south side of street)
OIL OBSERVED	YES NO
SEDIMENT OBSERVED	YES NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES NO

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.0' deep

SAMPLER NAME(S)

GCK

RLB

FIELD QUALITY MANAGER

NAME Steve Chummer

SIGNATURE [signature]

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13006-65 USEPA Tag Number: SC-033153

MANHOLE ID	~~M4274~~ (PV) M4276
SAMPLE ID	TMD-MH-059
DATE/TIME	5/29/13 1803
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	~~SE corner of Benjamin Dr. & Harper Ave.~~ (PV) 21532 Benjamin (South side of st)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.0' deep

SAMPLER NAME(S)

GCK

RLB

FIELD QUALITY MANAGER

NAME Steve Clymer

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13006-66 USEPA Tag Number: SC-633154

MANHOLE ID	M4236|4323
SAMPLE ID	TMD-MH-060
DATE/TIME	5|29|13 1817
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21626 Benjamin (S side of St).
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~ 3.0' deep

SAMPLER NAME(S)

GCK
RLB

FIELD QUALITY MANAGER

NAME Steve Hammer

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-67 USEPA Tag Number: SC-033155

MANHOLE ID	M4324
SAMPLE ID	TMD-MH-061
DATE/TIME	5/29/13 1826
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21818 Benjamin (South side of Street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

some sediment

~3.0' deep

SAMPLER NAME(S)

GCK

RLD

FIELD QUALITY MANAGER

NAME Steve Chyanne

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-68 13CD06-69 USEPA Tag Number: SC-033160 SC-033161

MANHOLE ID	M4325
SAMPLE ID	TMD-MH-062
DATE/TIME	5/30/2013 1426 FD@ 1427
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21900 Benjamin (south side of street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-MH-062-FD

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.0' deep

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chyrmicy

SIGNATURE

DATE OF QC 6/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD04-70 USEPA Tag Number: SC-033162

MANHOLE ID	M4552
SAMPLE ID	TMD-MH-063 #5
DATE/TIME	5/30/2013 1437
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	22000 Benjamin (south side of street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.0' deep

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chamney

SIGNATURE

DATE OF QC 11/8/2013

Manhole Sediment/Oil Sampling Log

SAS Number: 13006 71 **USEPA Tag Number:** SC-033163

MANHOLE ID	M4548
SAMPLE ID	TMD-MH-064
DATE/TIME	5/30/13 1445
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	2204 Benjamin (south side of street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.0' deep

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chaganncy

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-72 USEPA Tag Number: SC-033164

MANHOLE ID	Benjamin UNK 1
SAMPLE ID	TMD-MH-065
DATE/TIME	5/30/2013 1451
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	22214 Benjamin (south side of street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.0' deep

SAMPLER NAME(S)

GCK
RW

FIELD QUALITY MANAGER

NAME Steve Chaumucy

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13D06-73 USEPA Tag Number: SL-033165

MANHOLE ID	Benjamin UNK 2
SAMPLE ID	TMD-MH-066
DATE/TIME	5/30/2013 1456
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	22240 Benjamin (South side of Street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3 ft deep

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chaumont

SIGNATURE

DATE OF QC 6/8/2013

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-74 USEPA Tag Number: SC-033166

MANHOLE ID	Benjamin UNK 3
SAMPLE ID	TMD-MH-067 1754
DATE/TIME	5/30/2013
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	22240 ~~Lakeland~~ Benjamin (south side of st)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~4.0' deep

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chaney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13C006-75 USEPA Tag Number: SC-633167

MANHOLE ID	Benjamin UNK 4
SAMPLE ID	TMD-MH-068
DATE/TIME	5/30/2013 1759 ET
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	22318 Benjamin (South side of St)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~4-0' deep

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chomicz

SIGNATURE

DATE OF QC 6/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD00-76 USEPA Tag Number: SC-033168

MANHOLE ID	~~Benjamin~~ (X) M-1082
SAMPLE ID	TMD-MH-069
DATE/TIME	5/30/2013 1306
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	Jefferson & Benjamin in grass
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~8' deep

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chamness

SIGNATURE

DATE OF QC 6/18/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CDDD-77 USEPA Tag Number: SC-033169

MANHOLE ID	Benjamin VNK 5
SAMPLE ID	TMD-MH-070
DATE/TIME	5/30/2013 1808
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	Jefferson & Benjamin on sidewalk
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~ 6' deep

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chamnacy

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-78 USEPA Tag Number: SC-033170

MANHOLE ID	M4274
SAMPLE ID	TMD-MH-071
DATE/TIME	5/31/13 0811
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	West of 21515 Maple ~~(north side of street)~~ (RV) (in sidewalk)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

slight odor
~3.0' deep

SAMPLER NAME(S)

ECK
RLV

FIELD QUALITY MANAGER

NAME Steve Chamney

SIGNATURE

DATE OF QC 6/18/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-79 USEPA Tag Number: SC-033171

MANHOLE ID	M4275
SAMPLE ID	TMD-MH-072
DATE/TIME	5/31/13 0816
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21515 Maple (north side of street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.0' deep

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chapman

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-80 13CD06-81 USEPA Tag Number: SC-033172 SC-033173

MANHOLE ID	Maple UNK 1
SAMPLE ID	TMD-MH-073
DATE/TIME	5/31/13 0825 FD@ 0826
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21627 Maple (south side of street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-MH-073-FD

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~25' Accp

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chaffinch

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-82 **USEPA Tag Number:** SC-633174

MANHOLE ID	M4277
SAMPLE ID	TMD-MH-074
DATE/TIME	5/31/13 0830
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	2171 Maple (South side of street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.5' deep

SAMPLER NAME(S)

GLK

RLV

FIELD QUALITY MANAGER

NAME Steve Claymore

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-83 USEPA Tag Number: 5C-033175

MANHOLE ID	MH279
SAMPLE ID	TMD-MH-075
DATE/TIME	5/31/13 0836
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21719 Maple (on south side of street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.5' deep

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chynoweth

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13C006-84 USEPA Tag Number: 5C-033176

MANHOLE ID	~~M4277~~ (EV) M4322
SAMPLE ID	TMD-MH-076
DATE/TIME	5/31/13 0844
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21823 Maple (South side of Street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.5' deep

SAMPLER NAME(S)

GCK
PLV

FIELD QUALITY MANAGER

NAME Steve Chaykincy

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-85 USEPA Tag Number: SC-633177

MANHOLE ID	M4551
SAMPLE ID	TMD-MH-677
DATE/TIME	5/31/13 0851
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	2923 Maple (South side of street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.0' deep

SAMPLER NAME(S)

GCF
RLV

FIELD QUALITY MANAGER

NAME Steve Chrimes

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-86 USEPA Tag Number: 5C-033178

MANHOLE ID	Maple UNK 2
SAMPLE ID	TMD-MH-078
DATE/TIME	5/31/13 0900
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	22025 Maple (south side of street)
OIL OBSERVED	YES NO
SEDIMENT OBSERVED	YES NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES NO

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.5' deep

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chemney

SIGNATURE [signature]

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-87 USEPA Tag Number: SC-033179

MANHOLE ID	M4549
SAMPLE ID	TMD-MH-079
DATE/TIME	5/31/13 0915
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	100 Maple (West parking lot) Business Park
OIL OBSERVED	YES NO
SEDIMENT OBSERVED	YES NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~5.0' deep

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chymney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-88 USEPA Tag Number: SC-033180

MANHOLE ID	Maple UNK 3
SAMPLE ID	TMD-MH-080
DATE/TIME	5/31/13 0926
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	100 Maple Street Business park (east parking lot)
OIL OBSERVED	(YES) NO
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~5.0' deep

~~pt~~

Sheen observed

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chamness

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-89 / 13CD06-90 USEPA Tag Number: SC-033181 / SC-033182

MANHOLE ID	Maple UNK 4
SAMPLE ID	TMD-MH-081
DATE/TIME	5/31/13 0947 FD@0948
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	SW of 2225 Maple (on end of dead end street)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-MH-~~089~~ 081-FD

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.5' deep
Slight odor

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chaumney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-91 **USEPA Tag Number:** SC-033183

MANHOLE ID	Maple UNK 5
SAMPLE ID	TMD-MH-082
DATE/TIME	5/31/13 0956
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	~~22304~~ Maple (South side of street) 22304
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~3.0' deep

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chyminey

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-92 USEPA Tag Number: 5C-033184

MANHOLE ID	M4480
SAMPLE ID	TMD-MH-083
DATE/TIME	5/31/2013 1134
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	21501 10 Mile (south side of street) 10 Mile & Frederick
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~8.0' deep

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chaney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-93 13CD06-94 USEPA Tag Number: 5C-033185 5C-033186

MANHOLE ID	10 Mile UNK 1
SAMPLE ID	TMD-MH-084
DATE/TIME	5/31/13 1151 FD@1152
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	10 Mile & Junior
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-MH-084-FD

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~8.0' deep

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chaumney

SIGNATURE

DATE OF QC 11812014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-95 USEPA Tag Number: 5C-033187

MANHOLE ID	M4479
SAMPLE ID	TMD-MH-085
DATE/TIME	5/31/13 1201
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	10 Mile and Labadie
OIL OBSERVED	YES NO
SEDIMENT OBSERVED	YES NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES NO

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~8.0 feet

SAMPLER NAME(S)

GCK
RCV

FIELD QUALITY MANAGER

NAME Steve Chumney

SIGNATURE [signature]

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-96 USEPA Tag Number: SC-033188

MANHOLE ID	10 MILE UNK 2
SAMPLE ID	TMD-MH-086
DATE/TIME	5/31/13 1210
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	10 Mile and Rita
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~8.0' deep

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chumney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-97 USEPA Tag Number: 5C-033189

MANHOLE ID	M4545
SAMPLE ID	TMD-MH-087
DATE/TIME	5/31/13 1218
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	10 Mile & Leo
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~8.0' deep

SAMPLER NAME(S)

CCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chaumney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-98 USEPA Tag Number: SC-033190

MANHOLE ID	10 Mile UNK 3
SAMPLE ID	TMD-MH-088
DATE/TIME	5/31/13 1228
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	Naval & 10 Mile
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~8.0' deep

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chylinski

SIGNATURE

DATE OF QC 1/18/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD06-99 USEPA Tag Number: 5C-033191

MANHOLE ID	M4542
SAMPLE ID	TMD-MH-089
DATE/TIME	5/31/13 1240
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	turn lane at 10 Mile & Greater Mack
OIL OBSERVED	YES NO
SEDIMENT OBSERVED	YES NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES NO

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~7.0' deep
slight odor

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chumney

SIGNATURE [signature]

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD07-01 USEPA Tag Number: 5C-033192

MANHOLE ID	M4540
SAMPLE ID	TMD-MH-090
DATE/TIME	5/31/13 1249
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	10 Mile & Lovell
OIL OBSERVED	(YES) NO
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~8.0' deep

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chesney

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13C007-02 13C007-03 USEPA Tag Number: 5C-033193 5C-033194

MANHOLE ID	M4609
SAMPLE ID	TMD-MH-091
DATE/TIME	5/31/2013 1304 FD@1305
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	10 Mile & Nelson (South MH)
OIL OBSERVED	(YES) NO
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: (YES) NO

FD SAMPLE DESIGNATION: TMD-MH-091-FD

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~10.0' deep

Rope tied to ~~top of N~~ MH cover. could not see what was on other end.

SAMPLER NAME(S)

CLK

RLV

FIELD QUALITY MANAGER

NAME Steve Chatfield

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13C007-~~03~~04 (EN) USEPA Tag Number: 5C-03319~~4~~5 (EN)

MANHOLE ID	10 Mile UNK 4
SAMPLE ID	TMD-MH-092
DATE/TIME	5/31/13 1312
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	10 Mile & Nelson (west MH)
OIL OBSERVED	YES NO
SEDIMENT OBSERVED	YES NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES NO

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES NO

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~5.0 feet

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chauncey

SIGNATURE [signature]

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD07-05 USEPA Tag Number: SC-033196

MANHOLE ID	10 Mile UNK 5
SAMPLE ID	TMD-MH-093
DATE/TIME	5/31/13 1320
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	10 Mile & Nelson (north MH)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	(YES) NO

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

Sheen on surface water
~8.0' deep

SAMPLER NAME(S)

GCK
RLV

FIELD QUALITY MANAGER

NAME Steve Chaykowski

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13C007-06 USEPA Tag Number: SC-033197

MANHOLE ID	M7058
SAMPLE ID	TMD-MH-094
DATE/TIME	5/31/13 1400
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	10 Mile Rd & ~~Fraser~~ Jefferson (RN)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~14.0' deep

SAMPLER NAME(S)

GCK
RLN

FIELD QUALITY MANAGER

NAME Steve Chauncey

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD07-07 USEPA Tag Number: SC-033198

MANHOLE ID	10 Mile UNF 6
SAMPLE ID	TMD-MH-095
DATE/TIME	5/31/2013 1348
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	22340 10 Mile
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~8.0' deep

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Johnner

SIGNATURE

DATE OF QC 1/8/2014

Manhole Sediment/Oil Sampling Log

SAS Number: 13CD07-08 USEPA Tag Number: 5C033199

MANHOLE ID	10 Mile UNT 7
SAMPLE ID	TMD-MH-096
DATE/TIME	5/31/13 1343
MANHOLE LOCATION INFORMATION (i.e., cross-streets, property address, etc.)	22340 10 Mile (north of parking lot on east side of building)
OIL OBSERVED	YES (NO)
SEDIMENT OBSERVED	YES (NO)

ASSOCIATED QA/QC SAMPLE INFORMATION

FD SAMPLE COLLECTED: YES (NO)

FD SAMPLE DESIGNATION: NA

MS/MSD COLLECTED: YES (NO)

OTHER SAMPLING OBSERVATIONS AND ADDITIONAL COMMENTS

~4.0' deep

Debris present

SAMPLER NAME(S)

GCK

RLV

FIELD QUALITY MANAGER

NAME Steve Chaumney

SIGNATURE

DATE OF QC 1/8/2014

Attachment E
Source Area Investigation

REGION 5 RAC2

REMEDIAL ACTION CONTRACT FOR

Remedial, Enforcement Oversight, and
Non-Time Critical Removal Activities at Sites of Release
or Threatened Release of Hazardous Substances in Region 5

2011 SOURCE AREA INVESTIGATION
Ten-Mile Drain Site
Data Summary Report
St. Clair Shores, Michigan

WA No. 107-RICO-B5BP/Contract No. EP-S5-06-01

January 2012

PREPARED FOR

U.S. Environmental Protection Agency

PREPARED BY

CH2M HILL

FOR OFFICIAL USE ONLY

FINAL
2011 SOURCE AREA INVESTIGATION
DATA SUMMARY REPORT

TEN-MILE DRAIN SITE

St. Clair Shores, Michigan

WA No. 107-RICO-B5BP / Contract No. EP-S5-06-01

January 2012

Contents

Acronyms and Abbreviations ..... **v**
1 Introduction **1-1**
1.1 Objective 1-1
1.2 Site Background 1-1
1.3 Contaminants of Concern 1-4
2 Physical Setting **2-1**
2.1 Topography 2-1
2.2 Geology and Soils 2-1
2.3 Hydrogeology 2-1
2.4 Storm Drain Hydraulics 2-1
3 Field Methods **3-1**
3.1 Utility Corridor Investigation 3-1
3.1.1 Utility Locating 3-1
3.1.2 Soil Sample Collection 3-1
3.1.3 Utility Corridor Water Sample Collection 3-2
3.1.4 Sanitary Sewer and TMD Lines Water Sample Collection 3-2
4 Findings **4-1**
4.1 Ten-Mile Drain Corridor 4-1
4.1.1 Soil Samples, 0 to 3 feet bgs 4-1
4.1.2 Soil Samples, 3 to 10 feet bgs 4-1
4.1.3 Soil Samples 10 to 20 feet bgs 4-1
4.1.4 TMD Utility Corridor Water Samples 4-2
4.2 Adjoining/Intersecting Water Main and Sanitary Sewer Utility Corridors 4-2
4.2.1 Soil Samples, 0-3 feet bgs 4-2
4.2.2 Soil Samples, 3 to 10 feet bgs 4-2
4.2.3 Soil Samples, 10 to 20 feet bgs 4-3
4.2.4 Water Main and Sanitary Utility Corridors Water Samples 4-3
4.3 Utility Samples 4-3
4.4 Additional Sample Locations 4-3
5 Conclusions **5-1**
6 References **6-1**

Tables

1 PCB Concentrations – Soil/Sediment
2 PCB Concentrations – Water

Figures

1 General Site Location
2 Sample Location Map
3-5 Sample Location Close-ups
6 Water Sample Locations

7 PCB Concentrations 0 to 3 feet Below Ground Surface Soil
8 PCB Concentrations 3 to 10 feet Below Ground Surface Soil
9 PCB Concentrations 10 to 13 feet Below Ground Surface Soil
10 PCB Concentrations 13 to 15 feet Below Ground Surface Soil
11 Soil Borings: Highest PCB Concentrations – Ten Mile Drain Utility Corridor
12 Soil Borings: Highest PCB Concentrations – Water Utility Corridor
13 Soil Borings: Highest PCB Concentrations – Sanitary Sewer Corridor
14 Manhole Vault Locations
15 PCB Migration Model
16 PCB Migration Model – Cross Sectional View

Appendices

A Cross Sections
B PCB Analytical Data
C Boring Logs

Acronyms and Abbreviations

bgs	below ground surface
CIPP	cured-in-place pipe
ECT	Environmental Consulting & Technology
MCPWO	Macomb County Public Works Office
MDEQ	Michigan Department of Environmental Quality
NPL	National Priorities List
NRCS	Natural Resources Conservation Service
ppb	parts per billion
ppm	parts per million
PCB	Polychlorinated Biphenyl
SAI	Source Area Investigation
SAP	Sampling Action Plan
TMD	Ten-Mile Drain
TSCA	Toxic Substance Control Act
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency

SECTION 1

Introduction

This Data Evaluation Summary Report presents the findings of the Source Area Investigation (SAI) conducted in April and May 2011 at the Ten-Mile Drain (TMD) Site in St. Clair Shores, Michigan. This Data Evaluation Summary Report is being submitted pursuant to the statement of work received on July 27, 2010. The work is being conducted in accordance with Work Assignment No. 107-RICO-B5BP under Contract No. EP-S5-06-01. (CH2M HILL, 2010)

1.1 Objective

The overall objective of the SAI was to investigate the source of polychlorinated biphenyls (PCBs) that continue to recontaminate the TMD and the Lange and Revere Street Canals in order to support the selection of a remedy that can be implemented by the U.S. Environmental Protection Agency (USEPA) to mitigate future PCB impact to the TMD system. In order to meet this objective, CH2M HILL reviewed historical documentation (including aerial photographs and Sanborn fire insurance maps), previous investigation reports, public utility maps, public tips or leads on dumping, and known data gaps from previous investigations to identify potential sampling locations (CH2M HILL, March 2011). Previous investigations assessed properties and areas of concern located adjacent to the TMD system. Therefore, the SAI was focused within utility corridors (sanitary sewer, 12-inch and 24-inch water mains) that crossed the TMD utility corridor which potentially provide preferential pathways for PCB contamination to migrate into the TMD. If contamination was present within utility corridors crossing the TMD system, the contamination could be traced back to the potential source area. The SAI also included additional investigation along the TMD utility corridor.

1.2 Site Background

The site is located in a mixed commercial/residential area in St. Clair Shores, Macomb County, Michigan. The majority of the TMD study area encompasses a several-block area bounded by Bon Brae Street on the north, Harper Avenue on the west, Ten Mile Road on the south, and Jefferson Avenue on the east, along with the TMD outfall and the Lange and Revere Street Canals. The SAI expanded the investigation, based on the review of previous investigations and known data gaps, north along Harper Avenue to Frazho Street and west of Harper Avenue on Bon Brae Street several blocks. The TMD system and SAI area are depicted on Figure 1.

History of Removal Activities and Investigations (2001-2006)

In July 2001, sediment samples were collected by the Macomb County Public Works Office (MCPWO) as part of a permit application process for a proposed dredging project in the Lange and Revere Street Canals. The analytical results were submitted to the U.S. Army Corps of Engineers (USACE) and based on the elevated levels of PCBs in the sediment, the USACE notified the Michigan Department of Environmental Quality (MDEQ). In December

2001, the MDEQ conducted an investigation of the TMD system and confirmed there was an upstream source of PCB contamination in the drain. As a result of MDEQ's investigation, the MCPWO sampled and confirmed the presence of PCBs in both the Lange and Revere Street Canals and TMD system.

The USEPA removal program initiated a time-critical removal action in August 2002 and completed work at the site on July 16, 2004. During this time frame, high concentrations of PCB-contaminated sediments were removed from the TMD system and the Lange and Revere Street Canals. All waste was transported for disposal at approved offsite facilities. The USEPA completed the following activities as part of the time-critical removal action:

- Developed and implemented a site-specific Health and Safety Plan and an Air Monitoring Plan.
- Developed and implemented a Site Security Plan which included guard services, installation of signs on gates and temporary fencing.
- Dewatered the TMD System and removed all sediments via confined space entry and high-pressure Jet-vacuum truck.
- Constructed an onsite water treatment system and treated approximately 2.5 million gallons of contaminated water. Water treatment operation included the dewatering of the Wahby Park Pond, located approximately 200 feet south of the Revere Street Canal, and sampling of the sediments.
- Installed sheet piling to create excavation cells and replaced any sections of sea walls that failed after dewatering due to removal activities.
- Excavated all known areas with sediments initially identified with PCBs at levels exceeding 10 milligrams per kilogram, parts per million (ppm), from the Revere and Lange Street Canals. The performance standard goal for this removal action was to remove sediments in each area to below 1 ppm.
- Developed and implemented a confirmation sampling plan during the excavation phase of the project. In the event that the confirmatory sampling demonstrated that the performance standard goal of 1 ppm was not met, additional excavation and confirmatory sampling was required.
- Disposed offsite all PCB-contaminated sediments and any other hazardous substances or pollutants or contaminants at a USEPA-approved disposal facility in accordance with the USEPA Off-Site Rule (40 CFR § 300.440).
- Restored any areas damaged due to USEPA's actions.

In total, USEPA disposed of approximately 5,900 tons of Toxic Substance Control Act (TSCA) regulated materials (containing greater than 50 ppm PCBs) and 18,000 tons of non-TSCA regulated materials (containing less than 50 ppm PCBs). In April 2004, MCPWO completed the re-cleaning of the drain and the outfall area where the TMD discharges into the Lange and Revere Street Canals.

In June 2004, MCPWO initiated quarterly PCB sampling inside TMD. PCBs were present at levels as high as 1.3 milligrams per liter (ppm) in water samples collected from inside TMD and at the time were believed to be residual contamination. In July 2004, MCPWO initiated

a Phase I-type assessment of the Harper Avenue and Bon Brae Street area. In September 2004, MCPWO completed the second round of quarterly PCB sampling and detected PCBs in sediment at the outfall of TMD at 770 ppm. In December 2004, MCPWO conducted the third round of PCB sampling and detected PCBs at levels as high as 17,000 ppm inside TMD. MCPWO then initiated sampling of the backfill soils surrounding TMD to assess if a source of PCBs in the backfill material was re-contaminating the drain. Results indicated that PCBs were present in backfill surrounding the TMD at levels as high as 41,000 ppm. In January 2005, MCPWO collected sediment samples from inside TMD near the intersection of Harper Avenue and Bon Brae Street and detected PCBs at levels as high as 200,000 ppm.

In May 2005, USEPA and MDEQ installed 64 additional soil borings in the TMD study area to better define the extent of PCB contamination. PCBs were detected in the sand and gravel backfill surrounding the TMD and appeared centered in the area near the intersection of Harper Avenue and Bon Brae Street. The May 2005 investigation also identified one surface soil area contaminated with PCBs at approximately 800 ppm. In the spring and summer of 2006, USEPA conducted another removal action to address the near surface soil contamination. The following activities were completed during the 2006 removal action:

- Removal and restoration of shallow surface soils containing low-level PCB concentrations.
- Repair of sea walls.
- Removal of sediment from a portion of the sewer system.
- Installation of monitoring wells and a large trap to collect contaminated sediment at the TMD outfall.
- A portion of the sewers along Bon Brae Street and Harper Avenue were lined with cured-in-place pipe (CIPP) to attempt to impede PCB infiltration into TMD.

City of St. Clair Shores and USEPA Removal Activities (2007-2011)

In the fall of 2007, MDEQ provided a $500,000 grant to the City of St. Clair Shores for further investigation and cleanup efforts. The City of St. Clair Shores hired Environmental Consulting & Technology (ECT) as its contractor. Four primary tasks were performed under this grant: environmental sampling to monitor the conditions in and around TMD; installation and maintenance of monitoring wells along TMD; cleaning contaminated sediment from portions of TMD; and installation of two weirs within TMD to slow the migration of PCBs to Lake St. Clair. The weirs are half-circle metal structures approximately two feet high that act like small dams to collect PCB oil and contaminated sediment before the contaminants migrate into the Lange and Revere Street Canals.

In late 2009, inside the CIPP-lined portion of the sewer located at the Bon Brae Street and Harper Avenue intersection, ECT discovered oil that contained more than 80 percent PCBs (more than 800,000 ppm). The City of St. Clair Shores and ECT asked for assistance from the USEPA in addressing the oil in the drain. The USEPA and the City of St. Clair Shores identified immediate time-critical concerns to mitigate the PCB oil migration down TMD into the Lange and Revere Street Canals. On March 8, 2010, the USEPA mobilized its Superfund Technical Assessment and Response Team and Emergency Response and

Removal Services contractors to the site to initiate removal action activities, which included the following:

- Dewatering and high-pressure jet-vacuuming of the sewer along Bon Brae Street, Harper Avenue and Jefferson Avenue to remove PCB oil and sediment.
- Stabilization, transportation, and disposal of the PCB-contaminated materials.
- Installation of temporary weir structures in 15 manhole locations to allow sediment collection points in addition to the two weirs previously installed in the TMD by the City of St. Clair Shores.
- A geophysical survey of the area near TMD where contamination was present, and installation of soil borings and collection of soil samples from suspected source areas.

USEPA proposed the site for the National Priorities List (NPL) in March 2010 and finalized the site on the NPL in September 2010.

After the aforementioned removal activities, the City of St. Clair Shores continued to conduct environmental sampling to monitor conditions behind the 17 weirs in the TMD. Sampling results indicated that high levels of PCB contamination continued to infiltrate into the drain and accumulate behind the weirs from an unknown source.

Based on the sampling results, the USEPA conducted another removal action at the site on February 26, 2011 to remove PCB oil from the drain. Absorbent snares were used to swipe and adsorb the oil that had collected behind the weirs. Six of the 17 weir locations required cleanout. In April 2011, the City of St. Clair Shores, as a part of their environmental monitoring activities, inspected and removed stained snares and placed clean snares behind the weirs where needed. MDEQ's grant to fund the City of St. Clair Shores' investigations and cleanup efforts at the TMD Site expired in September 2011.

1.3 Contaminants of Concern

PCBs are the contaminants of concern in soil, sediment, and water in the TMD study area. Since 2001, PCBs have been known to contaminate the TMD system, the soils and water immediately surrounding the TMD in the utility corridor, and the sediments in the Lang and Revere Street Canals at the outfall of TMD. (USEPA, 2009).

SECTION 2

Physical Setting

This section summarizes the physical setting in the TMD study area based on data collected during the SAI and previous investigations.

2.1 Topography

The TMD study area is relatively flat with little topographic relief. Based upon field global positioning system measurements, the average surface elevation of the TMD study area is approximately 583 feet above mean sea level. The TMD study area slopes to the east-southeast at approximately 5 feet per mile, and does not contain any notable topographical relief features.

2.2 Geology and Soils

The TMD study area is located in an area classified as containing approximately 80 percent (by area) Lenawee Clay, 10 percent Toledo silty clay loam, and 10 percent Del Ray loam soils (Natural Resources Conservation Service [NRCS], 2011). These soils are typical of clayey glaciolacustrine deposits that formed on flats of till-floored lake planes (NRCS, 2011). The majority of soil borings installed during the SAI were installed within the backfill of utility corridors which included: sanitary sewer, 12–inch and 24- inch water mains, and the TMD. The soils observed in the utility corridor borings were either disturbed native soils or imported backfill materials until the native soils beneath the utility corridors were encountered. Soil types encountered in borings installed outside and beneath the utility corridors were consistent with clays and silts identified by the NRCS. The majority of the TMD utility corridor appears to have been backfilled with washed sand and pea gravel (rounded to sub-rounded gravels 3/16 to 3/8 inch in diameter) to depths of 12 to 18 feet below ground surface (bgs). With the exception of the local 12–inch-diameter water main, the other intersecting or adjacent utilities corridors (24-inch water main and sanitary sewer), have been backfilled with bricks, cement, and native materials. The 12-inch-diameter water main was backfilled with imported sandy material.

2.3 Hydrogeology

There is no groundwater aquifer present within 20 feet of ground surface in the TMD study area based on borings installed in native soils located outside the TMD and other utility corridors during the SAI and previous investigations.

2.4 Storm Drain Hydraulics

There is low topographic relief in the vicinity of the TMD study area, and water is continually present within the TMD system. The TMD outfall is 8 feet in diameter and is located in the Lange Street Canal and is always partially submerged in the canal. Wind direction causes water level fluctuations (seiches) along the shoreline of Lake St. Clair. The changes in water levels

directly affect the water levels within the TMD. Under normal conditions, water within the TMD system flows from inland areas to the east out into the Lange and Revere Street Canals. However, on-shore winds cause the water levels to increase in the canals causing water flow in the TMD system to reverse, and water to flow from the canals backward up the TMD system.

TMD is constructed with jointed reinforced concrete pipe, 4 to 6 feet in diameter, located between 6 and 12 feet bgs in the TMD study area. The jointed concrete construction appears to allow water to pass through the joints of the drain causing both infiltration and exfiltration of water in the TMD backfill material to flow into and out of the TMD. Water levels in the transmissive sand and gravel backfill equalize with the water levels inside the drain. Water within the TMD backfill material averaged between 5 and 8 feet bgs. Water levels in each boring are depicted on the cross sections in Appendix A and boring logs in Appendix C.

SECTION 3

Field Methods

The Sampling and Analysis Plan (SAP; CH2M HILL, 2011) outlines the full scope of the SAI. The field methods and sampling approaches described in detail in the SAP are summarized in the following subsections. Deviations from the SAP included collecting water and sediment from inside of TMD and the sanitary sewer utility corridors. Additional water samples were also collected from borings installed in the backfill of the utility corridors. The deviations are discussed in the following subsections. All samples were analyzed by the USEPA mobile laboratory which was located onsite during the SAI. The USEPA mobile lab allowed for a faster turnaround on sample analyses and helped facilitate decisions on the placement of subsequent borings during the SAI.

3.1 Utility Corridor Investigation

The primary focus of the SAI was the utility corridors transecting the TMD utility corridor (sanitary sewer, 12-inch and 24-inch water mains) and the TMD utility corridor itself. The utility corridor investigation was conducted to assess whether utility corridors intersecting the TMD utility corridor were conduits for the migration of PCBs into the TMD utility corridor, or if historical releases into the TMD have resulted in secondary source areas of PCBs within the TMD system. A total of 90 borings were installed during the SAI.

3.1.1 Utility Locating

Native soils within the investigation area are dense semi-impermeable clay to silty clay that does not readily transmit water or other liquids. Therefore, the most likely migration pathway(s) for the PCB contamination found within the TMD is the more transmissive disturbed or fill materials in the backfilled utility corridors. In order to meet the objective of the SAI, borings were installed within the backfill of the sanitary sewer, TMD, and water main utility corridors. Michigan's MISS DIG utility locate service was contacted and all known utilities were marked by the MISS DIG contractors at each boring location. A private utility locator conducted ground penetrating radar surveys at the original 50 proposed boring locations to confirm the MISS DIG locates, identify unmarked or unknown lines, and if possible, identify potential anomalies requiring additional investigation. Prior to installing direct-push borings, the utilities were also located by installing borings by hand (hand augering) to provide another level of security for the workers drilling adjacent to active utility lines, to ensure placement of the borings within the utility corridors, and to pre-screen the materials within the utility corridors for visual evidence of contamination.

3.1.2 Soil Sample Collection

Soil sampling within the utility corridors was performed using a hydraulic direct-push technology drilling rig to collect undisturbed soil cores. The SAP had identified 50 potential boring locations and indicated more boring locations may be added based upon results obtained from the initial boring locations. A total of 90 soil borings were installed during the SAI.

Continuous soil cores were collected from each boring. The sampling frequency for each soil core was every other 1-foot interval starting with the 0- to 1-foot bgs interval. Each sample was analyzed for PCBs. Soil borings were advanced into native materials underlying the utility corridors, and samples were collected above and below the native soil interface to assess the extent that native soils have been impacted beneath the utility corridors. Soil descriptions from each boring and the depth that water was encountered were recorded on individual boring logs. The boring Logs are included in Appendix C. Soil boring and water sample locations are shown on Figures 2 through 5.

If a sample from a predetermined interval could not be collected due to minimal recovery from that interval or lack of sufficient sample material due to the presence of debris, concrete, or gravel, etc., an adjoining interval, containing sufficient sample material, was collected as an alternative. Additional intervals were collected from locations outside of the predetermined frequency when field staff observed intervals of potentially contaminated soil, based on visual observations (staining or sheen).

3.1.3 Utility Corridor Water Sample Collection

Water samples were collected from within the backfill of the utility corridors in 32 soil borings using a temporary stainless steel well screen and low-flow sampling methods outlined in the SAP. The SAP indicated that 20 water samples would be collected during the investigation. Due to the installation of 40 additional borings, 12 additional water samples were collected.

A total of 24 water samples were collected from the TMD, five samples from the 12-inch water main and three samples from the 24-inch water main utility corridors. The sanitary sewer lines are backfilled with clay and did not yield enough water to collect samples for PCB analysis. All water samples were analyzed for PCBs. Water sample locations are shown on Figure 6, and PCB analytical results are summarized in Table 2.

3.1.4 Sanitary Sewer and TMD Lines Water Sample Collection

Collecting water samples inside the sanitary sewer and TMD lines was outside of the scope of work outlined in the SAP. During investigation activities, crews working for the City of St. Clair Shores were cleaning out the sanitary sewer lines within the TMD study area. A black-stained, solidified piece of material, roughly 12 inches in diameter, was found by CH2M HILL personnel in the green space along the roadway on Bon Brae Street west of Harper Avenue. The material was subsequently sampled by CH2M HILL and contained PCBs at a concentration of 190 ppm. An additional sediment and water sample were collected from inside the sanitary sewer manhole at the Bon Brae Street and Harper Avenue intersection. A water sample was also collected from inside the sanitary sewer manhole at the intersection of Frazho Street and the alley west of Harper Avenue, and a water sample was collected from inside TMD at the manhole near the intersection of Bon Brae Street and Bon Brae Court.

SECTION 4

Findings

A total of 416 soil samples and 32 water samples were collected from 90 borings installed in the TMD, sanitary sewer, and water utility corridors during the SAI. Two water samples and one sediment sample were collected from inside the sanitary sewer, and one water sample was collected from within a catch basin that leads to TMD. Four soil samples were collected from two borings installed on Sunnydale Street east of Harper Avenue.

Soil samples within the 0 to 3, 3 to 10, and 10 to 20 feet bgs intervals are discussed in the following subsections. Figures 7-10 depict PCB concentrations by depth interval. Figures 11-13 depict the highest PCB concentration for each boring separated by utility corridor.

All soil/sediment and water samples were analyzed for PCBs. Analytical data is summarized in Table 1 (soil/sediment) and Table 2 (water). Conceptual subsurface cross-sections are included in Appendix A. The laboratory analytical data sheets are included in Appendix B.

4.1 Ten-Mile Drain Corridor

A total of 267 soil samples and 25 water samples were collected from 57 borings installed in the TMD utility corridor. Figure 11 depicts the highest PCB concentration from each boring installed in the TMD utility corridor.

4.1.1 Soil Samples, 0 to 3 feet bgs

A total of 134 samples were collected from 0 to 3 feet bgs in the TMD utility corridor. A total of 119 samples did not exceed 1 ppm PCBs. Thirteen samples contained between 1 and 10 ppm PCBs and two samples contained between 10 and 1,000 ppm PCBs. The highest concentration of PCBs in the samples collected from 0 to 3 feet bgs was in boring TMD-070 (450 ppm) located near the intersection of Bon Brae Street and Harper Avenue near manhole vault J01. Soil concentrations in the 0 to 3 feet bgs samples are depicted on Figure 7.

4.1.2 Soil Samples, 3 to 10 feet bgs

A total of 58 soil samples were collected from 3 to 10 feet bgs in the TMD utility corridor. Forty-seven samples did not exceed 1 ppm PCBs. Seven samples contained between 1 and 10 ppm PCBs and four samples contained between 10 and 1,000 ppm PCBs. The highest concentration of PCBs in the samples collected from 3 to 10 feet bgs was in boring TMD-055 (170 ppm) located near the intersection of Bon Brae Street and Harper Avenue near manhole vault M7179. Soil concentrations in the 3 to 10 feet bgs samples are depicted on Figure 8.

4.1.3 Soil Samples 10 to 20 feet bgs

A total of 75 soil samples were collected from 10 to 20 feet bgs in the TMD utility corridor. Fifty samples did not exceed 1 ppm PCBs. Ten soil samples contained between 1 and 10 ppm, and 21 samples contained greater than 10 ppm PCBs. The highest concentrations of PCBs in the samples collected from 10 to 20 feet bgs were in borings TMD-53 (66,000 ppm) and TMD-68 (39,000 ppm) located near the intersection of Bon Brae Street and Harper

Avenue near manhole vaults M7179 and J01, respectively. Soil concentrations in the 10 to 20 feet bgs samples are depicted on Figures 9 and 10.

4.1.4 TMD Utility Corridor Water Samples

A total of 25 water samples were collected from within the TMD utility corridor. Ten samples were below 5 micrograms per liter, parts per billion (ppb) PCBs, five samples contained PCB concentrations between 5 and 10 ppb, eight samples contained concentrations between 10 and 1,000 ppb, and three samples contained concentrations exceeding 1,000 ppb. The highest concentrations of PCBs in water collected from the TMD utility corridor were from borings TMD-078 (17,000 ppb) located near manhole vault 7183 and TMD-029 (2,300 ppb) located approximately 100 feet east of manhole vault J01. Water sample concentrations are depicted on Figure 6; PCB analytical results are summarized in Table 2.

4.2 Adjoining/Intersecting Water Main and Sanitary Sewer Utility Corridors

A total of 149 soil samples and seven water samples were collected from 36 borings installed in water main and sanitary sewer utility corridors. Five of the borings (085 to 089) were installed near the sanitary sewer on the north side of Bon Brae Street at the approximate location that the former Martin Drain crossed Bon Brae Street to assess if the former Martin Drain had been backfilled with sand or other permeable backfill material. The location where Martin Drain historically crossed Bon Brae Street could not be verified as there was no sand or other distinguishable backfill material identified in borings 085 to 089. The highest PCB concentrations from borings installed in the water main and sanitary sewer utility corridors are depicted on Figures 12 and 13, respectively.

4.2.1 Soil Samples, 0-3 feet bgs

A total of 61 samples were collected from 0 to 3 feet bgs in the water main and sanitary sewer utility corridors. Forty-eight samples did not exceed 1 ppm PCBs. Nine samples contained between 1 and 10 ppm PCBs, four samples contained between 10 and 1,000 ppm PCBs. The highest concentrations of PCBs in the samples collected from 0 to 3 feet bgs in the adjoining/intersecting utility corridors was in boring TMD-025 (300 ppm) located near the intersection of Bon Brae Street and Harper Avenue. Soil concentrations in the 0 to 3 feet bgs samples are depicted on Figure 7.

4.2.2 Soil Samples, 3 to 10 feet bgs

A total of 72 soil samples were collected from 3 to 10 feet bgs in the water main and sanitary sewer utility corridors. Seventy samples did not exceed 1 ppm PCBs. One sample contained between 1 and 10 ppm PCBs; 1 sample contained greater than 10 ppm PCBs. The highest concentrations of PCBs in the samples collected from 3 to 10 feet bgs in the adjoining/intersecting utility corridors were in borings TMD-025 (56 ppm) and TMD-049 (2.1 ppm) located near the intersection of Bon Brae Street and Harper Avenue. Soil concentrations in the 3 to 10 feet bgs samples are depicted on Figure 8.

4.2.3 Soil Samples, 10 to 20 feet bgs

A total of 16 soil samples were collected from 10 to 20 feet bgs in the water main and sanitary sewer utility corridors. None of the 16 samples exceeded 1 ppm. Soil concentrations in the 10 to 20 feet bgs samples are depicted on Figures 9 and 10.

4.2.4 Water Main and Sanitary Utility Corridors Water Samples

A total of seven water samples were collected from within the water and sanitary line utility corridors. There were no detections of PCBs in water sampled from within these corridors. Water sample concentrations are depicted on Figure 6; PCB analytical results are summarized in Table 2.

4.3 Utility Samples

Two sediment and three water samples were collected from inside water, sewer, and/or the TMD utility lines during the SAI.

Sample TMD-048/MH was collected from a solid piece of black-stained material located at the surface near a sanitary sewer manhole during sanitary sewer cleaning activities. The sanitary sewer manhole is located near TMD manhole M7178. The sample contained a PCB concentration of 190 ppm. Sediment and water were collected at TMD-063, a sanitary sewer manhole, located near TMD manhole M7178. The sediment sample contained 39 ppm PCBs, and the water sample did not contain detectable concentrations of PCBs. Additional water samples were collected from locations TMD-077 (sanitary sewer) located at the intersection of Frahzo Street and the alley west of Harper Avenue and TMD-091 (storm sewer lead to TMD) located on Bon Brae Court. Neither sample had detectable concentrations of PCBs.

4.4 Additional Sample Locations

Four soil samples were collected from two borings installed on Sunnydale Street east of Harper Avenue. The samples were collected to assess whether PCBs were present on adjacent side streets. No PCBs were detected in the two samples collected on Sunnydale Street.

SECTION 5

Conclusions

The primary focus of the SAI was the utility corridors transecting the TMD utility corridor (sanitary sewer, 12-inch and 24-inch water mains) and the TMD utility corridor itself. The utility corridor investigation was conducted to assess whether utility corridors intersecting the TMD utility corridor were conduits for the migration of PCBs into the TMD utility corridor, or if historical releases into the TMD have resulted in secondary source areas of PCBs within the TMD system.

Based on the low PCB concentrations in samples collected from the water main and sanitary sewer utility lines intersecting the TMD utility corridor during the SAI, the water main and sanitary sewer corridors are not conduits for the migration of PCBs or the cause for the recontamination of the TMD system. The highest concentrations of PCBs in the water and sanitary sewer utility corridors are located at borings TMD-025 (300 ppm) and TMD-028 (10 ppm) near the intersection of Bon Brae Street and Harper Avenue (Figure 7). These levels are low compared to 180,000 and 240,000 ppm, the highest concentration of PCBs collected by the City of St. Clair Shores from inside the TMD system.

Historical release(s) into the TMD system likely have resulted in secondary source areas of PCBs within the utility corridor backfill material around the TMD. SAI results indicate that the high PCB concentrations in samples collected from the backfill of the TMD utility corridor are capable of re-impacting the sediment and water inside the TMD. The highest concentrations (greater than 1,000 ppm PCBs) depicted on Figure 9 and Figure 10 are located adjacent to four manhole vaults. In addition, an oily sheen was observed on samples collected adjacent to the four manhole vaults. Two of the vaults are located near the intersection of Bon Brae Street and Harper Avenue (M7179 and J01), and two of the vaults are located east of Harper Avenue on Bon Brae Street at the intersection of Bon Brae Street and E Street (M4335) and between E Street and B Street (M7183). The manhole vaults where greater than 1,000 ppm PCB concentrations were detected and the oily sheen was observed are depicted on Figure 14. The bottoms of the manhole vault structures are lower in elevation than the concrete pipe portions of the TMD system. PCBs, which are denser than water, appear to have accumulated around the bottom of the four vaults. The secondary source areas at the manhole vaults in the TMD utility corridor are conceptually depicted on Figures 15 and 16. The movement of water in and out of the TMD utility corridor through the joints in the piping along Bon Brae Street and Harper Avenue appear to be causing the PCB oil that has accumulated at the bottom of the vaults to continue to re-enter the drain. Figures 15 and 16 depict the potential movement of PCBs from the vault areas in and out of the TMD system.

Potential source areas other than the impacted fill around the TMD vaults were not identified during the SAI. Based on the widespread levels of PCBs in all depth intervals along Bon Brae Street and Harper Avenue, between Bon Brae and Lakeland Streets, it appears that a surficial spill or fill materials contaminated with PCB concentrations capable

of contaminating the TMD backfill in the vicinity of Bon Brae Street and Harper Avenue may have been the original source of the PCB contamination.

SECTION 6

References

CH2M HILL. 2011. *Final Sampling and Analysis Plan, Ten-Mile Drain Site, St. Clair Shores, Michigan, Source Area Investigation*. March.

CH2M HILL. 2010. *Work Plan, Ten-Mile Drain, St. Clair Shores, Michigan. Source Area Investigation.* January.

Environmental Consulting and Technology, Inc. (ECT). 2011. *10 Mile Drain Sampling Summary Memorandum*. January.

Natural Resource Conservation Service (NRCS). 2011. Web Soil Survey. http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx. Accessed June 5, 2011.

U.S. Environmental Protection Agency (USEPA). 2009. *Site Inspection Report for: St. Clair Shores Drain, St. Clair Shores, Michigan 48081. US EPA ID NO: MIN000510063*. December.

U.S. Environmental Protection Agency (USEPA). 2011. National Priority List: Region 5 Cleanup Sites. Ten-Mile Drain Site. http://www.epa.gov/region5/cleanup/tenmiledrain/index.html. Last updated May 26, 2011. Accessed June 5, 2011.

Tables

Table 1
PCB Soil Data

Sample Identificaiton	Investigtion Corridor	Analysis*	Result (mg/Kg)	Flags	Reporting Limits	Units
TMD-SO 001/0-1	A/I	PCBs	0.00	U	0.34	mg/kg
TMD-SO 001/2-3	A/I	PCBs	0.26	U	0.26	mg/kg
TMD-SO 001/4-5	A/I	PCBs	0.39	U	0.39	mg/kg
TMD-SO 001/6-7	A/I	PCBs	0.26	U	0.26	mg/kg
TMD-SO 001/7-8	A/I	PCBs	0.32	U	0.32	mg/kg
TMD-SO 002/0-1	A/I	PCBs	0.36	U	0.36	mg/kg
TMD-SO 002/2-3	A/I	PCBs	0.35	U	0.35	mg/kg
TMD-SO 002/5-6	A/I	PCBs	0.26	U	0.26	mg/kg
TMD-SO 002/6-7	A/I	PCBs	0.34	U	0.34	mg/kg
TMD-SO 003/0-1	A/I	PCBs	0.34	U	0.34	mg/kg
TMD-SO 003/2-3	A/I	PCBs	0.32	U	0.32	mg/kg
TMD-SO 003/4-5	A/I	PCBs	0.40	U	0.40	mg/kg
TMD-SO 003/5-6	A/I	PCBs	0.35	U	0.35	mg/kg
TMD-SO 003/10-11.3	A/I	PCBs	0.35	U	0.35	mg/kg
TMD-SO 003/11.3-12	A/I	PCBs	0.31	U	0.31	mg/kg
TMD-SO 004/0-1	A/I	PCBs	0.36	U	0.36	mg/kg
TMD-SO 004/2-3	A/I	PCBs	0.36	U	0.36	mg/kg
TMD-SO 004/4-5	A/I	PCBs	0.42	U	0.42	mg/kg
TMD-SO 004/6-7	A/I	PCBs	0.33	U	0.33	mg/kg
TMD-SO 004/7-8	A/I	PCBs	0.34	U	0.34	mg/kg
TMD-SO 005/0-1	A/I	PCBs	0.37	U	0.37	mg/kg
TMD-SO 005/2-3	A/I	PCBs	0.30	U	0.30	mg/kg
TMD-SO 005/4-5	A/I	PCBs	0.32	U	0.32	mg/kg
TMD-SO 005/7.2-8.2	A/I	PCBs	0.30	U	0.30	mg/kg
TMD-SO 005/8.2-9.2	A/I	PCBs	0.28	U	0.28	mg/kg
TMD-SO 005/9.2-9.7	A/I	PCBs	0.28	U	0.28	mg/kg
TMD-SO 006/1-2	A/I	PCBs	0.27	U	0.27	mg/kg
TMD-SO 006/2-3	A/I	PCBs	0.33	U	0.33	mg/kg
TMD-SO 006/5-6	A/I	PCBs	0.35	U	0.35	mg/kg
TMD-SO 006/6-7	A/I	PCBs	0.32	U	0.32	mg/kg
TMD-SO 007/0-1	A/I	PCBs	0.33	U	0.33	mg/kg
TMD-SO 007/2-3	A/I	PCBs	0.35	U	0.35	mg/kg
TMD-SO 007/4-5	A/I	PCBs	0.34	U	0.34	mg/kg
TMD-SO 007/4-5D	A/I	PCBs	0.30	U	0.30	mg/kg
TMD-SO 007/6-7	A/I	PCBs	0.33	U	0.33	mg/kg
TMD-SO 007/7-8	A/I	PCBs	0.30	U	0.30	mg/kg
TMD-SO 007/9-10	A/I	PCBs	0.29	U	0.29	mg/kg
TMD-SO 007/11-12	A/I	PCBs	0.33	U	0.33	mg/kg
TMD-SO 008/0-1	A/I	PCBs	0.24	U	0.24	mg/kg
TMD-SO 008/6-7	A/I	PCBs	0.29	U	0.29	mg/kg
TMD0SO 008/6-7D	A/I	PCBs	0.26	U	0.26	mg/kg
TMD-SO 008/7-8	A/I	PCBs	0.29	U	0.29	mg/kg
TMD-SO 009/1-2	A/I	PCBs	0.29		0.29	mg/kg
TMD-SO 009/2-3	A/I	PCBs	0.23	U	0.23	mg/kg
TMD-SO 009/2-3D	A/I	PCBs	0.34	U	0.34	mg/kg
TMD-SO 009/4-5	A/I	PCBs	0.32	U	0.32	mg/kg
TMD-SO 009/5-6	A/I	PCBs	0.31	U	0.31	mg/kg
TMD-SO 009/6-7	A/I	PCBs	0.37	U	0.37	mg/kg
TMD-SO 009/7-8	A/I	PCBs	0.32	U	0.32	mg/kg
TMD-SO 010/0-1	A/I	PCBs	0.56		0.34	mg/kg

Notes:
A/I = Adjoining / Intersecting Corridor
TMD = Ten Mile Drain Corridor
Sample results reported in mg/kg (parts per million)
U - Not detected above reporting limit.
J - Analyte identified in sample, however, reported value is estimated.
* All PCB results reported were as PCB Aroclor 1248, with the exception of TMD - SO 070/14-15 which was reported as PCB Aroclor 1016 and TMD - SO 029/14.1-15, TMD - SO 056/12-13, TMD - SO 078/12-13 and TMD - SO 078/13-14 which were reported as PCB Aroclor 1242.

Table 1
PCB Soil Data

Sample Identificaiton	Investigtion Corridor	Analysis*	Result (mg/Kg)	Flags	Reporting Limits	Units
TMD-SO 010/2-2.5	A/I	PCBs	0.18	J	0.28	mg/kg
TMD-SO 010/6-7	A/I	PCBs	0.34	U	0.34	mg/kg
TMD-SO 010/6-7D	A/I	PCBs	0.25	U	0.25	mg/kg
TMD-SO 010/7-8	A/I	PCBs	0.28	U	0.28	mg/kg
TMD-SO 011/0-1	A/I	PCBs	2.00		0.38	mg/kg
TMD-SO 011/1-2	A/I	PCBs	0.32	U	0.32	mg/kg
TMD-SO 011/5-6	A/I	PCBs	0.28	U	0.28	mg/kg
TMD-SO 011/6-7	A/I	PCBs	0.33	U	0.33	mg/kg
TMD-SO 012/0-1	A/I	PCBs	0.97		0.32	mg/kg
TMD-SO 012/2-3	A/I	PCBs	0.36	U	0.36	mg/kg
TMD-SO 012/5-6	A/I	PCBs	0.38	U	0.38	mg/kg
TMD-SO 012/5-6R	A/I	PCBs	0.29	U	0.29	mg/kg
TMD-SO 012/6-7	A/I	PCBs	0.31	U	0.31	mg/kg
TMD-SO 013/0-1	A/I	PCBs	0.34	U	0.34	mg/kg
TMD-SO 013/2-3	A/I	PCBs	0.29	U	0.29	mg/kg
TMD-SO 013/5-6	A/I	PCBs	0.22	U	0.22	mg/kg
TMD-SO 013/5-6R	A/I	PCBs	0.26	U	0.26	mg/kg
TMD-SO 013/6-7	A/I	PCBs	0.33	U	0.33	mg/kg
TMD-SO 014/0-1	A/I	PCBs	0.32	J	0.38	mg/kg
TMD-SO 014/2-3	A/I	PCBs	0.30	U	0.30	mg/kg
TMD-SO 014/4-5	A/I	PCBs	0.35	U	0.35	mg/kg
TMD-SO 014/6-7	A/I	PCBs	0.32	U	0.32	mg/kg
TMD-SO 014/8-9	A/I	PCBs	0.29	U	0.29	mg/kg
TMD-SO 014/10-11	A/I	PCBs	0.38	U	0.38	mg/kg
TMD-SO 014/10-11R	A/I	PCBs	0.30	U	0.30	mg/kg
TMD-SO 014/12-13	A/I	PCBs	0.34	U	0.34	mg/kg
TMD-SO 014/13-14	A/I	PCBs	0.30	U	0.30	mg/kg
TMD-SO 015/4-5	TMD	PCBs	0.29	U	0.29	mg/kg
TMD-SO 015/5-6	TMD	PCBs	0.38	U	0.38	mg/kg
TMD-SO 015/6-7	TMD	PCBs	0.26	U	0.26	mg/kg
TMD-SO 015/11-12	TMD	PCBs	0.28	U	0.28	mg/kg
TMD-SO 015/12-13	TMD	PCBs	0.25	U	0.25	mg/kg
TMD-SO 015/12-13R	TMD	PCBs	0.27	U	0.27	mg/kg
TMD-SO 016/0-1	TMD	PCBs	3.30		0.34	mg/kg
TMD-SO 016/2-3	TMD	PCBs	130.00		0.36	mg/kg
TMD-SO 016/6-7	TMD	PCBs	4.70		0.39	mg/kg
TMD-SO 016/10-11	TMD	PCBs	0.26	U	0.26	mg/kg
TMD-SO 016/11-12	TMD	PCBs	0.31	U	0.31	mg/kg
TMD-SO 016/12-13	TMD	PCBs	1.00		0.25	mg/kg
TMD-SO 017/0-1	A/I	PCBs	1.30		0.40	mg/kg
TMD-SO 017/2-3	A/I	PCBs	2.10		0.25	mg/kg
TMD-SO 017/6-7	A/I	PCBs	0.32	U	0.32	mg/kg
TMD-SO 017/10-11	A/I	PCBs	0.25	U	0.25	mg/kg
TMD-SO 017/10-11R	A/I	PCBs	0.35	U	0.35	mg/kg
TMD-SO 017/12-13	A/I	PCBs	0.23	U	0.23	mg/kg
TMD-SO 017/13-14	A/I	PCBs	0.30	U	0.30	mg/kg
TMD-SO 018/0-1	TMD	PCBs	0.35	U	0.35	mg/kg
TMD-SO 018/2-3	TMD	PCBs	0.31	U	0.31	mg/kg
TMD-SO 018/6-7	TMD	PCBs	0.29	U	0.29	mg/kg
TMD-SO 018/10-11	TMD	PCBs	0.42	U	0.42	mg/kg
TMD-SO 018/11-12	TMD	PCBs	0.47		0.34	mg/kg
TMD-SO 018/12-13	TMD	PCBs	0.28	U	0.28	mg/kg

Notes:
A/I = Adjoining / Intersecting Corridor
TMD = Ten Mile Drain Corridor
Sample results reported in mg/kg (parts per million)
U - Not detected above reporting limit.
J - Analyte identified in sample, however, reported value is estimated.
* All PCB results reported were as PCB Aroclor 1248, with the exception of TMD - SO 070/14-15 which was reported as PCB Aroclor 1016 and TMD - SO 029/14.1-15, TMD - SO 056/12-13, TMD - SO 078/12-13 and TMD - SO 078/13-14 which were reported as PCB Aroclor 1242.

Table 1
PCB Soil Data

Sample Identificaiton	Investigtion Corridor	Analysis*	Result (mg/Kg)	Flags	Reporting Limits	Units
TMD-SO 019/1-2	TMD	PCBs	0.99		0.28	mg/kg
TMD-SO 019/2-3	TMD	PCBs	3.20		0.30	mg/kg
TMD-SO 019/5-6	TMD	PCBs	0.31		0.31	mg/kg
TMD-SO 019/7-8	TMD	PCBs	1.30		0.36	mg/kg
TMD-SO 019/10-11	TMD	PCBs	2.20		0.35	mg/kg
TMD-SO 019/12-13	TMD	PCBs	0.91		0.25	mg/kg
TMD-SO 019/15-16	TMD	PCBs	0.28	U	0.28	mg/kg
TMD-SO 020/1-2	TMD	PCBs	0.17	J	0.28	mg/kg
TMD-SO 020/2-3	TMD	PCBs	0.25	J	0.27	mg/kg
TMD-SO 020/6-7	TMD	PCBs	2.60		0.34	mg/kg
TMD-SO 020-6-7R	TMD	PCBs	1.60		0.33	mg/kg
TMD-SO 020/10.5-11.5	TMD	PCBs	0.61		0.35	mg/kg
TMD-SO 020/12.2-13.2	TMD	PCBs	0.31	U	0.31	mg/kg
TMD-SO 021/0-1	A/I	PCBs	1.30		0.30	mg/kg
TMD-SO 021/2-3	A/I	PCBs	0.33	U	0.33	mg/kg
TMD-SO 021/4-5	A/I	PCBs	0.34	U	0.34	mg/kg
TMD-SO 021/6-7	A/I	PCBs	0.30	U	0.30	mg/kg
TMD-SO 021/7-8	A/I	PCBs	0.28	U	0.28	mg/kg
TMD-SO 022/0-1	A/I	PCBs	0.43		0.38	mg/kg
TMD-SO 022/2-3	A/I	PCBs	0.33	U	0.33	mg/kg
TMD-SO 022/5-6	A/I	PCBs	0.36	U	0.36	mg/kg
TMD-SO 022/6-7	A/I	PCBs	0.35	U	0.35	mg/kg
TMD-SO 023/1-2	TMD	PCBs	3.30		0.32	mg/kg
TMD-SO 023/2-3	TMD	PCBs	3.20		0.28	mg/kg
TMD-SO 023/6-7	TMD	PCBs	0.32		0.21	mg/kg
TMD-SO 023/6-7R	TMD	PCBs	0.38		0.32	mg/kg
TMD-SO 023/11-12	TMD	PCBs	1.80		0.29	mg/kg
TMD-SO 023/12-13	TMD	PCBs	0.29	U	0.29	mg/kg
TMD-SO 024/1-2	TMD	PCBs	7.20		0.27	mg/kg
TMD-SO 024/2-3	TMD	PCBs	7.10		0.25	mg/kg
TMD-SO 024/6-7	TMD	PCBs	0.80		0.23	mg/kg
TMD-SO 024/12.5-13.5	TMD	PCBs	0.45		0.22	mg/kg
TMD-SO 024/13.5-14.5	TMD	PCBs	0.25	U	0.25	mg/kg
TMD-SO 025/1-2	TMD	PCBs	80.00		0.33	mg/kg
TMD-SO 025/2-3	TMD	PCBs	300.00		0.37	mg/kg
TMD-SO 025/6.3-7.3	TMD	PCBs	56.00		0.28	mg/kg
TMD-SO 025/7.3-8.3	TMD	PCBs	0.63		0.33	mg/kg
TMD-SO 026/1-2	TMD	PCBs	0.20	J	0.34	mg/kg
TMD-SO 026/2-3	TMD	PCBs	1.30		0.35	mg/kg
TMD-SO 026/6-7	TMD	PCBs	1.30		0.33	mg/kg
TMD-SO 026/11.5-12.5	TMD	PCBs	0.34		0.34	mg/kg
TMD-SO 027/1-2	TMD	PCBs	37.00		0.34	mg/kg
TMD-SO 027/2-3	TMD	PCBs	8.70		0.31	mg/kg
TMD-SO 027/6-7	TMD	PCBs	0.34	U	0.34	mg/kg
TMD-SO 027/12-13	TMD	PCBs	75.00		0.36	mg/kg
TMD-SO 027/12-13 R	TMD	PCBs	78.00		0.32	mg/kg
TMD-SO 027/14-15	TMD	PCBs	9.00		0.33	mg/kg

Notes:
A/I = Adjoining / Intersecting Corridor
TMD = Ten Mile Drain Corridor
Sample results reported in mg/kg (parts per million)
U - Not detected above reporting limit.
J - Analyte identified in sample, however, reported value is estimated.
* All PCB results reported were as PCB Aroclor 1248, with the exception of TMD - SO 070/14-15 which was reported as PCB Aroclor 1016 and TMD - SO 029/14.1-15, TMD - SO 056/12-13, TMD - SO 078/12-13 and TMD - SO 078/13-14 which were reported as PCB Aroclor 1242.

Table 1
PCB Soil Data

Sample Identificaiton	Investigtion Corridor	Analysis*	Result (mg/Kg)	Flags	Reporting Limits	Units
TMD-SO 028/1-2	TMD	PCBs	10.00		0.29	mg/kg
TMD-SO 028/2-3	TMD	PCBs	0.32	J	0.35	mg/kg
TMD-SO 028/6-7	TMD	PCBs	0.35	U	0.35	mg/kg
TMD-SO 028/11-12	TMD	PCBs	0.31	J	0.31	mg/kg
TMD-SO 028/11-12 R	TMD	PCBs	0.30	U	0.30	mg/kg
TMD-SO 028/12-13	TMD	PCBs	0.35	U	0.35	mg/kg
TMD-SO 029/1-2	TMD	PCBs	5.40		0.30	mg/kg
TMD-SO 29/2-3	TMD	PCBs	0.24	J	0.28	mg/kg
TMD-SO 029/6-7	TMD	PCBs	0.26	U	0.26	mg/kg
TMD-SO 029/14.1-15	TMD	PCBs	10.00		0.30	mg/kg
TMD-SO 030/1-2	TMD	PCBs	2.00		0.28	mg/kg
TMD-SO 030/2-3	TMD	PCBs	0.25	U	0.25	mg/kg
TMD-SO 030/5-6	TMD	PCBs	0.30	U	0.30	mg/kg
TMD-SO 030/6-7	TMD	PCBs	0.23	U	0.23	mg/kg
TMD-SO 030/6-7 R	TMD	PCBs	0.30	U	0.30	mg/kg
TMD-SO 030/12-13	TMD	PCBs	1.50		0.36	mg/kg
TMD-SO 030/14.2-15	TMD	PCBs	0.00	U	0.36	mg/kg
TMD-SO 031/1-2	A/I	PCBs	0.41		0.31	mg/kg
TMD-SO 031/2-3	A/I	PCBs	0.35	U	0.35	mg/kg
TMD-SO 031/2-3 R	A/I	PCBs	0.36	U	0.36	mg/kg
TMD-SO 031/4-5	A/I	PCBs	0.30	U	0.30	mg/kg
TMD-SO 031/5-6	A/I	PCBs	0.81		0.38	mg/kg
TMD-SO 032/1-2	TMD	PCBs	2.10		0.31	mg/kg
TMD-SO 032/2-3	TMD	PCBs	0.26	U	0.26	mg/kg
TMD-SO 032/5-6	TMD	PCBs	0.29	U	0.29	mg/kg
TMD-SO 032/6-7	TMD	PCBs	0.23	U	0.23	mg/kg
TMD-SO 032/14-15	TMD	PCBs	0.36	U	0.36	mg/kg
TMD-SO 033/1-2	TMD	PCBs	1.30		0.28	mg/kg
TMD-SO 033/2-3	TMD	PCBs	0.26	U	0.26	mg/kg
TMD-SO 033/2-3 R	TMD	PCBs	0.32	U	0.32	mg/kg
TMD-SO 033/6.9-7.9	TMD	PCBs	0.27	U	0.27	mg/kg
TMD-SO 033/7.9-8.9	TMD	PCBs	0.34	U	0.34	mg/kg
TMD-SO 034/1-2	TMD	PCBs	0.22	J	0.20	mg/kg
TMD-SO 034/2-3	TMD	PCBs	0.36	U	0.36	mg/kg
TMD-SO 035/1-2	TMD	PCBs	0.63		0.28	mg/kg
TMD-SO 035/2-3	TMD	PCBs	0.23	J	0.29	mg/kg
TMD-SO 035/5-6	TMD	PCBs	0.70		0.27	mg/kg
TMD-SO 035/5-6 R	TMD	PCBs	0.38		0.25	mg/kg
TMD-SO 035/6-7	TMD	PCBs	0.28	U	0.28	mg/kg
TMD-SO 035/13.6-14.6	TMD	PCBs	0.32	U	0.32	mg/kg
TMD-SO 036/1-2	TMD	PCBs	1.60		0.30	mg/kg
TMD-SO 036/2-3	TMD	PCBs	0.25	U	0.25	mg/kg
TMD-SO 036/5-5.5	TMD	PCBs	0.25	U	0.25	mg/kg
TMD-SO 036/13.8-14.8	TMD	PCBs	0.29	U	0.29	mg/kg
TMD-SO 037/1-2	TMD	PCBs	0.28	U	0.28	mg/kg
TMD-SO 037/2-3	TMD	PCBs	0.22	U	0.22	mg/kg
TMD-SO 037/2-3 R	TMD	PCBs	0.23	U	0.23	mg/kg
TMD-SO 037/5-5.9	TMD	PCBs	0.34	U	0.34	mg/kg
TMD-SO 037/7.3-8	TMD	PCBs	0.46		0.36	mg/kg
TMD-SO 037/12.9-13.9	TMD	PCBs	0.51		0.28	mg/kg
TMD-SO 038/1-2	TMD	PCBs	0.27	U	0.27	mg/kg
TMD-SO 038/2.5-3.5	TMD	PCBs	0.22	U	0.22	mg/kg

Notes:
A/I = Adjoining / Intersecting Corridor
TMD = Ten Mile Drain Corridor
Sample results reported in mg/kg (parts per million)
U - Not detected above reporting limit.
J - Analyte identified in sample, however, reported value is estimated.
* All PCB results reported were as PCB Aroclor 1248, with the exception of TMD - SO 070/14-15 which was reported as PCB Aroclor 1016 and TMD - SO 029/14.1-15, TMD - SO 056/12-13, TMD - SO 078/12-13 and TMD - SO 078/13-14 which were reported as PCB Aroclor 1242.

Table 1
PCB Soil Data

Sample Identificaiton	Investigtion Corridor	Analysis*	Result (mg/Kg)	Flags	Reporting Limits	Units
TMD-SO 038/5-6	TMD	PCBs	0.36	U	0.36	mg/kg
TMD-SO 038/13.2-14.2	TMD	PCBs	0.29	U	0.29	mg/kg
TMD-SO 039/1-2	TMD	PCBs	0.37	U	0.37	mg/kg
TMD-SO 039/2-3	TMD	PCBs	0.38	U	0.38	mg/kg
TMD-SO 039/3-4	TMD	PCBs	0.26	U	0.26	mg/kg
TMD-SO 039/4-5	TMD	PCBs	0.26	U	0.26	mg/kg
TMD-SO 039/5-6	TMD	PCBs	0.31	U	0.31	mg/kg
TMD-SO 040/1-2	TMD	PCBs	0.32	U	0.32	mg/kg
TMD-SO 040/2-3	TMD	PCBs	0.30	U	0.30	mg/kg
TMD-SO 040/5-6	TMD	PCBs	0.24	U	0.24	mg/kg
TMD-SO 040/11-12	TMD	PCBs	0.32		0.25	mg/kg
TMD-SO 040/12.1-13.1	TMD	PCBs	0.32	U	0.32	mg/kg
TMD-SO 041/1-2	A/I	PCBs	0.38	U	0.38	mg/kg
TMD-SO 041/2-3	A/I	PCBs	0.32	U	0.32	mg/kg
TMD-SO 041/4-5	A/I	PCBs	0.33	U	0.33	mg/kg
TMD-SO 041/6-7	A/I	PCBs	0.34	U	0.34	mg/kg
TMD-SO 041/7-8	A/I	PCBs	0.32	U	0.32	mg/kg
TMD-SO 041/8-9	A/I	PCBs	0.29	U	0.29	mg/kg
TMD-SO 041/9-10	A/I	PCBs	0.29	U	0.29	mg/kg
TMD-SO 042/1-2	TMD	PCBs	0.20	J	0.27	mg/kg
TMD-SO 042/2-3	TMD	PCBs	0.22	U	0.22	mg/kg
TMD-SO 042/6-7	TMD	PCBs	2.60		0.27	mg/kg
TMD-SO 042/6-7 R	TMD	PCBs	1.60		0.21	mg/kg
TMD-SO 042/11.3-12.1	TMD	PCBs	0.57		0.23	mg/kg
TMD-SO 042/12.5-13.5	TMD	PCBs	0.34	U	0.34	mg/kg
TMD-SO 043/1-2	TMD	PCBs	1.50		0.29	mg/kg
TMD-SO 043/2-3	TMD	PCBs	0.70		0.32	mg/kg
TMD-SO 043/2-3 R	TMD	PCBs	0.47		0.29	mg/kg
TMD-SO 043/6-7	TMD	PCBs	0.29	U	0.29	mg/kg
TMD-SO 043/12.1-13.1	TMD	PCBs	0.66		0.33	mg/kg
TMD-SO 043/13.1-14.1	TMD	PCBs	0.37	U	0.37	mg/kg
TMD-SO 044/1-2	A/I	PCBs	0.33	U	0.33	mg/kg
TMD-SO 044/1-2 R	A/I	PCBs	0.25	U	0.25	mg/kg
TMD-SO 044/2-3	A/I	PCBs	0.32	U	0.32	mg/kg
TMD-SO 045/1-2	A/I	PCBs	0.21	U	0.21	mg/kg
TMD-SO 045/2-3	A/I	PCBs	0.25	U	0.25	mg/kg
TMD-SO 046/1-2	A/I	PCBs	1.80		0.28	mg/kg
TMD-SO 046/2-3	A/I	PCBs	0.28	U	0.28	mg/kg
TMD-SO 046/4-4.8	A/I	PCBs	0.29	U	0.29	mg/kg
TMD-SO 046/6-7	A/I	PCBs	0.28	U	0.28	mg/kg
TMD-SO 046/8-9	A/I	PCBs	0.25	U	0.25	mg/kg
TMD-SO 046/10-11	A/I	PCBs	0.37	U	0.37	mg/kg
TMD-SO 047/1-2	A/I	PCBs	0.30	U	0.30	mg/kg
TMD-SO 047/2-3	A/I	PCBs	0.34	U	0.34	mg/kg
TMD-SO 047/4-5	A/I	PCBs	0.24	U	0.24	mg/kg
TMD-SO 047/6-7	A/I	PCBs	0.31	U	0.31	mg/kg
TMD-SO 048/MH	Utility Line	PCBs	190.00		6.60	mg/kg
TMD-SO 049/1-2	A/I	PCBs	3.50		0.28	mg/kg
TMD-SO 049/2-3	A/I	PCBs	2.70		0.27	mg/kg
TMD-SO 049/5-6	A/I	PCBs	2.10		0.28	mg/kg

Notes:
A/I = Adjoining / Intersecting Corridor
TMD = Ten Mile Drain Corridor
Sample results reported in mg/kg (parts per million)
U - Not detected above reporting limit.
J - Analyte identified in sample, however, reported value is estimated.
* All PCB results reported were as PCB Aroclor 1248, with the exception of TMD - SO 070/14-15 which was reported as PCB Aroclor 1016 and TMD - SO 029/14.1-15, TMD - SO 056/12-13, TMD - SO 078/12-13 and TMD - SO 078/13-14 which were reported as PCB Aroclor 1242.

Table 1
PCB Soil Data

Sample Identificaiton	Investigtion Corridor	Analysis*	Result (mg/Kg)	Flags	Reporting Limits	Units
TMD-SO 049/10-11	A/I	PCBs	0.34	U	0.34	mg/kg
TMD-SO 049/11.5-12.5	A/I	PCBs	0.31	U	0.31	mg/kg
TMD-SO 050/0-1	A/I	PCBs	2.40		0.27	mg/kg
TMD-SO 050/2-2.4	A/I	PCBs	0.36	U	0.36	mg/kg
TMD-SO 050/6-7	A/I	PCBs	0.30	U	0.30	mg/kg
TMD-SO 050/7.5-8.5	A/I	PCBs	0.27	U	0.27	mg/kg
TMD-SO 051/1-2	A/I	PCBs	0.62		0.36	mg/kg
TMD-SO 051/2-3	A/I	PCBs	0.26	U	0.26	mg/kg
TMD-SO 051/5-6	A/I	PCBs	0.27	U	0.27	mg/kg
TMD-SO 051/7-8	A/I	PCBs	0.29	U	0.29	mg/kg
TMD-SO 051/8.5-9.5	A/I	PCBs	0.32	U	0.32	mg/kg
TMD-SO 052/1-2	A/I	PCBs	43.00		2.60	mg/kg
TMD-SO 052/2-3	A/I	PCBs	3.50		0.37	mg/kg
TMD-SO 052/4-5	A/I	PCBs	0.38	U	0.38	mg/kg
TMD-SO 053/1-2	TMD	PCBs	0.28	U	0.28	mg/kg
TMD-SO 053/2-3	TMD	PCBs	0.27	U	0.27	mg/kg
TMD-SO 053/5-6	TMD	PCBs	0.30	U	0.30	mg/kg
TMD-SO 053/5-6 R	TMD	PCBs	0.29	U	0.29	mg/kg
TMD-SO 053/11.5-12.5	TMD	PCBs	0.30	U	0.30	mg/kg
TMD-SO 053/11.5-12.5 R	TMD	PCBs	0.26	U	0.26	mg/kg
TMD-SO 053/12.5-13.5	TMD	PCBs	66,000.00		3,100.00	mg/kg
TMD-SO 053/13.5-14	TMD	PCBs	22,000.00		570.00	mg/kg
TMD-SO 053/14.5-15	TMD	PCBs	39.00		2.30	mg/kg
TMD-SO 054/1-2	TMD	PCBs	0.93		0.35	mg/kg
TMD-SO 054/2-3	TMD	PCBs	1.10		0.30	mg/kg
TMD-SO 054/9-10	TMD	PCBs	0.54		0.24	mg/kg
TMD-SO 054/9-10 R	TMD	PCBs	1.80		0.31	mg/kg
TMD-SO 054/11-12	TMD	PCBs	8.40		0.28	mg/kg
TMD-SO 054/11-12 R	TMD	PCBs	940.00		55.00	mg/kg
TMD-SO 054/12-13	TMD	PCBs	6.20		0.26	mg/kg
TMD-SO 055/2-3	TMD	PCBs	0.35	U	0.35	mg/kg
TMD-SO 055/5-6	TMD	PCBs	0.30	U	0.30	mg/kg
TMD-SO 055/5-6 R	TMD	PCBs	0.32	U	0.32	mg/kg
TMD-SO 055/7-8	TMD	PCBs	170.00		5.40	mg/kg
TMD-SO 055/9-10	TMD	PCBs	0.27	J	0.27	mg/kg
TMD-SO 055/10-11	TMD	PCBs	33.00		2.80	mg/kg
TMD-SO 056/1-2	TMD	PCBs	3.80		0.29	mg/kg
TMD-SO 056/2-3	TMD	PCBs	2.50		0.32	mg/kg
TMD-SO 056/6-7	TMD	PCBs	3.00		0.28	mg/kg
TMD-SO 056/12-13	TMD	PCBs	2.30		0.21	mg/kg
TMD-SO 056/13-14	TMD	PCBs	0.31	U	0.31	mg/kg
TMD-SO 057/2-3	TMD	PCBs	0.24	U	0.24	mg/kg
TMD-SO 057/4-4.8	TMD	PCBs	0.29	U	0.29	mg/kg
TMD-SO 057/4-4.8 R	TMD	PCBs	0.25	U	0.25	mg/kg
TMD-SO 057/6-7	TMD	PCBs	1.50		0.23	mg/kg
TMD-SO 057/7-7.8	TMD	PCBs	0.53		0.34	mg/kg
TMD-SO 057/10-11	TMD	PCBs	0.21	J	0.29	mg/kg
TMD-SO 057/11-12	TMD	PCBs	0.68		0.33	mg/kg
TMD-SO 057/12-13	TMD	PCBs	46.00		3.30	mg/kg
TMD-SO 057/13-13.6	TMD	PCBs	1,600.00		65.00	mg/kg
TMD-SO 058/15-15.4	TMD	PCBs	0.32	U	0.32	mg/kg
TMD-SO 058/15-15.4 R	TMD	PCBs	0.29	U	0.29	mg/kg

Notes:
A/I = Adjoining / Intersecting Corridor
TMD = Ten Mile Drain Corridor
Sample results reported in mg/kg (parts per million)
U - Not detected above reporting limit.
J - Analyte identified in sample, however, reported value is estimated.
* All PCB results reported were as PCB Aroclor 1248, with the exception of TMD - SO 070/14-15 which was reported as PCB Aroclor 1016 and TMD - SO 029/14.1-15, TMD - SO 056/12-13, TMD - SO 078/12-13 and TMD - SO 078/13-14 which were reported as PCB Aroclor 1242.

Table 1
PCB Soil Data

Sample Identificaiton	Investigtion Corridor	Analysis*	Result (mg/Kg)	Flags	Reporting Limits	Units
TMD-SO 058/15.4-16	TMD	PCBs	0.39	U	0.39	mg/kg
TMD-SO 059/1-2	TMD	PCBs	0.32	U	0.32	mg/kg
TMD-SO 059/2-3	TMD	PCBs	0.24	U	0.24	mg/kg
TMD-SO 059/6-7	TMD	PCBs	0.24	U	0.24	mg/kg
TMD-SO 059/10-11	TMD	PCBs	0.23	J	0.30	mg/kg
TMD-SO 059/12-13	TMD	PCBs	1,500.00		52.00	mg/kg
TMD-SO 059/12-13 R	TMD	PCBs	1,400.00		61.00	mg/kg
TMD-SO 059/13-14	TMD	PCBs	18.00		0.51	mg/kg
TMD-SO 060/1-2	TMD	PCBs	0.18	J	0.25	mg/kg
TMD-SO 060/2-3	TMD	PCBs	0.24	U	0.24	mg/kg
TMD-SO 060/5-6	TMD	PCBs	0.30	U	0.30	mg/kg
TMD-SO 060/6-6.7	TMD	PCBs	13.00		0.40	mg/kg
TMD-SO 060/13.5-14.5	TMD	PCBs	0.34	U	0.34	mg/kg
TMD-SO-061/6-7	TMD	PCBs	0.25	U	0.25	mg/kg
TMD-SO 061/11.5-12.5	TMD	PCBs	2.10		0.26	mg/kg
TMD-SO 061/13-14	TMD	PCBs	1.10		0.25	mg/kg
TMD-SO 062/1-2	TMD	PCBs	0.23	U	0.23	mg/kg
TMD-SO 062/2-3	TMD	PCBs	0.25	U	0.25	mg/kg
TMD-SO 062/5.7-6.7	TMD	PCBs	0.24	U	0.24	mg/kg
TMD-SO 063/MH	Utility Line	PCBs	39.00		1.10	mg/kg
TMD-SO 064/2-3	TMD	PCBs	1.10		0.28	mg/kg
TMD-SO 064/6-7	TMD	PCBs	0.26	U	0.26	mg/kg
TMD-SO 064/8-9	TMD	PCBs	5.90		0.25	mg/kg
TMD-SO 064/10-11	TMD	PCBs	290.00		11.00	mg/kg
TMD-SO 064/12-13	TMD	PCBs	1,100.00		32.00	mg/kg
TMD-SO 064/12-13 R	TMD	PCBs	1,000.00		29.00	mg/kg
TMD-SO 064/13-14	TMD	PCBs	3.20		0.31	mg/kg
TMD-SO 065/1.3-2	TMD	PCBs	0.31	U	0.31	mg/kg
TMD-SO 065/2-3	TMD	PCBs	0.28	U	0.28	mg/kg
TMD-SO 065/6-7	TMD	PCBs	0.28	U	0.28	mg/kg
TMD-SO 065/6-7 R	TMD	PCBs	0.27	U	0.27	mg/kg
TMD-SO 065/7-8	TMD	PCBs	0.31	U	0.31	mg/kg
TMD-SO 065/10-11	TMD	PCBs	0.33	U	0.33	mg/kg
TMD-SO 065/11-12	TMD	PCBs	0.30	U	0.30	mg/kg
TMD-SO 065/13-13.5	TMD	PCBs	0.25	U	0.25	mg/kg
TMD-SO 066/10-11	TMD	PCBs	0.36	U	0.36	mg/kg
TMD-SO 066/12-13	TMD	PCBs	0.28	U	0.28	mg/kg
TMD-SO 066/13-14	TMD	PCBs	0.33	U	0.33	mg/kg
TMD-SO 067/10-11	TMD	PCBs	0.29	U	0.29	mg/kg
TMD-SO 067/11-12	TMD	PCBs	0.34	U	0.34	mg/kg
TMD-SO 067/12-13	TMD	PCBs	0.37	U	0.37	mg/kg
TMD-SO 068/6-7	TMD	PCBs	0.27	U	0.27	mg/kg
TMD-SO 068/6-7 R	TMD	PCBs	0.31	U	0.31	mg/kg
TMD-SO 068/7-8	TMD	PCBs	0.27	U	0.27	mg/kg
TMD-SO 068/10-11	TMD	PCBs	39,000.00		1,400.00	mg/kg
TMD-SO 068/12-13	TMD	PCBs	27,000.00		1,200.00	mg/kg
TMD-SO 068/13-14	TMD	PCBs	47.00		3.40	mg/kg

Notes:
A/I = Adjoining / Intersecting Corridor
TMD = Ten Mile Drain Corridor
Sample results reported in mg/kg (parts per million)
U - Not detected above reporting limit.
J - Analyte identified in sample, however, reported value is estimated.
* All PCB results reported were as PCB Aroclor 1248, with the exception of TMD - SO 070/14-15 which was reported as PCB Aroclor 1016 and TMD - SO 029/14.1-15, TMD - SO 056/12-13, TMD - SO 078/12-13 and TMD - SO 078/13-14 which were reported as PCB Aroclor 1242.

Table 1
PCB Soil Data

Sample Identificaiton	Investigtion Corridor	Analysis*	Result (mg/Kg)	Flags	Reporting Limits	Units
TMD-SO 069/1-2	TMD	PCBs	0.26	U	0.26	mg/kg
TMD-SO 069/2-2.8	TMD	PCBs	0.30	U	0.30	mg/kg
TMD-SO 069/6-7	TMD	PCBs	0.31	U	0.31	mg/kg
TMD-SO 069/8-9	TMD	PCBs	0.28	U	0.28	mg/kg
TMD-SO 069/10-11	TMD	PCBs	77.00		3.80	mg/kg
TMD-SO 069/11-12	TMD	PCBs	0.22	J	0.34	mg/kg
TMD-SO 070/2-3	TMD	PCBs	450.00		14.00	mg/kg
TMD-SO 070/4-5	TMD	PCBs	0.62		0.31	mg/kg
TMD-SO 070/6-7	TMD	PCBs	0.30	U	0.30	mg/kg
TMD-SO 070/6-7 R	TMD	PCBs	0.25	U	0.25	mg/kg
TMD-SO 070/8-9	TMD	PCBs	1.70		0.25	mg/kg
TMD-SO 070/12-13	TMD	PCBs	0.27	J	0.30	mg/kg
TMD-SO 070/13-14	TMD	PCBs	0.30	U	0.30	mg/kg
TMD-SO 070/14-15	TMD	PCBs	0.34	U	0.34	mg/kg
TMD-SO 071/0-1	TMD	PCBs	7.80		0.24	mg/kg
TMD-SO 071/2-3	TMD	PCBs	1.40		0.29	mg/kg
TMD-SO 071/6-7	TMD	PCBs	4.70		0.32	mg/kg
TMD-SO 071/9-9.7	TMD	PCBs	0.27	J	0.29	mg/kg
TMD-SO 071/11.4-12.5	TMD	PCBs	0.38	U	0.38	mg/kg
TMD-SO 072/12-13	TMD	PCBs	0.26	U	0.26	mg/kg
TMD-SO 072/12-13 R	TMD	PCBs	0.26	U	0.26	mg/kg
TMD-SO 072/13-14	TMD	PCBs	0.34	U	0.34	mg/kg
TMD-SO 073/0-1	TMD	PCBs	0.18	J	0.28	mg/kg
TMD-SO 073/1-2	TMD	PCBs	0.29	U	0.29	mg/kg
TMD-SO 073/6-7	TMD	PCBs	0.32	U	0.32	mg/kg
TMD-SO 073/10-11	TMD	PCBs	0.27	U	0.27	mg/kg
TMD-SO 073 12-13	TMD	PCBs	0.29	U	0.29	mg/kg
TMD-SO 073/13-14	TMD	PCBs	39.00		2.50	mg/kg
TMD-SO 074/4-5	TMD	PCBs	0.31	U	0.31	mg/kg
TMD-SO 074/6-7	TMD	PCBs	0.27	U	0.27	mg/kg
TMD-SO 074/8-9	TMD	PCBs	0.29	U	0.29	mg/kg
TMD-SO 074/10-11	TMD	PCBs	0.30	U	0.30	mg/kg
TMD-SO 074/12-13	TMD	PCBs	0.32	U	0.32	mg/kg
TMD-SO 074/13-14	TMD	PCBs	0.28	U	0.28	mg/kg
TMD-SO 075/1-2	TMD	PCBs	0.30	U	0.30	mg/kg
TMD-SO 075/2-3	TMD	PCBs	0.28	U	0.28	mg/kg
TMD-SO 075/5.5-6.5	TMD	PCBs	0.21	U	0.21	mg/kg
TMD-SO 075/10-11	TMD	PCBs	0.28	U	0.28	mg/kg
TMD-SO 075/11-11.5	TMD	PCBs	0.28	U	0.28	mg/kg
TMD-SO 075/11-11.5 R	TMD	PCBs	0.29	U	0.29	mg/kg
TMD-SO 075-12.5-13.5	TMD	PCBs	0.29	U	0.29	mg/kg
TMD-SO 077/2-2.5	A/I	PCBs	0.34	U	0.34	mg/kg
TMD-SO 077/3-4	A/I	PCBs	0.31	U	0.31	mg/kg
TMD-SO 077/3-4 R	A/I	PCBs	0.39	U	0.39	mg/kg
TMD-SO 077/6-7	A/I	PCBs	0.30	U	0.30	mg/kg
TMD-SO 077/7-8	A/I	PCBs	0.40	U	0.40	mg/kg
TMD-SO 077/8-9	A/I	PCBs	0.31	U	0.31	mg/kg
TMD-SO 078/1-2	TMD	PCBs	0.32	U	0.32	mg/kg
TMD-SO 078/2-3	TMD	PCBs	0.34	U	0.34	mg/kg
TMD-SO 078/6-7	TMD	PCBs	0.31	U	0.31	mg/kg
TMD-SO 078/6-7 R	TMD	PCBs	0.23	U	0.23	mg/kg
TMD-SO 078/10-11	TMD	PCBs	0.28	U	0.28	mg/kg

Notes:
A/I = Adjoining / Intersecting Corridor
TMD = Ten Mile Drain Corridor
Sample results reported in mg/kg (parts per million)
U - Not detected above reporting limit.
J - Analyte identified in sample, however, reported value is estimated.
* All PCB results reported were as PCB Aroclor 1248, with the exception of TMD - SO 070/14-15 which was reported as PCB Aroclor 1016 and TMD - SO 029/14.1-15, TMD - SO 056/12-13, TMD - SO 078/12-13 and TMD - SO 078/13-14 which were reported as PCB Aroclor 1242.

Table 1
PCB Soil Data

Sample Identificaiton	Investigtion Corridor	Analysis*	Result (mg/Kg)	Flags	Reporting Limits	Units
TMD-SO 078/12-13	TMD	PCBs	0.43		0.36	mg/kg
TMD-SO 078/13-14	TMD	PCBs	0.38		0.27	mg/kg
TMD-SO 079/7-8	TMD	PCBs	0.27	U	0.27	mg/kg
TMD-SO 080/7.5-8.5	TMD	PCBs	0.32	U	0.32	mg/kg
TMD-SO 081/1-2	TMD	PCBs	0.24	U	0.24	mg/kg
TMD-SO 081/2-3	TMD	PCBs	0.30	U	0.30	mg/kg
TMD-SO 081/6-7	TMD	PCBs	0.33	U	0.33	mg/kg
TMD-SO 081/10-11	TMD	PCBs	0.20	J	0.38	mg/kg
TMD-SO 081/14.2-14.8	TMD	PCBs	7.50		0.33	mg/kg
TMD-SO 081/14.8-15	TMD	PCBs	3,500.00		160.00	mg/kg
TMD-SO 082/1-2	TMD	PCBs	0.29	U	0.29	mg/kg
TMD-SO 082/2-3	TMD	PCBs	0.25	U	0.25	mg/kg
TMD-SO 082/6-6.5	TMD	PCBs	17.00		0.54	mg/kg
TMD-SO 082/12-13	TMD	PCBs	1.60		0.24	mg/kg
TMD-SO 082/13-14	TMD	PCBs	0.28	U	0.28	mg/kg
TMD-SO 082/17-18	TMD	PCBs	0.23	J	0.26	mg/kg
TMD-SO 083/1-2	TMD	PCBs	0.39	U	0.39	mg/kg
TMD-SO 083/1-2R	TMD	PCBs	0.33	U	0.33	mg/kg
TMD-SO 083/2-3	TMD	PCBs	0.27	U	0.27	mg/kg
TMD-SO 083/5-6	TMD	PCBs	0.31	J	0.32	mg/kg
TMD-SO 083/12-13	TMD	PCBs	0.19	U	0.19	mg/kg
TMD-SO 083/13-13.2	TMD	PCBs	0.34	U	0.34	mg/kg
TMD-SO 084/1-2	TMD	PCBs	0.24	J	0.34	mg/kg
TMD-SO 084/2-3	TMD	PCBs	0.27	U	0.27	mg/kg
TMD-SO 084/2-3R	TMD	PCBs	0.31	U	0.31	mg/kg
TMD-SO 084/5-7	TMD	PCBs	0.22	U	0.22	mg/kg
TMD-SO 084/10-11	TMD	PCBs	0.25	U	0.25	mg/kg
TMD-SO 084/11-12	TMD	PCBs	0.55		0.31	mg/kg
TMD-SO 084/12-13	TMD	PCBs	0.31	U	0.31	mg/kg
TMD-SO 086/1-2	A/I	PCBs	0.36	U	0.36	mg/kg
TMD-SO 086/2-3	A/I	PCBs	0.29	U	0.29	mg/kg
TMD-SO 086/6-7	A/I	PCBs	0.39	U	0.39	mg/kg
TMD-SO 086/10-11	A/I	PCBs	0.16	J	0.29	mg/kg
TMD-SO 086/11-12	A/I	PCBs	0.38	U	0.38	mg/kg
TMD-SO 088/5.5-6	A/I	PCBs	0.35	U	0.35	mg/kg

Notes:
A/I = Adjoining / Intersecting Corridor
TMD = Ten Mile Drain Corridor
Sample results reported in mg/kg (parts per million)
U - Not detected above reporting limit.
J - Analyte identified in sample, however, reported value is estimated.
* All PCB results reported were as PCB Aroclor 1248, with the exception of TMD - SO 070/14-15 which was reported as PCB Aroclor 1016 and TMD - SO 029/14.1-15, TMD - SO 056/12-13, TMD - SO 078/12-13 and TMD - SO 078/13-14 which were reported as PCB Aroclor 1242.

Table 1
PCB Soil Data

Sample Identificaiton	Investigtion Corridor	Analysis*	Result (mg/Kg)	Flags	Reporting Limits	Units
TMD-SO 089/2-3	A/I	PCBs	0.29	U	0.29	mg/kg
TMD-SO 089/7-8	A/I	PCBs	0.42	U	0.42	mg/kg
TMD-SO 090/1-2	TMD	PCBs	1.20		0.30	mg/kg
TMD-SO 090/2-3	TMD	PCBs	0.32	U	0.32	mg/kg
TMD-SO 090/6-7	TMD	PCBs	0.27	U	0.27	mg/kg
TMD-SO 090/6-7DUP	TMD	PCBs	0.27	U	0.27	mg/kg
TMD-SO 090/15-16	TMD	PCBs	0.35	U	0.35	mg/kg
TMD-SO 092/4-5	TMD	PCBs	0.22	U	0.22	mg/kg
TMD-SO 092/5-6	TMD	PCBs	0.24	U	0.24	mg/kg
TMD-SO 092/10-11	TMD	PCBs	0.23	U	0.23	mg/kg
TMD-SO 092/11-12	TMD	PCBs	0.25	U	0.25	mg/kg
TMD-SO 093/1-2	TMD	PCBs	0.31	U	0.31	mg/kg
TMD-SO 093/2-3	TMD	PCBs	0.28	U	0.28	mg/kg
TMD-SO 093/6-7	TMD	PCBs	0.30	U	0.30	mg/kg
TMD-SO 093/13.5-14	TMD	PCBs	0.17	U	0.17	mg/kg
TMD-SO 093/13.5-14R	TMD	PCBs	0.23	U	0.23	mg/kg
TMD-SO 093/14.5-15	TMD	PCBs	0.27	U	0.27	mg/kg
TMD-SO 094/1-2	TMD	PCBs	0.31	U	0.31	mg/kg
TMD-SO 094/2-3	TMD	PCBs	0.33	U	0.33	mg/kg
TMD-SO 094/5-6	TMD	PCBs	0.32	U	0.32	mg/kg
TMD-SO 094/12-13	TMD	PCBs	0.25	U	0.25	mg/kg
TMD-SO 094/14.5-15	TMD	PCBs	0.31	U	0.31	mg/kg

Notes:
A/I = Adjoining / Intersecting Corridor
TMD = Ten Mile Drain Corridor
Sample results reported in mg/kg (parts per million)
U - Not detected above reporting limit.
J - Analyte identified in sample, however, reported value is estimated.
* All PCB results reported were as PCB Aroclor 1248, with the exception of TMD - SO 070/14-15 which was reported as PCB Aroclor 1016 and TMD - SO 029/14.1-15, TMD - SO 056/12-13, TMD - SO 078/12-13 and TMD - SO 078/13-14 which were reported as PCB Aroclor 1242.

TABLE 2
PCB Water Data

Sample Identificaiton	Investigation Corridor	Analysis	Result (µg/L)	Flags	Reporting Limits	Units
TMD-GW 006/5	A/I	PCBs	5	U	5	ug/L
TMD-GW 008/5	A/I	PCBs	5	U	5	ug/L
TMD-GW 010/6	A/I	PCBs	5	U	5	ug/L
TMD-GW 011/2	A/I	PCBs	5	U	5	ug/L
TMD-GW 012/5	A/I	PCBs	5	U	5	ug/L
TMD-GW 013/3	A/I	PCBs	5	U	5	ug/L
TMD-GW 014/3	A/I	PCBs	5	U	5	ug/L
TMD-GW 015/7	TMD	PCBs	5	U	5	ug/L
TMD-GW 017/7	A/I	PCBs	5	U	5	ug/L
TMD-GW 023/9	TMD	PCBs	5	U	5	µg/L
TMD-GW 024/5	TMD	PCBs	20		5	µg/L
TMD-EB 001	TMD	PCBs	4.5		5	µg/L
TMD-GW 027/10	TMD	PCBs	1300		100	µg/L
TMD-GW 029/5	TMD	PCBs	2700		200	µg/L
TMD-GW 030/8	TMD	PCBs	90		5	µg/L
TMD-GW 032/8	TMD	PCBs	87		5	µg/L
TMD-GW 035/7	TMD	PCBs	45		5	µg/L
TMD-GW 036/7	TMD	PCBs	2.8	J	5	µg/L
TMD-GW 037/7	TMD	PCBs	960		50	µg/L
TMD-GW 038/7	TMD	PCBs	5	U	5	µg/L
TMD-GW 039/2	TMD	PCBs	5	U	5	µg/L
TMD-GW 040/7	TMD	PCBs	4.8	J	5	µg/L
TMD-GW 042/9	TMD	PCBs	5	U	5	µg/L
TMD-GW 043/8	TMD	PCBs	5	U	5	µg/L
TMD-GW 063/MH	TMD	PCBs	5	U	5	µg/L
TMD-GW 065/5	TMD	PCBs	5	U	5	µg/L
TMD-GW 076/MH	TMD	PCBs	5	U	5	µg/L
TMD-GW 078/6	TMD	PCBs	17000		500	µg/L
TMD-GW 081/10	TMD	PCBs	230		5	µg/L
TMD-GW 082/15	TMD	PCBs	120		5	µg/L
TMD-GW 084/9	TMD	PCBs	5.4		5	µg/L
TMD-GW 091/MH	TMD	PCBs	40		5	µg/L
TMD-GW 090/5	TMD	PCBs	6.2		5	µg/L
TMD-GW 092/5	TMD	PCBs	5	U	5	µg/L
TMD-GW 093/5	TMD	PCBs	5	U	5	µg/L
TMD-GW 094/6	TMD	PCBs	22		5	µg/L

Notes:
Sample results reported in µg/L (parts per billion)
U - Not detected above reporting limit.
J - Analyte identified in sample, however, reported value is estimated.

Figures

FIGURE 1
Site Location Map
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL

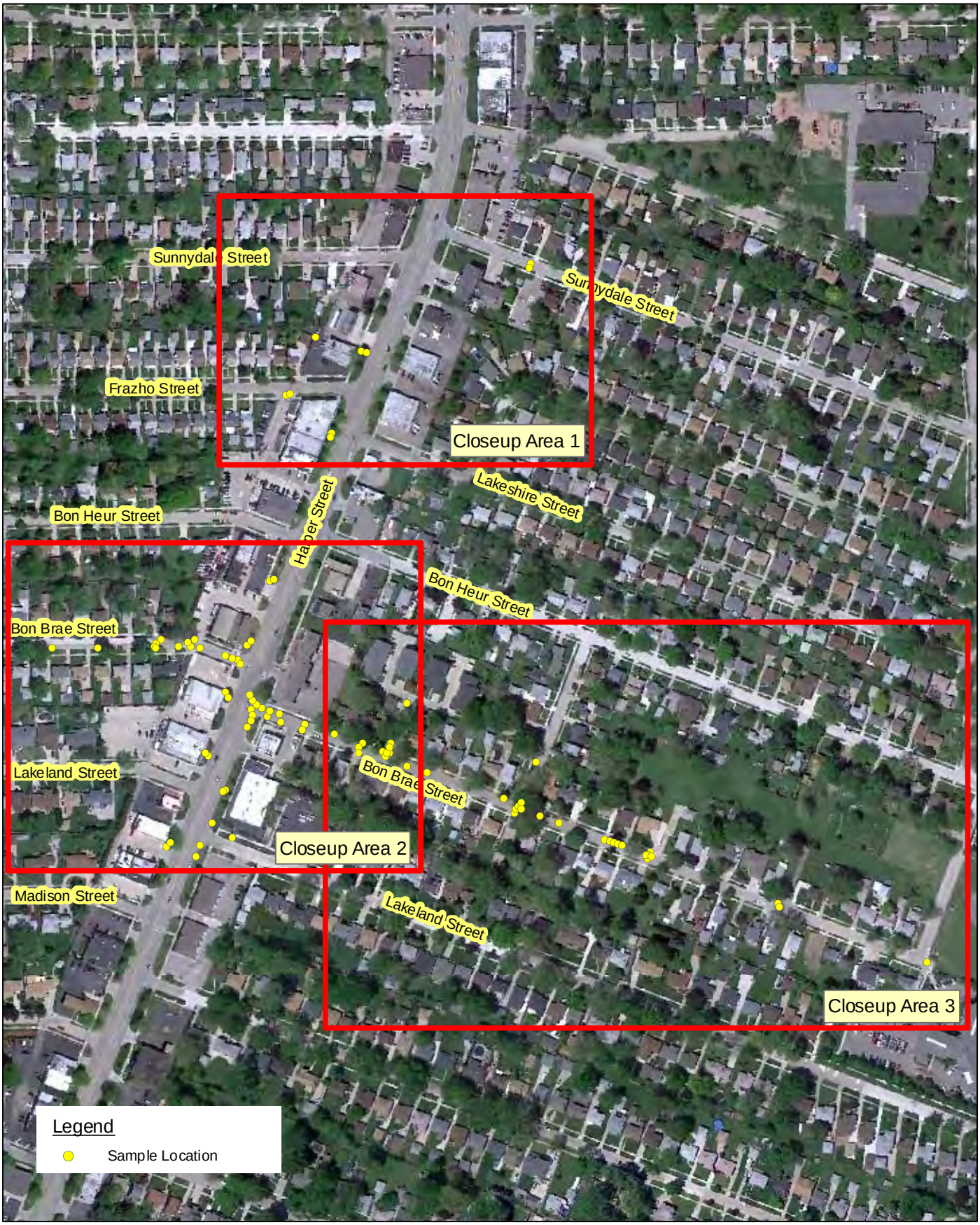


FIGURE 2
Soil Boring Locations
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL

N

0 50 100

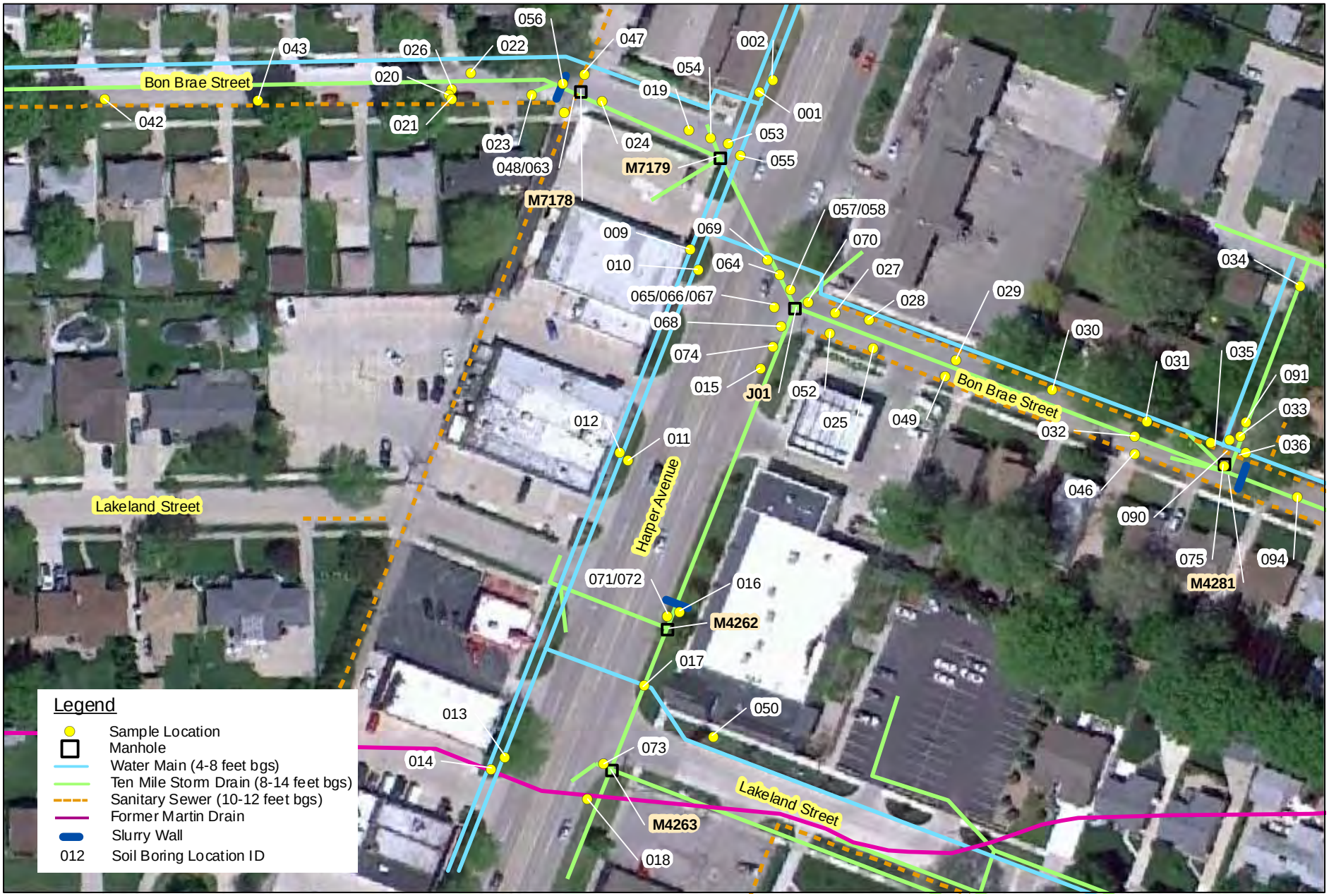
Approximate scale in feet

Note:

1. Imagery Date - May 9, 2010
2. bgs = below ground surface

FIGURE 3
Sample Locations Closeup Area 1
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL



N

0 50 100

Approximate scale in feet

Note:

1. Imagery Date - May 9, 2010
2. bgs = below ground surface

FIGURE 4
Sample Locations Closeup Area 2
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL

Note:

1. Imagery Date - May 9, 2010
2. bgs = below ground surface

FIGURE 5
Sample Locations Closeup Area 3
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

Note:

1. Imagery Date - May 9, 2010
2. bgs = below ground surface

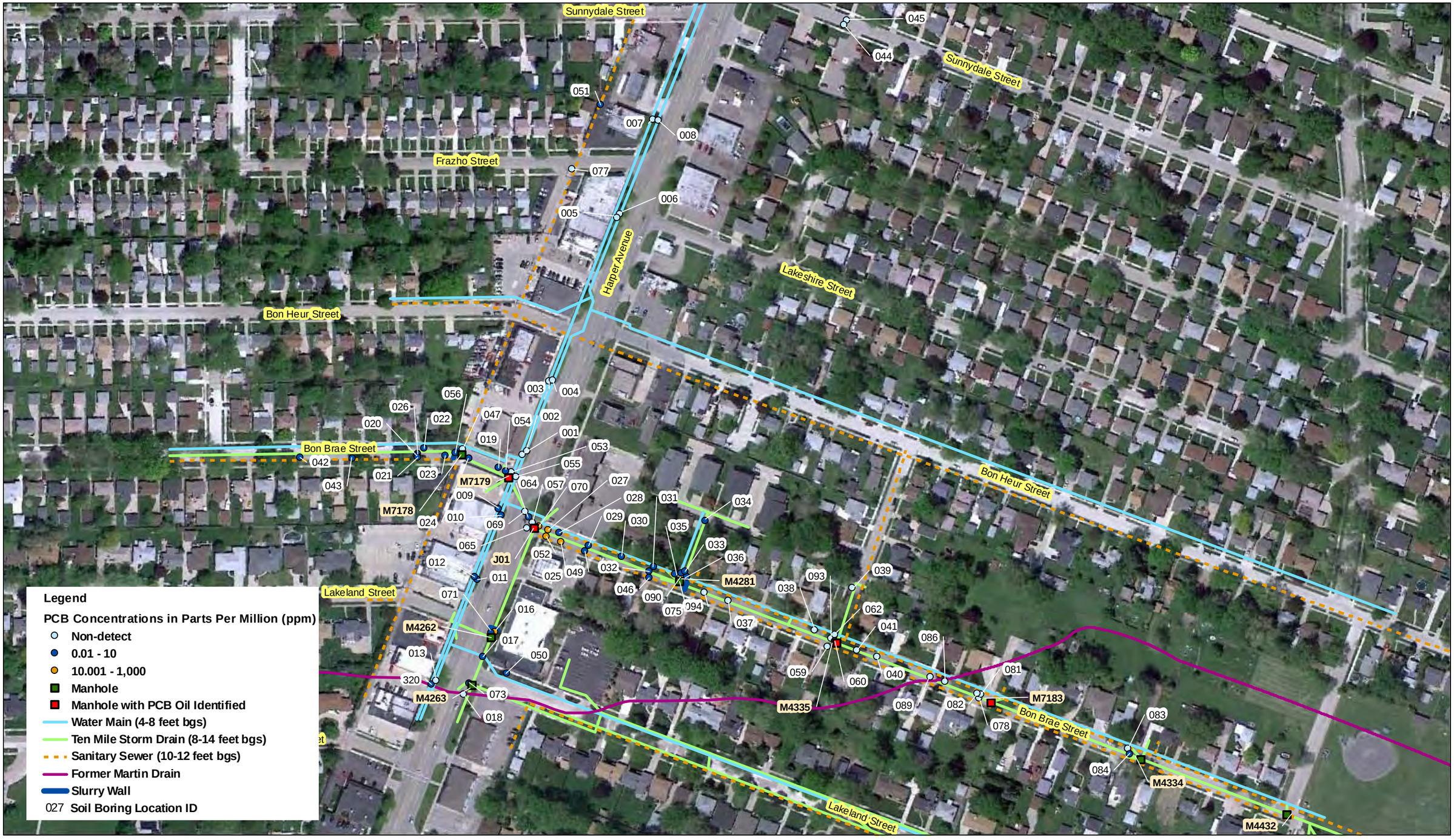
N

0 80 160

Approximate scale in feet

FIGURE 6
Water Sample Locations
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL



N

0 95 190

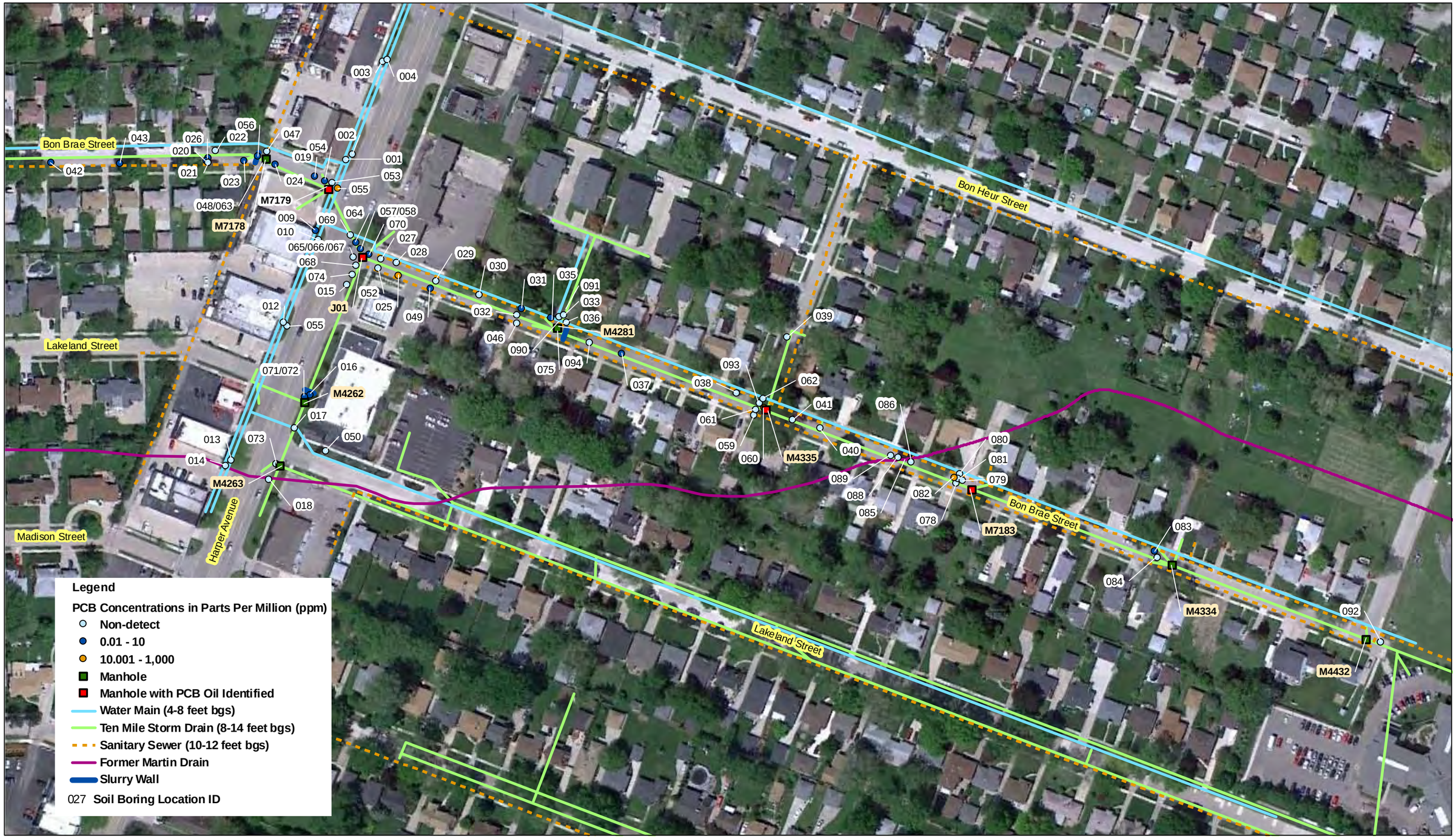
Approximate scale in feet

Note:

1. Imagery Date - May 9, 2010
2. bgs = below ground surface

FIGURE 7
0 - 3' Soil Concentrations
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL



Legend

PCB Concentrations in Parts Per Million (ppm)

- Non-detect
- 0.01 - 10
- 10.001 - 1,000
- Manhole
- Manhole with PCB Oil Identified
- Water Main (4-8 feet bgs)
- Ten Mile Storm Drain (8-14 feet bgs)
- Sanitary Sewer (10-12 feet bgs)
- Former Martin Drain
- Slurry Wall
- 027 Soil Boring Location ID

N

0 50 100

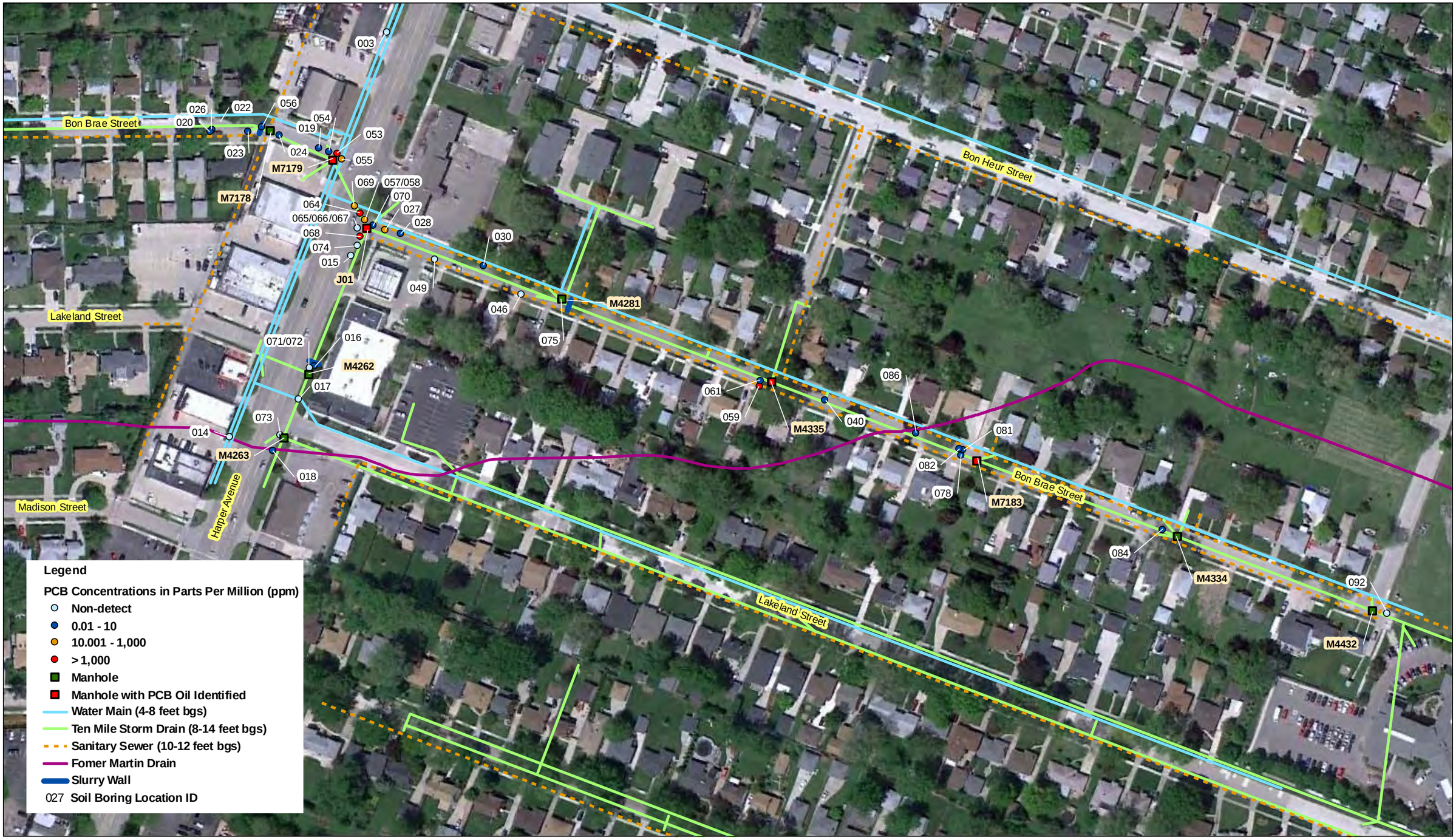
Approximate scale in feet

Note:

1. Imagery Date - May 9, 2010
2. bgs = below ground surface

FIGURE 8
3 - 10' Soil Concentrations
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL



N

0 50 100

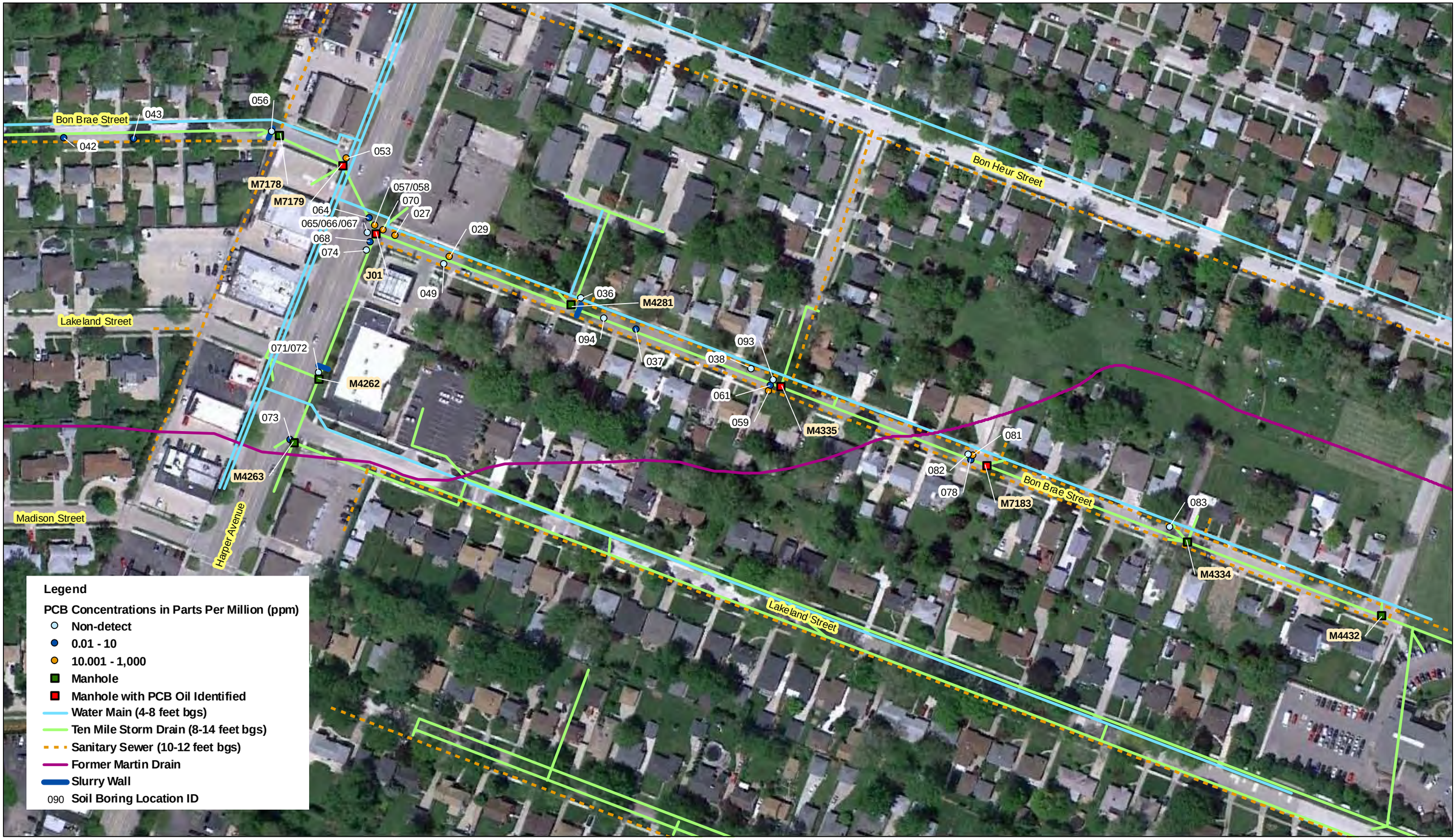
Approximate scale in feet

Note:

1. Imagery Date - May 9, 2010
2. bgs = below ground surface

FIGURE 9
10 - 13' Soil Concentrations
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL



N

0 50 100

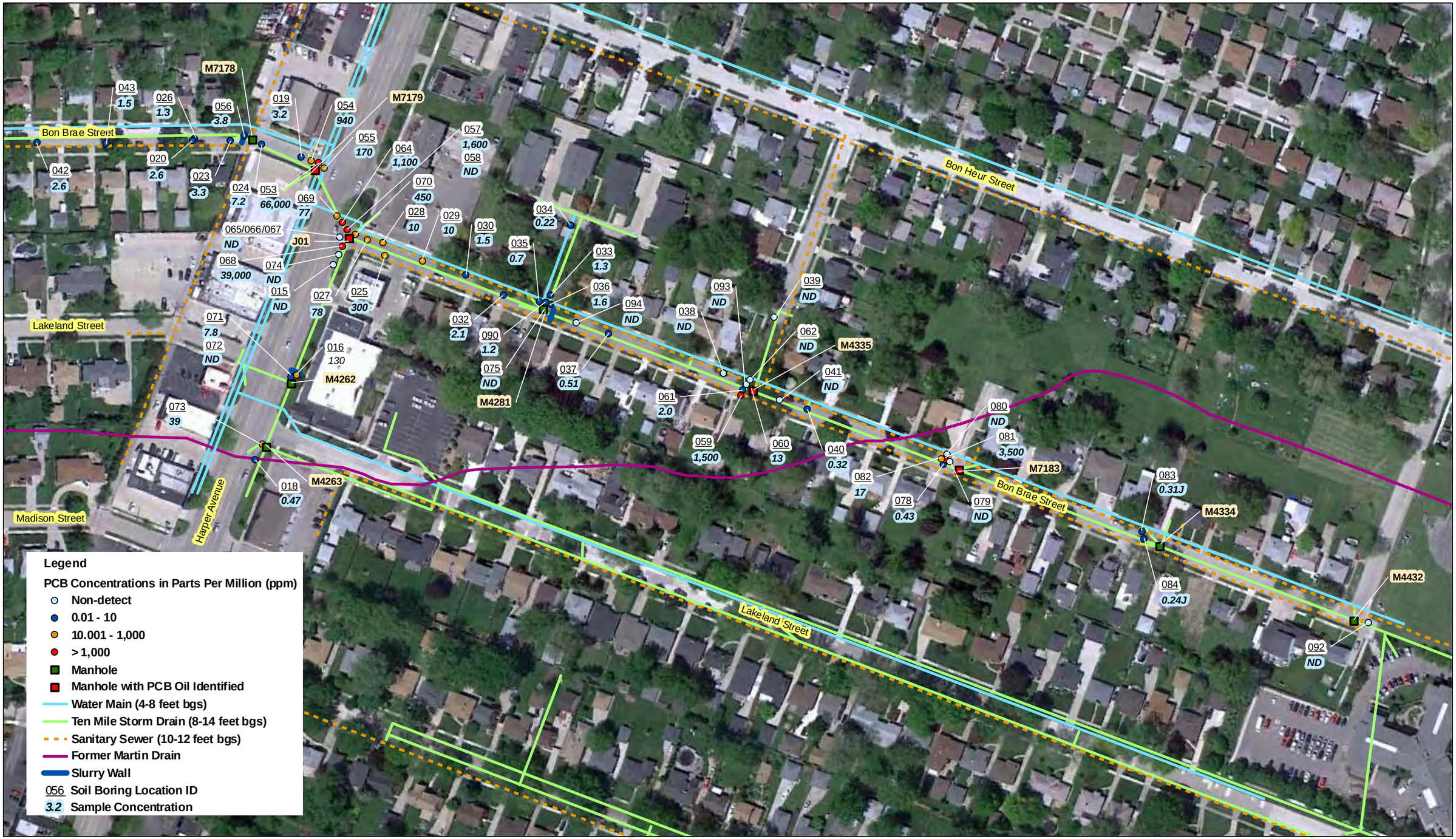
Approximate scale in feet

Note:

1. Imagery Date - May 9, 2010
2. bgs = below ground surface

FIGURE 10
13 - 15' Soil Concentrations
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL



N

0 75 150

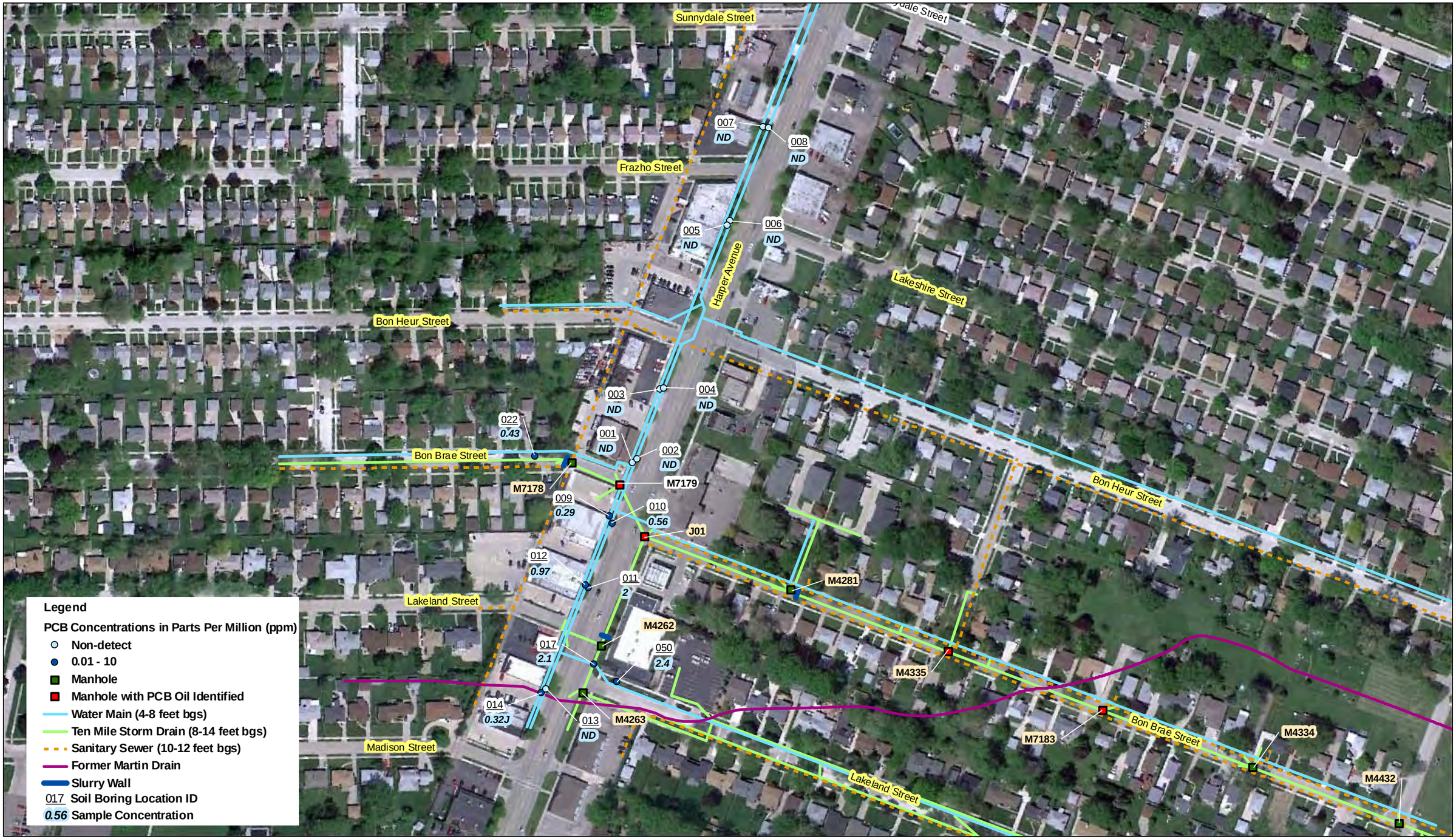
Approximate scale in feet

Note:

1. Sample concentration equals greatest part per million (ppm) concentration per location
2. Imagery Date - May 9, 2010
3. bgs = below ground surface

FIGURE 11
Soil Borings: Highest PCB Concentrations - Ten Mile Drain Utility Corridor
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL



N

0 62.5 125

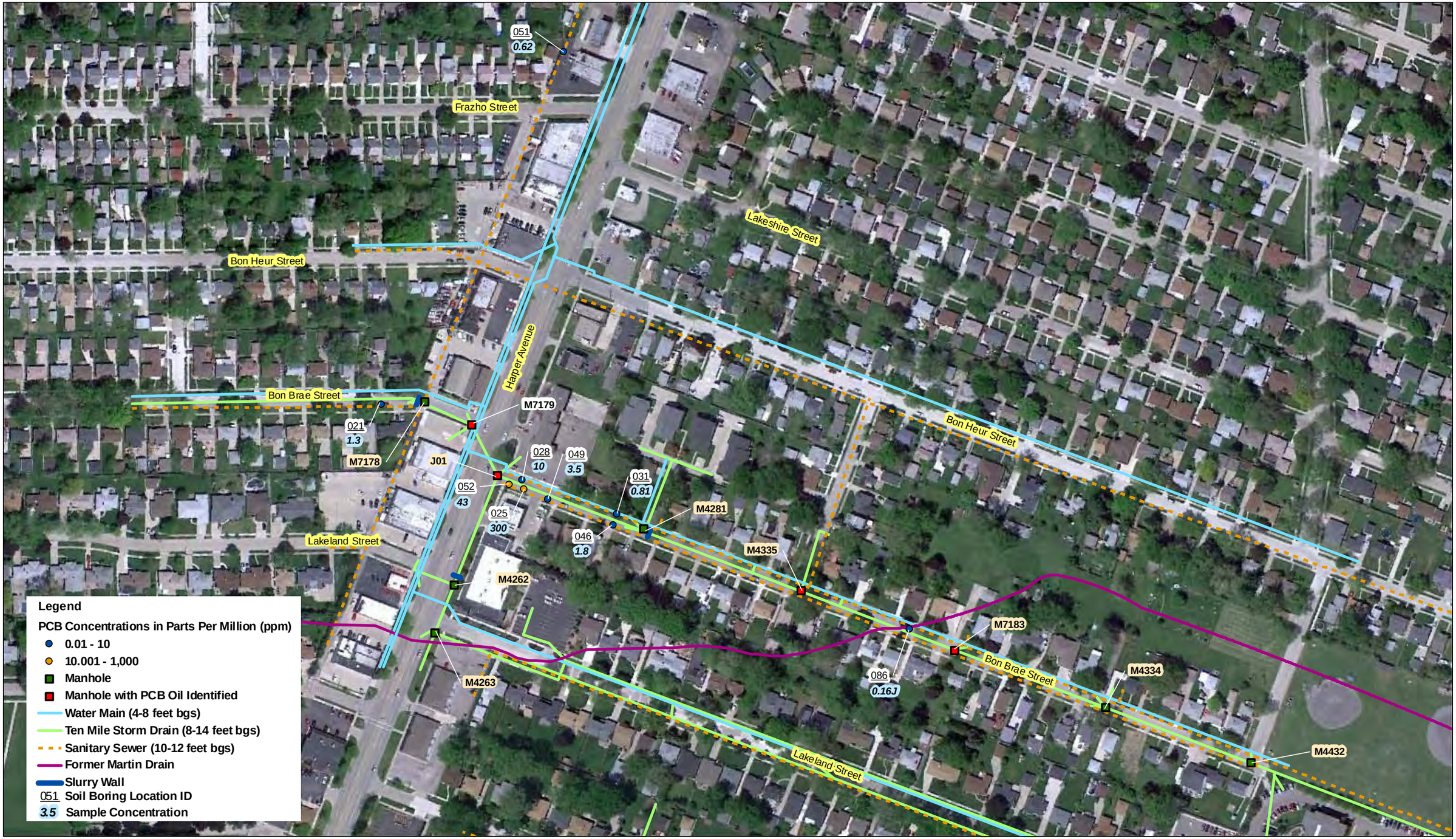
Approximate scale in feet

Note:

1. Sample concentration equals greatest part per million (ppm) concentration per location
2. Imagery Date - May 9, 2010
3. bgs = below ground surface

FIGURE 12
Soil Borings: Highest PCB Concentrations - Water Utility Corridor
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL



N

0 70 140

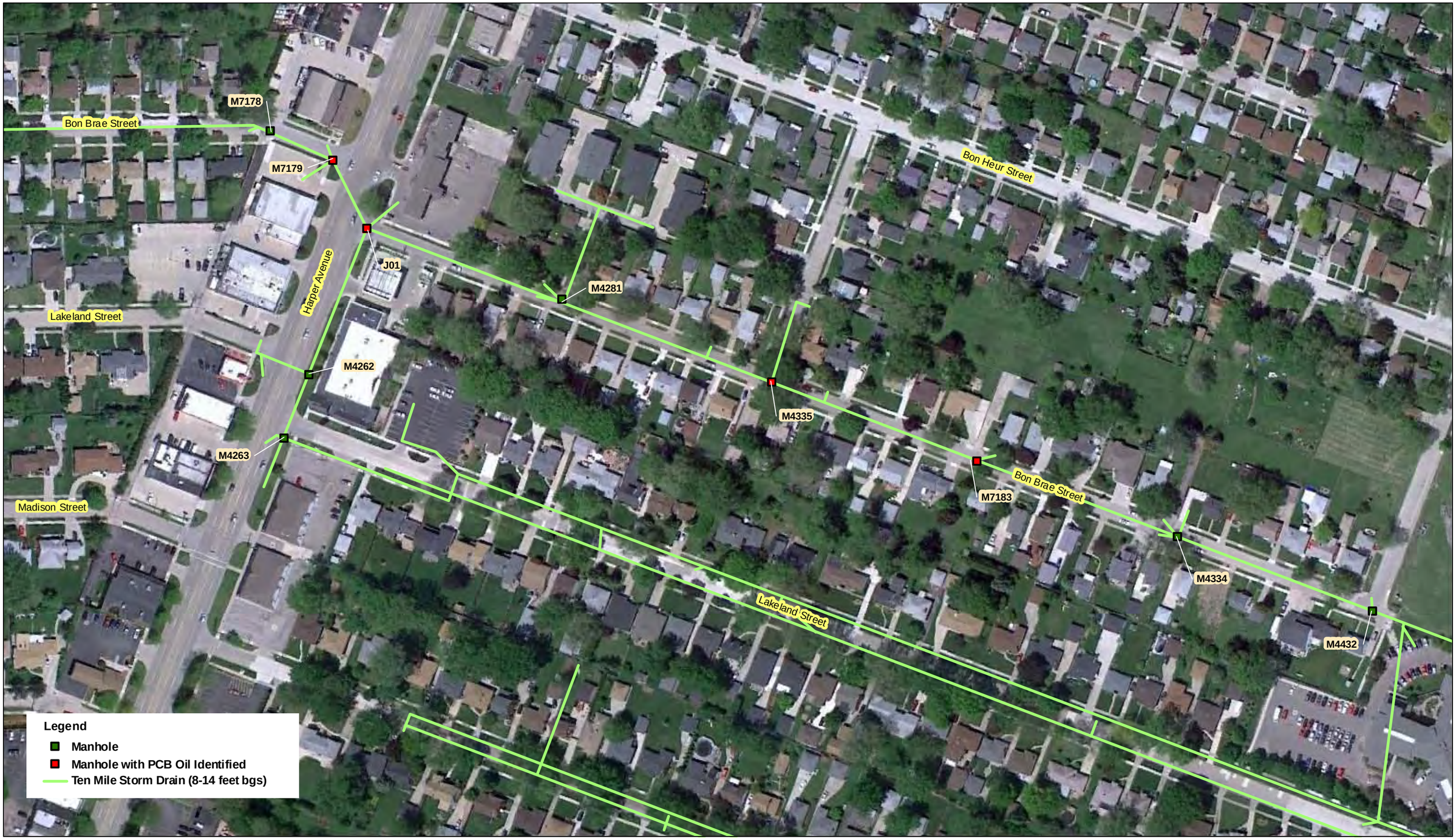
Approximate scale in feet

Note:

1. Sample concentration equals greatest part per million (ppm) concentration per location
2. Imagery Date - May 9, 2010
3. bgs = below ground surface

FIGURE 13
Soil Borings: Highest PCB Concentrations - Sanitary Sewer Corridor
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL



N

0 55 110

Approximate scale in feet

Note:

1. Imagery Date - May 9, 2010
2. bgs = below ground surface

FIGURE 14
Manhole Vault Locations
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL

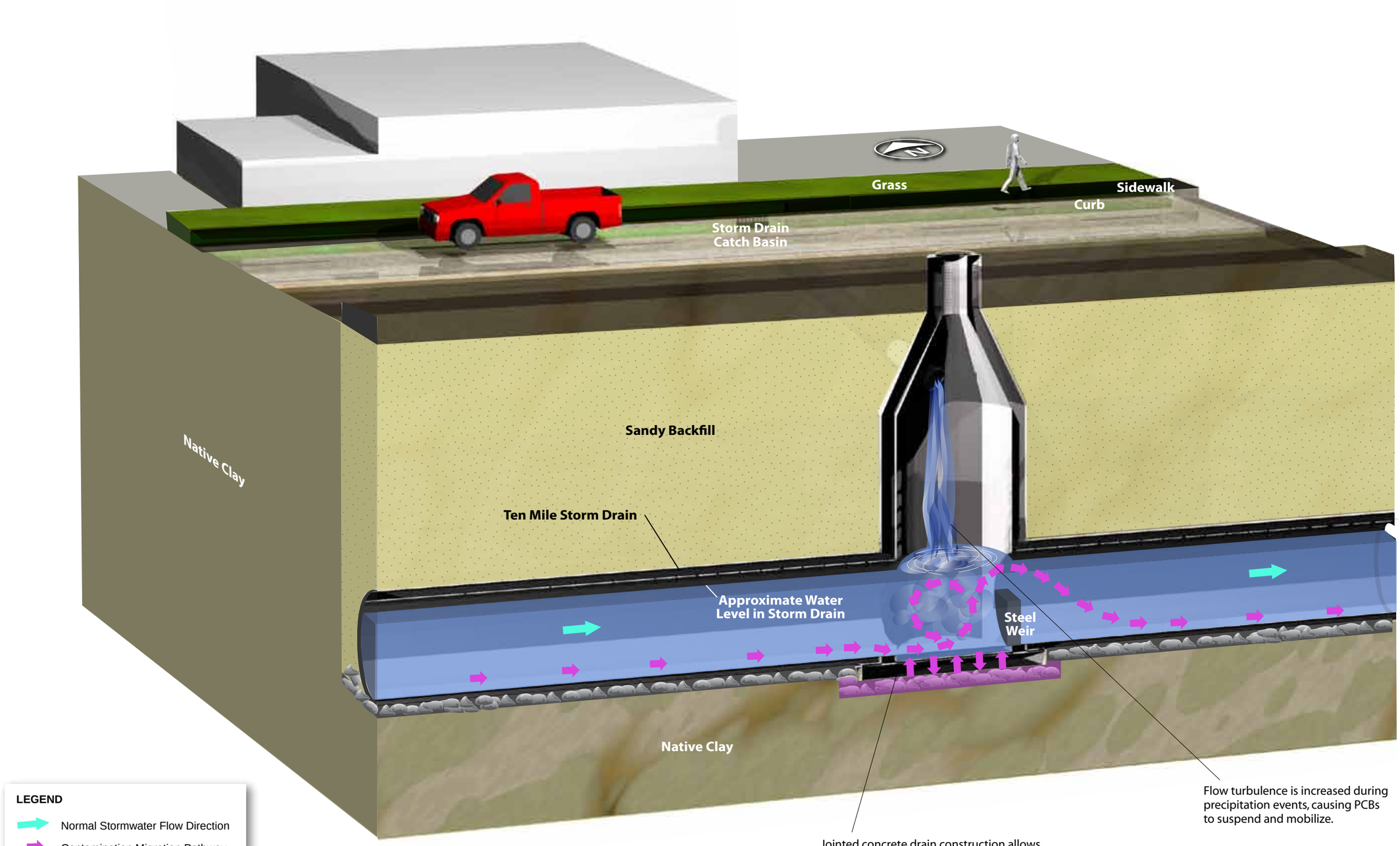
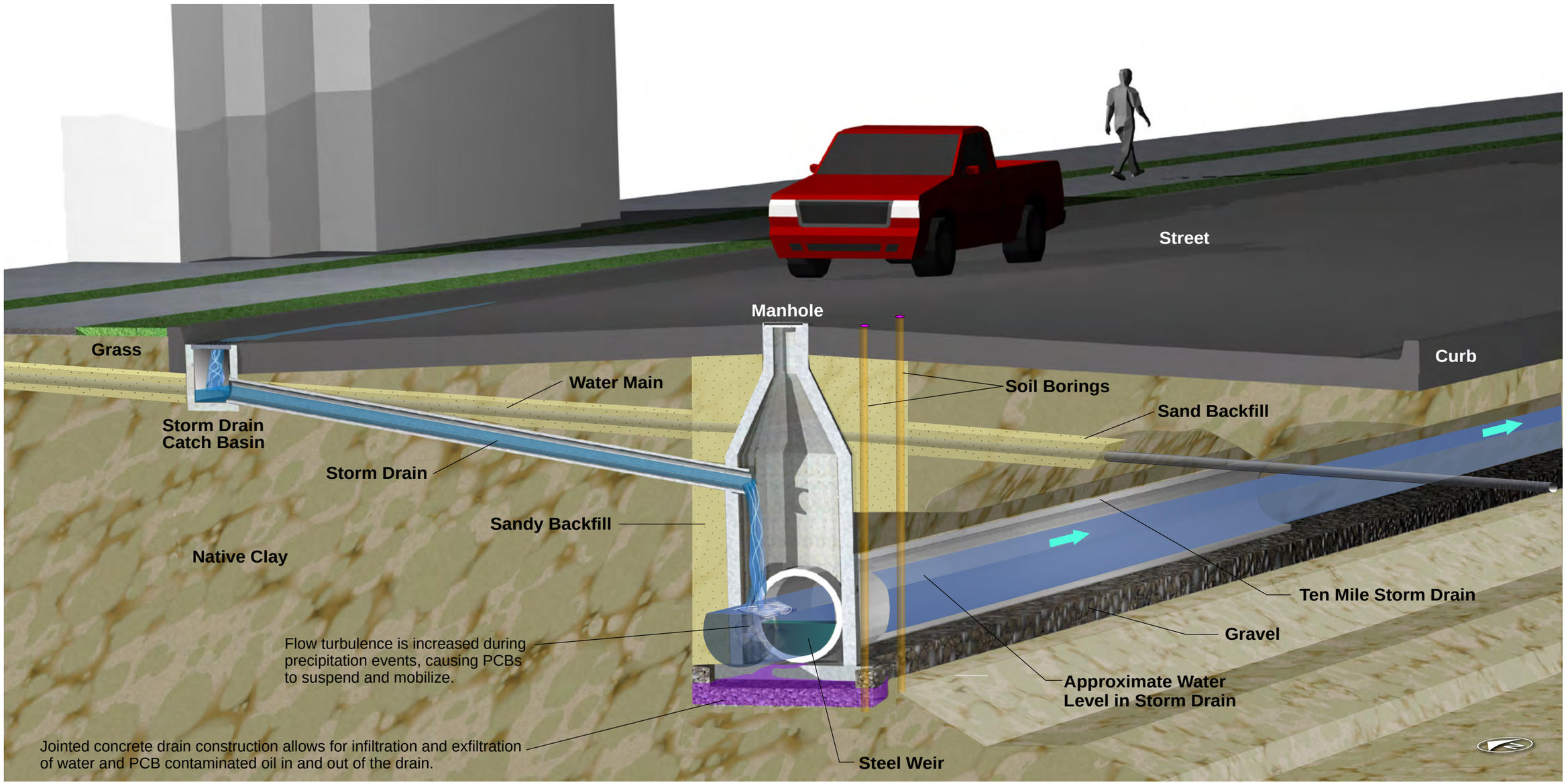


FIGURE 15—PCB Migration Model
Ten-Mile Drain Site
St. Clair Shores, Michigan

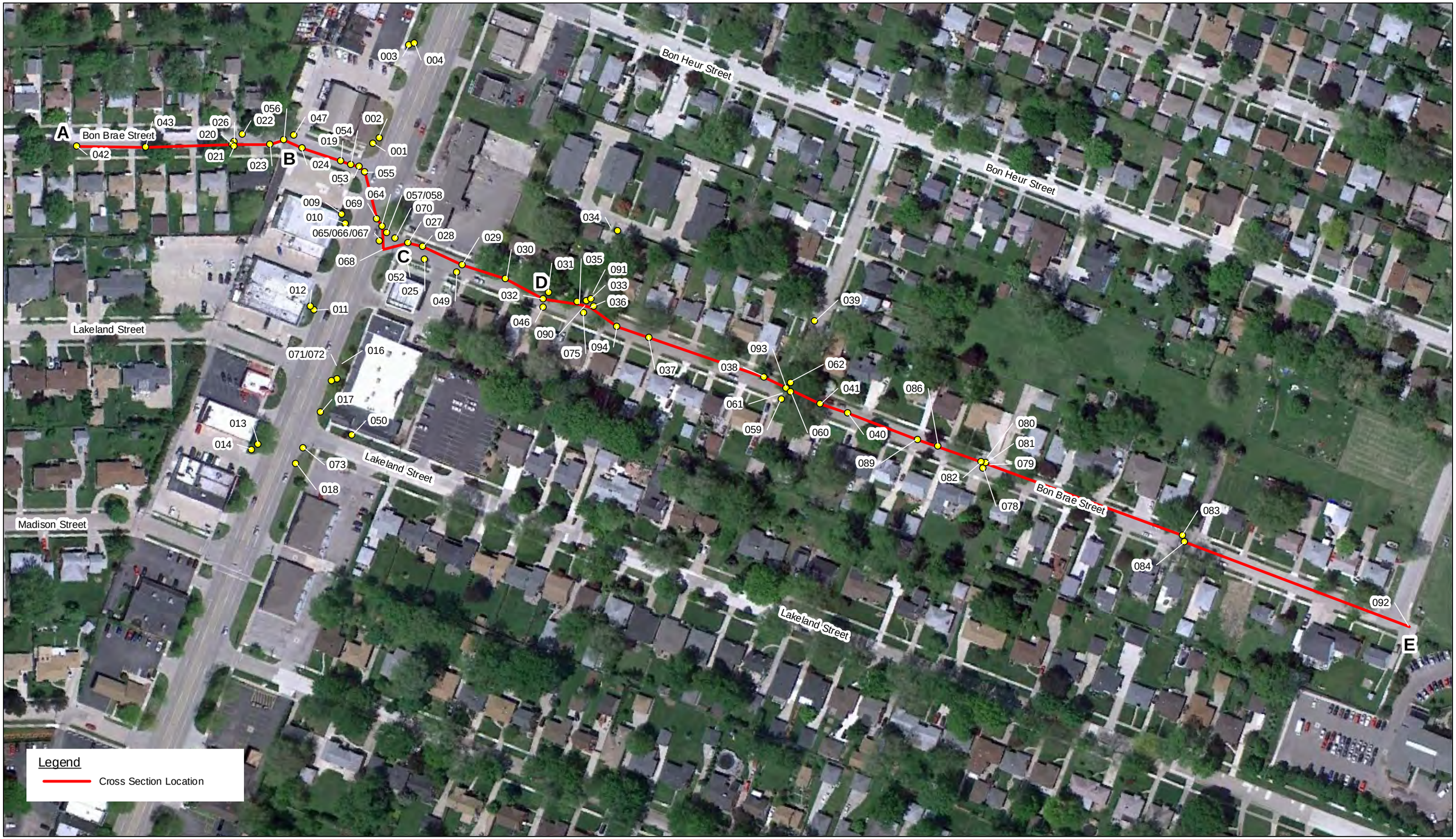


LEGEND

- Normal Stormwater Flow Direction
- PCB Contaminated Gravel Backfill
- Gravel Backfill

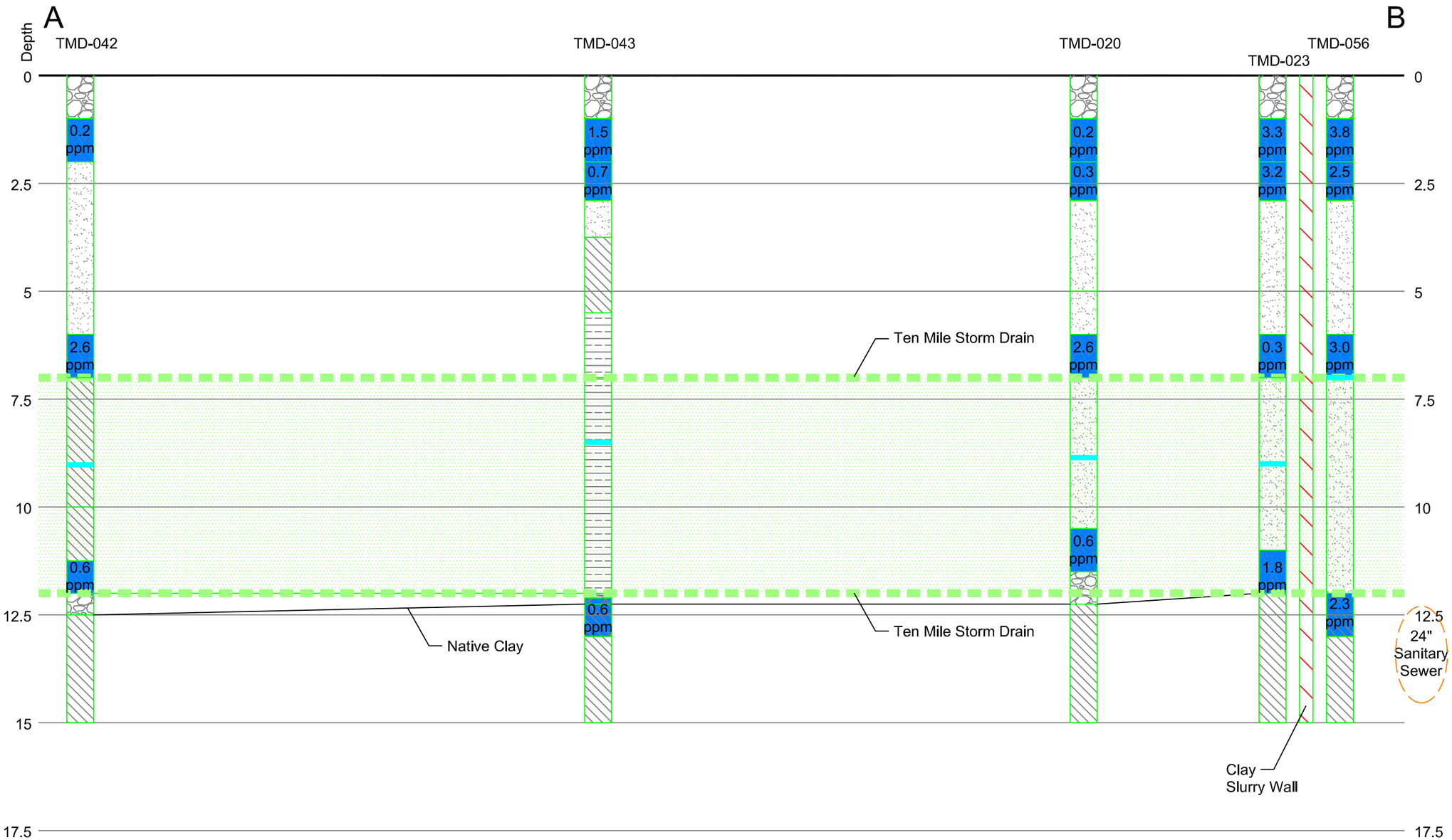
FIGURE 16—PCB Migration Model
Ten-Mile Drain Site
St. Clair Shores, Michigan

Appendix A
Cross-Sections



Cross Section Surface Expression
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL



Bon Brae Street Cross-Section 1
Ten Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL

B

C

Depth

TMD-024 | TMD-019 | TMD-053 | TMD-054 | TMD-055 | Harper Avenue | TMD-064 | TMD-069 | TMD-068 | TMD-027

0 | 2.5 | 5 | 7.5 | 10 | 12.5 | 15 | 17.5

7.2 ppm
2.6 ppm
0.8 ppm
0.5 ppm
1 ppm
3.2 ppm
0.3 ppm
1.3 ppm
2.2 ppm
0.9 ppm
1.1 ppm
1.8 ppm
940 ppm
6.2 ppm
66,000 ppm
22,000 ppm
39 ppm
170 ppm
0.2 ppm
33 ppm
77 ppm
0.2 ppm
1.1 ppm
5.9 ppm
290 ppm
1,100 ppm
3.2 ppm
39,000 ppm
27,000 ppm
47 ppm
3.7 ppm
8.7 ppm
7.5 ppm
9.0 ppm

12" Water Main
24" Water Main
Ten Mile Storm Drain
Ten Mile Storm Drain
24" Sanitary Sewer
Native Clay
Manhole Structure
Manhole Structure

Legend

- Gravel
- Sand
- Clay
- Sand w/Fines
- Sample Depth and PCB Concentration
- Water Level
- TMD-029 Boring Location ID

Note:

1. 1.5 ppm = 1.5 parts per million PCBs by weight
2. Cross-Sections do not account for change in surface elevation.
3. Only Detections of PCBs are shown.

Horizontal Scale: 1" = 20 Feet

Bon Brae Street Cross-Section 2
Ten Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL

C

D

Depth

TMD-027 TMD-028 TMD-029 TMD-030 TMD-032

0
2.5
5
7.5
10
12.5
15
17.5

37 ppm
8.7 ppm
78 ppm
9.0 ppm
10 ppm
0.3 ppm
0.3 ppm
5.4 ppm
0.2 ppm
2.0 ppm
1.5 ppm
2.1 ppm

Ten Mile Storm Drain

Native Clay

Ten Mile Storm Drain

Legend

- Gravel
- Sand
- Clay
- Sand w/Fines
- Sample Depth and PCB Concentration
- Water Level
- TMD-029 Boring Location ID

Note:

1. 1.5 ppm = 1.5 parts per million PCBs by weight
2. Cross-Sections do not account for change in surface elevation.
3. Only Detections of PCBs are shown.

Horizontal Scale: 1" = 20 Feet

Bon Brae Street Cross-Section 3
Ten Mile Drain Source Area Investigation
Saint Clair Shores, Michigan
CH2MHILL

D

E

Depth

TMD-032 TMD-035 TMD-090 TMD-094 TMD-037 TMD-061 TMD-059 TMD-060 TMD-081 TMD-083 TMD-084 TMD-092

0 2.5 5 7.5 10 12.5 15 17.5 20

2.1 ppm
0.6 ppm
0.2 ppm
0.7 ppm
1.2 ppm
0.5 ppm
0.2 ppm
1,500 ppm
19 ppm
0.2 ppm
13 ppm
0.2 ppm
7.5 ppm
3,500 ppm
0.3 ppm
0.2 ppm
0.5 ppm

Ten Mile Storm Drain

Ten Mile Storm Drain

Native Clay

Manhole Structure

Manhole Structure

Manhole Structure

Manhole Structure

Manhole Structure

Legend

Gravel
Sand
Clay
Sand w/Fines

Sample Depth and PCB Concentration
Water Level
TMD-029 Boring Location ID

Note:

1. 1.5 ppm = 1.5 parts per million PCBs by weight
2. Cross-Sections do not account for change in surface elevation.
3. Only Detections of PCBs are shown.

Horizontal Scale: 1" = 20 Feet

Bon Brae Street Cross-Section 4
Ten Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL

Appendix B
PCB Analytical Data

Site Name: 10 Mile Drain
TDF# 5-214-012
Date Issued: 04/13/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.3.14.02.03.B5BE.000.012
Report Title: StClair 1-1

NARRATIVE

Fifteen (15) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following fifteen (15) samples are included in this narrative:

11CD01	11CD02	11CD03	11CD04
11CD05	11CD06	11CD07	11CD08
11CD09	11CD10	11CD11	11CD12
11CD13	11CD14	11CD15	

PCBs Analysis

Sample Collection and Analysis

The samples were collected on April 11, 2011 and were analyzed on April 12, 2011 within the required hold times for PCBs.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 12, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110411001Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R for soils.

Sample TMD-SO 003/5-6 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 4/13/11

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110411-001
Samples Received: 04/11/2011

11ML0119 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 001/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	21			MLDE110411001	4/13/2011 10:19:00 AM	TES
PCBs	Decachlorobiphenyl %R	105			MLDE110411001	4/13/2011 10:19:00 AM	TES
PCBs	PCB-1016	0.0	U	290.0	MLDE110411001	4/13/2011 10:19:00 AM	TES
PCBs	PCB-1232	0.0	U	290.0	MLDE110411001	4/13/2011 10:19:00 AM	TES
PCBs	PCB-1242	0.0	U	290.0	MLDE110411001	4/13/2011 10:19:00 AM	TES
PCBs	PCB-1248	0.0	U	290.0	MLDE110411001	4/13/2011 10:19:00 AM	SA
PCBs	PCB-1254	0.0	U	290.0	MLDE110411001	4/13/2011 10:19:00 AM	TES
PCBs	PCB-1260	0.0	U	290.0	MLDE110411001	4/13/2011 10:19:00 AM	TES
PCBs	Tetrachloro-m-xylene	25			MLDE110411001	4/13/2011 10:19:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	126			MLDE110411001	4/13/2011 10:19:00 AM	TES

11ML0120 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 001/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	90			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Decachlorobiphenyl %R	90.4			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1016	0.0	U	220.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1232	0.0	U	220.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1242	0.0	U	220.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1248	0.0	U	220.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1254	0.0	U	220.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1260	0.0	U	220.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene	100			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	102			MLDE110411001	4/13/2011 10:06:00 AM	TES

11ML0121 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 001/4-5**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Decachlorobiphenyl %R	103			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1016	0.0	U	330.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1232	0.0	U	330.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1242	0.0	U	330.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1248	0.0	U	330.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1254	0.0	U	330.0	MLDE110411001	4/13/2011 10:06:00 AM	CR
PCBs	PCB-1260	0.0	U	330.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene	100			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	104			MLDE110411001	4/13/2011 10:06:00 AM	TES

11ML0122 Collection Date 04/11/2011 Sampled By:

Sample Description: TMD-SO 001/6-7

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Decachlorobiphenyl %R	101			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1016	0.0	U	230.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1232	0.0	U	230.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1242	0.0	U	230.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1248	0.0	U	230.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1254	0.0	U	230.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1260	0.0	U	230.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	114			MLDE110411001	4/13/2011 10:06:00 AM	TES

11ML0123 Collection Date 04/11/2011 Sampled By:

Sample Description: TMD-S0 001/7-8

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Decachlorobiphenyl %R	104			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1016	0.0	U	280.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1232	0.0	U	280.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1242	0.0	U	280.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1248	0.0	U	280.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1254	0.0	U	280.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1260	0.0	U	280.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene	120			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	121			MLDE110411001	4/13/2011 10:06:00 AM	TES

11ML0124 Collection Date 04/11/2011 Sampled By:

Sample Description: TMD-SO 002/0-1

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	97			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Decachlorobiphenyl %R	97.0			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1232	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1248	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1254	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene	120			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	123			MLDE110411001	4/13/2011 10:06:00 AM	TES

11ML0125 Collection Date 04/11/2011 Sampled By:

Sample Description: TMD-SO 002/2-3

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	79			MLDE110411001	4/13/2011 10:06:00 AM	TES

11ML0125 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 002/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	79.1			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1232	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1248	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1254	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene	130			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	127			MLDE110411001	4/13/2011 10:06:00 AM	TES

11ML0126 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 002/5-6**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	78			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Decachlorobiphenyl %R	78.2			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1016	0.0	U	220.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1232	0.0	U	220.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1242	0.0	U	220.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1248	0.0	U	220.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1254	0.0	U	220.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1260	0.0	U	220.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	114			MLDE110411001	4/13/2011 10:06:00 AM	TES

11ML0127 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 002/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	79			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Decachlorobiphenyl %R	78.6			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1232	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1248	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1254	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene	120			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	115			MLDE110411001	4/13/2011 10:06:00 AM	TES

11ML0128 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 003/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	93			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Decachlorobiphenyl %R	92.6			MLDE110411001	4/13/2011 10:06:00 AM	TES

11ML0128 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 003/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1016	0.0	U	280.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1232	0.0	U	280.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1242	0.0	U	280.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1248	0.0	U	280.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1254	0.0	U	280.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1260	0.0	U	280.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	114			MLDE110411001	4/13/2011 10:06:00 AM	TES

11ML0129 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 003/10-11.3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Decachlorobiphenyl %R	102			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1016	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1232	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1242	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1248	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1254	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1260	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	114			MLDE110411001	4/13/2011 10:06:00 AM	TES

11ML0130 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 003/11.3-12**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Decachlorobiphenyl %R	104			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1016	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1232	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1242	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1248	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1254	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1260	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene	130			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	126			MLDE110411001	4/13/2011 10:06:00 AM	TES

11ML0131 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 003/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	98			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Decachlorobiphenyl %R	98.4			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDE110411001	4/13/2011 10:06:00 AM	TES

11ML0131 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 003/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1232	0.0	U	260.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1248	0.0	U	260.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene	130			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	131			MLDE110411001	4/13/2011 10:06:00 AM	TES

11ML0132 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 003/4-5**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	85			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Decachlorobiphenyl %R	84.7			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1016	0.0	U	320.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1232	0.0	U	320.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1242	0.0	U	320.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1248	0.0	U	320.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1254	0.0	U	320.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1260	0.0	U	320.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene	140			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	141			MLDE110411001	4/13/2011 10:06:00 AM	TES

11ML0133 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 003/5-6**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	86			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Decachlorobiphenyl %R	86.2			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1016	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1232	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1242	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1248	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1254	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	PCB-1260	0.0	U	270.0	MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene	120			MLDE110411001	4/13/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	123			MLDE110411001	4/13/2011 10:06:00 AM	TES

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	76			MLDE110411001	4/13/2011 10:01:00 AM	TES
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	76.2			MLDE110411001	4/13/2011 10:01:00 AM	TES
Matrix Spike-PCBs	PCB-1016	0.0	U	280.0	MLDE110411001	4/13/2011 10:01:00 AM	CR
Matrix Spike-PCBs	PCB-1232	0.0	U	280.0	MLDE110411001	4/13/2011 10:01:00 AM	CR
Matrix Spike-PCBs	PCB-1242	0.0	U	280.0	MLDE110411001	4/13/2011 10:01:00 AM	CR
Matrix Spike-PCBs	PCB-1248	3400		280.0	MLDE110411001	4/13/2011 10:01:00 AM	TES
Matrix Spike-PCBs	PCB-1248 - % Recovery	123			MLDE110411001	4/13/2011 10:01:00 AM	TES
Matrix Spike-PCBs	PCB-1254	0.0	U	280.0	MLDE110411001	4/13/2011 10:01:00 AM	CR

11ML0133 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: TMD-SO 003/5-6

This sample was run as a solid as is reported in ug/Kg units on as as received basis

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	PCB-1260	0.0	U	280.0	MLDE110411001	4/13/2011 10:01:00 AM	CR
Matrix Spike-PCBs	Tetrachloro-m-xylene	120			MLDE110411001	4/13/2011 10:01:00 AM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene - % Recovery	119			MLDE110411001	4/13/2011 10:01:00 AM	TES

Report Number:
Samples Received:
Page 6 of 6

MLDE110411001Blnl01 **Collection Date** 04/11/2011 **Sampled By:** TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	84			MLDE110411001		TES
Method Blank-PCBs	Decachlorobiphenyl %R	84			MLDE110411001		TES
Method Blank-PCBs	PCB-1016	0.0	U	290.0	MLDE110411001		TES
Method Blank-PCBs	PCB-1232	0.0	U	290.0	MLDE110411001		TES
Method Blank-PCBs	PCB-1242	0.0	U	290.0	MLDE110411001		TES
Method Blank-PCBs	PCB-1248	0.0	U	290.0	MLDE110411001		TES
Method Blank-PCBs	PCB-1254	0.0	U	290.0	MLDE110411001		TES
Method Blank-PCBs	PCB-1260	0.0	U	290.0	MLDE110411001		TES
Method Blank-PCBs	Tetrachloro-m-xylene	100			MLDE110411001		TES
Method Blank-PCBs	Tetrachloro-m-xylene %R	102			MLDE110411001		TES

Approved: _____

Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-214-012
Date Issued: 04/13/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.3.14.02.03.B5BE.000.012
Report Title: StClair 1-2

NARRATIVE

Twenty-seven (27) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following twenty (20) samples are included in this narrative:

11CD16	11CD17	11CD18	11CD19
11CD20	11CD21	11CD22	11CD23
11CD24	11CD25	11CD26	11CD27
11CD28	11CD29	11CD30	11CD31
11CD32	11CD33	11CD34	11CD35

PCBs Analysis

Sample Collection and Analysis

The samples were collected on April 11 and 12, 2011 and were analyzed on April 13, 2011 within the required hold times for PCBs.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 12, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

For continuing calibration run on April 12 and 13, 2011 the average response was within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110412001Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R for soils.

Sample TMD-SO 005/8-8.5 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

Sample TMD-SO 007/2-3 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

Reviewed By: _____ 4/13/11 Date: 4/13/11

Site Name: 10 Mile Drain
TDF# 5-214-012
Date Issued: 04/13/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.3.14.02.03.B5BE.000.012
Report Title: StClair 1-2

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 4/13/11

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110412-001
Samples Received: 04/12/2011

11ML0134 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 004/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	76			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	75.6			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	130			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	125			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0135 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 004/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	78			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	77.8			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	290.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	290.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	290.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	290.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	290.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	290.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	120			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	122			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0136 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 004/4-5**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	75			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	74.6			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	330.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	330.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	330.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	330.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	330.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	330.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	130			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	126			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0137 Collection Date 04/11/2011 Sampled By:

Sample Description: TMD-SO 004/6-7

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	78			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	78.3			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	130			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	126			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0138 Collection Date 04/11/2011 Sampled By:

Sample Description: TMD-SO 004/7-8

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	75			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	75.2			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	120			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	120			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0139 Collection Date 04/11/2011 Sampled By:

Sample Description: TMD-SO 005/0-1

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	83			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	83.3			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	120			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	121			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0140 Collection Date 04/11/2011 Sampled By:

Sample Description: TMD-SO 005/2-3

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	81			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0140 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 005/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	80.7			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	260.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	260.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	130			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	131			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0141 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 005/4-5**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	79			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	78.8			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	260.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	260.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	130			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	131			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0142 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 005/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	82			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	81.7			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	130			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	131			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0143 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 005/7-8**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	78			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	77.7			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0143 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 005/7-8**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1016	0.0	U	240.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	240.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	240.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	240.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	240.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	240.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	120			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	124			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0144 **Collection Date** 04/11/2011 **Sampled By:**

Sample Description: **TMD-SO 005/8-8.5**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	77			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	76.6			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	120			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	119			MLDR110413002	4/13/2011 6:02:00 PM	TES

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	90			MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	89.7			MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	PCB-1016	0.0	U	240.0	MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	PCB-1232	0.0	U	240.0	MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	PCB-1242	0.0	U	240.0	MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	PCB-1248	2900		240.0	MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	PCB-1248 - % Recovery	119			MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	PCB-1254	0.0	U	240.0	MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	PCB-1260	0.0	U	240.0	MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene	120			MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene - % Recovery	124			MLDR110413002	4/13/2011 6:00:00 PM	TES

11ML0145 **Collection Date** 04/12/2011 **Sampled By:**

Sample Description: **TMD-SO 006/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	104			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	240.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	240.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	240.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	240.0	MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0145 **Collection Date** 04/12/2011 **Sampled By:**

Sample Description: **TMD-SO 006/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1254	0.0	U	240.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	240.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	130			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	133			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0146 **Collection Date** 04/12/2011 **Sampled By:**

Sample Description: **TMD-SO 006/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	93			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	93.3			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	140			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	138			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0147 **Collection Date** 04/12/2011 **Sampled By:**

Sample Description: **TMD-SO 006/5-6**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	94			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	93.5			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	140			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	141			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0148 **Collection Date** 04/12/2011 **Sampled By:**

Sample Description: **TMD-SO 006/6-7**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	83			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	82.6			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0148 Collection Date 04/12/2011 Sampled By:

Sample Description: **TMD-SO 006/6-7**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1260	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	130			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	134			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0149 Collection Date 04/12/2011 Sampled By:

Sample Description: **TMD-SO 007/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	81			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	81.4			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	290.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	290.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	290.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	290.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	290.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	290.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	140			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	136			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0150 Collection Date 04/12/2011 Sampled By:

Sample Description: **TMD-SO 007/11-12**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	78			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	77.7			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	130			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	134			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0151 Collection Date 04/12/2011 Sampled By:

Sample Description: **TMD-SO 007/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	85			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	85.4			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	310.0	MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0151 Collection Date 04/12/2011 Sampled By:

Sample Description: **TMD-SO 007/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Tetrachloro-m-xylene	140			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	136			MLDR110413002	4/13/2011 6:02:00 PM	TES

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	89			MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	88.8			MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	PCB-1016	0.0	U	310.0	MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	PCB-1232	0.0	U	310.0	MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	PCB-1242	4100		310.0	MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	PCB-1242 - % Recovery	130			MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	PCB-1248	0.0	U	310.0	MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	PCB-1254	0.0	U	310.0	MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	PCB-1260	0.0	U	310.0	MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene	140			MLDR110413002	4/13/2011 6:00:00 PM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene - % Recovery	144			MLDR110413002	4/13/2011 6:00:00 PM	TES

11ML0152 Collection Date 04/12/2011 Sampled By:

Sample Description: **TMD-SO 007/4-5**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	85			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	84.7			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	280.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	140			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	142			MLDR110413002	4/13/2011 6:02:00 PM	TES

11ML0153 Collection Date 04/12/2011 Sampled By:

Sample Description: **TMD-SO 007/4-5D**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	88			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Decachlorobiphenyl %R	87.6			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1016	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1232	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1242	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1248	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1254	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	PCB-1260	0.0	U	250.0	MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene	140			MLDR110413002	4/13/2011 6:02:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	144			MLDR110413002	4/13/2011 6:02:00 PM	TES

MLDE110412001BIn01 Collection Date 04/12/2011 Sampled By: TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	67			MLDR110413002		TES
Method Blank-PCBs	Decachlorobiphenyl %R	67			MLDR110413002		TES
Method Blank-PCBs	PCB-1016	0.0	U	220.0	MLDR110413002		TES
Method Blank-PCBs	PCB-1232	0.0	U	220.0	MLDR110413002		TES
Method Blank-PCBs	PCB-1242	0.0	U	220.0	MLDR110413002		TES
Method Blank-PCBs	PCB-1248	0.0	U	220.0	MLDR110413002		TES
Method Blank-PCBs	PCB-1254	0.0	U	220.0	MLDR110413002		TES
Method Blank-PCBs	PCB-1260	0.0	U	220.0	MLDR110413002		TES
Method Blank-PCBs	Tetrachloro-m-xylene	110			MLDR110413002		TES
Method Blank-PCBs	Tetrachloro-m-xylene %R	113			MLDR110413002		TES

Approved: 4/13/11

Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-214-012
Date Issued: 04/15/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.3.14.02.03.B5BE.000.012
Report Title: StClair 1-3

NARRATIVE

Sixteen (16) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following twenty (20) samples are included in this narrative:

11CD36	11CD37	11CD38	11CD39
11CD40	11CD41	11CD42	11CD43
11CD44	11CD45	11CD46	11CD47
11CD48	11CD49	11CD50	11CD51
11CD52	11CD53	11CD54	11CD55

PCBs Analysis

Sample Collection and Analysis

The samples were collected on April 12 and 13, 2011 and were analyzed on April 14, 2011 - within the required hold times for PCBs.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 14, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110413001Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R for soils, with the exception of decachlorobiphenyl which was low in TMD-SO 010/7-8. No action is taken when only one surrogate is out of control.

Sample TMD-SO 009/4-5 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

Sample TMD-SO 010/0-1 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

Reviewed By: _____ Date: 4/15/11

Site Name: 10 Mile Drain
TDF# 5-214-012
Date Issued: 04/15/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.3.14.02.03.B5BE.000.012
Report Title: StClair 1-3

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 4/15/11

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110412-001
Samples Received: 04/12/2011

11ML0154 **Collection Date** 04/12/2011 **Sampled By:**

Sample Description: **TMD-SO 007/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	90			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	90.4			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	0.0	U	280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	92			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	92.4			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0155 **Collection Date** 04/12/2011 **Sampled By:**

Sample Description: **TMD-SO 007/7-8**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	96			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	95.8			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	0.0	U	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	99			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	98.7			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0156 **Collection Date** 04/12/2011 **Sampled By:**

Sample Description: **TMD-SO 007/9-10**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	61			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	61.5			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	98			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	98.3			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0157 **Collection Date** 04/12/2011 **Sampled By:**

Sample Description: **TMD-SO 008/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	101			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	220.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	220.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	220.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	0.0	U	220.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	220.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	220.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	108			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0158 **Collection Date** 04/12/2011 **Sampled By:**

Sample Description: **TMD-SO 008/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	104			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	260.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	0.0	U	260.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	113			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0159 **Collection Date** 04/12/2011 **Sampled By:**

Sample Description: **TMD0SO 008/6-7D**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	89			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	89.3			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	230.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	230.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	230.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	0.0	U	230.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	230.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	230.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	99			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	99.3			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0160 **Collection Date** 04/12/2011 **Sampled By:**

Sample Description: **TMD-SO 008/7-8**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	90			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0160 **Collection Date** 04/12/2011 **Sampled By:**

Sample Description: **TMD-SO 008/7-8**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	89.8			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	96			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	95.7			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0161 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 009/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	99			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	99.2			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	250.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	250.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	250.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	250	J	250.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	250.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	250.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	100			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	103			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0162 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 009/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	103			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	200.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	200.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	200.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	0.0	U	200.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	200.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	200.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	108			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0163 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 009/2-3D**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	100			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	290.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	290.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	290.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	0.0	U	290.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	290.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	290.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	109			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0164 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 009/4-5**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	92			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	92.1			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	270.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	106			MLDR110415001	4/15/2011 10:50:00 AM	TES

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	100			MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	101			MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	PCB-1016	0.0	U	300.0	MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	PCB-1232	0.0	U	300.0	MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	PCB-1242	0.0	U	300.0	MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	PCB-1242 - % Recovery	0.0			MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	PCB-1248	3400		300.0	MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	PCB-1248 - % Recovery	114			MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	PCB-1254	0.0	U	300.0	MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	PCB-1260	0.0	U	300.0	MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene	110			MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene - % Recovery	109			MLDR110415001	4/15/2011 10:42:00 AM	TES

11ML0165 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 009/5-6**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	95			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	94.7			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0165 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 009/5-6**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1232	0.0	U	260.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	0.0	U	260.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	100			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	103			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0166 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 009/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	102			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	300.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	0.0	U	300.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	300.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	113			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0167 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 009/7-8**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	99.8			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	0.0	U	280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	109			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0168 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 010/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	88			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	88.4			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0168 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 010/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1242	0.0	U	280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	460		280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	280.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	100			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	100			MLDR110415001	4/15/2011 10:50:00 AM	TES

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	93			MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	93.0			MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	PCB-1016	0.0	U	270.0	MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	PCB-1232	0.0	U	270.0	MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	PCB-1242	0.0	U	270.0	MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	PCB-1248	2800		270.0	MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	PCB-1248 - % Recovery	88.5			MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	PCB-1254	0.0	U	270.0	MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	PCB-1260	0.0	U	270.0	MLDR110415001	4/15/2011 10:42:00 AM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene	100			MLDR110415001	4/15/2011 10:42:00 AM	TES

11ML0169 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 010/2-2.5**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	97			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	97.1			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	150	J	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	107			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0170 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 010/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	96			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	95.7			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	300.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	0.0	U	300.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	300.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0170 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 010/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Tetrachloro-m-xylene %R	105			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0171 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 010/6-7D**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	96			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	95.9			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	220.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	220.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	220.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	0.0	U	220.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	220.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	220.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	108			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0172 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 010/7-8**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	44			MLDR110415001	4/15/2011 10:50:00 AM	CR
PCBs	Decachlorobiphenyl %R	43.9	J		MLDR110415001	4/15/2011 10:50:00 AM	CR
PCBs	PCB-1016	0.0	U	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	0.0	U	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	240.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	86			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	86.4			MLDR110415001	4/15/2011 10:50:00 AM	TES

11ML0173 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 011/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	95			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	95.4			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1016	0.0	U	310.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1232	0.0	U	310.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1242	0.0	U	310.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1248	1600		310.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1254	0.0	U	310.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	PCB-1260	0.0	U	310.0	MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	100			MLDR110415001	4/15/2011 10:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	104			MLDR110415001	4/15/2011 10:50:00 AM	TES

MLDE110413001B In01 **Collection Date** 04/13/2011 **Sampled By:** TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	94			MLDR110415001		TES
Method Blank-PCBs	Decachlorobiphenyl %R	94			MLDR110415001		TES
Method Blank-PCBs	PCB-1016	0.0	U	250.0	MLDR110415001		TES
Method Blank-PCBs	PCB-1232	0.0	U	250.0	MLDR110415001		TES
Method Blank-PCBs	PCB-1242	0.0	U	250.0	MLDR110415001		TES
Method Blank-PCBs	PCB-1248	0.0	U	250.0	MLDR110415001		TES
Method Blank-PCBs	PCB-1254	0.0	U	250.0	MLDR110415001		TES
Method Blank-PCBs	PCB-1260	0.0	U	250.0	MLDR110415001		TES
Method Blank-PCBs	Tetrachloro-m-xylene	94			MLDR110415001		TES
Method Blank-PCBs	Tetrachloro-m-xylene %R	93.6			MLDR110415001		TES

Approved: _____

Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-214-012
Date Issued: 04/15/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.3.14.02.03.B5BE.000.012
Report Title: StClair 1-4

NARRATIVE

Nineteen (19) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following twenty (20) samples are included in this narrative:

11CD56	11CD57	11CD58	11CD59
11CD60	11CD61	11CD62	11CD63
11CD64	11CD65	11CD66	11CD67
11CD68	11CD69	11CD70	11CD71
11CD72	11CD73	11CD74	11CD75

PCBs Analysis

Sample Collection and Analysis

The samples were collected on April 12 and 13, 2011 and were analyzed on April 14, 2011 - within the required hold times for PCBs.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 14, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110414001Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R for soils, with the exception of decachlorobiphenyl which was low in the method blank, TMD-SO 011/1-2, TMD SO 011/5-6 and TMD SO 014/10-11. No action is taken when only one surrogate is out of control.

Sample TMD-SO 014/4-5 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present

Reviewed By: _____ Date: 4/15/11

Site Name: 10 Mile Drain
TDF# 5-214-012
Date Issued: 04/15/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.3.14.02.03.B5BE.000.012
Report Title: StClair 1-4

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 4/15/11

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110413-001
Samples Received: 04/13/2011

11ML0174 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 011/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	46			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	46.2			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	88			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	87.6			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0175 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 011/5-6**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	47			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	46.5	J		MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	89			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	89.2			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0176 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 011/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	97			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	96.8			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	290.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	290.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	290.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	290.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	290.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	290.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	107			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0177 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 012/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	88			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	88.0			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	820		270.0	MLDR110415002	4/15/2011 11:54:00 AM	CR
PCBs	PCB-1254	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	96			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	95.6			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0178 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 012/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	92			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	92.1			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	100			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	104			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0179 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 012/5-6**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	91			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	90.7			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	310.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	310.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	310.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	310.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	310.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	310.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	100			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	103			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0180 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 012/5-6R**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	92			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0180 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 012/5-6R**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	92.1			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	240.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	240.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	240.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	240.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	240.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	240.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	100			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	102			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0181 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 012/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	94			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	93.6			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	106			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0182 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 013/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	92			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	91.8			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	100			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	104			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0183 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 013/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	95			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	94.9			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0183 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 013/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1016	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	100			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	103			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0184 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 013/5-6**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	94			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	93.8			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	190.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	190.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	190.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	190.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	190.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	190.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	100			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	103			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0185 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 013/5-6R**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	96			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	96.0			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	220.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	220.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	220.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	220.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	220.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	220.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	106			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0186 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 013/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	101			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0186 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 013/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1232	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	270.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	106			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0187 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 014/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	93			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	93.2			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	320.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	320.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	320.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	270	J	320.0	MLDR110415002	4/15/2011 11:54:00 AM	CR
PCBs	PCB-1254	0.0	U	320.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	320.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	106			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0188 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 014/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	96			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	95.6			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	108			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0189 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 014/4-5**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	97			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	96.7			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	280.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	280.0	MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0189 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 014/4-5**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1242	0.0	U	280.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	280.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	280.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	280.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	107			MLDR110415002	4/15/2011 11:54:00 AM	TES

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	92			MLDR110415002	4/15/2011 11:47:00 AM	TES
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	92.3			MLDR110415002	4/15/2011 11:47:00 AM	TES
Matrix Spike-PCBs	PCB-1016	0.0	U	250.0	MLDR110415002	4/15/2011 11:47:00 AM	TES
Matrix Spike-PCBs	PCB-1232	0.0	U	250.0	MLDR110415002	4/15/2011 11:47:00 AM	TES
Matrix Spike-PCBs	PCB-1242	0.0	U	250.0	MLDR110415002	4/15/2011 11:47:00 AM	TES
Matrix Spike-PCBs	PCB-1248	2700		250.0	MLDR110415002	4/15/2011 11:47:00 AM	TES
Matrix Spike-PCBs	PCB-1248 - % Recovery	107			MLDR110415002	4/15/2011 11:47:00 AM	TES
Matrix Spike-PCBs	PCB-1254	0.0	U	250.0	MLDR110415002	4/15/2011 11:47:00 AM	TES
Matrix Spike-PCBs	PCB-1260	0.0	U	250.0	MLDR110415002	4/15/2011 11:47:00 AM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene	110			MLDR110415002	4/15/2011 11:47:00 AM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene - % Recovery	109			MLDR110415002	4/15/2011 11:47:00 AM	TES

11ML0190 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 014/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	94			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	93.6			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	260.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	260.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	108			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0191 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 014/8-9**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	98			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	98.2			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	240.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	240.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	240.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	240.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	240.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	240.0	MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0191 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 014/8-9**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Tetrachloro-m-xylene	110			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	111			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0192 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 014/10-11**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	50			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	49.9	J		MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	95			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	95.2			MLDR110415002	4/15/2011 11:54:00 AM	TES

11ML0193 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 014/10-11R**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	98			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Decachlorobiphenyl %R	97.6			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1016	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1232	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1242	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1248	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1254	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	PCB-1260	0.0	U	250.0	MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415002	4/15/2011 11:54:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	114			MLDR110415002	4/15/2011 11:54:00 AM	TES

MLDE110414001Blk01 **Collection Date** 04/14/2011 **Sampled By:** TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	46			MLDR110415002		TES
Method Blank-PCBs	Decachlorobiphenyl %R	46			MLDR110415002		TES
Method Blank-PCBs	PCB-1016	0.0	U	280.0	MLDR110415002		TES
Method Blank-PCBs	PCB-1232	0.0	U	280.0	MLDR110415002		TES
Method Blank-PCBs	PCB-1242	0.0	U	280.0	MLDR110415002		TES
Method Blank-PCBs	PCB-1248	0.0	U	280.0	MLDR110415002		TES
Method Blank-PCBs	PCB-1254	0.0	U	280.0	MLDR110415002		TES

MLDE110414001BIn01 **Collection Date** 04/14/2011 **Sampled By:** TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	PCB-1260	0.0	U	280.0	MLDR110415002		TES
Method Blank-PCBs	Tetrachloro-m-xylene	83			MLDR110415002		TES
Method Blank-PCBs	Tetrachloro-m-xylene %R	82.8			MLDR110415002		TES

Approved: _____

Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-214-012
Date Issued: 04/15/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.3.14.02.03.B5BE.000.012
Report Title: StClair 1-5

NARRATIVE

Nineteen (19) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following fourteen (14) samples are included in this narrative:

11CD76	11CD77	11CD78	11CD79
11CD80	11CD81	11CD82	11CD83
11CD84	11CD85	11CD86	11CD87
11CD88	11CD89		

PCBs Analysis

Sample Collection and Analysis

The samples were collected on April 14, 2011 and were analyzed on April 14 and 15, 2011 - within the required hold times for PCBs.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 14, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

For continuing calibration run on April 15, 2011 the average response was within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110414002Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R for soils.

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present

Sample TMD-SO 016/2-3 needed to be diluted by a factor of ten for all compounds of interest to be in the instrument calibration range.

Reviewed By: _____ Date: 4/15/11

Site Name: 10 Mile Drain
TDF# 5-214-012
Date Issued: 04/15/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.3.14.02.03.B5BE.000.012
Report Title: StClair 1-5

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 4/18/11

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110414-001
Samples Received: 04/14/2011

11ML0194 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 014/12-13**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	99			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Decachlorobiphenyl %R	98.5			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1016	0.0	U	290.0	MLDR110415003	4/15/2011 12:01:00 PM	CR
PCBs	PCB-1232	0.0	U	290.0	MLDR110415003	4/15/2011 12:01:00 PM	CR
PCBs	PCB-1242	0.0	U	290.0	MLDR110415003	4/15/2011 12:01:00 PM	CR
PCBs	PCB-1248	0.0	U	290.0	MLDR110415003	4/15/2011 12:01:00 PM	CR
PCBs	PCB-1254	0.0	U	290.0	MLDR110415003	4/15/2011 12:01:00 PM	CR
PCBs	PCB-1260	0.0	U	290.0	MLDR110415003	4/15/2011 12:01:00 PM	CR
PCBs	Tetrachloro-m-xylene	110			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	115			MLDR110415003	4/15/2011 12:01:00 PM	TES

11ML0195 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-SO 014/13-14**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	98			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Decachlorobiphenyl %R	97.9			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1016	0.0	U	250.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1232	0.0	U	250.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1242	0.0	U	250.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1248	0.0	U	250.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1254	0.0	U	250.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1260	0.0	U	250.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	113			MLDR110415003	4/15/2011 12:01:00 PM	TES

11ML0196 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 015/10-11**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	96			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Decachlorobiphenyl %R	95.7			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1016	0.0	U	240.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1232	0.0	U	240.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1242	0.0	U	240.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1248	0.0	U	240.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1254	0.0	U	240.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1260	0.0	U	240.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	112			MLDR110415003	4/15/2011 12:01:00 PM	TES

11ML0197 Collection Date 04/14/2011 Sampled By:

Sample Description: **TMD-SO 015/12-13**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	98			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Decachlorobiphenyl %R	97.7			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1016	0.0	U	210.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1232	0.0	U	210.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1242	0.0	U	210.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1248	0.0	U	210.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1254	0.0	U	210.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1260	0.0	U	210.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	112			MLDR110415003	4/15/2011 12:01:00 PM	TES

11ML0198 Collection Date 04/14/2011 Sampled By:

Sample Description: **TMD-SO 015/12-13R**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Decachlorobiphenyl %R	100			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1016	0.0	U	230.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1232	0.0	U	230.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1242	0.0	U	230.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1248	0.0	U	230.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1254	0.0	U	230.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1260	0.0	U	230.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	112			MLDR110415003	4/15/2011 12:01:00 PM	TES

11ML0199 Collection Date 04/14/2011 Sampled By:

Sample Description: **TMD-SO 015/4-5**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	110			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Decachlorobiphenyl %R	111			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1232	0.0	U	260.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1248	0.0	U	260.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	114			MLDR110415003	4/15/2011 12:01:00 PM	TES

11ML0200 Collection Date 04/14/2011 Sampled By:

Sample Description: **TMD-SO 015/5-6**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110415003	4/15/2011 12:01:00 PM	TES

11ML0200 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 015/5-6**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	100			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1016	0.0	U	330.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1232	0.0	U	330.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1242	0.0	U	330.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1248	0.0	U	330.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1254	0.0	U	330.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1260	0.0	U	330.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	113			MLDR110415003	4/15/2011 12:01:00 PM	TES

11ML0201 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 015/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	96			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Decachlorobiphenyl %R	95.5			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1016	0.0	U	220.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1232	0.0	U	220.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1242	0.0	U	220.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1248	0.0	U	220.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1254	0.0	U	220.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1260	0.0	U	220.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	112			MLDR110415003	4/15/2011 12:01:00 PM	TES

11ML0202 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 016/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	95			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Decachlorobiphenyl %R	95.0			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1016	0.0	U	290.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1232	0.0	U	290.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1242	0.0	U	290.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1248	2800		290.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1254	0.0	U	290.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1260	0.0	U	290.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	113			MLDR110415003	4/15/2011 12:01:00 PM	TES

11ML0203 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 016/10-11**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Decachlorobiphenyl %R	100			MLDR110415003	4/15/2011 12:01:00 PM	TES

11ML0203 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 016/10-11**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1016	0.0	U	220.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1232	0.0	U	220.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1242	0.0	U	220.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1248	0.0	U	220.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1254	0.0	U	220.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1260	0.0	U	220.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	112			MLDR110415003	4/15/2011 12:01:00 PM	TES

11ML0204 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 016/11-12**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Decachlorobiphenyl %R	100			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1232	0.0	U	260.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1248	0.0	U	260.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	114			MLDR110415003	4/15/2011 12:01:00 PM	TES

11ML0205 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 016/12-13**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Decachlorobiphenyl %R	102			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1016	0.0	U	210.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1232	0.0	U	210.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1242	0.0	U	210.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1248	870		210.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1254	0.0	U	210.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	PCB-1260	0.0	U	210.0	MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110415003	4/15/2011 12:01:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	113			MLDR110415003	4/15/2011 12:01:00 PM	TES

11ML0206 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 016/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	96			MLDR110415003	4/15/2011 12:06:00 PM	TES
PCBs	Decachlorobiphenyl %R	95.7			MLDR110415003	4/15/2011 12:06:00 PM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDR110415003	4/15/2011 12:06:00 PM	TES

11ML0206 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 016/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1232	0.0	U	300.0	MLDR110415003	4/15/2011 12:06:00 PM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDR110415003	4/15/2011 12:06:00 PM	TES
PCBs	PCB-1248	110000		3,000.0	MLDR110415003	4/15/2011 12:06:00 PM	CR
PCBs	PCB-1254	0.0	U	300.0	MLDR110415003	4/15/2011 12:06:00 PM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDR110415003	4/15/2011 12:06:00 PM	TES
PCBs	Tetrachloro-m-xylene	97			MLDR110415003	4/15/2011 12:06:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	96.9			MLDR110415003	4/15/2011 12:06:00 PM	TES

11ML0207 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 016/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	99			MLDR110415003	4/15/2011 12:03:00 PM	TES
PCBs	Decachlorobiphenyl %R	98.9			MLDR110415003	4/15/2011 12:03:00 PM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDR110415003	4/15/2011 12:03:00 PM	TES
PCBs	PCB-1232	0.0	U	300.0	MLDR110415003	4/15/2011 12:03:00 PM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDR110415003	4/15/2011 12:03:00 PM	TES
PCBs	PCB-1248	3600		300.0	MLDR110415003	4/15/2011 12:03:00 PM	TES
PCBs	PCB-1254	0.0	U	300.0	MLDR110415003	4/15/2011 12:03:00 PM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDR110415003	4/15/2011 12:03:00 PM	TES
PCBs	Tetrachloro-m-xylene	100			MLDR110415003	4/15/2011 12:03:00 PM	TES
PCBs	Tetrachloro-m-xylene %R	105			MLDR110415003	4/15/2011 12:03:00 PM	TES

MLDE110414002BIn01 **Collection Date** 04/14/2011 **Sampled By:** TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	100			MLDR110415003		TES
Method Blank-PCBs	Decachlorobiphenyl %R	100			MLDR110415003		TES
Method Blank-PCBs	PCB-1016	0.0	U	300.0	MLDR110415003		TES
Method Blank-PCBs	PCB-1232	0.0	U	300.0	MLDR110415003		TES
Method Blank-PCBs	PCB-1242	0.0	U	300.0	MLDR110415003		TES
Method Blank-PCBs	PCB-1248	0.0	U	300.0	MLDR110415003		TES
Method Blank-PCBs	PCB-1254	0.0	U	300.0	MLDR110415003		TES
Method Blank-PCBs	PCB-1260	0.0	U	300.0	MLDR110415003		TES
Method Blank-PCBs	Tetrachloro-m-xylene	110			MLDR110415003		TES
Method Blank-PCBs	Tetrachloro-m-xylene %R	111			MLDR110415003		TES

Approved: _____

Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-214-012
Date Issued: 04/16/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.3.14.02.03.B5BE.000.012
Report Title: StClair 1-6

NARRATIVE

Thirty-one (31) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following twenty (20) samples are included in this narrative:

11CD02-01	11CD02-02	11CD02-03	11CD02-04
11CD02-05	11CD02-06	11CD02-07	11CD02-08
11CD02-09	11CD02-10	11CD02-11	11CD02-12
11CD02-13	11CD02-14	11CD02-15	11CD02-16
11CD02-17	11CD02-18	11CD02-19	11CD02-20

PCBs Analysis

Sample Collection and Analysis

The samples were collected on April 14, 2011 and were analyzed on April 15, 2011 within the required hold times for PCBs.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 14, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

For continuing calibration run on April 15, 2011 the average response was within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110415001Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R for soils.

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 4/16/11

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110415-001
Samples Received: 04/15/2011

11ML0208 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 017/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	99.7			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	330.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	330.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	330.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	1100		330.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	330.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	330.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	115			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0209 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 017/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	105			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	1800		210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	113			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0210 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 017/5-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	99			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	99.3			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	0.0	U	260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	111			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0211 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 017/10-11**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	97			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	97.3			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	0.0	U	210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	112			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0212 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 017/10-11R**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	95			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	94.6			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	290.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	290.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	290.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	0.0	U	290.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	290.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	290.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	112			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0213 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 017/12-13**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	99			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	98.8			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	190.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	190.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	190.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	0.0	U	190.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	190.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	190.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	112			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0214 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 017/13-14**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0214 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 017/13-14**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	102			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	0.0	U	260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	111			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0215 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 018/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	99.5			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	300.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	0.0	U	300.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	300.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	112			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0216 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 018/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	100			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	230.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	230.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	230.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	0.0	U	230.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	230.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	230.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	115			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0217 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 018/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	103			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0217 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 018/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1016	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	111			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0218 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 018/10-11**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	102			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	320.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	320.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	320.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	0.0	U	320.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	320.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	320.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	120			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	118			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0219 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 018/11-12**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	99			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	99.3			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	270.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	270.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	270.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	370		270.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	270.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	270.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	113			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0220 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 018/12-13**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	94			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	93.7			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0220 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-SO 018/12-13**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1232	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	112			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0221 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 019/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	97			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	97.4			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	930		260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	109			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0222 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 019/02-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	99.5			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	280.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	280.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	280.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	3000		280.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	280.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	280.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	111			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0223 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 019/5-6**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	98			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	98.0			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	280.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	280.0	MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0223 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 019/5-6**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1242	0.0	U	280.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	280		280.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	280.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	280.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	109			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0224 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 019/7-8**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	99			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	99.0			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	320.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	320.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	320.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	1100		320.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	320.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	320.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	111			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0225 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 019/10-11**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	100			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	300.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	1900		300.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	300.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	114			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0226 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 019/12-13**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	97			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	97.3			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0226 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 019/12-13**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1248	780		210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	210.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	113			MLDR110416001	4/16/2011 8:58:00 AM	TES

11ML0227 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 019/15-16**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	97			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Decachlorobiphenyl %R	97.4			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1016	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1232	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1242	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1248	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1254	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	PCB-1260	0.0	U	240.0	MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416001	4/16/2011 8:58:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	113			MLDR110416001	4/16/2011 8:58:00 AM	TES

MLDE110415001B In01 **Collection Date** 04/15/2011 **Sampled By:** TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	96			MLDR110416001		TES
Method Blank-PCBs	Decachlorobiphenyl %R	96			MLDR110416001		TES
Method Blank-PCBs	PCB-1016	0.0	U	260.0	MLDR110416001		TES
Method Blank-PCBs	PCB-1232	0.0	U	260.0	MLDR110416001		TES
Method Blank-PCBs	PCB-1242	0.0	U	260.0	MLDR110416001		TES
Method Blank-PCBs	PCB-1248	0.0	U	260.0	MLDR110416001		TES
Method Blank-PCBs	PCB-1254	0.0	U	260.0	MLDR110416001		TES
Method Blank-PCBs	PCB-1260	0.0	U	260.0	MLDR110416001		TES
Method Blank-PCBs	Tetrachloro-m-xylene	110			MLDR110416001		TES
Method Blank-PCBs	Tetrachloro-m-xylene %R	106			MLDR110416001		TES

Approved: _____

Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-214-012
Date Issued: 04/16/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.3.14.02.03.B5BE.000.012
Report Title: StClair 1-7

NARRATIVE

Thirty-one (31) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following eleven (11) samples are included in this narrative:

11CD02-21	11CD02-22	11CD02-23	11CD02-24
11CD02-25	11CD02-26	11CD02-27	11CD02-28
11CD02-29	11CD02-30	11CD02-31	

PCBs Analysis

Sample Collection and Analysis

The samples were collected on April 15, 2011 and were analyzed on April 15, 2011 within the required hold times for PCBs.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 14, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

For continuing calibration run on April 15, 2011 the average response was within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110415002Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R for soils.

Sample TMD-SO 020/2-3 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present

Reviewed By: _____ Date: 4/16/11

Site Name: 10 Mile Drain
TDF# 5-214-012
Date Issued: 04/16/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.3.14.02.03.B5BE.000.012
Report Title: StClair 1-7

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 4/16/11

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110415-001
Samples Received: 04/15/2011

11ML0228 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 020/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Decachlorobiphenyl %R	101			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1232	0.0	U	260.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1248	160	J	260.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	113			MLDR110416002	4/16/2011 9:05:00 AM	TES

11ML0229 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 020/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Decachlorobiphenyl %R	100			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1016	0.0	U	250.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1232	0.0	U	250.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1242	0.0	U	250.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1248	230	J	250.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1254	0.0	U	250.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1260	0.0	U	250.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	115			MLDR110416002	4/16/2011 9:05:00 AM	TES

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	100			MLDR110416002	4/16/2011 9:03:00 AM	TES
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	105			MLDR110416002	4/16/2011 9:03:00 AM	TES
Matrix Spike-PCBs	PCB-1016	0.0	U	320.0	MLDR110416002	4/16/2011 9:03:00 AM	TES
Matrix Spike-PCBs	PCB-1232	0.0	U	320.0	MLDR110416002	4/16/2011 9:03:00 AM	TES
Matrix Spike-PCBs	PCB-1242	0.0	U	320.0	MLDR110416002	4/16/2011 9:03:00 AM	TES
Matrix Spike-PCBs	PCB-1248	3800		320.0	MLDR110416002	4/16/2011 9:03:00 AM	TES
Matrix Spike-PCBs	PCB-1248 - % Recovery	112			MLDR110416002	4/16/2011 9:03:00 AM	TES
Matrix Spike-PCBs	PCB-1254	0.0	U	320.0	MLDR110416002	4/16/2011 9:03:00 AM	TES
Matrix Spike-PCBs	PCB-1260	0.0	U	320.0	MLDR110416002	4/16/2011 9:03:00 AM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene	120			MLDR110416002	4/16/2011 9:03:00 AM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene - % Recovery	119			MLDR110416002	4/16/2011 9:03:00 AM	TES

11ML0230 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 020/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Decachlorobiphenyl %R	105			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1016	0.0	U	320.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1232	0.0	U	320.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1242	0.0	U	320.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1248	2500		320.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1254	0.0	U	320.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1260	0.0	U	320.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	111			MLDR110416002	4/16/2011 9:05:00 AM	TES

11ML0231 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 020-6-7R**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	50			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Decachlorobiphenyl %R	50.3			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1016	0.0	U	310.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1232	0.0	U	310.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1242	0.0	U	310.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1248	1500		310.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1254	0.0	U	310.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1260	0.0	U	310.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene	95			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	94.7			MLDR110416002	4/16/2011 9:05:00 AM	TES

11ML0232 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 020/10-11**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	110			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Decachlorobiphenyl %R	107			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1016	0.0	U	30.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1232	0.0	U	30.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1242	0.0	U	30.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1248	57		30.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1254	0.0	U	30.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1260	0.0	U	30.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	113			MLDR110416002	4/16/2011 9:05:00 AM	TES

11ML0233 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 020/11.7-12.7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110416002	4/16/2011 9:05:00 AM	TES

11ML0233 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 020/11.7-12.7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	100			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1016	0.0	U	270.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1232	0.0	U	270.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1242	0.0	U	270.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1248	0.0	U	270.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1254	0.0	U	270.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1260	0.0	U	270.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	112			MLDR110416002	4/16/2011 9:05:00 AM	TES

11ML0234 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 021/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Decachlorobiphenyl %R	99.9			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1232	0.0	U	260.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1248	1100		260.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	109			MLDR110416002	4/16/2011 9:05:00 AM	TES

11ML0235 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 021/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	99			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Decachlorobiphenyl %R	98.6			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1016	0.0	U	290.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1232	0.0	U	290.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1242	0.0	U	290.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1248	0.0	U	290.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1254	0.0	U	290.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1260	0.0	U	290.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	115			MLDR110416002	4/16/2011 9:05:00 AM	TES

11ML0236 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 021/4-5**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Decachlorobiphenyl %R	101			MLDR110416002	4/16/2011 9:05:00 AM	TES

11ML0236 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 021/4-5**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1016	0.0	U	280.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1232	0.0	U	280.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1242	0.0	U	280.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1248	0.0	U	280.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1254	0.0	U	280.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1260	0.0	U	280.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	113			MLDR110416002	4/16/2011 9:05:00 AM	TES

11ML0237 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 021/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Decachlorobiphenyl %R	103			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1016	0.0	U	250.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1232	0.0	U	250.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1242	0.0	U	250.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1248	0.0	U	250.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1254	0.0	U	250.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1260	0.0	U	250.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene	120			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	116			MLDR110416002	4/16/2011 9:05:00 AM	TES

11ML0238 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 021/7-8**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	98			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Decachlorobiphenyl %R	98.3			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1016	0.0	U	220.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1232	0.0	U	220.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1242	0.0	U	220.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1248	0.0	U	220.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1254	0.0	U	220.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	PCB-1260	0.0	U	220.0	MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene	120			MLDR110416002	4/16/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	116			MLDR110416002	4/16/2011 9:05:00 AM	TES

MLDE110415002Blnl01 **Collection Date** 04/15/2011 **Sampled By:** TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	96			MLDR110416002		TES

MLDE110415002Blnd1 Collection Date 04/15/2011 Sampled By: TES

Sample Description:
Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl %R	96			MLDR110416002		TES
Method Blank-PCBs	PCB-1016	0.0	U	250.0	MLDR110416002		TES
Method Blank-PCBs	PCB-1232	0.0	U	250.0	MLDR110416002		TES
Method Blank-PCBs	PCB-1242	0.0	U	250.0	MLDR110416002		TES
Method Blank-PCBs	PCB-1248	0.0	U	250.0	MLDR110416002		TES
Method Blank-PCBs	PCB-1254	0.0	U	250.0	MLDR110416002		TES
Method Blank-PCBs	PCB-1260	0.0	U	250.0	MLDR110416002		TES
Method Blank-PCBs	Tetrachloro-m-xylene	110			MLDR110416002		TES
Method Blank-PCBs	Tetrachloro-m-xylene %R	111			MLDR110416002		TES

Approved:

Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 04/17/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5BE.000.001
Report Title: StClair 1-8

NARRATIVE

Fifteen (15) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following fifteen (15) samples are included in this narrative:

11CT02-01	11CT02-02	11CT02-03	11CT02-04
11CT02-05	11CT02-06	11CT02-07	11CT02-08
11CT02-09	11CT02-10	11CT02-11	11CT02-12
11CT02-13	11CT02-14	11CT02-15	

PCBs Analysis

Sample Collection and Analysis

The samples were collected on April 15, 2011 and were analyzed on April 16, 2011 within the required hold times for PCBs.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 14, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

For continuing calibration run on April 16, 2011 the average response was within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110416002Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R for soils.

Sample TMD-SO 023/2-3 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present

Flag Description

Reviewed By: _____ Date: 4/17/11

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 04/17/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5BE.000.001
Report Title: StClair 1-8

J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 4/17/11

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110416-001
Samples Received: 04/16/2011

11ML0239 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 022/0-1**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Decachlorobiphenyl %R	102			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1016	0.0	U	320.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1232	0.0	U	320.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1242	0.0	U	320.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1248	360		320.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1254	0.0	U	320.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1260	0.0	U	320.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	117			MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0240 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 022/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	110			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Decachlorobiphenyl %R	105			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1016	0.0	U	270.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1232	0.0	U	270.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1242	0.0	U	270.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1248	0.0	U	270.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1254	0.0	U	270.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	117			MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0241 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 022/5-6**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	96			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Decachlorobiphenyl %R	96.4			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1016	0.0	U	290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1232	0.0	U	290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1242	0.0	U	290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1248	0.0	U	290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1254	0.0	U	290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1260	0.0	U	290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene	110			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	115			MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0242 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 022/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	98			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Decachlorobiphenyl %R	97.7			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1016	0.0	U	290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1232	0.0	U	290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1242	0.0	U	290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1248	0.0	U	290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1254	0.0	U	290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1260	0.0	U	290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	117			MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0243 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 023/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	97			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Decachlorobiphenyl %R	97.2			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1016	0.0	U	310.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1232	0.0	U	310.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1242	0.0	U	310.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1248	3200		310.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1254	0.0	U	310.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1260	0.0	U	310.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene	110			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	115			MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0244 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 023/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	97			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Decachlorobiphenyl %R	97.4			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1016	0.0	U	270.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1232	0.0	U	270.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1242	0.0	U	270.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1248	3100		270.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1254	0.0	U	270.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene	110			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	112			MLDR110417001	4/17/2011 8:06:00 AM	CR

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	110			MLDR110417001	4/17/2011 8:06:00 AM	CR
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	110			MLDR110417001	4/17/2011 8:06:00 AM	CR
Matrix Spike-PCBs	PCB-1016	0.0	U	300.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
Matrix Spike-PCBs	PCB-1232	0.0	U	300.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
Matrix Spike-PCBs	PCB-1242	0.0	U	300.0	MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0244 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 023/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	PCB-1248	6600		300.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
Matrix Spike-PCBs	PCB-1248 - % Recovery	117			MLDR110417001	4/17/2011 8:06:00 AM	CR
Matrix Spike-PCBs	PCB-1254	0.0	U	300.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
Matrix Spike-PCBs	PCB-1260	0.0	U	300.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
Matrix Spike-PCBs	Tetrachloro-m-xylene	120			MLDR110417001	4/17/2011 8:06:00 AM	CR
Matrix Spike-PCBs	Tetrachloro-m-xylene - % Recovery	123			MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0245 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 023/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Decachlorobiphenyl %R	101			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1016	0.0	U	190.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1232	0.0	U	190.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1242	0.0	U	190.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1248	290		190.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1254	0.0	U	190.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1260	0.0	U	190.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	118			MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0246 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 023/6-7R**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	99			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Decachlorobiphenyl %R	99.4			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1016	0.0	U	290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1232	0.0	U	290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1242	0.0	U	290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1248	340		290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1254	0.0	U	290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1260	0.0	U	290.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	116			MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0247 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 023/10-11**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	98			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Decachlorobiphenyl %R	97.7			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1016	0.0	U	250.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1232	0.0	U	250.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1242	0.0	U	250.0	MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0247 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 023/10-11**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1248	1500		250.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1254	0.0	U	250.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1260	0.0	U	250.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	116			MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0248 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 023/11-12**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	98			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Decachlorobiphenyl %R	98.2			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1016	0.0	U	250.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1232	0.0	U	250.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1242	0.0	U	250.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1248	0.0	U	250.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1254	0.0	U	250.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1260	0.0	U	250.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	119			MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0249 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 024/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	98			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Decachlorobiphenyl %R	98.4			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1016	0.0	U	260.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1232	0.0	U	260.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1242	0.0	U	260.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1248	6900		260.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1254	0.0	U	260.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1260	0.0	U	260.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	116			MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0250 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 024/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Decachlorobiphenyl %R	100			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1016	0.0	U	240.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1232	0.0	U	240.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1242	0.0	U	240.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1248	6800		240.0	MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0250 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 024/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1254	0.0	U	240.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1260	0.0	U	240.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	119			MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0251 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 024/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Decachlorobiphenyl %R	101			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1016	0.0	U	200.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1232	0.0	U	200.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1242	0.0	U	200.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1248	690		200.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1254	0.0	U	200.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1260	0.0	U	200.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	119			MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0252 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 024/10-11**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	95			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Decachlorobiphenyl %R	94.9			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1016	0.0	U	190.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1232	0.0	U	190.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1242	0.0	U	190.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1248	380		190.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1254	0.0	U	190.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1260	0.0	U	190.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	116			MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0253 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 024/11-12**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	Decachlorobiphenyl %R	99.7			MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1016	0.0	U	220.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1232	0.0	U	220.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1242	0.0	U	220.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1248	0.0	U	220.0	MLDR110417001	4/17/2011 8:06:00 AM	CR
PCBs	PCB-1254	0.0	U	220.0	MLDR110417001	4/17/2011 8:06:00 AM	CR

11ML0253 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-SO 024/11-12**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1260	0.0	U	220.0	MLDR110417001	4/17/2011 8:08:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110417001	4/17/2011 8:08:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	118			MLDR110417001	4/17/2011 8:08:00 AM	CR

MLDE110416002BIn01 **Collection Date** 04/16/2011 **Sampled By:** TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	100			MLDR110417001		CR
Method Blank-PCBs	Decachlorobiphenyl %R	100			MLDR110417001		CR
Method Blank-PCBs	PCB-1016	0.0	U	280.0	MLDR110417001		CR
Method Blank-PCBs	PCB-1232	0.0	U	280.0	MLDR110417001		CR
Method Blank-PCBs	PCB-1242	0.0	U	280.0	MLDR110417001		CR
Method Blank-PCBs	PCB-1248	0.0	U	280.0	MLDR110417001		CR
Method Blank-PCBs	PCB-1254	0.0	U	280.0	MLDR110417001		CR
Method Blank-PCBs	PCB-1260	0.0	U	280.0	MLDR110417001		CR
Method Blank-PCBs	Tetrachloro-m-xylene	120			MLDR110417001		CR
Method Blank-PCBs	Tetrachloro-m-xylene %R	116			MLDR110417001		CR

Approved: 4/17/11
Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 04/18/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5BE.000.001
Report Title: StClair 1-9

NARRATIVE

Thirteen (13) water samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following thirteen (13) samples are included in this narrative:

11CT01-01	11CT01-02	11CT01-03	11CT01-04
11CT01-05	11CT01-06	11CT01-07	11CT01-08
11CT01-09	11CT01-10	11CT01-11	11CT01-12
11CT01-13			

PCBs Analysis

Sample Collection and Analysis

The samples were collected between April 12 and 16, 2011 and were analyzed on April 16 - 17, 2011 within the required hold times for PCBs.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 14, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

For continuing calibration run on April 16, 2011 the average response was within the QC limits of ± 35%.

The initial calibration for AR1248 was run on April 17, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110416003Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 60-140 %R for waters, with the exception of decachlorobiphenyl which was low in TMD-GW 006/5, TMD-GW 012/5, TMD-GW 013/3, TMD-GW 014/3, TMD-GW 015/7, TMD-GW 017/7, TMD-GW 024/5 R, TMD-GW 023/9, TMD-GW 024/5, and TMD-EB 001. No action is taken when only one surrogate is out of control.

Sample TMD-GW 008/5 was utilized as the matrix spike in this sample delivery group. The

Reviewed By: _____ Date: 4/18/11

Site Name: 10 Mile Drain
TDI# 5-314-001
Date Issued: 04/18/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5BE.000.001
Report Title: StClair 1-9

percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 4/18/11

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110416-001
Samples Received: 04/16/2011

11ML0254 **Collection Date** 04/12/2011 **Sampled By:**

Sample Description: **TMD-GW 008/5**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	60			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Decachlorobiphenyl %R	60.1			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1248	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene	82			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	81.5			MLDR110418001	4/18/2011 7:46:00 AM	CR

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	73			MLDR110418001	4/18/2011 7:47:00 AM	CR
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	73.1			MLDR110418001	4/18/2011 7:47:00 AM	CR
Matrix Spike-PCBs	PCB-1016	0.0	U	5.0	MLDR110418001	4/18/2011 7:47:00 AM	CR
Matrix Spike-PCBs	PCB-1232	0.0	U	5.0	MLDR110418001	4/18/2011 7:47:00 AM	CR
Matrix Spike-PCBs	PCB-1242	0.0	U	5.0	MLDR110418001	4/18/2011 7:47:00 AM	CR
Matrix Spike-PCBs	PCB-1248	48		5.0	MLDR110418001	4/18/2011 7:47:00 AM	CR
Matrix Spike-PCBs	PCB-1248 - % Recovery	95.7			MLDR110418001	4/18/2011 7:47:00 AM	CR
Matrix Spike-PCBs	PCB-1254	0.0	U	5.0	MLDR110418001	4/18/2011 7:47:00 AM	CR
Matrix Spike-PCBs	PCB-1260	0.0	U	5.0	MLDR110418001	4/18/2011 7:47:00 AM	CR
Matrix Spike-PCBs	Tetrachloro-m-xylene	92			MLDR110418001	4/18/2011 7:47:00 AM	CR
Matrix Spike-PCBs	Tetrachloro-m-xylene - % Recovery	91.9			MLDR110418001	4/18/2011 7:47:00 AM	CR

11ML0255 **Collection Date** 04/12/2011 **Sampled By:**

Sample Description: **TMD-GW 006/5**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	46			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Decachlorobiphenyl %R	45.6	J		MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1248	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene	110			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	110			MLDR110418001	4/18/2011 7:46:00 AM	CR

11ML0256 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-GW 010/6**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	68			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Decachlorobiphenyl %R	67.8			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1248	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene	79			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	79.1			MLDR110418001	4/18/2011 7:46:00 AM	CR

11ML0257 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-GW 011/2**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	77			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Decachlorobiphenyl %R	77.3			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1248	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene	110			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	107			MLDR110418001	4/18/2011 7:46:00 AM	CR

11ML0258 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-GW 012/5**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	24			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Decachlorobiphenyl %R	23.5	J		MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1248	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene	76			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	75.8			MLDR110418001	4/18/2011 7:46:00 AM	CR

11ML0259 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-GW 013/3**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	28			MLDR110418001	4/18/2011 7:46:00 AM	CR

11ML0259 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-GW 013/3**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	27.8	J		MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1248	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene	100			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	103			MLDR110418001	4/18/2011 7:46:00 AM	CR

11ML0260 **Collection Date** 04/13/2011 **Sampled By:**

Sample Description: **TMD-GW 014/3**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	27			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Decachlorobiphenyl %R	27.4	J		MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1248	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene	90			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	89.5			MLDR110418001	4/18/2011 7:46:00 AM	CR

11ML0261 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-GW 015/7**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	41			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Decachlorobiphenyl %R	41.3	J		MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1248	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene	87			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	87.0			MLDR110418001	4/18/2011 7:46:00 AM	CR

11ML0262 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-GW 017/7**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	40			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Decachlorobiphenyl %R	39.6	J		MLDR110418001	4/18/2011 7:46:00 AM	CR

11ML0262 **Collection Date** 04/14/2011 **Sampled By:**

Sample Description: **TMD-GW 017/7**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1016	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1248	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	120			MLDR110418001	4/18/2011 7:46:00 AM	CR

11ML0263 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-GW 024/5R**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	31			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Decachlorobiphenyl %R	31.4	J		MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1248	5.7		5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene	110			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	113			MLDR110418001	4/18/2011 7:46:00 AM	CR

11ML0264 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-GW 023/9**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	51			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Decachlorobiphenyl %R	50.9	J		MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1248	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene	110			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	113			MLDR110418001	4/18/2011 7:46:00 AM	CR

11ML0265 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-GW 024/5**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	22			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Decachlorobiphenyl %R	21.7	J		MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR

11ML0265 **Collection Date** 04/15/2011 **Sampled By:**

Sample Description: **TMD-GW 024/5**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1232	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1248	20		5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene	83			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	83.4			MLDR110418001	4/18/2011 7:46:00 AM	CR

11ML0266 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-EB 001**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	22			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Decachlorobiphenyl %R	22.3	J		MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1248	4.5	J	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene	79			MLDR110418001	4/18/2011 7:46:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	79.3			MLDR110418001	4/18/2011 7:46:00 AM	CR

MLDE110416003BIn01 **Collection Date** 04/16/2011 **Sampled By:** TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	81			MLDR110418001		CR
Method Blank-PCBs	Decachlorobiphenyl %R	81			MLDR110418001		CR
Method Blank-PCBs	PCB-1016	0.0	U	5.0	MLDR110418001		CR
Method Blank-PCBs	PCB-1232	0.0	U	5.0	MLDR110418001		CR
Method Blank-PCBs	PCB-1242	0.0	U	5.0	MLDR110418001		CR
Method Blank-PCBs	PCB-1248	0.0	U	5.0	MLDR110418001		CR
Method Blank-PCBs	PCB-1254	0.0	U	5.0	MLDR110418001		CR
Method Blank-PCBs	PCB-1260	0.0	U	5.0	MLDR110418001		CR
Method Blank-PCBs	Tetrachloro-m-xylene	110			MLDR110418001		CR
Method Blank-PCBs	Tetrachloro-m-xylene %R	108			MLDR110418001		CR

Approved: 4/18/11
Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 04/18/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5BE.000.001
Report Title: StClair 1-10

NARRATIVE

Sixteen (16) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following sixteen (16) samples are included in this narrative:

11CT02-16	11CT02-17	11CT02-18	11CT02-19
11CT02-20	11CT02-21	11CT02-22	11CT02-23
11CT02-24	11CT02-25	11CT02-26	11CT02-27
11CT02-28	11CT02-29	11CT02-30	11CT02-31

PCBs Analysis

Sample Collection and Analysis

The samples were collected April 16, 2011 and were analyzed on April 17, 2011 within the required hold times for PCBs.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 17, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110416004Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R

Sample TMD-SO 026/6-7 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

Sample TMD-SO 027/1-2 was run at a 5x dilution. Samples TMD-SO 027/10-11 and TMD-SO 027/10-11 R were run at a 10x dilution.

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present

Flag Description

Reviewed By: _____ Date: 4/18/11

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 04/18/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5BE.000.001
Report Title: StClair 1-10

J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: Laura DO Date: 4/18/11

11ML0286 Collection Date 04/16/2011 Sampled By:

Sample Description: **TMD-SO 025/6-7**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	140			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	142			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	520		270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	200			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	198	J		MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0287 Collection Date 04/16/2011 Sampled By:

Sample Description: **TMD-SO 029/1-2**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	103			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	280.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	280.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	280.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	5100		280.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	280.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	280.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	130			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	127			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0288 Collection Date 04/16/2011 Sampled By:

Sample Description: **TMD-SO 29/2-3**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	95			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	95.2			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	230	J	260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	130			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	126			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0289 Collection Date 04/16/2011 Sampled By:

Sample Description: **TMD-SO 029/6-7**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	94			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0289 Collection Date 04/16/2011 Sampled By:

Sample Description: **TMD-SO 029/6-7**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	93.6			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	240.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	240.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	240.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	0.0	U	240.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	240.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	240.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	125			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0290 Collection Date 04/16/2011 Sampled By:

Sample Description: **TMD-SO 029/12.2-13.1**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	120			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	117			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	9000		260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	0.0	U	260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	130			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	131			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0291 Collection Date 04/17/2011 Sampled By:

Sample Description: **TMD-SO 030/1-2**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	93			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	92.6			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	1900		260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	260.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	130			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	135			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0292 **Collection Date** 04/17/2011 **Sampled By:**

Sample Description: **TMD-SO 030/2-3**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	83			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	83.5			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	230.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	230.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	230.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	0.0	U	230.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	230.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	230.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	122			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0293 **Collection Date** 04/17/2011 **Sampled By:**

Sample Description: **TMD-SO 030/5-6**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	86			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	85.6			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	280.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	280.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	280.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	0.0	U	280.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	280.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	280.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	121			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0294 **Collection Date** 04/17/2011 **Sampled By:**

Sample Description: **TMD-SO 030/6-7**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	77			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	77.4			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	210.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	210.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	210.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	0.0	U	210.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	210.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	210.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	115			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0295 **Collection Date** 04/17/2011 **Sampled By:**

Sample Description: **TMD-SO 030/6-7 R**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	110			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0295 **Collection Date** 04/17/2011 **Sampled By:**

Sample Description: **TMD-SO 030/6-7 R**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	113			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	160			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	163	J		MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0296 **Collection Date** 04/17/2011 **Sampled By:**

Sample Description: **TMD-SO 030/10-11**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	99			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	99.0			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	290.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	290.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	290.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	1200		290.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	290.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	290.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	130			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	127			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0297 **Collection Date** 04/17/2011 **Sampled By:**

Sample Description: **TMD-SO 030/12.4-13.2**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	84			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	83.6			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	310.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	310.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	310.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	0.0	U	310.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	310.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	310.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	110			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	113			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0298 **Collection Date** 04/17/2011 **Sampled By:**

Sample Description: **TMD-SO 031/1-2**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	76			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	76.1			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0298 **Collection Date** 04/17/2011 **Sampled By:**

Sample Description: **TMD-SO 031/1-2**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1016	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	360		270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	122			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0299 **Collection Date** 04/17/2011 **Sampled By:**

Sample Description: **TMD-SO 031/2-3**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	85			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	85.3			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	290.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	290.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	290.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	0.0	U	290.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	290.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	290.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	125			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0300 **Collection Date** 04/17/2011 **Sampled By:**

Sample Description: **TMD-SO 031/2-3 R**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	104			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	310.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	310.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	310.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	0.0	U	310.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	310.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	310.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	160			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	155	J		MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0301 **Collection Date** 04/17/2011 **Sampled By:**

Sample Description: **TMD-SO 031/4-5**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	87			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	86.9			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	250.0	MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0301 **Collection Date** 04/17/2011 **Sampled By:**

Sample Description: **TMD-SO 031/4-5**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1232	0.0	U	250.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	250.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	0.0	U	250.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	250.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB 1260	0.0	U	250.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	140			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	137			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0302 **Collection Date** 04/17/2011 **Sampled By:**

Sample Description: **TMD-SO 031/5-6**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	92			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	91.5			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	330.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	330.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	330.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	700		330.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	330.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	330.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	160			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	155	J		MLDR110418003	4/18/2011 4:17:00 PM	CR

MLDE110417002Blnl01 **Collection Date** 04/17/2011 **Sampled By:** CR

Sample Description:
Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	97			MLDR110418003		CR
Method Blank-PCBs	Decachlorobiphenyl %R	97			MLDR110418003		CR
Method Blank-PCBs	PCB-1016	0.0	U	330.0	MLDR110418003		CR
Method Blank-PCBs	PCB-1232	0.0	U	330.0	MLDR110418003		CR
Method Blank-PCBs	PCB-1242	0.0	U	330.0	MLDR110418003		CR
Method Blank-PCBs	PCB-1248	0.0	U	330.0	MLDR110418003		CR
Method Blank-PCBs	PCB-1254	0.0	U	330.0	MLDR110418003		CR
Method Blank-PCBs	PCB-1260	0.0	U	330.0	MLDR110418003		CR
Method Blank-PCBs	Tetrachloro-m-xylene	130			MLDR110418003		CR
Method Blank-PCBs	Tetrachloro-m-xylene %R	127			MLDR110418003		CR

Approved: 4/18/11
Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 04/18/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5BE.000.001
Report Title: StClair 1-11

NARRATIVE

Twenty (20) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following twenty (20) samples are included in this narrative:

11CT02-32	11CT02-33	11CT02-34	11CT02-35
11CT02-36	11CT02-37	11CT02-38	11CT02-39
11CT02-40	11CT02-41	11CT02-42	11CT02-43
11CT02-44	11CT02-45	11CT02-46	11CT02-47
11CT02-48	11CT02-49	11CT02-50	11CT02-51

PCBs Analysis

Sample Collection and Analysis

The samples were collected between April 16 and 17, 2011 and were analyzed on April 17 and 18, 2011 within the required hold times for PCBs.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 17, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1242 was run on April 18, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110416004Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R with the exception of tetrachloro-m-xylene, which was high in TMD-SO 025/6-7, TMD-SO 030/6-7 R, TMD-SO 031/2-3 R, and TMD-SO 031/5-6. No action is taken when only one surrogate is out of control.

Samples TMD-SO 025/1-2 and TMD-SO 025/5-6 were run at a 10x dilution. Sample TMD-SO 025/2-3 was run at a 30x dilution.

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of

Reviewed By: _____ Date: 4/18/11

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 04/18/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5BE.000.001
Report Title: StClair 1-11

the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: [signature] Date: 4/18/11

EPA Region 5 Mobile Lab

Soils in µg/kg

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110417-001
Samples Received: 04/17/2011

11ML0283 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 025/1-2**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	92			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	92.2			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	300.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	300.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	300.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	74000		3,000.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	300.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	300.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	100			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	100			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0284 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 025/2-3**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	98			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	98.4			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	310.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	310.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	310.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	250000		9,300.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	310.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	310.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	100			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	104			MLDR110418003	4/18/2011 4:17:00 PM	CR

11ML0285 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 025/5-6** [redacted]

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Decachlorobiphenyl %R	101			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1016	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1232	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1242	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1248	55000		2,700.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1254	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110418003	4/18/2011 4:17:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	124			MLDR110418003	4/18/2011 4:17:00 PM	CR

[redacted]

EPA Region 5 Mobile Lab

10 Mile Drain Site

Soils in µg/kg

St Clair Shores, MI

Report Number: MLSG110416-002
Samples Received: 04/16/2011

11ML0267 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 026/1-2**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	110			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Decachlorobiphenyl %R	109			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1016	0.0	U	320.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1232	0.0	U	320.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1242	0.0	U	320.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1248	190	J	320.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1254	0.0	U	320.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1260	0.0	U	320.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene	130			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	133			MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0268 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 026/2-3**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Decachlorobiphenyl %R	103			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1016	0.0	U	320.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1232	0.0	U	320.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1242	0.0	U	320.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1248	1200		320.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1254	0.0	U	320.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1260	0.0	U	320.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene	130			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	127			MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0269 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 026/6-7**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	98			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Decachlorobiphenyl %R	98.2			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1016	0.0	U	310.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1232	0.0	U	310.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1242	0.0	U	310.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1248	1200		310.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1254	0.0	U	310.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1260	0.0	U	310.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene	130			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	132			MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0269 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 026/6-7**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	96			MLDR110418002	4/18/2011 11:37:00 AM	CR
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	95.8			MLDR110418002	4/18/2011 11:37:00 AM	CR
Matrix Spike-PCBs	PCB-1016	0.0	U	310.0	MLDR110418002	4/18/2011 11:37:00 AM	CR
Matrix Spike-PCBs	PCB-1232	0.0	U	310.0	MLDR110418002	4/18/2011 11:37:00 AM	CR
Matrix Spike-PCBs	PCB-1242	0.0	U	310.0	MLDR110418002	4/18/2011 11:37:00 AM	CR
Matrix Spike-PCBs	PCB-1248	4000		310.0	MLDR110418002	4/18/2011 11:37:00 AM	CR
Matrix Spike-PCBs	PCB-1248 - % Recovery	92.7			MLDR110418002	4/18/2011 11:37:00 AM	CR
Matrix Spike-PCBs	PCB-1254	0.0	U	310.0	MLDR110418002	4/18/2011 11:37:00 AM	CR
Matrix Spike-PCBs	PCB-1260	0.0	U	310.0	MLDR110418002	4/18/2011 11:37:00 AM	CR
Matrix Spike-PCBs	Tetrachloro-m-xylene	130			MLDR110418002	4/18/2011 11:37:00 AM	CR
Matrix Spike-PCBs	Tetrachloro-m-xylene - % Recovery	126			MLDR110418002	4/18/2011 11:37:00 AM	CR

11ML0270 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 026/10-11**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Decachlorobiphenyl %R	101			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1016	0.0	U	300.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1232	0.0	U	300.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1242	0.0	U	300.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1248	300		300.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1254	0.0	U	300.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1260	0.0	U	300.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene	130			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	125			MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0271 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 027/1-2**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	97			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Decachlorobiphenyl %R	97.3			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1016	0.0	U	320.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1232	0.0	U	320.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1242	0.0	U	320.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1248	35000		1,600.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1254	0.0	U	320.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1260	0.0	U	320.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene	110			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	108			MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0272 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 027/2-3**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	95			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Decachlorobiphenyl %R	95.3			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1016	0.0	U	290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1232	0.0	U	290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1242	0.0	U	290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1248	8200		290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1254	0.0	U	290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1260	0.0	U	290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	119			MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0273 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 027/6-7**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	89			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Decachlorobiphenyl %R	89.2			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1016	0.0	U	310.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1232	0.0	U	310.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1242	0.0	U	310.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1248	0.0	U	310.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1254	0.0	U	310.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1260	0.0	U	310.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene	130			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	126			MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0274 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 027/10-11**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	79			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Decachlorobiphenyl %R	79.2			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1016	0.0	U	300.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1232	0.0	U	300.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1242	0.0	U	300.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1248	63000		3,000.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1254	0.0	U	300.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1260	0.0	U	300.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene	110			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	105			MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0275 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 027/10-11 R**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	92			MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0275 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 027/10-11 R**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	91.6			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1016	0.0	U	270.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1232	0.0	U	270.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1242	0.0	U	270.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1248	65000		2,700.0	MLDR110418002	4/18/2011 11:36:00 AM	LED
PCBs	PCB-1254	0.0	U	270.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene	110			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	106			MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0276 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 027/12-13**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	93			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Decachlorobiphenyl %R	92.8			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1016	0.0	U	280.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1232	0.0	U	280.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1242	0.0	U	280.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1248	7700		280.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1254	0.0	U	280.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1260	0.0	U	280.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene	110			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	111			MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0277 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 028/1-2**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	89			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Decachlorobiphenyl %R	88.5			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1016	0.0	U	270.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1232	0.0	U	270.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1242	0.0	U	270.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1248	9300		270.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1254	0.0	U	270.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	120			MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0278 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 028/2-3**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	98			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Decachlorobiphenyl %R	98.1			MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0278 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 028/2-3**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1016	0.0	U	290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1232	0.0	U	290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1242	0.0	U	290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1248	270	J	290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1254	0.0	U	290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1260	0.0	U	290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene	130			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	126			MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0279 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 028/6-7**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	91			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Decachlorobiphenyl %R	91.0			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1016	0.0	U	290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1232	0.0	U	290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1242	0.0	U	290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1248	0.0	U	290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1254	0.0	U	290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1260	0.0	U	290.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	125			MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0280 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 028/10-11**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	99			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Decachlorobiphenyl %R	99.5			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1016	0.0	U	260.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1232	0.0	U	260.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1242	0.0	U	260.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1248	260	J	260.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1254	0.0	U	260.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1260	0.0	U	260.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	118			MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0281 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 028/10-11 R**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	89			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Decachlorobiphenyl %R	89.3			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1016	0.0	U	260.0	MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0281 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 028/10-11** R

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1232	0.0	U	260.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1242	0.0	U	260.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1248	0.0	U	260.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1254	0.0	U	260.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1260	0.0	U	260.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	120			MLDR110418002	4/18/2011 11:36:00 AM	CR

11ML0282 **Collection Date** 04/16/2011 **Sampled By:**

Sample Description: **TMD-SO 028/11-12**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	89			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Decachlorobiphenyl %R	88.8			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1016	0.0	U	300.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1232	0.0	U	300.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1242	0.0	U	300.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1248	0.0	U	300.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1254	0.0	U	300.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	PCB-1260	0.0	U	300.0	MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene	130			MLDR110418002	4/18/2011 11:36:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	128			MLDR110418002	4/18/2011 11:36:00 AM	CR

MLDE110416004B In01 **Collection Date** 04/16/2011 **Sampled By:** CR

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	110			MLDR110418002		CR
Method Blank-PCBs	Decachlorobiphenyl %R	110			MLDR110418002		CR
Method Blank-PCBs	PCB-1016	0.0	U	320.0	MLDR110418002		CR
Method Blank-PCBs	PCB-1232	0.0	U	320.0	MLDR110418002		CR
Method Blank-PCBs	PCB-1242	0.0	U	320.0	MLDR110418002		CR
Method Blank-PCBs	PCB-1248	0.0	U	320.0	MLDR110418002		CR
Method Blank-PCBs	PCB-1254	0.0	U	320.0	MLDR110418002		CR
Method Blank-PCBs	PCB-1260	0.0	U	320.0	MLDR110418002		CR
Method Blank-PCBs	Tetrachloro-m-xylene	140			MLDR110418002		CR
Method Blank-PCBs	Tetrachloro-m-xylene %R	139			MLDR110418002		CR

Approved: [signature] 4/18/11
Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 04/19/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5BE.000.001
Report Title: StClair 1-12

NARRATIVE

Twelve (12) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following twelve (12) samples are included in this narrative:

11CT02-52	11CT02-53	11CT02-54	11CT02-55
11CT02-56	11CT02-57	11CT02-58	11CT02-59
11CT02-60	11CT02-61	11CT02-62	11CT02-63

PCBs Analysis

Sample Collection and Analysis

The samples were collected on April 17, 2011 and were analyzed on April 18, 2011 within the required hold times for PCBs.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 18, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110418001Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R.

Sample TMD-SO 032/2-3 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 4/19/11

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110417-002
Samples Received: 04/17/2011

11ML0303 **Collection Date** 04/17/2011 **Sampled By:**

Sample Description: **TMD-SO 032/1-2**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	81			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Decachlorobiphenyl %R	80.6			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1016	0.0	U	290.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1232	0.0	U	290.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1242	0.0	U	290.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1248	2000		290.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1254	0.0	U	290.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1260	0.0	U	290.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene	84			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	84.2			MLDR110419001	4/19/2011 9:37:00 AM	CR

11ML0304 **Collection Date** 04/17/2011 **Sampled By:**

Sample Description: **TMD-SO 032/2-3**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	76			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Decachlorobiphenyl %R	76.1			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1016	0.0	U	250.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1232	0.0	U	250.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1242	0.0	U	250.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1248	0.0	U	250.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1254	0.0	U	250.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1260	0.0	U	250.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene	84			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	83.8			MLDR110419001	4/19/2011 9:37:00 AM	CR

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	77			MLDR110419001	4/19/2011 9:38:00 AM	CR
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	77.5			MLDR110419001	4/19/2011 9:38:00 AM	CR
Matrix Spike-PCBs	PCB-1016	0.0	U	250.0	MLDR110419001	4/19/2011 9:38:00 AM	CR
Matrix Spike-PCBs	PCB-1232	0.0	U	250.0	MLDR110419001	4/19/2011 9:38:00 AM	CR
Matrix Spike-PCBs	PCB-1242	0.0	U	250.0	MLDR110419001	4/19/2011 9:38:00 AM	CR
Matrix Spike-PCBs	PCB-1248	2100		250.0	MLDR110419001	4/19/2011 9:38:00 AM	CR
Matrix Spike-PCBs	PCB-1248 - % Recovery	210			MLDR110419001	4/19/2011 9:38:00 AM	CR
Matrix Spike-PCBs	PCB-1254	0.0	U	250.0	MLDR110419001	4/19/2011 9:38:00 AM	CR
Matrix Spike-PCBs	PCB-1260	0.0	U	250.0	MLDR110419001	4/19/2011 9:38:00 AM	CR
Matrix Spike-PCBs	Tetrachloro-m-xylene	86			MLDR110419001	4/19/2011 9:38:00 AM	CR
Matrix Spike-PCBs	Tetrachloro-m-xylene - % Recovery	85.6			MLDR110419001	4/19/2011 9:38:00 AM	CR

11ML0305 Collection Date 04/17/2011 Sampled By:

Sample Description: **TMD-SO 032/5-6**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	72			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Decachlorobiphenyl %R	71.6			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1016	0.0	U	270.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1232	0.0	U	270.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1242	0.0	U	270.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1248	0.0	U	270.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1254	0.0	U	270.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene	80			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	79.8			MLDR110419001	4/19/2011 9:37:00 AM	CR

11ML0306 Collection Date 04/17/2011 Sampled By:

Sample Description: **TMD-SO 032/6-7**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	55			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Decachlorobiphenyl %R	55.3			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1016	0.0	U	210.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1232	0.0	U	210.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1242	0.0	U	210.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1248	0.0	U	210.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1254	0.0	U	210.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1260	0.0	U	210.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene	74			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	73.7			MLDR110419001	4/19/2011 9:37:00 AM	CR

11ML0307 Collection Date 04/17/2011 Sampled By:

Sample Description: **TMD-SO 032/11.6-12.6**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	65			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Decachlorobiphenyl %R	65.3			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1016	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1232	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1242	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1248	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1254	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1260	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene	71			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	71.3			MLDR110419001	4/19/2011 9:37:00 AM	CR

11ML0308 Collection Date 04/17/2011 Sampled By:

Sample Description: **TMD-SO 033/1-2**

Soils in ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	73			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Decachlorobiphenyl %R	72.5			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1016	0.0	U	260.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1232	0.0	U	260.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1242	0.0	U	260.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1248	1200		260.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1254	0.0	U	260.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1260	0.0	U	260.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene	83			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	83.2			MLDR110419001	4/19/2011 9:37:00 AM	CR

11ML0309 Collection Date 04/17/2011 Sampled By:

Sample Description: **TMD-SO 033/2-3**

Soil in ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	74			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Decachlorobiphenyl %R	74.4			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1016	0.0	U	250.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1232	0.0	U	250.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1242	0.0	U	250.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1248	0.0	U	250.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1254	0.0	U	250.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1260	0.0	U	250.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene	88			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	88.0			MLDR110419001	4/19/2011 9:37:00 AM	CR

11ML0310 Collection Date 04/17/2011 Sampled By:

Sample Description: **TMD-SO 033/2-3 R**

Soil in ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	79			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Decachlorobiphenyl %R	79.0			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1016	0.0	U	300.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1232	0.0	U	300.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1242	0.0	U	300.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1248	0.0	U	300.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1254	0.0	U	300.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1260	0.0	U	300.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene	94			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	93.6			MLDR110419001	4/19/2011 9:37:00 AM	CR

11ML0311 Collection Date 04/17/2011 Sampled By:

Sample Description: **TMD-SO 033/5-6**

Soil in ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	72			MLDR110419001	4/19/2011 9:37:00 AM	CR

11ML0311 Collection Date 04/17/2011 Sampled By:

Sample Description: **TMD-SO 033/5-6**

Soil in ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	72.1			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1016	0.0	U	260.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1232	0.0	U	260.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1242	0.0	U	260.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1248	0.0	U	260.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1254	0.0	U	260.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1260	0.0	U	260.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene	88			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	87.5			MLDR110419001	4/19/2011 9:37:00 AM	CR

11ML0312 Collection Date 04/17/2011 Sampled By:

Sample Description: **TMD-SO 033/6-7**

Soil in ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	55			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Decachlorobiphenyl %R	54.9			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1016	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1232	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1242	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1248	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1254	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1260	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene	67			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	67.3			MLDR110419001	4/19/2011 9:37:00 AM	CR

11ML0313 Collection Date 04/17/2011 Sampled By:

Sample Description: **TMD-SO 034/1-2**

Soil in ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	60			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Decachlorobiphenyl %R	60.2			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1016	0.0	U	230.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1232	0.0	U	230.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1242	0.0	U	230.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1248	220	J	230.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1254	0.0	U	230.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1260	0.0	U	230.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene	81			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	80.5			MLDR110419001	4/19/2011 9:37:00 AM	CR

11ML0314 Collection Date 04/17/2011 Sampled By:

Sample Description: **TMD-SO 034/2-3**

Soil in ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	72			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Decachlorobiphenyl %R	72.0			MLDR110419001	4/19/2011 9:37:00 AM	CR

11ML0314 **Collection Date** 04/17/2011 **Sampled By:**

Sample Description: **TMD-SO 034/2-3**

Soil in ug/Kg

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1016	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1232	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1242	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1248	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1254	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	PCB-1260	0.0	U	310.0	MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene	89			MLDR110419001	4/19/2011 9:37:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	89.4			MLDR110419001	4/19/2011 9:37:00 AM	CR

Report Number:
Samples Received:
Page 5 of 5

MLDE110418001Blnd1 **Collection Date** 04/18/2011 **Sampled By:** CR

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	76			MLDR110419001		CR
Method Blank-PCBs	Decachlorobiphenyl %R	76			MLDR110419001		CR
Method Blank-PCBs	PCB-1016	0.0	U	270.0	MLDR110419001		CR
Method Blank-PCBs	PCB-1232	0.0	U	270.0	MLDR110419001		CR
Method Blank-PCBs	PCB-1242	0.0	U	270.0	MLDR110419001		CR
Method Blank-PCBs	PCB-1248	0.0	U	270.0	MLDR110419001		CR
Method Blank-PCBs	PCB-1254	0.0	U	270.0	MLDR110419001		CR
Method Blank-PCBs	PCB-1260	0.0	U	270.0	MLDR110419001		CR
Method Blank-PCBs	Tetrachloro-m-xylene	87			MLDR110419001		CR
Method Blank-PCBs	Tetrachloro-m-xylene %R	87.4			MLDR110419001		CR

Approved: 4/19/11

Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 04/20/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5BE.000.001
Report Title: StClair 1-13

NARRATIVE

Twenty (20) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following twenty (20) samples are included in this narrative:

11CT02-64	11CT02-65	11CT02-66	11CT02-67
11CT02-68	11CT02-69	11CT02-70	11CT02-71
11CT02-72	11CT02-73	11CT02-74	11CT02-75
11CT02-76	11CT02-77	11CT02-78	11CT02-79
11CT02-80	11CT02-81	11CT02-82	11CT02-83

PCBs Analysis

Sample Collection and Analysis

The samples were collected on April 18, 2011 and were analyzed on April 19, 2011 within the required hold times for PCBs.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 18, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The continuing calibration for AR1248 was run on April 19, 2011 and all compounds met the calibration criteria of <35% D (deviation).

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110419001Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R with the exception of decachlorobiphenyl, which was low in TMD-SO 035/5-6 R, TMD-SO 036/5-5.5, TMD-SO 037/1-2, TMD-SO 037/2-3, TMD-SO 037/7.3-8, TMD-SO 037/11.2-12.2, TMD-SO 038/2.5-3.5, TMD-SO 038/5-6, and TMD-SO 038/11.4-12.4. No action is taken when only one surrogate is out of control.

Sample TMD-SO 036/1-2 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

Reviewed By: [signature] Date: 4/20/11

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 04/20/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5BE.000.001
Report Title: StClair 1-13

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: [signature] Date: 4/20/11

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110419-001
Samples Received: 04/19/2011

11ML0315 **Collection Date** 04/18/2011 **Sampled By:**

Sample Description: **TMD-SO 035/1-2 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	59			MLDR110420001	4/20/2011 8:50:00 AM	CR
PCBs	Decachlorobiphenyl %R	58.9			MLDR110420001	4/20/2011 8:50:00 AM	CR
PCBs	PCB-1016	0.0	U	260.0	MLDR110420001	4/20/2011 8:50:00 AM	CR
PCBs	PCB-1232	0.0	U	260.0	MLDR110420001	4/20/2011 8:50:00 AM	CR
PCBs	PCB-1242	0.0	U	260.0	MLDR110420001	4/20/2011 8:50:00 AM	CR
PCBs	PCB-1248	590		260.0	MLDR110420001	4/20/2011 8:50:00 AM	CR
PCBs	PCB-1254	0.0	U	260.0	MLDR110420001	4/20/2011 8:50:00 AM	CR
PCBs	PCB-1260	0.0	U	260.0	MLDR110420001	4/20/2011 8:50:00 AM	CR
PCBs	Tetrachloro-m-xylene	84			MLDR110420001	4/20/2011 8:50:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	84.1			MLDR110420001	4/20/2011 8:50:00 AM	CR

11ML0316 **Collection Date** 04/18/2011 **Sampled By:**

Sample Description: **TMD-SO 035/2-3 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	63			MLDR110420001	4/20/2011 8:51:00 AM	CR
PCBs	Decachlorobiphenyl %R	63.4			MLDR110420001	4/20/2011 8:51:00 AM	CR
PCBs	PCB-1016	0.0	U	270.0	MLDR110420001	4/20/2011 8:51:00 AM	CR
PCBs	PCB-1232	0.0	U	270.0	MLDR110420001	4/20/2011 8:51:00 AM	CR
PCBs	PCB-1242	0.0	U	270.0	MLDR110420001	4/20/2011 8:51:00 AM	CR
PCBs	PCB-1248	220	J	270.0	MLDR110420001	4/20/2011 8:51:00 AM	CR
PCBs	PCB-1254	0.0	U	270.0	MLDR110420001	4/20/2011 8:51:00 AM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110420001	4/20/2011 8:51:00 AM	CR
PCBs	Tetrachloro-m-xylene	86			MLDR110420001	4/20/2011 8:51:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	86.2			MLDR110420001	4/20/2011 8:51:00 AM	CR

11ML0317 **Collection Date** 04/18/2011 **Sampled By:**

Sample Description: **TMD-SO 035/5-6 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	54			MLDR110420001	4/20/2011 8:52:00 AM	CR
PCBs	Decachlorobiphenyl %R	54.4			MLDR110420001	4/20/2011 8:52:00 AM	CR
PCBs	PCB-1016	0.0	U	250.0	MLDR110420001	4/20/2011 8:52:00 AM	CR
PCBs	PCB-1232	0.0	U	250.0	MLDR110420001	4/20/2011 8:52:00 AM	CR
PCBs	PCB-1242	0.0	U	250.0	MLDR110420001	4/20/2011 8:52:00 AM	CR
PCBs	PCB-1248	650		250.0	MLDR110420001	4/20/2011 8:52:00 AM	CR
PCBs	PCB-1254	0.0	U	250.0	MLDR110420001	4/20/2011 8:52:00 AM	CR
PCBs	PCB-1260	0.0	U	250.0	MLDR110420001	4/20/2011 8:52:00 AM	CR
PCBs	Tetrachloro-m-xylene	78			MLDR110420001	4/20/2011 8:52:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	78.1			MLDR110420001	4/20/2011 8:52:00 AM	CR

11ML0318 **Collection Date** 04/18/2011 **Sampled By:**

Sample Description: **TMD-SO 035/5-6 R (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	50			MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	Decachlorobiphenyl %R	49.7	J		MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	PCB-1016	0.0	U	230.0	MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	PCB-1232	0.0	U	230.0	MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	PCB-1242	0.0	U	230.0	MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	PCB-1248	350		230.0	MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	PCB-1254	0.0	U	230.0	MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	PCB-1260	0.0	U	230.0	MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	Tetrachloro-m-xylene	68			MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	67.7			MLDR110420001	4/20/2011 8:53:00 AM	CR

11ML0319 **Collection Date** 04/18/2011 **Sampled By:**

Sample Description: **TMD-SO 035/6-7 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	57			MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	Decachlorobiphenyl %R	57.4			MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	PCB-1016	0.0	U	260.0	MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	PCB-1232	0.0	U	260.0	MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	PCB-1242	0.0	U	260.0	MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	PCB-1248	0.0	U	260.0	MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	PCB-1254	0.0	U	260.0	MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	PCB-1260	0.0	U	260.0	MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	Tetrachloro-m-xylene	68			MLDR110420001	4/20/2011 8:53:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	67.7			MLDR110420001	4/20/2011 8:53:00 AM	CR

11ML0320 **Collection Date** 04/18/2011 **Sampled By:**

Sample Description: **TMD-SO 035/12-13 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	50			MLDR110420001	4/20/2011 8:54:00 AM	CR
PCBs	Decachlorobiphenyl %R	50.2			MLDR110420001	4/20/2011 8:54:00 AM	CR
PCBs	PCB-1016	0.0	U	270.0	MLDR110420001	4/20/2011 8:54:00 AM	CR
PCBs	PCB-1232	0.0	U	270.0	MLDR110420001	4/20/2011 8:54:00 AM	CR
PCBs	PCB-1242	0.0	U	270.0	MLDR110420001	4/20/2011 8:54:00 AM	CR
PCBs	PCB-1248	0.0	U	270.0	MLDR110420001	4/20/2011 8:54:00 AM	CR
PCBs	PCB-1254	0.0	U	270.0	MLDR110420001	4/20/2011 8:54:00 AM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110420001	4/20/2011 8:54:00 AM	CR
PCBs	Tetrachloro-m-xylene	66			MLDR110420001	4/20/2011 8:54:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	66.1			MLDR110420001	4/20/2011 8:54:00 AM	CR

11ML0321 **Collection Date** 04/18/2011 **Sampled By:**

Sample Description: **TMD-SO 036/1-2 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	76			MLDR110420001	4/20/2011 8:55:00 AM	CR

11ML0321 Collection Date 04/18/2011 Sampled By:

Sample Description: TMD-SO 036/1-2 (ug/Kg)

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	76.5			MLDR110420001	4/20/2011 8:55:00 AM	CR
PCBs	PCB-1016	0.0	U	290.0	MLDR110420001	4/20/2011 8:55:00 AM	CR
PCBs	PCB-1232	0.0	U	290.0	MLDR110420001	4/20/2011 8:55:00 AM	CR
PCBs	PCB-1242	0.0	U	290.0	MLDR110420001	4/20/2011 8:55:00 AM	CR
PCBs	PCB-1248	1600		290.0	MLDR110420001	4/20/2011 8:55:00 AM	CR
PCBs	PCB-1254	0.0	U	290.0	MLDR110420001	4/20/2011 8:55:00 AM	CR
PCBs	PCB-1260	0.0	U	290.0	MLDR110420001	4/20/2011 8:55:00 AM	CR
PCBs	Tetrachloro-m-xylene	90			MLDR110420001	4/20/2011 8:55:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	89.7			MLDR110420001	4/20/2011 8:55:00 AM	CR

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	72			MLDR110420001	4/20/2011 8:55:00 AM	CR
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	72.0			MLDR110420001	4/20/2011 8:55:00 AM	CR
Matrix Spike-PCBs	PCB-1016	0.0	U	270.0	MLDR110420001	4/20/2011 8:55:00 AM	CR
Matrix Spike-PCBs	PCB-1232	0.0	U	270.0	MLDR110420001	4/20/2011 8:55:00 AM	CR
Matrix Spike-PCBs	PCB-1242	0.0	U	270.0	MLDR110420001	4/20/2011 8:55:00 AM	CR
Matrix Spike-PCBs	PCB-1248	5500		270.0	MLDR110420001	4/20/2011 8:55:00 AM	CR
Matrix Spike-PCBs	PCB-1248 - % Recovery	143			MLDR110420001	4/20/2011 8:55:00 AM	CR
Matrix Spike-PCBs	PCB-1254	0.0	U	270.0	MLDR110420001	4/20/2011 8:55:00 AM	CR
Matrix Spike-PCBs	PCB-1260	0.0	U	270.0	MLDR110420001	4/20/2011 8:55:00 AM	CR
Matrix Spike-PCBs	Tetrachloro-m-xylene	100			MLDR110420001	4/20/2011 8:55:00 AM	CR
Matrix Spike-PCBs	Tetrachloro-m-xylene - % Recovery	99.5			MLDR110420001	4/20/2011 8:55:00 AM	CR

11ML0322 Collection Date 04/18/2011 Sampled By:

Sample Description: TMD-SO 036/2-3

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	61			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Decachlorobiphenyl %R	61.4			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1016	0.0	U	240.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1232	0.0	U	240.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1242	0.0	U	240.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1248	0.0	U	240.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1254	0.0	U	240.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1260	0.0	U	240.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene	87			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	87.2			MLDR110420001	4/20/2011 9:01:00 AM	CR

11ML0323 Collection Date 04/18/2011 Sampled By:

Sample Description: TMD-SO 036/5-5.5 (ug/Kg)

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	41			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Decachlorobiphenyl %R	41.4	J		MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1016	0.0	U	230.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1232	0.0	U	230.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1242	0.0	U	230.0	MLDR110420001	4/20/2011 9:01:00 AM	CR

11ML0323 Collection Date 04/18/2011 Sampled By:

Sample Description: **TMD-SO 036/5-5.5 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1248	0.0	U	230.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1254	0.0	U	230.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1260	0.0	U	230.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene	59			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	59.2			MLDR110420001	4/20/2011 9:01:00 AM	CR

11ML0324 Collection Date 04/18/2011 Sampled By:

Sample Description: **TMD-SO 036/11.8-12.8 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphonyl	52			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Decachlorobiphenyl %R	51.8			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1016	0.0	U	250.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1232	0.0	U	250.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1242	0.0	U	250.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1248	0.0	U	250.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1254	0.0	U	250.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1260	0.0	U	250.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene	62			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	62.3			MLDR110420001	4/20/2011 9:01:00 AM	CR

11ML0325 Collection Date 04/18/2011 Sampled By:

Sample Description: **TMD-SO 037/1-2 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	47			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Decachlorobiphenyl %R	46.6	J		MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1016	0.0	U	260.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1232	0.0	U	260.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1242	0.0	U	260.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1248	0.0	U	260.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1254	0.0	U	260.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1260	0.0	U	260.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene	74			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	73.9			MLDR110420001	4/20/2011 9:01:00 AM	CR

11ML0326 Collection Date 04/18/2011 Sampled By:

Sample Description: **TMD-SO 037/2-3 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	42			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Decachlorobiphenyl %R	42.4	J		MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1016	0.0	U	210.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1232	0.0	U	210.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1242	0.0	U	210.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1248	0.0	U	210.0	MLDR110420001	4/20/2011 9:01:00 AM	CR

11ML0326 Collection Date 04/18/2011 Sampled By:

Sample Description: **TMD-SO 037/2-3 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1254	0.0	U	210.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1260	0.0	U	210.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene	72			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	72.2			MLDR110420001	4/20/2011 9:01:00 AM	CR

11ML0327 Collection Date 04/18/2011 Sampled By:

Sample Description: **TMD-SO 2-3 R (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	52			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Decachlorobiphenyl %R	51.9			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1016	0.0	U	220.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1232	0.0	U	220.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1242	0.0	U	220.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1248	0.0	U	220.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1254	0.0	U	220.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1260	0.0	U	220.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene	72			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	72.1			MLDR110420001	4/20/2011 9:01:00 AM	CR

11ML0328 Collection Date 04/18/2011 Sampled By:

Sample Description: **TMD-SO 037/5-5.9 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	57			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Decachlorobiphenyl %R	56.8			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1016	0.0	U	300.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1232	0.0	U	300.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1242	0.0	U	300.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1248	0.0	U	300.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1254	0.0	U	300.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1260	0.0	U	300.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene	71			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	70.5			MLDR110420001	4/20/2011 9:01:00 AM	CR

11ML0329 Collection Date 04/18/2011 Sampled By:

Sample Description: **TMD-SO 037/7.3-8 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	43			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Decachlorobiphenyl %R	43.1	J		MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1016	0.0	U	320.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1232	0.0	U	320.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1242	0.0	U	320.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1248	410		320.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1254	0.0	U	320.0	MLDR110420001	4/20/2011 9:01:00 AM	CR

11ML0329 Collection Date 04/18/2011 Sampled By:

Sample Description: **TMD-SO 037/7.3-8 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1260	0.0	U	320.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene	67			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	67.1			MLDR110420001	4/20/2011 9:01:00 AM	CR

11ML0330 Collection Date 04/18/2011 Sampled By:

Sample Description: **TMD-SO 037/11.2-12.2 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	35			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Decachlorobiphenyl %R	35.2	J		MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1016	0.0	U	240.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1232	0.0	U	240.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1242	0.0	U	240.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1248	440		240.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1254	0.0	U	240.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1260	0.0	U	240.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene	62			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	62.5			MLDR110420001	4/20/2011 9:01:00 AM	CR

11ML0331 Collection Date 04/18/2011 Sampled By:

Sample Description: **TMD-SO 038/1-2 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	53			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Decachlorobiphenyl %R	52.8			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1016	0.0	U	260.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1232	0.0	U	260.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1242	0.0	U	260.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1248	0.0	U	260.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1254	0.0	U	260.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1260	0.0	U	260.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene	78			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	78.3			MLDR110420001	4/20/2011 9:01:00 AM	CR

11ML0332 Collection Date 04/18/2011 Sampled By:

Sample Description: **TMD-SO 038/2.5-3.5 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	48			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Decachlorobiphenyl %R	47.8	J		MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1016	0.0	U	200.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1232	0.0	U	200.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1242	0.0	U	200.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1248	0.0	U	200.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1254	0.0	U	200.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1260	0.0	U	200.0	MLDR110420001	4/20/2011 9:01:00 AM	CR

11ML0332 Collection Date 04/18/2011 Sampled By:

Sample Description: **TMD-SO 038/2.5-3.5 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Tetrachloro-m-xylene	81			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	80.6			MLDR110420001	4/20/2011 9:01:00 AM	CR

11ML0333 Collection Date 04/18/2011 Sampled By:

Sample Description: **TMD-SO 038/5-6 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	31			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Decachlorobiphenyl %R	30.7	J		MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1016	0.0	U	320.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1232	0.0	U	320.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1242	0.0	U	320.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1248	0.0	U	320.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1254	0.0	U	320.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1260	0.0	U	320.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene	50			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	50.1			MLDR110420001	4/20/2011 9:01:00 AM	CR

11ML0334 Collection Date 04/18/2011 Sampled By:

Sample Description: **TMD-SO 038/11.4-12.4 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	48			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Decachlorobiphenyl %R	48.0			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1016	0.0	U	250.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1232	0.0	U	250.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1242	0.0	U	250.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1248	0.0	U	250.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1254	0.0	U	250.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	PCB-1260	0.0	U	250.0	MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene	71			MLDR110420001	4/20/2011 9:01:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	71.3			MLDR110420001	4/20/2011 9:01:00 AM	CR

MLDE110419001BIn01 Collection Date 04/19/2011 Sampled By: CR

Sample Description:
Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	58			MLDR110420001		CR
Method Blank-PCBs	Decachlorobiphenyl %R	58			MLDR110420001		CR
Method Blank-PCBs	PCB-1016	0.0	U	260.0	MLDR110420001		CR
Method Blank-PCBs	PCB-1232	0.0	U	260.0	MLDR110420001		CR
Method Blank-PCBs	PCB-1242	0.0	U	260.0	MLDR110420001		CR
Method Blank-PCBs	PCB-1248	0.0	U	260.0	MLDR110420001		CR
Method Blank-PCBs	PCB-1254	0.0	U	260.0	MLDR110420001		CR

MLDE110419001B In01 Collection Date 04/19/2011 Sampled By: CR

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	PCB-1260	0.0	U	260.0	MLDR110420001		CR
Method Blank-PCBs	Tetrachloro-m-xylene	81			MLDR110420001		CR
Method Blank-PCBs	Tetrachloro-m-xylene %R	81.4			MLDR110420001		CR

Approved: 4/20/11

Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 04/20/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5BE.000.001
Report Title: StClair 1-14

NARRATIVE

Five (5) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following five (5) samples are included in this narrative:

11CT02-84	11CT02-85	11CT02-86	11CT02-87
11CT02-88			

PCBs Analysis

Sample Collection and Analysis

The samples were collected on April 18, 2011 and were analyzed on April 19, 2011 within the required hold times for PCBs.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 18, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The continuing calibration for AR1248 was run on April 19, 2011 and all compounds met the calibration criteria of <35% D (deviation).

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110419002Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R with the exception of decachlorobiphenyl, which was low in TMD-SO 039/1-2, TMD-SO 039/2-3, and TMD-SO 039/5-6. No action is taken when only one surrogate is out of control.

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: [signature] Date: 4/20/11

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110419-001
Samples Received: 04/19/2011

11ML0335 **Collection Date** 04/18/2011 **Sampled By:**

Sample Description: **TMD-SO 039/1-2 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	48			MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	Decachlorobiphenyl %R	47.8	J		MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1016	0.0	U	300.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1232	0.0	U	300.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1242	0.0	U	300.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1248	0.0	U	300.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1254	0.0	U	300.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1260	0.0	U	300.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	Tetrachloro-m-xylene	77			MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	76.9			MLDR110420002	4/20/2011 9:12:00 AM	CR

11ML0336 **Collection Date** 04/18/2011 **Sampled By:**

Sample Description: **TMD-SO 039/2-3 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	44			MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	Decachlorobiphenyl %R	43.6	J		MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1016	0.0	U	300.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1232	0.0	U	300.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1242	0.0	U	300.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1248	0.0	U	300.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1254	0.0	U	300.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1260	0.0	U	300.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	Tetrachloro-m-xylene	81			MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	80.6			MLDR110420002	4/20/2011 9:12:00 AM	CR

11ML0337 **Collection Date** 04/18/2011 **Sampled By:**

Sample Description: **TMD-SO 039/3-4 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	54			MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	Decachlorobiphenyl %R	54.3			MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1016	0.0	U	220.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1232	0.0	U	220.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1242	0.0	U	220.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1248	0.0	U	220.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1254	0.0	U	220.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1260	0.0	U	220.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	Tetrachloro-m-xylene	70			MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	69.8			MLDR110420002	4/20/2011 9:12:00 AM	CR

11ML0338 Collection Date 04/18/2011 Sampled By:

Sample Description: **TMD-SO 039/4-5 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	53			MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	Decachlorobiphenyl %R	53.2			MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1016	0.0	U	230.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1232	0.0	U	230.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1242	0.0	U	230.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1248	0.0	U	230.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1254	0.0	U	230.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1260	0.0	U	230.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	Tetrachloro-m-xylene	65			MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	64.9			MLDR110420002	4/20/2011 9:12:00 AM	CR

11ML0339 Collection Date 04/18/2011 Sampled By:

Sample Description: **TMD-SO 039/5-6**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	45			MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	Decachlorobiphenyl %R	44.8	J		MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1016	0.0	U	270.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1232	0.0	U	270.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1242	0.0	U	270.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1248	0.0	U	270.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1254	0.0	U	270.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	Tetrachloro-m-xylene	69			MLDR110420002	4/20/2011 9:12:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	69.3			MLDR110420002	4/20/2011 9:12:00 AM	CR

MLDE110419002B1n01 Collection Date 04/19/2011 Sampled By: CR

Sample Description:
Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	70			MLDR110420002		CR
Method Blank-PCBs	Decachlorobiphenyl %R	70			MLDR110420002		CR
Method Blank-PCBs	PCB-1016	0.0	U	270.0	MLDR110420002		CR
Method Blank-PCBs	PCB-1232	0.0	U	270.0	MLDR110420002		CR
Method Blank-PCBs	PCB-1242	0.0	U	270.0	MLDR110420002		CR
Method Blank-PCBs	PCB-1248	0.0	U	270.0	MLDR110420002		CR
Method Blank-PCBs	PCB-1254	0.0	U	270.0	MLDR110420002		CR
Method Blank-PCBs	PCB-1260	0.0	U	270.0	MLDR110420002		CR
Method Blank-PCBs	Tetrachloro-m-xylene	110			MLDR110420002		CR
Method Blank-PCBs	Tetrachloro-m-xylene %R	107			MLDR110420002		CR

Approved: 4/20/11
Quality Control Officer

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110420-002
Samples Received: 04/20/2011

11ML0373 **Collection Date** 04/19/2011 **Sampled By:**

Sample Description: **TMD-SO 043/2-3 R (ug/Kg)**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	83			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	82.7			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	U	280.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	U	280.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	U	280.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	450		280.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	U	280.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	U	280.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	100			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	104			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0374 **Collection Date** 04/19/2011 **Sampled By:**

Sample Description: **TMD-SO 043/6-7 (ug/Kg)**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	110			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	106			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	110			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	110			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0375 **Collection Date** 04/19/2011 **Sampled By:**

Sample Description: **TMD-SO 043/10-11 (ug/Kg)**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	78			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	78.3			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	U	280.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	U	280.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	U	280.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	570		280.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	U	280.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	U	280.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	110			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	114			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0376 **Collection Date** 04/19/2011 **Sampled By:**

Sample Description: **TMD-SO 043/11-12 (ug/Kg)**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	100			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	U	310.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	U	310.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	U	310.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	0.0	U	310.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	U	310.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	U	310.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	120			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	121			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0377 **Collection Date** 04/20/2011 **Sampled By:**

Sample Description: **TMD-SO 044/1-2 (ug/Kg)**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	50			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	50.3			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	79			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	79.5			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0378 **Collection Date** 04/20/2011 **Sampled By:**

Sample Description: **TMD-SO 044/1-2 R (ug/Kg)**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	85			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	84.5			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	U	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	U	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	U	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	0.0	U	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	U	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	U	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	82			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	81.7			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0379 **Collection Date** 04/20/2011 **Sampled By:**

Sample Description: **TMD-SO 044/2-3 (ug/Kg)**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	53			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	52.8			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	U	260.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	U	260.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	U	260.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	0.0	U	260.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	U	260.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	U	260.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	83			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	83.4			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0380 **Collection Date** 04/20/2011 **Sampled By:**

Sample Description: **TMD-SO 045/1-2 (ug/Kg)**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	23			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	23.4	J		MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	UJ	180.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	UJ	180.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	UJ	180.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	0.0	UJ	180.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	UJ	180.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	UJ	180.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	40			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	40.4	J		MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0381 **Collection Date** 04/20/2011 **Sampled By:**

Sample Description: **TMD-SO 045/2-3 (ug/Kg)**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	15			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	15.2	J		MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	UJ	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	UJ	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	UJ	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	0.0	UJ	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	UJ	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	UJ	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	36			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	36.4	J		MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0382 **Collection Date** 04/20/2011 **Sampled By:**

Sample Description: **TMD-SO 046/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	60			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	60.5			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	U	240.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	U	240.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	U	240.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	1500		240.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	U	240.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	U	240.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	73			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	72.7			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0383 **Collection Date** 04/20/2011 **Sampled By:**

Sample Description: **TMD-SO 046/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	58			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	57.9			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	66			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	65.8			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0384 **Collection Date** 04/20/2011 **Sampled By:**

Sample Description: **TMD-SO 046/4-4.8**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	51			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	50.7			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	59			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	58.9			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0385 **Collection Date** 04/20/2011 **Sampled By:**

Sample Description: **TMD-SO 046/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	61			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0385 Collection Date 04/20/2011 Sampled By:

Sample Description: **TMD-SO 046/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	61.2			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	U	230.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	75			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	74.8			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0386 Collection Date 04/20/2011 Sampled By:

Sample Description: **TMD-SO 046/8-9**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	83			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	83.1			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	U	220.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	U	220.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	U	220.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	0.0	U	220.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	U	220.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	U	220.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	83			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	83.3			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0387 Collection Date 04/20/2011 Sampled By:

Sample Description: **TMD-SO 046/10-11**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	78			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	78.3			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	U	320.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	U	320.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	U	320.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	0.0	U	320.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	U	320.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	U	320.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	81			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	81.2			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0388 Collection Date 04/20/2011 Sampled By:

Sample Description: **TMD-SO 047/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	85			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	84.9			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0388 Collection Date 04/20/2011 Sampled By:

Sample Description: **TMD-SO 047/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1016	0.0	U	240.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	U	240.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	U	240.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	0.0	U	240.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	U	240.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	U	240.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	87			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	86.9			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0389 Collection Date 04/20/2011 Sampled By:

Sample Description: **TMD-SO 047/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	63			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	63.5			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	78			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	78.2			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0390 Collection Date 04/20/2011 Sampled By:

Sample Description: **TMD-SO 047/4-5**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	84			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	83.9			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	U	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1232	0.0	U	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	U	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	0.0	U	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	U	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	U	210.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	88			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	88.3			MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0391 Collection Date 04/20/2011 Sampled By:

Sample Description: **TMD-SO 047/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	90			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Decachlorobiphenyl %R	90.2			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1016	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR

11ML0391 **Collection Date** 04/20/2011 **Sampled By:**

Sample Description: **TMD-SO 047/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1232	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1242	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1248	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1254	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene	86			MLDR110426001	4/26/2011 5:11:00 PM	CR
PCBs	Tetrachloro-m-xylene %R	86.4			MLDR110426001	4/26/2011 5:11:00 PM	CR

MLDE110420003BIn01 **Collection Date** 04/20/2011 **Sampled By:** CR

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	75			MLDR110426001		CR
Method Blank-PCBs	Decachlorobiphenyl %R	75			MLDR110426001		CR
Method Blank-PCBs	PCB-1016	0.0	U	210.0	MLDR110426001		CR
Method Blank-PCBs	PCB-1232	0.0	U	210.0	MLDR110426001		CR
Method Blank-PCBs	PCB-1242	0.0	U	210.0	MLDR110426001		CR
Method Blank-PCBs	PCB-1248	0.0	U	210.0	MLDR110426001		CR
Method Blank-PCBs	PCB-1254	0.0	U	210.0	MLDR110426001		CR
Method Blank-PCBs	PCB-1260	0.0	U	210.0	MLDR110426001		CR
Method Blank-PCBs	Tetrachloro-m-xylene	96			MLDR110426001		CR
Method Blank-PCBs	Tetrachloro-m-xylene %R	96.2			MLDR110426001		CR

Approved: _____
Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 04/21/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5BE.000.001
Report Title: StClair 1-15

NARRATIVE

Twenty (20) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following twenty (20) samples are included in this narrative:

11CT03-01	11CT03-02	11CT03-03	11CT03-04
11CT03-05	11CT03-06	11CT03-07	11CT03-08
11CT03-09	11CT03-10	11CT03-11	11CT03-12
11CT03-13	11CT03-14	11CT03-15	11CT03-16
11CT03-17	11CT03-18	11CT03-19	11CT03-20

PCBs Analysis

Sample Collection and Analysis

The samples were collected on April 19, 2011 and were analyzed on April 20, 2011 within the required hold times for PCBs.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 20, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110419002Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R with the exception of decachlorobiphenyl, which was low in TMD-SO 040/10-11, TMD-SO 041/1-2, TMD-SO 041/4-5, and TMD-SO 041/6-7. No action is taken when only one surrogate is out of control.

Sample TMD-SO 042/2-3 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

Sample TMD-SO 043/1-2 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

Reviewed By: [signature] Date: 4/21/11

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 04/21/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5BE.000.001
Report Title: StClair 1-15

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: [signature] Date: 4/21/11

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110420-002
Samples Received: 04/20/2011

11ML0353 **Collection Date** 04/19/2011 **Sampled By:**

Sample Description: **TMD-SO 040/1-2 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	60			MLDR110421001	4/21/2011 8:45:00 AM	CR
PCBs	Decachlorobiphenyl %R	59.6			MLDR110421001	4/21/2011 8:45:00 AM	CR
PCBs	PCB-1016	0.0	U	310.0	MLDR110421001	4/21/2011 8:45:00 AM	CR
PCBs	PCB-1232	0.0	U	310.0	MLDR110421001	4/21/2011 8:45:00 AM	CR
PCBs	PCB-1242	0.0	U	310.0	MLDR110421001	4/21/2011 8:45:00 AM	CR
PCBs	PCB-1248	0.0	U	310.0	MLDR110421001	4/21/2011 8:45:00 AM	CR
PCBs	PCB-1254	0.0	U	310.0	MLDR110421001	4/21/2011 8:45:00 AM	CR
PCBs	PCB-1260	0.0	U	310.0	MLDR110421001	4/21/2011 8:45:00 AM	CR
PCBs	Tetrachloro-m-xylene	90			MLDR110421001	4/21/2011 8:45:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	90.5			MLDR110421001	4/21/2011 8:45:00 AM	CR

11ML0354 **Collection Date** 04/19/2011 **Sampled By:**

Sample Description: **TMD-SO 040/2-3 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	70			MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	Decachlorobiphenyl %R	69.6			MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	PCB-1016	0.0	U	290.0	MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	PCB-1232	0.0	U	290.0	MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	PCB-1242	0.0	U	290.0	MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	PCB-1248	0.0	U	290.0	MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	PCB-1254	0.0	U	290.0	MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	PCB-1260	0.0	U	290.0	MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	Tetrachloro-m-xylene	92			MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	92.0			MLDR110421001	4/21/2011 8:46:00 AM	CR

11ML0355 **Collection Date** 04/19/2011 **Sampled By:**

Sample Description: **TMD-SO 040/5-6 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	56			MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	Decachlorobiphenyl %R	55.6			MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	PCB-1016	0.0	U	220.0	MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	PCB-1232	0.0	U	220.0	MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	PCB-1242	0.0	U	220.0	MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	PCB-1248	0.0	U	220.0	MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	PCB-1254	0.0	U	220.0	MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	PCB-1260	0.0	U	220.0	MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	Tetrachloro-m-xylene	79			MLDR110421001	4/21/2011 8:46:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	78.8			MLDR110421001	4/21/2011 8:46:00 AM	CR

11ML0356 **Collection Date** 04/19/2011 **Sampled By:**

Sample Description: **TMD-SO 040/10-11 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	35			MLDR110421001	4/21/2011 8:47:00 AM	CR
PCBs	Decachlorobiphenyl %R	35.2	J		MLDR110421001	4/21/2011 8:47:00 AM	CR
PCBs	PCB-1016	0.0	U	220.0	MLDR110421001	4/21/2011 8:47:00 AM	CR
PCBs	PCB-1232	0.0	U	220.0	MLDR110421001	4/21/2011 8:47:00 AM	CR
PCBs	PCB-1242	0.0	U	220.0	MLDR110421001	4/21/2011 8:47:00 AM	CR
PCBs	PCB-1248	280		220.0	MLDR110421001	4/21/2011 8:47:00 AM	CR
PCBs	PCB-1254	0.0	U	220.0	MLDR110421001	4/21/2011 8:47:00 AM	CR
PCBs	PCB-1260	0.0	U	220.0	MLDR110421001	4/21/2011 8:47:00 AM	CR
PCBs	Tetrachloro-m-xylene	52			MLDR110421001	4/21/2011 8:47:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	52.1			MLDR110421001	4/21/2011 8:47:00 AM	CR

11ML0357 **Collection Date** 04/19/2011 **Sampled By:**

Sample Description: **TMD-SO 040/11.1-12.1 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	68			MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	Decachlorobiphenyl %R	68.1			MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	PCB-1016	0.0	U	280.0	MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	PCB-1232	0.0	U	280.0	MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	PCB-1242	0.0	U	280.0	MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	PCB-1248	0.0	U	280.0	MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	PCB-1254	0.0	U	280.0	MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	PCB-1260	0.0	U	280.0	MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	Tetrachloro-m-xylene	85			MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	85.4			MLDR110421001	4/21/2011 8:48:00 AM	CR

11ML0358 **Collection Date** 04/19/2011 **Sampled By:**

Sample Description: **TMD-SO 041/1-2 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	42			MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	Decachlorobiphenyl %R	41.7	J		MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	PCB-1016	0.0	U	320.0	MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	PCB-1232	0.0	U	320.0	MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	PCB-1242	0.0	U	320.0	MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	PCB-1248	0.0	U	320.0	MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	PCB-1254	0.0	U	320.0	MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	PCB-1260	0.0	U	320.0	MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	Tetrachloro-m-xylene	61			MLDR110421001	4/21/2011 8:48:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	60.6			MLDR110421001	4/21/2011 8:48:00 AM	CR

11ML0359 **Collection Date** 04/19/2011 **Sampled By:**

Sample Description: **TMD-SO 041/2-3 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	54			MLDR110421001	4/21/2011 8:48:00 AM	CR

11ML0359 Collection Date 04/19/2011 Sampled By:

Sample Description: TMD-SO 041/2-3 (ug/Kg)

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	53.9			MLDR110421001	4/21/2011 8:49:00 AM	CR
PCBs	PCB-1016	0.0	U	250.0	MLDR110421001	4/21/2011 8:49:00 AM	CR
PCBs	PCB-1232	0.0	U	250.0	MLDR110421001	4/21/2011 8:49:00 AM	CR
PCBs	PCB-1242	0.0	U	250.0	MLDR110421001	4/21/2011 8:49:00 AM	CR
PCBs	PCB-1248	0.0	U	250.0	MLDR110421001	4/21/2011 8:49:00 AM	CR
PCBs	PCB-1254	0.0	U	250.0	MLDR110421001	4/21/2011 8:49:00 AM	CR
PCBs	PCB-1260	0.0	U	250.0	MLDR110421001	4/21/2011 8:49:00 AM	CR
PCBs	Tetrachloro-m-xylene	60			MLDR110421001	4/21/2011 8:49:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	60.5			MLDR110421001	4/21/2011 8:49:00 AM	CR

11ML0360 Collection Date 04/19/2011 Sampled By:

Sample Description: TMD-SO 041/4-5 (ug/Kg)

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	41			MLDR110421001	4/21/2011 8:49:00 AM	CR
PCBs	Decachlorobiphenyl %R	41.3	J		MLDR110421001	4/21/2011 8:49:00 AM	CR
PCBs	PCB-1016	0.0	U	280.0	MLDR110421001	4/21/2011 8:49:00 AM	CR
PCBs	PCB-1232	0.0	U	280.0	MLDR110421001	4/21/2011 8:49:00 AM	CR
PCBs	PCB-1242	0.0	U	280.0	MLDR110421001	4/21/2011 8:49:00 AM	CR
PCBs	PCB-1248	0.0	U	280.0	MLDR110421001	4/21/2011 8:49:00 AM	CR
PCBs	PCB-1254	0.0	U	280.0	MLDR110421001	4/21/2011 8:49:00 AM	CR
PCBs	PCB-1260	0.0	U	280.0	MLDR110421001	4/21/2011 8:49:00 AM	CR
PCBs	Tetrachloro-m-xylene	52			MLDR110421001	4/21/2011 8:49:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	51.6			MLDR110421001	4/21/2011 8:49:00 AM	CR

11ML0361 Collection Date 04/19/2011 Sampled By:

Sample Description: TMD-SO 041/6-7 (ug/Kg)

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	46			MLDR110421001	4/21/2011 8:50:00 AM	CR
PCBs	Decachlorobiphenyl %R	46.2	J		MLDR110421001	4/21/2011 8:50:00 AM	CR
PCBs	PCB-1016	0.0	U	290.0	MLDR110421001	4/21/2011 8:50:00 AM	CR
PCBs	PCB-1232	0.0	U	290.0	MLDR110421001	4/21/2011 8:50:00 AM	CR
PCBs	PCB-1242	0.0	U	290.0	MLDR110421001	4/21/2011 8:50:00 AM	CR
PCBs	PCB-1248	0.0	U	290.0	MLDR110421001	4/21/2011 8:50:00 AM	CR
PCBs	PCB-1254	0.0	U	290.0	MLDR110421001	4/21/2011 8:50:00 AM	CR
PCBs	PCB-1260	0.0	U	290.0	MLDR110421001	4/21/2011 8:50:00 AM	CR
PCBs	Tetrachloro-m-xylene	68			MLDR110421001	4/21/2011 8:50:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	68.4			MLDR110421001	4/21/2011 8:50:00 AM	CR

11ML0362 Collection Date 04/19/2011 Sampled By:

Sample Description: TMD-SO 041/7-8 (ug/Kg)

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	60			MLDR110421001	4/21/2011 8:50:00 AM	CR
PCBs	Decachlorobiphenyl %R	59.8			MLDR110421001	4/21/2011 8:50:00 AM	CR

11ML0362 Collection Date 04/19/2011 Sampled By:

Sample Description: **TMD-SO 041/7-8 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1016	0.0	U	270.0	MLDR110421001	4/21/2011 8:50:00 AM	CR
PCBs	PCB-1232	0.0	U	270.0	MLDR110421001	4/21/2011 8:50:00 AM	CR
PCBs	PCB-1242	0.0	U	270.0	MLDR110421001	4/21/2011 8:50:00 AM	CR
PCBs	PCB-1248	0.0	U	270.0	MLDR110421001	4/21/2011 8:50:00 AM	CR
PCBs	PCB-1254	0.0	U	270.0	MLDR110421001	4/21/2011 8:50:00 AM	CR
PCBs	PCB-1260	0.0	U	270.0	MLDR110421001	4/21/2011 8:50:00 AM	CR
PCBs	Tetrachloro-m-xylene	74			MLDR110421001	4/21/2011 8:50:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	73.6			MLDR110421001	4/21/2011 8:50:00 AM	CR

11ML0363 Collection Date 04/19/2011 Sampled By:

Sample Description: **TMD-SO 041/8-9 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	53			MLDR110421001	4/21/2011 8:51:00 AM	CR
PCBs	Decachlorobiphenyl %R	53.0			MLDR110421001	4/21/2011 8:51:00 AM	CR
PCBs	PCB-1016	0.0	U	260.0	MLDR110421001	4/21/2011 8:51:00 AM	CR
PCBs	PCB-1232	0.0	U	260.0	MLDR110421001	4/21/2011 8:51:00 AM	CR
PCBs	PCB-1242	0.0	U	260.0	MLDR110421001	4/21/2011 8:51:00 AM	CR
PCBs	PCB-1248	0.0	U	260.0	MLDR110421001	4/21/2011 8:51:00 AM	CR
PCBs	PCB-1254	0.0	U	260.0	MLDR110421001	4/21/2011 8:51:00 AM	CR
PCBs	PCB-1260	0.0	U	260.0	MLDR110421001	4/21/2011 8:51:00 AM	CR
PCBs	Tetrachloro-m-xylene	74			MLDR110421001	4/21/2011 8:51:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	74.2			MLDR110421001	4/21/2011 8:51:00 AM	CR

11ML0364 Collection Date 04/19/2011 Sampled By:

Sample Description: **TMD-SO 041/9-10 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	64			MLDR110421001	4/21/2011 8:52:00 AM	CR
PCBs	Decachlorobiphenyl %R	63.8			MLDR110421001	4/21/2011 8:52:00 AM	CR
PCBs	PCB-1016	0.0	U	260.0	MLDR110421001	4/21/2011 8:52:00 AM	CR
PCBs	PCB-1232	0.0	U	260.0	MLDR110421001	4/21/2011 8:52:00 AM	CR
PCBs	PCB-1242	0.0	U	260.0	MLDR110421001	4/21/2011 8:52:00 AM	CR
PCBs	PCB-1248	0.0	U	260.0	MLDR110421001	4/21/2011 8:52:00 AM	CR
PCBs	PCB-1254	0.0	U	260.0	MLDR110421001	4/21/2011 8:52:00 AM	CR
PCBs	PCB-1260	0.0	U	260.0	MLDR110421001	4/21/2011 8:52:00 AM	CR
PCBs	Tetrachloro-m-xylene	78			MLDR110421001	4/21/2011 8:52:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	77.7			MLDR110421001	4/21/2011 8:52:00 AM	CR

11ML0365 Collection Date 04/19/2011 Sampled By:

Sample Description: **TMD-SO 042/1-2 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	67			MLDR110421001	4/21/2011 8:52:00 AM	CR
PCBs	Decachlorobiphenyl %R	66.6			MLDR110421001	4/21/2011 8:52:00 AM	CR
PCBs	PCB-1016	0.0	U	260.0	MLDR110421001	4/21/2011 8:52:00 AM	CR

11ML0365 Collection Date 04/19/2011 Sampled By:

Sample Description: **TMD-SO 042/1-2 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1232	0.0	U	260.0	MLDR110421001	4/21/2011 8:52:00 AM	CR
PCBs	PCB-1242	0.0	U	260.0	MLDR110421001	4/21/2011 8:52:00 AM	CR
PCBs	PCB-1248	190	J	260.0	MLDR110421001	4/21/2011 8:52:00 AM	CR
PCBs	PCB-1254	0.0	U	260.0	MLDR110421001	4/21/2011 8:52:00 AM	CR
PCBs	PCB-1260	0.0	U	260.0	MLDR110421001	4/21/2011 8:52:00 AM	CR
PCBs	Tetrachloro-m-xylene	86			MLDR110421001	4/21/2011 8:52:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	86.4			MLDR110421001	4/21/2011 8:52:00 AM	CR

11ML0366 Collection Date 04/19/2011 Sampled By:

Sample Description: **TMD-SO 042/2-3 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	69			MLDR110421001	4/21/2011 8:53:00 AM	CR
PCBs	Decachlorobiphenyl %R	68.9			MLDR110421001	4/21/2011 8:53:00 AM	CR
PCBs	PCB-1016	0.0	U	210.0	MLDR110421001	4/21/2011 8:53:00 AM	CR
PCBs	PCB-1232	0.0	U	210.0	MLDR110421001	4/21/2011 8:53:00 AM	CR
PCBs	PCB-1242	0.0	U	210.0	MLDR110421001	4/21/2011 8:53:00 AM	CR
PCBs	PCB-1248	0.0	U	210.0	MLDR110421001	4/21/2011 8:53:00 AM	CR
PCBs	PCB-1254	0.0	U	210.0	MLDR110421001	4/21/2011 8:53:00 AM	CR
PCBs	PCB-1260	0.0	U	210.0	MLDR110421001	4/21/2011 8:53:00 AM	CR
PCBs	Tetrachloro-m-xylene	90			MLDR110421001	4/21/2011 8:53:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	89.6			MLDR110421001	4/21/2011 8:53:00 AM	CR

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	66			MLDR110421001	4/21/2011 8:54:00 AM	CR
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	65.9			MLDR110421001	4/21/2011 8:54:00 AM	CR
Matrix Spike-PCBs	PCB-1016	0.0	U	220.0	MLDR110421001	4/21/2011 8:54:00 AM	CR
Matrix Spike-PCBs	PCB-1232	0.0	U	220.0	MLDR110421001	4/21/2011 8:54:00 AM	CR
Matrix Spike-PCBs	PCB-1242	0.0	U	220.0	MLDR110421001	4/21/2011 8:54:00 AM	CR
Matrix Spike-PCBs	PCB-1248	2200		220.0	MLDR110421001	4/21/2011 8:54:00 AM	CR
Matrix Spike-PCBs	PCB-1248 - % Recovery	103			MLDR110421001	4/21/2011 8:54:00 AM	CR
Matrix Spike-PCBs	PCB-1254	0.0	U	220.0	MLDR110421001	4/21/2011 8:54:00 AM	CR
Matrix Spike-PCBs	PCB-1260	0.0	U	220.0	MLDR110421001	4/21/2011 8:54:00 AM	CR
Matrix Spike-PCBs	Tetrachloro-m-xylene	90			MLDR110421001	4/21/2011 8:54:00 AM	CR
Matrix Spike-PCBs	Tetrachloro-m-xylene - % Recovery	90.0			MLDR110421001	4/21/2011 8:54:00 AM	CR

11ML0367 Collection Date 04/19/2011 Sampled By:

Sample Description: **TMD-SO 042/6-7 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	63			MLDR110421001	4/21/2011 8:56:00 AM	CR
PCBs	Decachlorobiphenyl %R	63.2			MLDR110421001	4/21/2011 8:56:00 AM	CR
PCBs	PCB-1016	0.0	U	260.0	MLDR110421001	4/21/2011 8:56:00 AM	CR
PCBs	PCB-1232	0.0	U	260.0	MLDR110421001	4/21/2011 8:56:00 AM	CR
PCBs	PCB-1242	0.0	U	260.0	MLDR110421001	4/21/2011 8:56:00 AM	CR
PCBs	PCB-1248	2500		260.0	MLDR110421001	4/21/2011 8:56:00 AM	CR
PCBs	PCB-1254	0.0	U	260.0	MLDR110421001	4/21/2011 8:56:00 AM	CR

11ML0367 Collection Date 04/19/2011 Sampled By:

Sample Description: TMD-SO 042/6-7 (ug/Kg)

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1260	0.0	U	260.0	MLDR110421001	4/21/2011 8:56:00 AM	CR
PCBs	Tetrachloro-m-xylene	84			MLDR110421001	4/21/2011 8:56:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	84.0			MLDR110421001	4/21/2011 8:56:00 AM	CR

11ML0368 Collection Date 04/19/2011 Sampled By:

Sample Description: TMD-SO 042/6-7 R (ug/Kg)

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	64			MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	Decachlorobiphenyl %R	63.7			MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1016	0.0	U	200.0	MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1232	0.0	U	200.0	MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1242	0.0	U	200.0	MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1248	1500		200.0	MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1254	0.0	U	200.0	MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1260	0.0	U	200.0	MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	Tetrachloro-m-xylene	95			MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	94.6			MLDR110421001	4/21/2011 8:57:00 AM	CR

11ML0369 Collection Date 04/19/2011 Sampled By:

Sample Description: TMD-SO 042/10-10.8 (ug/Kg)

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	68			MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	Decachlorobiphenyl %R	68.3			MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1016	0.0	U	210.0	MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1232	0.0	U	210.0	MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1242	0.0	U	210.0	MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1248	520		210.0	MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1254	0.0	U	210.0	MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1260	0.0	U	210.0	MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	Tetrachloro-m-xylene	83			MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	82.7			MLDR110421001	4/21/2011 8:57:00 AM	CR

11ML0370 Collection Date 04/19/2011 Sampled By:

Sample Description: TMD-SO 042/11.2-12.2 (ug/Kg)

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	61			MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	Decachlorobiphenyl %R	61.2			MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1016	0.0	U	290.0	MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1232	0.0	U	290.0	MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1242	0.0	U	290.0	MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1248	0.0	U	290.0	MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1254	0.0	U	290.0	MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	PCB-1260	0.0	U	290.0	MLDR110421001	4/21/2011 8:57:00 AM	CR

11ML0370 Collection Date 04/19/2011 Sampled By:

Sample Description: **TMD-SO 042/11.2-12.2 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Tetrachloro-m-xylene	81			MLDR110421001	4/21/2011 8:57:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	81.3			MLDR110421001	4/21/2011 8:57:00 AM	CR

11ML0371 Collection Date 04/19/2011 Sampled By:

Sample Description: **TMD-SO 043/1-2 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	84			MLDR110421001	4/21/2011 8:58:00 AM	CR
PCBs	Decachlorobiphenyl %R	83.8			MLDR110421001	4/21/2011 8:58:00 AM	CR
PCBs	PCB-1016	0.0	U	280.0	MLDR110421001	4/21/2011 8:58:00 AM	CR
PCBs	PCB-1232	0.0	U	280.0	MLDR110421001	4/21/2011 8:58:00 AM	CR
PCBs	PCB-1242	0.0	U	280.0	MLDR110421001	4/21/2011 8:58:00 AM	CR
PCBs	PCB-1248	1400		280.0	MLDR110421001	4/21/2011 8:58:00 AM	CR
PCBs	PCB-1254	0.0	U	280.0	MLDR110421001	4/21/2011 8:58:00 AM	CR
PCBs	PCB-1260	0.0	U	280.0	MLDR110421001	4/21/2011 8:58:00 AM	CR
PCBs	Tetrachloro-m-xylene	110			MLDR110421001	4/21/2011 8:58:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	110			MLDR110421001	4/21/2011 8:58:00 AM	CR

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	73			MLDR110421001	4/21/2011 8:59:00 AM	CR
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	72.9			MLDR110421001	4/21/2011 8:59:00 AM	CR
Matrix Spike-PCBs	PCB-1016	0.0	U	230.0	MLDR110421001	4/21/2011 8:59:00 AM	CR
Matrix Spike-PCBs	PCB-1232	0.0	U	230.0	MLDR110421001	4/21/2011 8:59:00 AM	CR
Matrix Spike-PCBs	PCB-1242	0.0	U	230.0	MLDR110421001	4/21/2011 8:59:00 AM	CR
Matrix Spike-PCBs	PCB-1248	3700		230.0	MLDR110421001	4/21/2011 8:59:00 AM	CR
Matrix Spike-PCBs	PCB-1248 - % Recovery	98.2			MLDR110421001	4/21/2011 8:59:00 AM	CR
Matrix Spike-PCBs	PCB-1254	0.0	U	230.0	MLDR110421001	4/21/2011 8:59:00 AM	CR
Matrix Spike-PCBs	PCB-1260	0.0	U	230.0	MLDR110421001	4/21/2011 8:59:00 AM	CR
Matrix Spike-PCBs	Tetrachloro-m-xylene	100			MLDR110421001	4/21/2011 8:59:00 AM	CR
Matrix Spike-PCBs	Tetrachloro-m-xylene - % Recovery	104			MLDR110421001	4/21/2011 8:59:00 AM	CR

11ML0372 Collection Date 04/19/2011 Sampled By:

Sample Description: **TMD-SO 043/1-2 (ug/Kg)**

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	86			MLDR110421001	4/21/2011 8:59:00 AM	CR
PCBs	Decachlorobiphenyl %R	86.4			MLDR110421001	4/21/2011 8:59:00 AM	CR
PCBs	PCB-1016	0.0	U	290.0	MLDR110421001	4/21/2011 8:59:00 AM	CR
PCBs	PCB-1232	0.0	U	290.0	MLDR110421001	4/21/2011 8:59:00 AM	CR
PCBs	PCB-1242	0.0	U	290.0	MLDR110421001	4/21/2011 8:59:00 AM	CR
PCBs	PCB-1248	640		290.0	MLDR110421001	4/21/2011 8:59:00 AM	CR
PCBs	PCB-1254	0.0	U	290.0	MLDR110421001	4/21/2011 8:59:00 AM	CR
PCBs	PCB-1260	0.0	U	290.0	MLDR110421001	4/21/2011 8:59:00 AM	CR
PCBs	Tetrachloro-m-xylene	110			MLDR110421001	4/21/2011 8:59:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	113			MLDR110421001	4/21/2011 8:59:00 AM	CR

MLDE110420002B In01 **Collection Date** 04/20/2011 **Sampled By:** CR

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	78			MLDR110421001		CR
Method Blank-PCBs	Decachlorobiphenyl %R	78			MLDR110421001		CR
Method Blank-PCBs	PCB-1016	0.0	U	280.0	MLDR110421001		CR
Method Blank-PCBs	PCB-1232	0.0	U	280.0	MLDR110421001		CR
Method Blank-PCBs	PCB-1242	0.0	U	280.0	MLDR110421001		CR
Method Blank-PCBs	PCB-1248	0.0	U	280.0	MLDR110421001		CR
Method Blank-PCBs	PCB-1254	0.0	U	280.0	MLDR110421001		CR
Method Blank-PCBs	PCB-1260	0.0	U	280.0	MLDR110421001		CR
Method Blank-PCBs	Tetrachloro-m-xylene	83			MLDR110421001		CR
Method Blank-PCBs	Tetrachloro-m-xylene %R	83.3			MLDR110421001		CR

Approved: 4/21/11

Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 04/28/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-2

NARRATIVE

Thirteen (13) water samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following thirteen (13) samples are included in this narrative:

11CT01-14	11CT01-15	11CT01-16	11CT01-17
11CT01-18	11CT01-19	11CT01-20	11CT01-21
11CT01-22	11CT01-23	11CT01-24	11CT01-25
11CT01-26			

PCBs Analysis

Sample Collection and Analysis

The samples were collected between April 16 and 19, 2011 and were analyzed on April 20 and 26, 2011 within the required hold times for PCBs.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 20 and 26, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110419001Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 60-140 %R with the exception of decachlorobiphenyl, which was low in MLDE110419001Bln01, TMD-GW 029/5, TMD-GW 030/8, TMD-GW 032/8, TMD-GW 035/7, TMD-GW 036/7, TMD-GW 037/7, TMD-GW 039/2, and TMD-GW 040/7. No action is taken when only one surrogate is out of control. The recoveries for both surrogates were low in TMD-GW 038/7. Detects in this sample are qualified "J" and non-detects "UJ".

Sample TMD-GW 036/7 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

Sample TMD-GW 027/10 was run at a 20x dilution. Sample TMD-GW 029/5 was run at a 40x dilution. Sample TMD-GW 037/7 was run at a 10x dilution.

Reviewed By: _____ Date: 4/28/11

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 04/28/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-2

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 4/15/11

Mobile Laboratory
Sample Results

MLDE110420001BIn01		AR1016	5 ug/Kg	U
		AR1242	5 ug/Kg	U
		AR1248	5 ug/Kg	U
		AR1254	5 ug/Kg	U
		AR1260	5 ug/Kg	U
		TCMX	81.7% ug/Kg	
		DCB	55.9% ug/Kg	J
11ML0340	TMD-GW 027/10	AR1016	100 ug/Kg	U
		AR1242	100 ug/Kg	U
		AR1248	1320 ug/Kg	
		AR1254	100 ug/Kg	U
		AR1260	100 ug/Kg	U
		TCMX	75.2% ug/Kg	
		DCB	80.5% ug/Kg	
11ML341	TMD-GW 029/5	AR1016	200 ug/Kg	U
		AR1242	200 ug/Kg	U
		AR1248	2680 ug/Kg	
		AR1254	200 ug/Kg	U
		AR1260	200 ug/Kg	U
		TCMX	83.7% ug/Kg	
		DCB	56.1% ug/Kg	J
11ML0342	TMD-GW 030/8	AR1016	5 ug/Kg	U
		AR1242	5 ug/Kg	U
		AR1248	90 ug/Kg	
		AR1254	5 ug/Kg	U
		AR1260	5 ug/Kg	U
		TCMX	90.0% ug/Kg	
		DCB	59.3% ug/Kg	J
11ML0343	TMD-GW 032/8	AR1016	5 ug/Kg	U
		AR1242	5 ug/Kg	U
		AR1248	90 ug/Kg	
		AR1254	5 ug/Kg	U
		AR1260	5 ug/Kg	U
		TCMX	90.5% ug/Kg	
		DCB	58.2% ug/Kg	J
11ML0344	TMD-GW 035/7	AR1016	5 ug/Kg	U
		AR1242	5 ug/Kg	U
		AR1248	50 ug/Kg	
		AR1254	5 ug/Kg	U
		AR1260	5 ug/Kg	U
		TCMX	72.8% ug/Kg	
		DCB	50.5% ug/Kg	J
11ML0345	TMD-GW 036/7	AR1016	5 ug/Kg	U
		AR1242	5 ug/Kg	U
		AR1248	3 ug/Kg	J
		AR1254	5 ug/Kg	U
		AR1260	5 ug/Kg	U
		TCMX	85.1% ug/Kg	
		DCB	58.6% ug/Kg	J

Mobile Laboratory
Sample Results

11ML0346	TMD-GW 037/7	AR1016	50 ug/Kg	U
		AR1242	50 ug/Kg	U
		AR1248	960 ug/Kg	
		AR1254	50 ug/Kg	U
		AR1260	50 ug/Kg	U
		TCMX	81.5% ug/Kg	
		DCB	46.3% ug/Kg	J
11ML0347	TMD-GW 037/7 R	AR1016	5 ug/Kg	U
		AR1242	5 ug/Kg	U
		AR1248	130 ug/Kg	
		AR1254	5 ug/Kg	U
		AR1260	5 ug/Kg	U
		TCMX	97.2% ug/Kg	
		DCB	79.5% ug/Kg	
11ML0348	TMD-GW 038/7	AR1016	5 ug/Kg	UJ
		AR1242	5 ug/Kg	UJ
		AR1248	5 ug/Kg	UJ
		AR1254	5 ug/Kg	UJ
		AR1260	5 ug/Kg	UJ
		TCMX	25.2% ug/Kg	J
		DCB	22.4% ug/Kg	J
11ML0349	TMD-GW 039/2	AR1016	5 ug/Kg	U
		AR1242	5 ug/Kg	U
		AR1248	5 ug/Kg	U
		AR1254	5 ug/Kg	U
		AR1260	5 ug/Kg	U
		TCMX	91.6% ug/Kg	
		DCB	39.6% ug/Kg	J
11ML0350	TMD-GW 040/7	AR1016	5 ug/Kg	U
		AR1242	5 ug/Kg	U
		AR1248	0 ug/Kg	J
		AR1254	5 ug/Kg	U
		AR1260	5 ug/Kg	U
		TCMX	96.7% ug/Kg	
		DCB	50.4% ug/Kg	J
11ML0351	TMD-GW 042/9	AR1016	5 ug/Kg	U
		AR1242	5 ug/Kg	U
		AR1248	5 ug/Kg	U
		AR1254	5 ug/Kg	U
		AR1260	5 ug/Kg	U
		TCMX	93.5% ug/Kg	
		DCB	68.8% ug/Kg	
11ML0352	TMD-GW 043/8	AR1016	5 ug/Kg	U
		AR1242	5 ug/Kg	U
		AR1248	5 ug/Kg	U
		AR1254	5 ug/Kg	U
		AR1260	5 ug/Kg	U
		TCMX	93.6% ug/Kg	
		DCB	64.8% ug/Kg	

11ML0417	TMD-SO 053/13.5-14	AR1016	1700000 ug/Kg	U
		AR1242	1700000 ug/Kg	U
		AR1248	19,000,000 ug/Kg	
		AR1254	1700000 ug/Kg	U
		AR1260	1700000 ug/Kg	U
		TCMX	51.3% ug/Kg	
		DCB	146.8% ug/Kg	
11ML0418	TMD-SO 053/14.5-15	AR1016	6000 ug/Kg	U
		AR1242	6000 ug/Kg	U
		AR1248	33000 ug/Kg	
		AR1254	6000 ug/Kg	U
		AR1260	6000 ug/Kg	U
		TCMX	77.2% ug/Kg	
		DCB	69.8% ug/Kg	
11ML0419	TMD-SO 054/1-2	AR1016	21000 ug/Kg	U
		AR1242	21000 ug/Kg	U
		AR1248	17000 ug/Kg	
		AR1254	21000 ug/Kg	U
		AR1260	21290 ug/Kg	U
		TCMX	94.2% ug/Kg	
		DCB	77.6% ug/Kg	
11ML0420	TMD-SO 054/2-3	AR1016	890 ug/Kg	U
		AR1242	890 ug/Kg	U
		AR1248	1000 ug/Kg	
		AR1254	890 ug/Kg	U
		AR1260	890 ug/Kg	U
		TCMX	89.6% ug/Kg	
		DCB	71.0% ug/Kg	
11ML0421	TMD-SO 054/9-10	AR1016	690 ug/Kg	U
		AR1242	690 ug/Kg	U
		AR1248	470 ug/Kg	
		AR1254	690 ug/Kg	U
		AR1260	690 ug/Kg	U
		TCMX	86.8% ug/Kg	
		DCB	77.6% ug/Kg	
11ML0422	TMD-SO 054/9-10R	AR1016	890 ug/Kg	U
		AR1242	890 ug/Kg	U
		AR1248	1600 ug/Kg	
		AR1254	890 ug/Kg	U
		AR1260	890 ug/Kg	U
		TCMX	86.4% ug/Kg	
		DCB	69.9% ug/Kg	
11ML0423	TMD-SO 054/11-12	AR1016	800 ug/Kg	U
		AR1242	800 ug/Kg	U
		AR1248	7300 ug/Kg	
		AR1254	800 ug/Kg	U
		AR1260	800 ug/Kg	U
		TCMX	72.7% ug/Kg	
		DCB	67.4% ug/Kg	

Mobile Laboratory
Sample Results

11ML0424	TMD-SO 054/11-12R	AR1016	160000 ug/Kg	U
		AR1242	160000 ug/Kg	U
		AR1248	820000 ug/Kg	
		AR1254	160000 ug/Kg	U
		AR1260	160000 ug/Kg	U
		TCMX	70.0% ug/Kg	
		DCB	150.8% ug/Kg	J
11ML0425	TMD-SO 054/12-13	AR1016	770 ug/Kg	U
		AR1242	770 ug/Kg	U
		AR1248	5400 ug/Kg	
		AR1254	770 ug/Kg	U
		AR1260	770 ug/Kg	U
		TCMX	79.7% ug/Kg	
		DCB	72.9% ug/Kg	

Mobile Laboratory
Sample Results

MLDE110428001Bln01		AR1016	940 ug/Kg	U
		AR1242	940 ug/Kg	U
		AR1248	940 ug/Kg	U
		AR1254	940 ug/Kg	U
		AR1260	940 ug/Kg	U
		TCMX	87.8% ug/Kg	
		DCB	78.1% ug/Kg	
11ML0411	TMD-SO 053/1-2	AR1016	890 ug/Kg	U
		AR1242	890 ug/Kg	U
		AR1248	890 ug/Kg	U
		AR1254	890 ug/Kg	U
		AR1260	890 ug/Kg	U
		TCMX	90.5% ug/Kg	
		DCB	72.7% ug/Kg	
11ML0412	TMD-SO 053/2-3	AR1016	850 ug/Kg	U
		AR1242	850 ug/Kg	U
		AR1248	850 ug/Kg	U
		AR1254	850 ug/Kg	U
		AR1260	850 ug/Kg	U
		TCMX	90.7% ug/Kg	
		DCB	75.4% ug/Kg	
11ML0413	TMD-SO 053/5-6	AR1016	890 ug/Kg	U
		AR1242	890 ug/Kg	U
		AR1248	890 ug/Kg	U
		AR1254	890 ug/Kg	U
		AR1260	890 ug/Kg	U
		TCMX	85.0% ug/Kg	
		DCB	64.7% ug/Kg	
11ML0414	TMD-SO 053/5-6R	AR1016	860 ug/Kg	U
		AR1242	860 ug/Kg	U
		AR1248	860 ug/Kg	U
		AR1254	860 ug/Kg	U
		AR1260	860 ug/Kg	U
		TCMX	89.2% ug/Kg	
		DCB	75.5% ug/Kg	
11ML0415	TMD-SO 053/11.5-12.5	AR1016	810 ug/Kg	U
		AR1242	810 ug/Kg	U
		AR1248	810 ug/Kg	U
		AR1254	810 ug/Kg	U
		AR1260	810 ug/Kg	U
		TCMX	90.5% ug/Kg	
		DCB	71.2% ug/Kg	
11ML0416	TMD-SO 053/11.5-12.5R	AR1016	690 ug/Kg	U
		AR1242	690 ug/Kg	U
		AR1248	690 ug/Kg	U
		AR1254	690 ug/Kg	U
		AR1260	690 ug/Kg	U
		TCMX	82.7% ug/Kg	
		DCB	65.1% ug/Kg	

Site Name: 10 Mile Drain
TDF# 5-314-012
Date Issued: 04/28/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-3

NARRATIVE

Nineteen (19) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following nineteen (19) samples are included in this narrative:

11CT03-40	11CT03-41	11CT03-42	11CT03-43
11CT03-44	11CT03-45	11CT03-46	11CT03-47
11CT03-48	11CT03-49	11CT03-50	11CT03-51
11CT03-52	11CT03-53	11CT03-54	11CT03-55
11CT03-56	11CT03-57	11CT03-63	

PCB Analysis

Sample Collection and Analysis

The samples were collected on April 26, 2011 and were analyzed on April 27, 2011 within the required hold times for the PCB analysis

Initial and Continuing Calibration

The initial calibration for AR1242 and AR1248 were run on April 26, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

All the analytes in the continuing calibration run on April 27, 2011 were within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110427001Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R with the exception of the recovery of DCB was below the QC limit in TMD-SO 050/2-2.4 and above the QC limit in TMD-SO 053/12.5-13.5. No action is taken when only one surrogate is out of control.

Sample TMD-SO 050/6-7 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery)

Reviewed By: _____ Date: 4/28/11

Site Name: 10 Mile Drain
TDF# 5-314-012
Date Issued: 04/28/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-3

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 4/28/11

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
11ML0410	TMD-SO 053/12.5-13.5	AR1016	8.50E+06	ug/Kg	U
		AR1242	8.50E+06	ug/Kg	U
		AR1248	56,000,000	ug/Kg	
		AR1254	8.50E+06	ug/Kg	U
		AR1260	8.50E+06	ug/Kg	U
		TCMX	53.2%	ug/Kg	
		DCB	154.2%	ug/Kg	J
11ML0402	TMD-SO 051/1-2	AR1016	1030	ug/Kg	U
		AR1242	1030	ug/Kg	U
		AR1248	540	ug/Kg	
		AR1254	1030	ug/Kg	U
		AR1260	1030	ug/Kg	U
		TCMX	83.7%	ug/Kg	
		DCB	67.1%	ug/Kg	
11ML0403	TMD-SO 051/2-3	AR1016	710	ug/Kg	U
		AR1242	710	ug/Kg	U
		AR1248	710	ug/Kg	U
		AR1254	710	ug/Kg	U
		AR1260	710	ug/Kg	U
		TCMX	67.6%	ug/Kg	
		DCB	51.7%	ug/Kg	
11ML0404	TMD-SO 051/5-6	AR1016	720	ug/Kg	U
		AR1242	720	ug/Kg	U
		AR1248	720	ug/Kg	U
		AR1254	720	ug/Kg	U
		AR1260	720	ug/Kg	U
		TCMX	71.4%	ug/Kg	
		DCB	62.0%	ug/Kg	
11ML0405	TMD-SO 051/7-8	AR1016	870	ug/Kg	U
		AR1242	870	ug/Kg	U
		AR1248	870	ug/Kg	U
		AR1254	870	ug/Kg	U
		AR1260	870	ug/Kg	U
		TCMX	81.8%	ug/Kg	
		DCB	67.1%	ug/Kg	
11ML0406	TMD-SO 051/8.5-9.5	AR1016	920	ug/Kg	U
		AR1242	920	ug/Kg	U
		AR1248	920	ug/Kg	U
		AR1254	920	ug/Kg	U
		AR1260	920	ug/Kg	U
		TCMX	83.7%	ug/Kg	
	052/1-2	DCB	66.5%	ug/Kg	
11ML0407	TMD-SO ~~051/8.5-9.5~~	AR1016	7600	ug/Kg	U
		AR1242	7600	ug/Kg	U
		AR1248	38750	ug/Kg	
		AR1254	7600	ug/Kg	U
		AR1260	7600	ug/Kg	U
		TCMX	80.0%	ug/Kg	
		DCB	67.2%	ug/Kg	

Mobile Laboratory
Sample Results

11ML0408	TMD-SO 052/2-3	AR1016	1000 ug/Kg	U
		AR1242	1000 ug/Kg	U
		AR1248	2780 ug/Kg	
		AR1254	1000 ug/Kg	U
		AR1260	1000 ug/Kg	U
		TCMX	84.5% ug/Kg	
		DCB	69.0% ug/Kg	
11ML0409	TMD-SO 052/4-5	AR1016	1010 ug/Kg	U
		AR1242	1010 ug/Kg	U
		AR1248	1010 ug/Kg	U
		AR1254	1010 ug/Kg	U
		AR1260	1010 ug/Kg	U
		TCMX	74.8% ug/Kg	
		DCB	58.2% ug/Kg	
11ML0392	TMD-SO 048/MH	AR1016	17600 ug/Kg	U
		AR1242	17600 ug/Kg	U
		AR1248	150,000 ug/Kg	
		AR1254	17600 ug/Kg	U
		AR1260	17600 ug/Kg	U
		TCMX	72.8% ug/Kg	
		DCB	66.7% ug/Kg	
11ML0393	TMD-SO 049/1-2	AR1016	810 ug/Kg	U
		AR1242	810 ug/Kg	U
		AR1248	3100 ug/Kg	
		AR1254	810 ug/Kg	U
		AR1260	810 ug/Kg	U
		TCMX	82.8% ug/Kg	
		DCB	62.3% ug/Kg	
11ML0394	TMD-SO 049/2-3	AR1016	740 ug/Kg	U
		AR1242	740 ug/Kg	U
		AR1248	2160 ug/Kg	
		AR1254	740 ug/Kg	U
		AR1260	740 ug/Kg	U
		TCMX	62.8% ug/Kg	
		DCB	55.9% ug/Kg	
11ML0395	TMD-SO 049/5-6	AR1016	730 ug/Kg	U
		AR1242	730 ug/Kg	U
		AR1248	1650 ug/Kg	
		AR1254	730 ug/Kg	U
		AR1260	730 ug/Kg	U
		TCMX	74.1% ug/Kg	
		DCB	61.0% ug/Kg	
11ML0396	TMD-SO 049/10-11	AR1016	920 ug/Kg	U
		AR1242	920 ug/Kg	U
		AR1248	920 ug/Kg	U
		AR1254	920 ug/Kg	U
		AR1260	920 ug/Kg	U
		TCMX	70.8% ug/Kg	
		DCB	58.1% ug/Kg	

11ML0397	TMD-SO 049/11.5-12.5	AR1016	820 ug/Kg	U
		AR1242	820 ug/Kg	U
		AR1248	820 ug/Kg	U
		AR1254	820 ug/Kg	U
		AR1260	820 ug/Kg	U
		TCMX	63.4% ug/Kg	
		DCB	51.2% ug/Kg	
11ML0398	TMD-SO 050/0-1	AR1016	780 ug/Kg	U
		AR1242	780 ug/Kg	U
		AR1248	2130 ug/Kg	
		AR1254	780 ug/Kg	U
		AR1260	780 ug/Kg	U
		TCMX	77.2% ug/Kg	
		DCB	56.0% ug/Kg	
11ML0399	TMD-SO 050/2-2.4	AR1016	960 ug/Kg	U
		AR1242	960 ug/Kg	U
		AR1248	960 ug/Kg	U
		AR1254	960 ug/Kg	U
		AR1260	960 ug/Kg	U
		TCMX	69.1% ug/Kg	
		DCB	49.1% ug/Kg	J
11ML0400	TMD-SO 050/6-7	AR1016	840 ug/Kg	U
		AR1242	840 ug/Kg	U
		AR1248	840 ug/Kg	U
		AR1254	840 ug/Kg	U
		AR1260	840 ug/Kg	U
		TCMX	77.1% ug/Kg	
		DCB	60.0% ug/Kg	
11ML0401	TMD-SO 050/7.5-8.5	AR1016	800 ug/Kg	U
		AR1242	800 ug/Kg	U
		AR1248	800 ug/Kg	U
		AR1254	800 ug/Kg	U
		AR1260	800 ug/Kg	U
		TCMX	81.2% ug/Kg	
		DCB	68.4% ug/Kg	
MLDE110427001BIn01		AR1016	920 ug/Kg	U
		AR1242	920 ug/Kg	U
		AR1248	920 ug/Kg	U
		AR1254	920 ug/Kg	U
		AR1260	920 ug/Kg	U
		TCMX	84.6% ug/Kg	
		DCB	74.1% ug/Kg	

Site Name: 10 Mile Drain
TDF# 5-314-012
Date Issued: 04/30/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-5

NARRATIVE

Twenty (20) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following twenty (20) samples are included in this narrative:

11CT03-74	11CT03-75	11CT03-76	11CT03-77
11CT03-78	11CT03-79	11CT03-80	11CT03-81
11CT03-82	11CT03-83	11CT03-84	11CT03-85
11CT03-86	11CT03-87	11CT03-88	11CT03-89
11CT03-90	11CT03-91	11CT03-92	11CT03-93

PCB Analysis

Sample Collection and Analysis

The samples were collected on April 28, 2011 and were analyzed on April 29, 2011 within the required hold times for the PCB analysis

Initial and Continuing Calibration

The initial calibration for AR1248 were run on April 26, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

All the analytes in the continuing calibration run on April 29, 2011 for AR1248 were within the QC limits of ± 35%.

The initial calibration for AR1242 were run on April 29, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110429001Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R.

Sample TMD-SO 056/2-3 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

Reviewed By: _____ Date: 4/30/11

Site Name: 10 Mile Drain Author: Christina Rice
TDF# 5-314-012 Charge# 03037.4.14.02.03.B5VE.000.001
Date Issued: 04/30/11 Report Title: StClair 2-5
Analysis: PCBs

Sample TMD-SO 055/7-8 was analyzed at a 20x dilution. Samples TMD-SO 055/10-11 and TMD-SO 057/12-13 were analyzed at a 10x dilution. Sample TMD-SO 57/13-13.6 was analyzed at a 200x dilution.

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 4/30/11

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
MLDE110429001Bln01		AR1016	240	ug/Kg	U
		AR1242	240	ug/Kg	U
		AR1248	240	ug/Kg	U
		AR1254	240	ug/Kg	U
		AR1260	240	ug/Kg	U
		TCMX	89.7%	ug/Kg	
		DCB	78.1%	ug/Kg	
11ML0426	TMD-SO 055/2-3	AR1016	300	ug/Kg	U
		AR1242	300	ug/Kg	U
		AR1248	300	ug/Kg	U
		AR1254	300	ug/Kg	U
		AR1260	300	ug/Kg	U
		TCMX	80.2%	ug/Kg	
		DCB	79.5%	ug/Kg	
11ML0427	TMD-SO 055/5-6	AR1016	260	ug/Kg	U
		AR1242	260	ug/Kg	U
		AR1248	260	ug/Kg	U
		AR1254	260	ug/Kg	U
		AR1260	260	ug/Kg	U
		TCMX	86.7%	ug/Kg	
		DCB	80.6%	ug/Kg	
11ML0428	TMD-SO 055/5-6 R	AR1016	280	ug/Kg	U
		AR1242	280	ug/Kg	U
		AR1248	280	ug/Kg	U
		AR1254	280	ug/Kg	U
		AR1260	280	ug/Kg	U
		TCMX	84.7%	ug/Kg	
		DCB	78.2%	ug/Kg	
11ML0429	TMD-SO 055/7-8	AR1016	4800	ug/Kg	U
		AR1242	4800	ug/Kg	U
		AR1248	150000	ug/Kg	
		AR1254	4800	ug/Kg	U
		AR1260	4800	ug/Kg	U
		TCMX	70.4%	ug/Kg	
		DCB	67.3%	ug/Kg	
11ML0430	TMD-SO 055/9-10	AR1016	220	ug/Kg	U
		AR1242	220	ug/Kg	U
		AR1248	220	ug/Kg	J
		AR1254	220	ug/Kg	U
		AR1260	220	ug/Kg	U
		TCMX	78.2%	ug/Kg	
		DCB	63.1%	ug/Kg	
11ML0431	TMD-SO 055/10-11	AR1016	2400	ug/Kg	U
		AR1242	2400	ug/Kg	U
		AR1248	58000	ug/Kg	
		AR1254	2400	ug/Kg	U
		AR1260	2400	ug/Kg	U
		TCMX	68.2%	ug/Kg	
		DCB	67.5%	ug/Kg	

11ML0432	TMD-SO 056/1-2	AR1016	270 ug/Kg	U
		AR1242	270 ug/Kg	U
		AR1248	3500 ug/Kg	
		AR1254	270 ug/Kg	U
		AR1260	270 ug/Kg	U
		TCMX	91.4% ug/Kg	
		DCB	81.4% ug/Kg	
11ML0433	TMD-SO 056/2-3	AR1016	300 ug/Kg	U
		AR1242	300 ug/Kg	U
		AR1248	2370 ug/Kg	
		AR1254	300 ug/Kg	U
		AR1260	300 ug/Kg	U
		TCMX	90.7% ug/Kg	
		DCB	83.6% ug/Kg	
11ML0434	TMD0SO 056/6-7	AR1016	250 ug/Kg	U
		AR1242	250 ug/Kg	U
		AR1248	2560 ug/Kg	
		AR1254	250 ug/Kg	U
		AR1260	250 ug/Kg	U
		TCMX	88.2% ug/Kg	
		DCB	74.7% ug/Kg	
11ML0435	TMD-SO 056/12-13	AR1016	180 ug/Kg	U
		AR1242	1950 ug/Kg	
		AR1248	180 ug/Kg	U
		AR1254	180 ug/Kg	U
		AR1260	180 ug/Kg	U
		TCMX	72.9% ug/Kg	
		DCB	72.3% ug/Kg	
11ML0436	TMD-SO 056/13-14	AR1016	270 ug/Kg	U
		AR1242	270 ug/Kg	U
		AR1248	270 ug/Kg	U
		AR1254	270 ug/Kg	U
		AR1260	270 ug/Kg	U
		TCMX	86.1% ug/Kg	
		DCB	70.6% ug/Kg	
11ML0437	TMD-SO 057/2-3	AR1016	430 ug/Kg	U
		AR1242	430 ug/Kg	U
		AR1248	430 ug/Kg	U
		AR1254	430 ug/Kg	U
		AR1260	430 ug/Kg	U
		TCMX	93.4% ug/Kg	
		DCB	77.9% ug/Kg	
11ML0438	TMD-SO 057/4-4.8	AR1016	260 ug/Kg	U
		AR1242	260 ug/Kg	U
		AR1248	260 ug/Kg	U
		AR1254	260 ug/Kg	U
		AR1260	260 ug/Kg	U
		TCMX	94.4% ug/Kg	
		DCB	77.2% ug/Kg	

11ML0439	TMD-SO 057/4-4.8 R	AR1016	230 ug/Kg	U
		AR1242	230 ug/Kg	U
		AR1248	230 ug/Kg	U
		AR1254	230 ug/Kg	U
		AR1260	230 ug/Kg	U
		TCMX	93.7% ug/Kg	
		DCB	73.1% ug/Kg	
11ML0440	TMD-SO 057/6-7	AR1016	200 ug/Kg	U
		AR1242	200 ug/Kg	U
		AR1248	1270 ug/Kg	
		AR1254	200 ug/Kg	U
		AR1260	200 ug/Kg	U
		TCMX	89.2% ug/Kg	
		DCB	69.2% ug/Kg	
11ML0441	TMD-SO 057/7-7.8	AR1016	290 ug/Kg	U
		AR1242	290 ug/Kg	U
		AR1248	450 ug/Kg	
		AR1254	290 ug/Kg	U
		AR1260	290 ug/Kg	U
		TCMX	83.5% ug/Kg	
		DCB	81.9% ug/Kg	
11ML0442	TMD-SO 057/10-11	AR1016	230 ug/Kg	U
		AR1242	230 ug/Kg	U
		AR1248	180 ug/Kg	J
		AR1254	230 ug/Kg	U
		AR1260	230 ug/Kg	U
		TCMX	88.7% ug/Kg	
		DCB	66.4% ug/Kg	
11ML0443	TMD-SO 057/11-12	AR1016	270 ug/Kg	U
		AR1242	270 ug/Kg	U
		AR1248	560 ug/Kg	
		AR1254	270 ug/Kg	U
		AR1260	270 ug/Kg	U
		TCMX	90.6% ug/Kg	
		DCB	80.1% ug/Kg	
11ML0444	TMD-SO 057/12-13	AR1016	2800 ug/Kg	U
		AR1242	2800 ug/Kg	U
		AR1248	39000 ug/Kg	
		AR1254	2800 ug/Kg	U
		AR1260	2800 ug/Kg	U
		TCMX	78.7% ug/Kg	
		DCB	80.9% ug/Kg	

11ML0444 TMD-SO 057/13-13.6
Not reported.

Site Name: 10 Mile Drain
TDF# 5-314-012
Date Issued: 04/30/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-6

NARRATIVE

Twenty-one (21) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following twenty-one (21) samples are included in this narrative:

11CT04-01	11CT04-02	11CT04-03	11CT04-04
11CT04-05	11CT04-06	11CT04-07	11CT04-08
11CT04-09	11CT04-10	11CT04-11	11CT04-12
11CT04-13	11CT04-14	11CT04-15	11CT04-16
11CT04-17	11CT04-18	11CT04-19	11CT04-20
11CT04-21			

PCB Analysis

Sample Collection and Analysis

The samples were collected on April 29, 2011 and were analyzed on April 29, 2011 within the required hold times for the PCB analysis

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 26, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

All the analytes in the continuing calibration run on April 29, 2011 for AR1248 were within the QC limits of ± 35%.

The initial calibration for AR1242 was run on April 29, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110429002Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R.

Sample TMD-SO 060/5-6 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

Reviewed By: _____ Date: 4/30/11

Site Name: 10 Mile Drain
TDF# 5-314-012
Date Issued: 04/30/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-6

Samples TMD-SO 059/13-14 and TMD-SO 060/6-6.7 were analyzed at a 2x dilution. Samples TMD-SO 059/12-13 and TMD-SO 059/12-13R were analyzed at a 200x dilution.

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 4/30/11

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
MLDE110429002Bln01		AR1016		320 ug/Kg	U
		AR1242		320 ug/Kg	U
		AR1248		320 ug/Kg	U
		AR1254		320 ug/Kg	U
		AR1260		320 ug/Kg	U
		TCMX		79.1% ug/Kg	
		DCB		68.7% ug/Kg	
11ML0446	TMD-SO 058/15-15.4	AR1016		270 ug/Kg	U
		AR1242		270 ug/Kg	U
		AR1248		270 ug/Kg	U
		AR1254		270 ug/Kg	U
		AR1260		270 ug/Kg	U
		TCMX		86.6% ug/Kg	
		DCB		54.7% ug/Kg	
11ML0447	TMD-SO 058/15-15.4R	AR1016		250 ug/Kg	U
		AR1242		250 ug/Kg	U
		AR1248		250 ug/Kg	U
		AR1254		250 ug/Kg	U
		AR1260		250 ug/Kg	U
		TCMX		84.4% ug/Kg	
		DCB		61.8% ug/Kg	
11ML0448	TMD-SO 058-15.4-16	AR1016		320 ug/Kg	U
		AR1242		320 ug/Kg	U
		AR1248		320 ug/Kg	U
		AR1254		320 ug/Kg	U
		AR1260		320 ug/Kg	U
		TCMX		87.9% ug/Kg	
		DCB		60.9% ug/Kg	
11ML0449	TMD-SO 059/1-2	AR1016		300 ug/Kg	U
		AR1242		300 ug/Kg	U
		AR1248		300 ug/Kg	U
		AR1254		300 ug/Kg	U
		AR1260		300 ug/Kg	U
		TCMX		89.2% ug/Kg	
		DCB		55.0% ug/Kg	
11ML0450	TMD-SO 059/2-3	AR1016		220 ug/Kg	U
		AR1242		220 ug/Kg	U
		AR1248		220 ug/Kg	U
		AR1254		220 ug/Kg	U
		AR1260		220 ug/Kg	U
		TCMX		92.6% ug/Kg	
		DCB		69.7% ug/Kg	
11ML0451	TMD-SO 059/6-7	AR1016		200 ug/Kg	U
		AR1242		200 ug/Kg	U
		AR1248		200 ug/Kg	U
		AR1254		200 ug/Kg	U
		AR1260		200 ug/Kg	U
		TCMX		88.1% ug/Kg	
		DCB		66.5% ug/Kg	

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
11ML0452	TMD-SO 059/10-11	AR1016	250	ug/Kg	U
		AR1242	250	ug/Kg	U
		AR1248	200	ug/Kg	J
		AR1254	250	ug/Kg	U
		AR1260	250	ug/Kg	U
		TCMX	66.3%	ug/Kg	
		DCB	54.0%	ug/Kg	
11ML0453	TMD-SO 059/12-13	AR1016	43000	ug/Kg	U
		AR1242	43000	ug/Kg	U
		AR1248	1300000	ug/Kg	
		AR1254	43000	ug/Kg	U
		AR1260	43000	ug/Kg	U
		TCMX	69.2%	ug/Kg	
		DCB	70.0%	ug/Kg	
11ML0454	TMD-SO 059/12-13R	AR1016	51000	ug/Kg	U
		AR1242	51000	ug/Kg	U
		AR1248	1300000	ug/Kg	
		AR1254	51000	ug/Kg	U
		AR1260	51000	ug/Kg	U
		TCMX	71.1%	ug/Kg	
		DCB	64.2%	ug/Kg	
11ML0455	TMD-SO 059/13-14	AR1016	460	ug/Kg	U
		AR1242	460	ug/Kg	U
		AR1248	18000	ug/Kg	
		AR1254	460	ug/Kg	U
		AR1260	460	ug/Kg	U
		TCMX	67.0%	ug/Kg	
		DCB	56.6%	ug/Kg	
11ML0456	TMD-SO 060/1-2	AR1016	240	ug/Kg	U
		AR1242	240	ug/Kg	U
		AR1248	170	ug/Kg	J
		AR1254	240	ug/Kg	U
		AR1260	240	ug/Kg	U
		TCMX	94.4%	ug/Kg	
		DCB	71.6%	ug/Kg	
11ML0457	TMD-SO 060/2-3	AR1016	430	ug/Kg	U
		AR1242	430	ug/Kg	U
		AR1248	430	ug/Kg	U
		AR1254	430	ug/Kg	U
		AR1260	430	ug/Kg	U
		TCMX	94.9%	ug/Kg	
		DCB	67.2%	ug/Kg	
11ML0458	TMD-SO 060/5-6	AR1016	280	ug/Kg	U
		AR1242	280	ug/Kg	U
		AR1248	280	ug/Kg	U
		AR1254	280	ug/Kg	U
		AR1260	280	ug/Kg	U
		TCMX	92.9%	ug/Kg	
		DCB	65.6%	ug/Kg	

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
11ML059	TMD-SO 060/6-6.7	AR1016		370 ug/Kg	U
		AR1242		370 ug/Kg	U
		AR1248		12000 ug/Kg	
		AR1254		370 ug/Kg	U
		AR1260		370 ug/Kg	U
		TCMX		74.0% ug/Kg	
		DCB		66.4% ug/Kg	
11ML0460	TMD-SO 060/12.2-13.2	AR1016		290 ug/Kg	U
		AR1242		290 ug/Kg	U
		AR1248		290 ug/Kg	U
		AR1254		290 ug/Kg	U
		AR1260		290 ug/Kg	U
		TCMX		78.0% ug/Kg	
		DCB		55.0% ug/Kg	
11ML0461	TMD-SO 061/6-7	AR1016		230 ug/Kg	U
		AR1242		230 ug/Kg	U
		AR1248		230 ug/Kg	U
		AR1254		230 ug/Kg	U
		AR1260		230 ug/Kg	U
		TCMX		91.4% ug/Kg	
		DCB		73.8% ug/Kg	
11ML0462	TMD-SO 061/10-11	AR1016		220 ug/Kg	U
		AR1242		220 ug/Kg	U
		AR1248		1780 ug/Kg	
		AR1254		220 ug/Kg	U
		AR1260		220 ug/Kg	U
		TCMX		66.7% ug/Kg	
		DCB		62.6% ug/Kg	
11ML0463	TMD-SO 061/11.5-12.2	AR1016		210 ug/Kg	U
		AR1242		210 ug/Kg	U
		AR1248		1000 ug/Kg	
		AR1254		210 ug/Kg	U
		AR1260		210 ug/Kg	U
		TCMX		73.1% ug/Kg	
		DCB		65.5% ug/Kg	
11ML0464	TMD-SO 062/1-2	AR1016		200 ug/Kg	U
		AR1242		200 ug/Kg	U
		AR1248		200 ug/Kg	U
		AR1254		200 ug/Kg	U
		AR1260		200 ug/Kg	U
		TCMX		91.1% ug/Kg	
		DCB		66.6% ug/Kg	

11ML 0465 TMD-SO 062/2-3

11ML 0466 TMD-SO 062/5-6

Not Reported!!!

Stop cost @ 6-Street Vault

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 05/01/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-7

NARRATIVE

Eight (8) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following eight (8) samples are included in this narrative:

11CT04-22	11CT04-23	11CT04-24	11CT04-25
11CT04-26	11CT04-27	11CT04-28	11CT04-29

PCB Analysis

Sample Collection and Analysis

The samples were collected on April 30, 2011 and were analyzed on April 30, 2011 within the required hold times for the PCB analysis

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 26, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1242 was run on April 29, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

All the analytes in the continuing calibrations run on April 30, 2011 for AR1242 and AR1248 were within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110430001Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R.

Sample TMD-SO 064/10-11 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

Sample TMD-SO 064/10-11 was analyzed at a 40x dilution. Samples TMD-SO 064/12-13 and TMD-SO 064/12-13R were analyzed at a 100x dilution.

Reviewed By: _____ Date: 5/1/11

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 05/01/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-7

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 5/1/11

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
MLDE110430001Bln01		AR1016	230	ug/Kg	U
		AR1242	230	ug/Kg	U
		AR1248	230	ug/Kg	U
		AR1254	230	ug/Kg	U
		AR1260	230	ug/Kg	U
		TCMX	103.3%	ug/Kg	
		DCB	87.5%	ug/Kg	
11ML0467	TMD-SO 064/1-2	AR1016	300	ug/Kg	U
		AR1242	300	ug/Kg	U
		AR1248	300	ug/Kg	U
		AR1254	300	ug/Kg	U
		AR1260	300	ug/Kg	U
		TCMX	107.2%	ug/Kg	
		DCB	82.1%	ug/Kg	
11ML0468	TMD-SO 064/2-3	AR1016	240	ug/Kg	U
		AR1242	240	ug/Kg	U
		AR1248	910	ug/Kg	
		AR1254	240	ug/Kg	U
		AR1260	240	ug/Kg	U
		TCMX	77.5%	ug/Kg	
		DCB	59.8%	ug/Kg	
11ML0469	TMD-SO 064/6-7	AR1016	220	ug/Kg	U
		AR1242	220	ug/Kg	U
		AR1248	220	ug/Kg	U
		AR1254	220	ug/Kg	U
		AR1260	220	ug/Kg	U
		TCMX	90.7%	ug/Kg	
		DCB	76.2%	ug/Kg	
11ML0470	TMD-SO 064/8-9	AR1016	200	ug/Kg	U
		AR1242	200	ug/Kg	U
		AR1248	5500	ug/Kg	
		AR1254	200	ug/Kg	U
		AR1260	200	ug/Kg	U
		TCMX	85.4%	ug/Kg	
		DCB	70.9%	ug/Kg	
11ML0471	TMD-SO 064/10-11	AR1016	9400	ug/Kg	U
		AR1242	9400	ug/Kg	U
		AR1248	260,000	ug/Kg	
		AR1254	9400	ug/Kg	U
		AR1260	9400	ug/Kg	U
		TCMX	75.7%	ug/Kg	
		DCB	70.8%	ug/Kg	
11ML0472	TMD-SO 064/12-13	AR1016	26000	ug/Kg	U
		AR1242	26000	ug/Kg	U
		AR1248	920,000	ug/Kg	
		AR1254	26000	ug/Kg	U
		AR1260	26000	ug/Kg	U
		TCMX	72.1%	ug/Kg	
		DCB	63.2%	ug/Kg	

Mobile Laboratory
Sample Results

11ML0473	TMD-SO 064/12-13R	AR1016	25000 ug/Kg	U
		AR1242	25000 ug/Kg	U
		AR1248	900,000 ug/Kg	
		AR1254	25000 ug/Kg	U
		AR1260	25000 ug/Kg	U
		TCMX	73.9% ug/Kg	
		DCB	78.4% ug/Kg	
11ML0474	TMD-SO 064/13/14	AR1016	270 ug/Kg	U
		AR1242	270 ug/Kg	U
		AR1248	2800 ug/Kg	
		AR1254	270 ug/Kg	U
		AR1260	270 ug/Kg	U
		TCMX	95.3% ug/Kg	
		DCB	73.3% ug/Kg	

Site Name: 10 Mile Drain
TDF# 5-314-012
Date Issued: 05/02/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-8

NARRATIVE

Twenty-one (21) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following twenty-one (21) samples are included in this narrative:

11CT04-29	11CT04-30	11CT04-31	11CT04-32
11CT04-33	11CT04-34	11CT04-35	11CT04-36
11CT04-37	11CT04-38	11CT04-39	11CT04-40
11CT04-41	11CT04-42	11CT04-43	11CT04-44
11CT04-45	11CT04-46	11CT04-47	11CT04-48
11CT04-49			

PCB Analysis

Sample Collection and Analysis

The samples were collected on April 30, 2011 and were analyzed on May 1, 2011 within the required hold times for the PCB analysis

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 26, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1242 was run on April 29, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

All the analytes in the continuing calibrations run on May 1, 2011 for AR1242 and AR1248 were within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110501001Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R.

Sample TMD-SO 065/1.3-2 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

Reviewed By: _____ Date: 5/2/11

Site Name: 10 Mile Drain
TDF# 5-314-012
Date Issued: 05/02/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-8

Sample TMD-SO 0068/13-14 was analyzed at a 10x dilution. Samples TMD-SO 068/10-11 and TMD-SO 068/12-13 were analyzed at a 5000x dilution.

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 5/2/11

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
MLDE110501001Bln01		AR1016	300	ug/Kg	U
		AR1242	300	ug/Kg	U
		AR1248	300	ug/Kg	U
		AR1254	300	ug/Kg	U
		AR1260	300	ug/Kg	U
		TCMX	103.6%	ug/Kg	
		DCB	89.3%	ug/Kg	
11ML0475	TMD-SO 065/1.3-2	AR1016	290	ug/Kg	U
		AR1242	290	ug/Kg	U
		AR1248	290	ug/Kg	U
		AR1254	290	ug/Kg	U
		AR1260	290	ug/Kg	U
		TCMX	106.3%	ug/Kg	
		DCB	99.1%	ug/Kg	
11ML0476	TMD-SO 065/2-3	AR1016	260	ug/Kg	U
		AR1242	260	ug/Kg	U
		AR1248	260	ug/Kg	U
		AR1254	260	ug/Kg	U
		AR1260	260	ug/Kg	U
		TCMX	103.5%	ug/Kg	
		DCB	76.9%	ug/Kg	
11ML0477	TMD-SO 065/6-7	AR1016	250	ug/Kg	U
		AR1242	250	ug/Kg	U
		AR1248	250	ug/Kg	U
		AR1254	250	ug/Kg	U
		AR1260	250	ug/Kg	U
		TCMX	98.1%	ug/Kg	
		DCB	66.4%	ug/Kg	
11ML0478	TMD-SO 065/6-7R	AR1016	200	ug/Kg	U
		AR1242	200	ug/Kg	U
		AR1248	200	ug/Kg	U
		AR1254	200	ug/Kg	U
		AR1260	200	ug/Kg	U
		TCMX	105.5%	ug/Kg	
		DCB	56.0%	ug/Kg	
11ML0479	TMD-SO 065/7-8	AR1016	260	ug/Kg	U
		AR1242	260	ug/Kg	U
		AR1248	260	ug/Kg	U
		AR1254	260	ug/Kg	U
		AR1260	260	ug/Kg	U
		TCMX	104.8%	ug/Kg	
		DCB	73.0%	ug/Kg	
11ML0480	TMD-SO 065/10-11	AR1016	300	ug/Kg	U
		AR1242	300	ug/Kg	U
		AR1248	300	ug/Kg	U
		AR1254	300	ug/Kg	U
		AR1260	300	ug/Kg	U
		TCMX	110.7%	ug/Kg	
		DCB	96.6%	ug/Kg	

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
11ML0481	TMD-SO 065/11-12	AR1016	250	ug/Kg	U
		AR1242	250	ug/Kg	U
		AR1248	250	ug/Kg	U
		AR1254	250	ug/Kg	U
		AR1260	250	ug/Kg	U
		TCMX	106.1%	ug/Kg	
		DCB	77.8%	ug/Kg	
11ML0482	TMD-SO 065/13-13.2	AR1016	210	ug/Kg	U
		AR1242	210	ug/Kg	U
		AR1248	210	ug/Kg	U
		AR1254	210	ug/Kg	U
		AR1260	210	ug/Kg	U
		TCMX	98.4%	ug/Kg	
		DCB	86.5%	ug/Kg	
11ML0483	TMD-SO 066/10-11	AR1016	320	ug/Kg	U
		AR1242	320	ug/Kg	U
		AR1248	320	ug/Kg	U
		AR1254	320	ug/Kg	U
		AR1260	320	ug/Kg	U
		TCMX	97.5%	ug/Kg	
		DCB	76.0%	ug/Kg	
11ML0484	TMD-SO 066/~~12~~-12 (13 GK)	AR1016	240	ug/Kg	U
		AR1242	240	ug/Kg	U
		AR1248	240	ug/Kg	U
		AR1254	240	ug/Kg	U
		AR1260	240	ug/Kg	U
		TCMX	101.8%	ug/Kg	
		DCB	82.0%	ug/Kg	
11ML0485	TMD-SO 066/13-14	AR1016	290	ug/Kg	U
		AR1242	290	ug/Kg	U
		AR1248	290	ug/Kg	U
		AR1254	290	ug/Kg	U
		AR1260	290	ug/Kg	U
		TCMX	108.0%	ug/Kg	
		DCB	81.5%	ug/Kg	
11ML0486	TMD-SO 067/10-11	AR1016	400	ug/Kg	U
		AR1242	400	ug/Kg	U
		AR1248	400	ug/Kg	U
		AR1254	400	ug/Kg	U
		AR1260	400	ug/Kg	U
		TCMX	106.4%	ug/Kg	
		DCB	88.9%	ug/Kg	
11ML0487	TMD-SO 067/11-12	AR1016	290	ug/Kg	U
		AR1242	290	ug/Kg	U
		AR1248	290	ug/Kg	U
		AR1254	290	ug/Kg	U
		AR1260	290	ug/Kg	U
		TCMX	102.4%	ug/Kg	
		DCB	83.0%	ug/Kg	

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
11ML0488	TMD-SO 067/12-13	AR1016	310	ug/Kg	U
		AR1242	310	ug/Kg	U
		AR1248	310	ug/Kg	U
		AR1254	310	ug/Kg	U
		AR1260	310	ug/Kg	U
		TCMX	100.5%	ug/Kg	
		DCB	67.4%	ug/Kg	
11ML0489	TMD-SO 068/6-7	AR1016	230	ug/Kg	U
		AR1242	230	ug/Kg	U
		AR1248	230	ug/Kg	U
		AR1254	230	ug/Kg	U
		AR1260	230	ug/Kg	U
		TCMX	102.5%	ug/Kg	
		DCB	61.5%	ug/Kg	
11ML0490	TMD-SO 068/6-7R	AR1016	260	ug/Kg	U
		AR1242	260	ug/Kg	U
		AR1248	260	ug/Kg	U
		AR1254	260	ug/Kg	U
		AR1260	260	ug/Kg	U
		TCMX	106.9%	ug/Kg	
		DCB	83.1%	ug/Kg	
11ML0491	TMD-SO 068/7-8	AR1016	230	ug/Kg	U
		AR1242	230	ug/Kg	U
		AR1248	230	ug/Kg	U
		AR1254	230	ug/Kg	U
		AR1260	230	ug/Kg	U
		TCMX	104.8%	ug/Kg	
		DCB	74.2%	ug/Kg	
11ML0492	TMD-SO 068/10-11	AR1016	120,000	ug/Kg	U
		AR1242	120,000	ug/Kg	U
		AR1248	3,200,000	ug/Kg	
		AR1254	120,000	ug/Kg	U
		AR1260	120,000	ug/Kg	U
		TCMX	83.1%	ug/Kg	
		DCB	132.5%	ug/Kg	
11ML0493	TMD-SO 068/12-13	AR1016	100,000	ug/Kg	U
		AR1242	100,000	ug/Kg	U
		AR1248	2,200,000	ug/Kg	
		AR1254	100,000	ug/Kg	U
		AR1260	100,000	ug/Kg	U
		TCMX	88.9%	ug/Kg	
		DCB	125.0%	ug/Kg	
11ML0494	TMD-SO 068/13-14	AR1016	2900	ug/Kg	U
		AR1242	2900	ug/Kg	U
		AR1248	42,000	ug/Kg	
		AR1254	2900	ug/Kg	U
		AR1260	2900	ug/Kg	U
		TCMX	100.1%	ug/Kg	
		DCB	97.1%	ug/Kg	
11ML0495	TMD-SO 063/MH	AR1016	0	ug/Kg	U

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
		AR1242	0	ug/Kg	U
		AR1248	11,000	ug/Kg	
		AR1254	0	ug/Kg	U
		AR1260	0	ug/Kg	U
		TCMX	68.9%	ug/Kg	
		DCB	54.9%	ug/Kg	

Site Name: 10 Mile Drain
TDF# 5-314-012
Date Issued: 05/03/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-9

NARRATIVE

Twenty (20) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following twenty (20) samples are included in this narrative:

11CT04-50	11CT04-51	11CT04-52	11CT04-53
11CT04-54	11CT04-55	11CT04-56	11CT04-57
11CT04-58	11CT04-59	11CT04-60	11CT04-61
11CT04-62	11CT04-63	11CT04-64	11CT04-65
11CT04-66	11CT04-67	11CT04-68	11CT04-69

PCB Analysis

Sample Collection and Analysis

The samples were collected on May 1 and 2, 2011 and were analyzed on May 2, 2011 within the required hold times for the PCB analysis

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 26, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1242 was run on April 29, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

All the analytes in the continuing calibrations run on May 2, 2011 for AR1242 and AR1248 were within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110502001Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R except Decachlorobiphenyl was below the limit in sample TMD-SO 071/0-1. No samples are qualified when only one surrogate is out of control.

Sample TMD-SO 070/4-5 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R

Reviewed By: _____ Date: 5/3/11

Site Name: 10 Mile Drain
TDF# 5-314-012
Date Issued: 05/03/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-9

(percent recovery).

Sample TMD-SO 069/10-11 was analyzed at a 10x dilution. Sample TMD-SO 070/2-3 was analyzed at a 40x dilution.

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 5/3/11

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
MLDE110502001BIn01		AR1016	290	ug/Kg	U
		AR1242	290	ug/Kg	U
		AR1248	290	ug/Kg	U
		AR1254	290	ug/Kg	U
		AR1260	290	ug/Kg	U
		TCMX	101.1%	ug/Kg	
		DCB	80.1%	ug/Kg	
11ML0496	TMD-SO 069/1-2	AR1016	230	ug/Kg	U
		AR1242	230	ug/Kg	U
		AR1248	230	ug/Kg	U
		AR1254	230	ug/Kg	U
		AR1260	230	ug/Kg	U
		TCMX	99.9%	ug/Kg	
		DCB	76.5%	ug/Kg	
11ML0497	TMD-SO 069/2-2.8 GK	AR1016	260	ug/Kg	U
		AR1242	260	ug/Kg	U
		AR1248	260	ug/Kg	U
		AR1254	260	ug/Kg	U
		AR1260	260	ug/Kg	U
		TCMX	99.3%	ug/Kg	
		DCB	68.6%	ug/Kg	
11ML0498	TMD-SO 069/6-7	AR1016	250	ug/Kg	U
		AR1242	250	ug/Kg	U
		AR1248	250	ug/Kg	U
		AR1254	250	ug/Kg	U
		AR1260	250	ug/Kg	U
		TCMX	95.0%	ug/Kg	
		DCB	57.4%	ug/Kg	
11ML0499	TMD-SO 069/8-9	AR1016	200	ug/Kg	U
		AR1242	200	ug/Kg	U
		AR1248	200	ug/Kg	U
		AR1254	200	ug/Kg	U
		AR1260	200	ug/Kg	U
		TCMX	83.3%	ug/Kg	
		DCB	59.6%	ug/Kg	
11ML0500	TMD-SO 069/10-11	AR1016	3200	ug/Kg	U
		AR1242	3200	ug/Kg	U
		AR1248	66,000	ug/Kg	
		AR1254	3200	ug/Kg	U
		AR1260	3200	ug/Kg	U
		TCMX	85.4%	ug/Kg	
		DCB	71.2%	ug/Kg	
11ML0501	TMD-SO 069/11-12	AR1016	300	ug/Kg	U
		AR1242	300	ug/Kg	U
		AR1248	160	ug/Kg	J
		AR1254	300	ug/Kg	U
		AR1260	300	ug/Kg	U
		TCMX	103.0%	ug/Kg	
		DCB	64.6%	ug/Kg	

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
11ML0502	TMD-SO 070/2-3	AR1016	13000	ug/Kg	U
		AR1242	13000	ug/Kg	U
		AR1248	420,000	ug/Kg	
		AR1254	13000	ug/Kg	U
		AR1260	13000	ug/Kg	U
		TCMX	86.9%	ug/Kg	
	4-5	DCB	76.5%	ug/Kg	
11ML0503	TMD-SO 070/5-4	AR1016	290	ug/Kg	U
		AR1242	290	ug/Kg	U
		AR1248	580	ug/Kg	
		AR1254	290	ug/Kg	U
		AR1260	290	ug/Kg	U
		TCMX	110.7%	ug/Kg	
		DCB	83.8%	ug/Kg	
11ML0504	TMD-SO 070/4-5	AR1016	260	ug/Kg	U
		AR1242	260	ug/Kg	U
	TMD-SO 070/10-11	AR1248	260	ug/Kg	U
	Missing	AR1254	260	ug/Kg	U
		AR1260	260	ug/Kg	U
		TCMX	113.7%	ug/Kg	
		DCB	73.4%	ug/Kg	
11ML0505	TMD-SO 070/6-7	AR1016	210	ug/Kg	U
		AR1242	210	ug/Kg	U
		AR1248	210	ug/Kg	U
		AR1254	210	ug/Kg	U
		AR1260	210	ug/Kg	U
		TCMX	107.6%	ug/Kg	
		DCB	61.7%	ug/Kg	
11ML0506	TMD-SO 070/6-7R	AR1016	200	ug/Kg	U
		AR1242	200	ug/Kg	U
		AR1248	1400	ug/Kg	
		AR1254	200	ug/Kg	U
		AR1260	200	ug/Kg	U
		TCMX	105.9%	ug/Kg	
		DCB	69.2%	ug/Kg	
11ML0507	TMD-SO 070/8-9	AR1016	400	ug/Kg	U
		AR1242	400	ug/Kg	U
		AR1248	230	ug/Kg	J
		AR1254	400	ug/Kg	U
		AR1260	400	ug/Kg	U
		TCMX	106.6%	ug/Kg	
		DCB	68.4%	ug/Kg	
11ML0508	TMD-SO 070/11-12	AR1016	260	ug/Kg	U
		AR1242	260	ug/Kg	U
		AR1248	130	ug/Kg	J
		AR1254	260	ug/Kg	U
		AR1260	260	ug/Kg	U
		TCMX	103.6%	ug/Kg	
		DCB	68.4%	ug/Kg	

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
11ML0509	TMD-SO 070/12-13	AR1016	3600	ug/Kg	
		AR1242	290	ug/Kg	U
		AR1248	290	ug/Kg	U
		AR1254	290	ug/Kg	U
		AR1260	290	ug/Kg	U
		TCMX	84.6%	ug/Kg	
		DCB	63.8%	ug/Kg	
11ML0510	TMD-SO 071/0-1	AR1016	200	ug/Kg	U
		AR1242	200	ug/Kg	U
		AR1248	6400	ug/Kg	
		AR1254	200	ug/Kg	U
		AR1260	200	ug/Kg	U
		TCMX	94.2%	ug/Kg	
		DCB	46.0%	ug/Kg	J
11ML0511	TMD-SO 071/2-3	AR1016	260	ug/Kg	U
		AR1242	260	ug/Kg	U
		AR1248	1290	ug/Kg	
		AR1254	260	ug/Kg	U
		AR1260	260	ug/Kg	U
		TCMX	101.4%	ug/Kg	
		DCB	68.3%	ug/Kg	
11ML0512	TMD-SO 071/6-7	AR1016	260	ug/Kg	U
		AR1242	260	ug/Kg	U
		AR1248	4040	ug/Kg	
		AR1254	260	ug/Kg	U
		AR1260	260	ug/Kg	U
		TCMX	99.2%	ug/Kg	
		DCB	53.0%	ug/Kg	
11ML0513	TMD-SO 071/9-9.7	AR1016	220	ug/Kg	U
		AR1242	220	ug/Kg	U
		AR1248	220	ug/Kg	J
		AR1254	220	ug/Kg	U
		AR1260	220	ug/Kg	U
		TCMX	102.7%	ug/Kg	
		DCB	53.0%	ug/Kg	
11ML0514	TMD-SO 071/10-11	AR1016	300	ug/Kg	U
		AR1242	300	ug/Kg	U
		AR1248	300	ug/Kg	U
		AR1254	300	ug/Kg	U
		AR1260	300	ug/Kg	U
		TCMX	88.3%	ug/Kg	
		DCB	74.8%	ug/Kg	
11ML0515	TMD-SO 11-12	AR1016	200	ug/Kg	U
		AR1242	200	ug/Kg	U
		AR1248	200	ug/Kg	U
		AR1254	200	ug/Kg	U
		AR1260	200	ug/Kg	U
		TCMX	82.0%	ug/Kg	
		DCB	61.3%	ug/Kg	

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 05/03/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-10

NARRATIVE

Eight (8) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following eight (8) samples are included in this narrative:

11CT04-70	11CT04-71	11CT04-72	11CT04-73
11CT04-74	11CT04-75	11CT04-76	11CT04-77

PCB Analysis

Sample Collection and Analysis

The samples were collected on May 2, 2011 and were analyzed on May 2, 2011 within the required hold times for the PCB analysis

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 26, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1242 was run on April 29, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

All the analytes in the continuing calibrations run on May 2, 2011 for AR1242 and AR1248 were within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110502002Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R.

Sample TMD-SO 073/6-7 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

Sample TMD-SO 073/13-14 was analyzed at a 10x dilution.

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of

Reviewed By: _____ Date: 5/2/11

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 05/03/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-10

the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 5/5/11

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
MLDE110502002Bln01		AR1016	290	ug/Kg	U
		AR1242	290	ug/Kg	U
		AR1248	290	ug/Kg	U
		AR1254	290	ug/Kg	U
		AR1260	290	ug/Kg	U
		TCMX	103.7%	ug/Kg	
		DCB	92.4%	ug/Kg	
11ML0516	TMD-SO 072/11-12R	AR1016	210	ug/Kg	U
		AR1242	210	ug/Kg	U
		AR1248	210	ug/Kg	U
		AR1254	210	ug/Kg	U
		AR1260	210	ug/Kg	U
		TCMX	90.6%	ug/Kg	
		DCB	75.8%	ug/Kg	
11ML0517	TMD-SO 072/12-13	AR1016	290	ug/Kg	U
		AR1242	290	ug/Kg	U
		AR1248	290	ug/Kg	U
		AR1254	290	ug/Kg	U
		AR1260	290	ug/Kg	U
		TCMX	98.9%	ug/Kg	
		DCB	76.0%	ug/Kg	
11ML0518	TMD-SO 073/0-1	AR1016	250	ug/Kg	U
		AR1242	250	ug/Kg	U
		AR1248	160	ug/Kg	J
		AR1254	250	ug/Kg	U
		AR1260	250	ug/Kg	U
		TCMX	108.4%	ug/Kg	
		DCB	88.7%	ug/Kg	
11ML0519	TMD-SO 073/1-2	AR1016	300	ug/Kg	U
		AR1242	300	ug/Kg	U
		AR1248	300	ug/Kg	U
		AR1254	300	ug/Kg	U
		AR1260	300	ug/Kg	U
		TCMX	108.8%	ug/Kg	
		DCB	99.4%	ug/Kg	
11ML0520	TMD-SO 073/6-7	AR1016	270	ug/Kg	U
		AR1242	270	ug/Kg	U
		AR1248	270	ug/Kg	U
		AR1254	270	ug/Kg	U
		AR1260	270	ug/Kg	U
		TCMX	106.3%	ug/Kg	
		DCB	92.3%	ug/Kg	
11ML0521	TMD-SO 073/10-11	AR1016	200	ug/Kg	U
		AR1242	200	ug/Kg	U
		AR1248	200	ug/Kg	U
		AR1254	200	ug/Kg	U
		AR1260	200	ug/Kg	U
		TCMX	98.1%	ug/Kg	
		DCB	68.5%	ug/Kg	

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
11ML0522	TMD-SO 073/12-13	AR1016	210	ug/Kg	U
		AR1242	210	ug/Kg	U
		AR1248	210	ug/Kg	U
		AR1254	210	ug/Kg	U
		AR1260	210	ug/Kg	U
		TCMX	97.2%	ug/Kg	
		DCB	77.0%	ug/Kg	
11ML0523	TMD-SO 073/13-14	AR1016	2200	ug/Kg	U
		AR1242	2200	ug/Kg	U
		AR1248	34000	ug/Kg	
		AR1254	2200	ug/Kg	U
		AR1260	2200	ug/Kg	U
		TCMX	81.1%	ug/Kg	
		DCB	75.3%	ug/Kg	

Analyte	Sample Result	MS Result	%R	spike
AR1016	270	310		1000
AR1242	270	310		3086.42
AR1248	270	2800	82.0%	
AR1254	270	310		
AR1260	270	310		

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 05/03/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-11

NARRATIVE

Three (3) water samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following three (3) samples are included in this narrative:

11CT01-27	11CT01-28	11CT01-29	

PCB Analysis

Sample Collection and Analysis

The samples were collected on April 29, 30 and May 2, 2011 and were analyzed on May 3, 2011 within the required hold times for the selected PCB analytes.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 26, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1242 was run on April 29, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

All the analytes in the continuing calibrations run on May 3, 2011 for AR1242 and AR1248 were within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110503001Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 60-140 %R.

Sample TMD-GW 076/M11 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Reviewed By: _____ Date: 5-3-11

Site Name: 10 Mile Drain Author: Christina Rice
TDF# 5-314-001 Charge# 03037.4.14.02.03.B5VE.000.001
Date Issued: 05/03/11 Report Title: StClair 2-11
Analysis: PCBs

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 5-3-11

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
MLDE110502001Blnk01		AR1016	5	ug/Kg	U
		AR1242	5	ug/Kg	U
		AR1248	5	ug/Kg	U
		AR1254	5	ug/Kg	U
		AR1260	5	ug/Kg	U
		TCMX	79.9%	ug/Kg	
		DCB	132.2%	ug/Kg	
11ML0524	TMD-GW 063/MH	AR1016	5	ug/Kg	U
		AR1242	5	ug/Kg	U
		AR1248	5	ug/Kg	U
		AR1254	5	ug/Kg	U
		AR1260	5	ug/Kg	U
		TCMX	94.5%	ug/Kg	
		DCB	94.5%	ug/Kg	
11ML0525	TMD-GW 065/5	AR1016	5	ug/Kg	U
		AR1242	5	ug/Kg	U
		AR1248	5	ug/Kg	U
		AR1254	5	ug/Kg	U
		AR1260	5	ug/Kg	U
		TCMX	98.1%	ug/Kg	
		DCB	90.2%	ug/Kg	
11ML0526	TMD-SO 076/MH	AR1016	5	ug/Kg	U
		AR1242	5	ug/Kg	U
		AR1248	5	ug/Kg	U
		AR1254	5	ug/Kg	U
		AR1260	5	ug/Kg	U
		TCMX	67.0%	ug/Kg	
		DCB	99.4%	ug/Kg	

Analyte	Sample Result	MS Result	%R	spike
AR1016	5	5		1000
AR1242	5	5		50
AR1248	5	40	83.9%	
AR1254	5	5		
AR1260	5	5		

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 05/04/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-12

NARRATIVE

Nineteen (19) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following nineteen (19) samples are included in this narrative:

11CT04-78	11CT04-79	11CT04-80	11CT04-81
11CT04-82	11CT04-83	11CT04-84	11CT04-85
11CT04-86	11CT04-87	11CT04-88	11CT04-89
11CT04-90	11CT04-91	11CT04-92	11CT04-93
11CT04-94	11CT04-95	11CT04-96	

PCB Analysis

Sample Collection and Analysis

The samples were collected on May 2 and 3, 2011 and were analyzed on May 3, 2011 within the required hold times for the selected PCB analytes.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 26, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1242 was run on April 29, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

All the analytes in the continuing calibrations run on May 3, 2011 for AR1242 and AR1248 were within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110503002Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R.

Sample TMD-SO 077/8-9 was utilized as the matrix spike in this sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R (percent recovery).

Reviewed By: _____ Date: 5-4-11

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 05/04/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-12

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 5-9-11

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
MLDE110503002Bln01		AR1016	200	ug/Kg	U
		AR1242	200	ug/Kg	U
		AR1248	200	ug/Kg	U
		AR1254	200	ug/Kg	U
		AR1260	200	ug/Kg	U
		TCMX	96.3%	ug/Kg	
		DCB	117.3%	ug/Kg	
11ML0527	TMD-SO 074/4-5	AR1016	260	ug/Kg	U
		AR1242	260	ug/Kg	U
		AR1248	260	ug/Kg	U
		AR1254	260	ug/Kg	U
		AR1260	260	ug/Kg	U
		TCMX	96.4%	ug/Kg	
		DCB	101.7%	ug/Kg	
11ML0528	TMD-SO 074/6-7	AR1016	240	ug/Kg	U
		AR1242	240	ug/Kg	U
		AR1248	240	ug/Kg	U
		AR1254	240	ug/Kg	U
		AR1260	240	ug/Kg	U
		TCMX	93.8%	ug/Kg	
		DCB	82.2%	ug/Kg	
11ML0529	TMDSO 074/8-9	AR1016	260	ug/Kg	U
		AR1242	260	ug/Kg	U
		AR1248	260	ug/Kg	U
		AR1254	260	ug/Kg	U
		AR1260	260	ug/Kg	U
		TCMX	99.9%	ug/Kg	
		DCB	113.8%	ug/Kg	
11ML0530	TMDSO 074/10-11	AR1016	200	ug/Kg	U
		AR1242	200	ug/Kg	U
		AR1248	200	ug/Kg	U
		AR1254	200	ug/Kg	U
		AR1260	200	ug/Kg	U
		TCMX	90.3%	ug/Kg	
		DCB	79.5%	ug/Kg	
11ML0531	TMD-SO 074/12-13	AR1016	280	ug/Kg	U
		AR1242	280	ug/Kg	U
		AR1248	280	ug/Kg	U
		AR1254	280	ug/Kg	U
		AR1260	280	ug/Kg	U
		TCMX	94.4%	ug/Kg	
		DCB	103.9%	ug/Kg	
11ML0532	TMD-SO 074/13-14	AR1016	200	ug/Kg	U
		AR1242	200	ug/Kg	U
		AR1248	200	ug/Kg	U
		AR1254	200	ug/Kg	U
		AR1260	200	ug/Kg	U
		TCMX	99.8%	ug/Kg	
		DCB	118.9%	ug/Kg	

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
11ML0533	TMD-SO 075/1-2	AR1016	270	ug/Kg	U
		AR1242	270	ug/Kg	U
		AR1248	270	ug/Kg	U
		AR1254	270	ug/Kg	U
		AR1260	270	ug/Kg	U
		TCMX	102.4%	ug/Kg	
		DCB	105.3%	ug/Kg	
11ML0534	TMD-SO 075/2-3	AR1016	260	ug/Kg	U
		AR1242	260	ug/Kg	U
		AR1248	260	ug/Kg	U
		AR1254	260	ug/Kg	U
		AR1260	260	ug/Kg	U
		TCMX	105.6%	ug/Kg	
		DCB	107.3%	ug/Kg	
11ML0535	TMD-SO 075/5.5-6.5	AR1016	180	ug/Kg	U
		AR1242	180	ug/Kg	U
		AR1248	180	ug/Kg	U
		AR1254	180	ug/Kg	U
		AR1260	180	ug/Kg	U
		TCMX	54.6%	ug/Kg	
		DCB	63.3%	ug/Kg	
11ML0536	TMD-SO 075/10-11	AR1016	250	ug/Kg	U
		AR1242	250	ug/Kg	U
		AR1248	250	ug/Kg	U
		AR1254	250	ug/Kg	U
		AR1260	250	ug/Kg	U
		TCMX	104.6%	ug/Kg	
		DCB	94.0%	ug/Kg	
11ML0537	TMD-SO 075/11-11.5	AR1016	240	ug/Kg	U
		AR1242	240	ug/Kg	U
		AR1248	240	ug/Kg	U
		AR1254	240	ug/Kg	U
		AR1260	240	ug/Kg	U
		TCMX	75.4%	ug/Kg	
		DCB	80.2%	ug/Kg	
11ML0538	TMD-SO 075/11-11.5R	AR1016	400	ug/Kg	U
		AR1242	400	ug/Kg	U
		AR1248	400	ug/Kg	U
		AR1254	400	ug/Kg	U
		AR1260	400	ug/Kg	U
		TCMX	80.2%	ug/Kg	
		DCB	89.3%	ug/Kg	
11ML0539	TMD-SO 075/12[redacted]-13[redacted]	AR1016	260	ug/Kg	U
		AR1242	260	ug/Kg	U
		AR1248	260	ug/Kg	U
		AR1254	260	ug/Kg	U
		AR1260	260	ug/Kg	U
		TCMX	97.4%	ug/Kg	
		DCB	116.5%	ug/Kg	

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
11ML0540	TMD-SO 077/2-2.5	AR1016	280	ug/Kg	U
		AR1242	280	ug/Kg	U
		AR1248	280	ug/Kg	U
		AR1254	280	ug/Kg	U
		AR1260	280	ug/Kg	U
		TCMX	99.4%	ug/Kg	
		DCB	111.1%	ug/Kg	
11ML0541	TMD-SO 077/3-4	AR1016	250	ug/Kg	U
		AR1242	250	ug/Kg	U
		AR1248	250	ug/Kg	U
		AR1254	250	ug/Kg	U
		AR1260	250	ug/Kg	U
		TCMX	98.0%	ug/Kg	
		DCB	92.9%	ug/Kg	
11ML0542	TMD-SO 077/3-4R	AR1016	300	ug/Kg	U
		AR1242	300	ug/Kg	U
		AR1248	300	ug/Kg	U
		AR1254	300	ug/Kg	U
		AR1260	300	ug/Kg	U
		TCMX	108.9%	ug/Kg	
		DCB	86.8%	ug/Kg	
11ML0543	TMD-SO 077/6-7	AR1016	220	ug/Kg	U
		AR1242	220	ug/Kg	U
		AR1248	220	ug/Kg	U
		AR1254	220	ug/Kg	U
		AR1260	220	ug/Kg	U
		TCMX	84.6%	ug/Kg	
		DCB	98.9%	ug/Kg	
11ML0544	TMD-SO 077/7-8	AR1016	300	ug/Kg	U
		AR1242	300	ug/Kg	U
		AR1248	300	ug/Kg	U
		AR1254	300	ug/Kg	U
		AR1260	300	ug/Kg	U
		TCMX	105.2%	ug/Kg	
		DCB	106.2%	ug/Kg	
11ML0545	TMD-SO 077/8-9	AR1016	300	ug/Kg	U
		AR1242	300	ug/Kg	U
		AR1248	300	ug/Kg	U
		AR1254	300	ug/Kg	U
		AR1260	300	ug/Kg	U
		TCMX	106.6%	ug/Kg	
		DCB	114.8%	ug/Kg	

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 05/04/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-13

NARRATIVE

Eight (8) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following eight (8) samples are included in this narrative:

11CT05-01	11CT05-02	11CT05-03	11CT05-04
11CT05-05	11CT05-06	11CT05-07	11CT05-08

PCB Analysis

Sample Collection and Analysis

The samples were collected on May 3, 2011 and were analyzed on May 3, 2011 within the required hold times for the selected PCB analytes.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 26, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1242 was run on April 29, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

All the analytes in the continuing calibrations run on May 3, 2011 for AR1242 and AR1248 were within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110503003Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R.

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 5-4-11

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
MLDE110503003BIn01		AR1016	300	ug/Kg	U
		AR1242	300	ug/Kg	U
		AR1248	300	ug/Kg	U
		AR1254	300	ug/Kg	U
		AR1260	300	ug/Kg	U
		TCMX	104.3%	ug/Kg	
		DCB	100.5%	ug/Kg	
11ML0546	TMD-SO 078/1-2	AR1016	300	ug/Kg	U
		AR1242	300	ug/Kg	U
		AR1248	300	ug/Kg	U
		AR1254	300	ug/Kg	U
		AR1260	300	ug/Kg	U
		TCMX	102.7%	ug/Kg	
		DCB	111.6%	ug/Kg	
11ML0547	TMD-SO 078/2-3	AR1016	320	ug/Kg	U
		AR1242	320	ug/Kg	U
		AR1248	320	ug/Kg	U
		AR1254	320	ug/Kg	U
		AR1260	320	ug/Kg	U
		TCMX	95.2%	ug/Kg	
		DCB	106.2%	ug/Kg	
11ML0548	TMD-SO 078/10-11	AR1016	230	ug/Kg	U
		AR1242	230	ug/Kg	U
		AR1248	230	ug/Kg	U
		AR1254	230	ug/Kg	U
		AR1260	230	ug/Kg	U
		TCMX	85.4%	ug/Kg	
		DCB	62.4%	ug/Kg	
11ML0549	TMD-SO 078/12-13	AR1016	300	ug/Kg	U
		AR1242	400	ug/Kg	
		AR1248	300	ug/Kg	U
		AR1254	300	ug/Kg	U
		AR1260	300	ug/Kg	U
		TCMX	72.3%	ug/Kg	
		DCB	70.0%	ug/Kg	
11ML0550	TMD-SO 078/6-7	AR1016	270	ug/Kg	U
		AR1242	270	ug/Kg	U
		AR1248	270	ug/Kg	U
		AR1254	270	ug/Kg	U
		AR1260	270	ug/Kg	U
		TCMX	106.9%	ug/Kg	
		DCB	104.1%	ug/Kg	
11ML0551	TMD-SO 078/6-7R	AR1016	200	ug/Kg	U
		AR1242	200	ug/Kg	U
		AR1248	200	ug/Kg	U
		AR1254	200	ug/Kg	U
		AR1260	200	ug/Kg	U
		TCMX	100.3%	ug/Kg	
		DCB	104.1%	ug/Kg	

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
11ML0552	TMD-SO 078/13-14	AR1016	220	ug/Kg	U
		AR1242	310	ug/Kg	
		AR1248	220	ug/Kg	U
		AR1254	220	ug/Kg	U
		AR1260	220	ug/Kg	U
		TCMX	74.9%	ug/Kg	
		DCB	67.3%	ug/Kg	
11ML0553	TMD-SO 079/7-8	AR1016	230	ug/Kg	U
		AR1242	230	ug/Kg	U
		AR1248	230	ug/Kg	U
		AR1254	230	ug/Kg	U
		AR1260	230	ug/Kg	U
		TCMX	96.6%	ug/Kg	
		DCB	101.2%	ug/Kg	

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 05/04/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-14

NARRATIVE

One (1) water sample was submitted to FASP (Field Analytical Support Program) for PCB analysis. The sample was run without significant complications. The following one (1) sample is included in this narrative:

11CT01-30			

PCB Analysis

Sample Collection and Analysis

The sample was collected on May 3, 2011 and were analyzed on May 4, 2011 within the required hold times for the selected PCB analytes.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 26, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1242 was run on April 29, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

All the analytes in the continuing calibrations run on May 4, 2011 for AR1242 and AR1248 were within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110503001Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 60-140 %R except tetrachloro-meta-xylene was low in sample TMD-GW 078/6. No data is qualified when only one surrogate is out of control.

Sample TMD-GW 078/6 was run at a 100x dilution.

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Flag Description

Reviewed By: _____ Date: 5-4-11

Site Name: 10 Mile Drain Author: Christina Ricc
TDF# 5-314-001 Charge# 03037.4.14.02.03.B5VE.000.001
Date Issued: 05/04/11 Report Title: StClair 2-14
Analysis: PCBs

J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 5-4-11

Mobile Laboratory
Sample Results

LIMS ID	Sample Location	Analyte	Result	units	Flag
MLDE110502001Blnk01		AR1016	5	ug/L	U
		AR1242	5	ug/L	U
		AR1248	5	ug/L	U
		AR1254	5	ug/L	U
		AR1260	5	ug/L	U
		TCMX	79.9%	ug/L	
		DCB	132.2%	ug/L	
11ML0524	TMD-GW 078/6	AR1016	500	ug/L	U
		AR1242	500	ug/L	U
		AR1248	17000	ug/L	
		AR1254	500	ug/L	U
		AR1260	500	ug/L	U
		TCMX	51.8%	ug/L	J
		DCB	90.6%	ug/L	

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 05/05/11
Analysis: PCBs

Author: Christina Rice
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 2-15

NARRATIVE

Three (3) water samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following three (3) samples are included in this narrative:

11CT01-30 A	11CT01-30 B	11CT01-30 F	

PCB Analysis

Sample Collection and Analysis

The samples were collected on May 4, 2011 and were analyzed on May 4, 2011 within the required hold times for the selected PCB analytes.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 26, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1242 was run on April 29, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

All the analytes in the continuing calibrations run on May 4, 2011 for AR1242 and AR1248 were within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110504011Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 60-140 %R.

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 5-5-11

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110504-009
Samples Received: 05/04/2011

11ML0555 **Collection Date** 05/04/2011 **Sampled By:**

Sample Description: **TMD-GW 078/6 A**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	64			MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	Decachlorobiphenyl	64			MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	Decachlorobiphenyl %R	63.7			MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	Decachlorobiphenyl %R	63.7			MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1248	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1248	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	Tetrachloro-m-xylene	69			MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	Tetrachloro-m-xylene	69			MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	68.7			MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	68.7			MLDR110505001	5/5/2011 8:19:00 AM	CR

11ML0556 **Collection Date** 05/04/2011 **Sampled By:**

Sample Description: **TMD-GW 078/6 B**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	69			MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	Decachlorobiphenyl	69			MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	Decachlorobiphenyl %R	69.0			MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	Decachlorobiphenyl %R	69.0			MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1248	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1248	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR

11ML0556 **Collection Date** 05/04/2011 **Sampled By:**

Sample Description: **TMD-GW 078/6 B**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1260	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	Tetrachloro-m-xylene	93			MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	Tetrachloro-m-xylene	93			MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	92.5			MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	92.5			MLDR110505001	5/5/2011 8:19:00 AM	CR

11ML0557 **Collection Date** 05/04/2011 **Sampled By:**

Sample Description: **TMD-GW 078/6 F**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	120			MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	Decachlorobiphenyl	120			MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	Decachlorobiphenyl %R	124			MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	Decachlorobiphenyl %R	124			MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1016	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1232	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1242	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1248	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1248	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	PCB-1260	0.0	U	5.0	MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	Tetrachloro-m-xylene	80			MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	Tetrachloro-m-xylene	80			MLDR110505001	5/5/2011 8:19:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	80.2			MLDE110504011	5/5/2011 8:19:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	80.2			MLDR110505001	5/5/2011 8:19:00 AM	CR

Approved: _____
Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 05/12/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 3-1

NARRATIVE

Twenty-six (26) soil and three (3) water samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following twenty (20) samples are included in this narrative:

11CT05-12	11CT05-13	11CT05-14	11CT05-15
11CT05-16	11CT05-17	11CT05-18	11CT05-20
11CT05-21	11CT05-22	11CT05-23	11CT05-24
11CT05-25	11CT05-27	11CT05-28	11CT05-29
11CT05-30	11CT05-31	11CT05-32	11CT05-33

PCB Analysis

Sample Collection and Analysis

The samples were collected on May 11, 2011 and were analyzed on May 11, 2011 within the required hold times for the selected PCB analytes.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 26, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1242 was run on April 29, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

All the analytes in the continuing calibrations run on May 11, 2011 for AR1242, AR1248, AR1016 and AR1260 were within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110511011Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R with the exception of the recovery of decachlorobiphenyl which was below the lower limit in TMD-SO 082/12-13, TMD-SO 082/13-14, TMD-SO 082/17-18, TMD-SO 083/5-6 SPK, and TMD-SO 083/12-13. No samples are qualified when only one surrogate is out of control.

Samples TMD-SO 080/7.5-8.5 and TMD-SO 083/5-6 were utilized as the matrix spikes in this

Reviewed By: _____ Date: 5/12/11

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 05/12/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 3-1

sample delivery group. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R.

Sample TMD-SO 082/6-6.5 was run at a 2x dilution. Sample TMD-SO 081/14.8-15 was run at a 500x dilution. Surrogate recoveries were from the most concentrated analysis.

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 5/12/11

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110511-001
Samples Received: 05/11/2011

11ML0558 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 080/7.5-8.5**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	54			MLDR110512002	5/12/2011 9:48:00 AM	TES
PCBs	Decachlorobiphenyl %R	54.1			MLDR110512002	5/12/2011 9:48:00 AM	TES
PCBs	PCB-1016	0.0	U	270.0	MLDR110512002	5/12/2011 9:48:00 AM	TES
PCBs	PCB-1232	0.0	U	270.0	MLDR110512002	5/12/2011 9:48:00 AM	TES
PCBs	PCB-1242	0.0	U	270.0	MLDR110512002	5/12/2011 9:48:00 AM	TES
PCBs	PCB-1248	0.0	U	270.0	MLDR110512002	5/12/2011 9:48:00 AM	TES
PCBs	PCB-1254	0.0	U	270.0	MLDR110512002	5/12/2011 9:48:00 AM	TES
PCBs	PCB-1260	0.0	U	270.0	MLDR110512002	5/12/2011 9:48:00 AM	TES
PCBs	Tetrachloro-m-xylene	99			MLDR110512002	5/12/2011 9:48:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	99.1			MLDR110512002	5/12/2011 9:48:00 AM	TES

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	79			MLDR110512002	5/12/2011 9:49:00 AM	TES
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	79.0			MLDR110512002	5/12/2011 9:49:00 AM	TES
Matrix Spike-PCBs	PCB-1016	0.0	U	300.0	MLDR110512002	5/12/2011 9:49:00 AM	TES
Matrix Spike-PCBs	PCB-1232	0.0	U	300.0	MLDR110512002	5/12/2011 9:49:00 AM	TES
Matrix Spike-PCBs	PCB-1242	0.0	U	300.0	MLDR110512002	5/12/2011 9:49:00 AM	TES
Matrix Spike-PCBs	PCB-1248	2800		300.0	MLDR110512002	5/12/2011 9:49:00 AM	TES
Matrix Spike-PCBs	PCB-1248 - % Recovery	94.6			MLDR110512002	5/12/2011 9:49:00 AM	TES
Matrix Spike-PCBs	PCB-1254	0.0	U	300.0	MLDR110512002	5/12/2011 9:49:00 AM	TES
Matrix Spike-PCBs	PCB-1260	0.0	U	300.0	MLDR110512002	5/12/2011 9:49:00 AM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene	100			MLDR110512002	5/12/2011 9:49:00 AM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene - % Recovery	102			MLDR110512002	5/12/2011 9:49:00 AM	TES

11ML0559 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 081/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	77			MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	Decachlorobiphenyl %R	76.7			MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1016	0.0	U	230.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1232	0.0	U	230.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1242	0.0	U	230.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1248	0.0	U	230.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1254	0.0	U	230.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1260	0.0	U	230.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	113			MLDR110512002	5/12/2011 9:51:00 AM	TES

11ML0560 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 081/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	76			MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	Decachlorobiphenyl %R	76.2			MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1016	0.0	U	280.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1232	0.0	U	280.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1242	0.0	U	280.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1248	0.0	U	280.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1254	0.0	U	280.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1260	0.0	U	280.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	111			MLDR110512002	5/12/2011 9:51:00 AM	TES

11ML0561 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 081/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	76			MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	Decachlorobiphenyl %R	75.7			MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1016	0.0	U	290.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1232	0.0	U	290.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1242	0.0	U	290.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1248	0.0	U	290.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1254	0.0	U	290.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	PCB-1260	0.0	U	290.0	MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110512002	5/12/2011 9:51:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	105			MLDR110512002	5/12/2011 9:51:00 AM	TES

11ML0562 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 081/10-11**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	58			MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	Decachlorobiphenyl %R	58.4			MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1016	0.0	U	320.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1232	0.0	U	320.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1242	0.0	U	320.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1248	170	J	320.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1254	0.0	U	320.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1260	0.0	U	320.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	Tetrachloro-m-xylene	86			MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	86.0			MLDR110512002	5/12/2011 9:59:00 AM	TES

11ML0563 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 081/14.2-14.8**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	58			MLDR110512002	5/12/2011 9:59:00 AM	TES

11ML0563 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 081/14.2-14.8**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	57.7			MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1016	0.0	U	280.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1232	0.0	U	280.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1242	0.0	U	280.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1248	6300		280.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1254	0.0	U	280.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1260	0.0	U	280.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	Tetrachloro-m-xylene	90			MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	89.9			MLDR110512002	5/12/2011 9:59:00 AM	TES

11ML0564 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 081/14.8-15**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	73			MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	Decachlorobiphenyl %R	73.5			MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1016	0.0	U	130,000.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1232	0.0	U	130,000.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1242	0.0	U	130,000.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1248	290000		130,000.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1254	0.0	U	130,000.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1260	0.0	U	130,000.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	Tetrachloro-m-xylene	80			MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	79.7			MLDR110512002	5/12/2011 9:59:00 AM	TES

11ML0565 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 082/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	78			MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	Decachlorobiphenyl %R	77.8			MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1016	0.0	U	280.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1232	0.0	U	280.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1242	0.0	U	280.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1248	0.0	U	280.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1254	0.0	U	280.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	PCB-1260	0.0	U	280.0	MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	Tetrachloro-m-xylene	100			MLDR110512002	5/12/2011 9:59:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	105			MLDR110512002	5/12/2011 9:59:00 AM	TES

11ML0566 Collection Date 05/11/2011 Sampled By:

Sample Description: **TMD-SO 082/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	91			MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	Decachlorobiphenyl %R	90.5			MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1016	0.0	U	230.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1232	0.0	U	230.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1242	0.0	U	230.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1248	0.0	U	230.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1254	0.0	U	230.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1260	0.0	U	230.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	107			MLDR110512002	5/12/2011 10:00:00 AM	TES

11ML0567 Collection Date 05/11/2011 Sampled By:

Sample Description: **TMD-SO 082/6-6.5**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	80			MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	Decachlorobiphenyl %R	80.5			MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1016	0.0	U	480.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1232	0.0	U	480.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1242	0.0	U	480.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1248	15000		480.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1254	0.0	U	480.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1260	0.0	U	480.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	108			MLDR110512002	5/12/2011 10:00:00 AM	TES

11ML0568 Collection Date 05/11/2011 Sampled By:

Sample Description: **TMD-SO 082/12-13**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	43			MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	Decachlorobiphenyl %R	43.4	J		MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1016	0.0	U	220.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1232	0.0	U	220.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1242	0.0	U	220.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1248	1500		220.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1254	0.0	U	220.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1260	0.0	U	220.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	108			MLDR110512002	5/12/2011 10:00:00 AM	TES

11ML0569 Collection Date 05/11/2011 Sampled By:

Sample Description: **TMD-SO 082/13-14**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	46			MLDR110512002	5/12/2011 10:00:00 AM	TES

11ML0569 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 082/13-14**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	45.6	J		MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1016	0.0	U	230.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1232	0.0	U	230.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1242	0.0	U	230.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1248	0.0	U	230.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1254	0.0	U	230.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1260	0.0	U	230.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	108			MLDR110512002	5/12/2011 10:00:00 AM	TES

11ML0570 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 082/17-18**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	41			MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	Decachlorobiphenyl %R	40.6	J		MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1016	0.0	U	210.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1232	0.0	U	210.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1242	0.0	U	210.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1248	190	J	210.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1254	0.0	U	210.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1260	0.0	U	210.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	Tetrachloro-m-xylene	100			MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	102			MLDR110512002	5/12/2011 10:00:00 AM	TES

11ML0571 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 083/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	92			MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	Decachlorobiphenyl %R	92.1			MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1016	0.0	U	320.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1232	0.0	U	320.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1242	0.0	U	320.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1248	0.0	U	320.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1254	0.0	U	320.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	PCB-1260	0.0	U	320.0	MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110512002	5/12/2011 10:00:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	110			MLDR110512002	5/12/2011 10:00:00 AM	TES

11ML0572 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 083/1-2DUP**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	65			MLDR110512002	5/12/2011 10:03:00 AM	CR
PCBs	Decachlorobiphenyl %R	65.1			MLDR110512002	5/12/2011 10:03:00 AM	CR

11ML0572 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 083/1-2DUP**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1016	0.0	U	310.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	PCB-1232	0.0	U	310.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	PCB-1242	0.0	U	310.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	PCB-1248	0.0	U	310.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	PCB-1254	0.0	U	310.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	PCB-1260	0.0	U	310.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110512002	5/12/2011 10:03:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	110			MLDR110512002	5/12/2011 10:03:00 AM	CR

11ML0573 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 083/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	92			MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	Decachlorobiphenyl %R	91.8			MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	PCB-1232	0.0	U	260.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	PCB-1248	0.0	U	260.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	110			MLDR110512002	5/12/2011 10:03:00 AM	TES

11ML0574 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 083/5-6**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	60			MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	Decachlorobiphenyl %R	59.5			MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	PCB-1232	0.0	U	260.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	PCB-1248	250	J	260.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110512002	5/12/2011 10:03:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	107			MLDR110512002	5/12/2011 10:03:00 AM	TES

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	50			MLDR110512002	5/12/2011 10:04:00 AM	TES
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	49.8	J		MLDR110512002	5/12/2011 10:04:00 AM	CR
Matrix Spike-PCBs	PCB-1016	0.0	U	240.0	MLDR110512002	5/12/2011 10:04:00 AM	TES
Matrix Spike-PCBs	PCB-1232	0.0	U	240.0	MLDR110512002	5/12/2011 10:04:00 AM	TES
Matrix Spike-PCBs	PCB-1242	0.0	U	240.0	MLDR110512002	5/12/2011 10:04:00 AM	TES
Matrix Spike-PCBs	PCB-1248	2400		240.0	MLDR110512002	5/12/2011 10:04:00 AM	TES
Matrix Spike-PCBs	PCB-1248 - % Recovery	85.9			MLDR110512002	5/12/2011 10:04:00 AM	TES

11ML0574 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 083/5-6**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	PCB-1254	0.0	U	240.0	MLDR110512002	5/12/2011 10:04:00 AM	TES
Matrix Spike-PCBs	PCB-1260	0.0	U	240.0	MLDR110512002	5/12/2011 10:04:00 AM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene	97			MLDR110512002	5/12/2011 10:04:00 AM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene - % Recovery	96.7			MLDR110512002	5/12/2011 10:04:00 AM	TES

11ML0575 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 083/12-13**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	33			MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	Decachlorobiphenyl %R	33.4	J		MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	PCB-1016	0.0	U	170.0	MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	PCB-1232	0.0	U	170.0	MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	PCB-1242	0.0	U	170.0	MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	PCB-1248	0.0	U	170.0	MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	PCB-1254	0.0	U	170.0	MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	PCB-1260	0.0	U	170.0	MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	Tetrachloro-m-xylene	69			MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	69.4			MLDR110512002	5/12/2011 10:08:00 AM	TES

11ML0576 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 083/13-13.7 Cal**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	53			MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	Decachlorobiphenyl %R	53.4			MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	PCB-1232	0.0	U	300.0	MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	PCB-1248	0.0	U	300.0	MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	PCB-1254	0.0	U	300.0	MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	107			MLDR110512002	5/12/2011 10:08:00 AM	TES

11ML0580 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 084/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	61			MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	Decachlorobiphenyl %R	61.1			MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	PCB-1016	0.0	U	290.0	MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	PCB-1232	0.0	U	290.0	MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	PCB-1242	0.0	U	290.0	MLDR110512002	5/12/2011 10:08:00 AM	TES
PCBs	PCB-1248	200	J	290.0	MLDR110512002	5/12/2011 10:08:00 AM	TES

11ML0580 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 084/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1254	0.0	U	290.0	MLDR110512002	5/12/2011 10:06:00 AM	TES
PCBs	PCB-1260	0.0	U	290.0	MLDR110512002	5/12/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110512002	5/12/2011 10:06:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	109			MLDR110512002	5/12/2011 10:06:00 AM	TES

MLDE110511001Blk01 **Collection Date** 05/11/2011 **Sampled By:** TES

Sample Description:
Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	69			MLDR110512002		CR
Method Blank-PCBs	Decachlorobiphenyl %R	69			MLDR110512002		CR
Method Blank-PCBs	PCB-1016	0.0	U	320.0	MLDR110512002		TES
Method Blank-PCBs	PCB-1232	0.0	U	320.0	MLDR110512002		TES
Method Blank-PCBs	PCB-1242	0.0	U	320.0	MLDR110512002		TES
Method Blank-PCBs	PCB-1248	0.0	U	320.0	MLDR110512002		TES
Method Blank-PCBs	PCB-1254	0.0	U	320.0	MLDR110512002		TES
Method Blank-PCBs	PCB-1260	0.0	U	320.0	MLDR110512002		TES
Method Blank-PCBs	Tetrachloro-m-xylene	100			MLDR110512002		TES
Method Blank-PCBs	Tetrachloro-m-xylene %R	103			MLDR110512002		TES

Approved: _____
Quality Control Officer

Site Name: 10 Mile Drain
TDI# 5-314-001
Date Issued: 05/12/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 3-2

NARRATIVE

Three (3) water samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following three (3) samples are included in this narrative:

11CT05-19	11CT05-26	11CT05-40	

PCB Analysis

Sample Collection and Analysis

The samples were collected on May 11, 2011 and were analyzed on May 11, 2011 within the required hold times for the selected PCB analytes.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 26, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1242 was run on April 29, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

All the analytes in the continuing calibrations run on May 11, 2011 for AR1242 and AR1248 were within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110511002Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 60-140 %R with the exception of the recovery of decachlorobiphenyl which was below the lower limit in TMD-GW 082/15. No samples are qualified when only one surrogate is out of control.

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
UJ	The compound is non-detect at the reported value

Reviewed By: _____ Date: 5/12/11

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 05/12/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 3-2

Reviewed By: _____ Date: 5/12/11

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110511-001
Samples Received: 05/11/2011

11ML0577 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-GW 081/10**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	65			MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	Decachlorobiphenyl %R	64.9			MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	PCB-1016	0.0	U	5.0	MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	PCB-1232	0.0	U	5.0	MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	PCB-1242	0.0	U	5.0	MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	PCB-1248	230		5.0	MLDR110512001	5/12/2011 9:41:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	PCB-1260	0.0	U	5.0	MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	Tetrachloro-m-xylene	99			MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	98.8			MLDR110512001	5/12/2011 9:41:00 AM	TES

11ML0578 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-GW 082/15**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	47			MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	Decachlorobiphenyl %R	46.8	J		MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	PCB-1016	0.0	U	5.0	MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	PCB-1232	0.0	U	5.0	MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	PCB-1242	0.0	U	5.0	MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	PCB-1248	120		5.0	MLDR110512001	5/12/2011 9:41:00 AM	CR
PCBs	PCB-1254	0.0	U	5.0	MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	PCB-1260	0.0	U	5.0	MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	Tetrachloro-m-xylene	88			MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	87.5			MLDR110512001	5/12/2011 9:41:00 AM	TES

11ML0579 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-GW 084/9**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	76			MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	Decachlorobiphenyl %R	75.5			MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	PCB-1016	0.0	U	5.0	MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	PCB-1232	0.0	U	5.0	MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	PCB-1242	0.0	U	5.0	MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	PCB-1248	5.4		5.0	MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	PCB-1254	0.0	U	5.0	MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	PCB-1260	0.0	U	5.0	MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	Tetrachloro-m-xylene	130			MLDR110512001	5/12/2011 9:41:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	134			MLDR110512001	5/12/2011 9:41:00 AM	TES

MLDE110511002Blin01 **Collection Date** 05/11/2011 **Sampled By:** TE$

Sample Description:
Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	73			MLDR110512001		TES
Method Blank-PCBs	Decachlorobiphenyl %R	73			MLDR110512001		TES
Method Blank-PCBs	PCB-1016	0.0	U	5.0	MLDR110512001		TES
Method Blank-PCBs	PCB-1232	0.0	U	5.0	MLDR110512001		TES
Method Blank-PCBs	PCB-1242	0.0	U	5.0	MLDR110512001		TES
Method Blank-PCBs	PCB-1248	0.0	U	5.0	MLDR110512001		TES
Method Blank-PCBs	PCB-1254	0.0	U	5.0	MLDR110512001		TES
Method Blank-PCBs	PCB-1260	0.0	U	5.0	MLDR110512001		TES
Method Blank-PCBs	Tetrachloro-m-xylene	86			MLDR110512001		TES
Method Blank-PCBs	Tetrachloro-m-xylene %R	86.2			MLDR110512001		TES

Approved: _____

Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 05/13/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 3-3

NARRATIVE

Thirteen (13) soil and two (2) water samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following nineteen (19) samples are included in this narrative:

11CT05-34	11CT05-35	11CT05-36	11CT05-37
11CT05-38	11CT05-39	11CT05-41	11CT05-42
11CT05-43	11CT05-44	11CT05-45	11CT05-46
11CT05-47	11CT05-48	11CT05-49	11CT05-50
11CT05-51	11CT05-52	11CT05-53	

PCB Analysis

Sample Collection and Analysis

The samples were collected on May 11 and 12, 2011 and were analyzed on May 12, 2011 within the required hold times for the selected PCB analytes.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 26, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1242 was run on April 29, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

All the analytes in the continuing calibrations run on May 12, 2011 for AR1242, AR1248, AR1016 and AR1260 were within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method blank MLDE110512001Bln01 was found to be free of all target analytes at the stated detection limit.

All surrogate recoveries were within the acceptance limits of 50-150 %R with the exception of decachlorobiphenyl which was below the lower acceptance limit in samples TMD-SO 084/5-7, TMD-SO 084/10-11, TMD-SO 086/6-7, and TMD-SO 086/10-11. No samples are qualified when only one surrogate is out of control.

Sample TMD-SO 086/10-11 was utilized as the matrix spike in this sample delivery group. The

Reviewed By: _____ Date: 5/13/11

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 05/13/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair 3-3

percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R.

An experienced analyst reviewed the chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 5/13/11

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110511-001
Samples Received: 05/11/2011

11ML0581 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 084/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	58			MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	Decachlorobiphenyl %R	58.0			MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1016	0.0	U	250.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1232	0.0	U	250.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1242	0.0	U	250.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1248	0.0	U	250.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1254	0.0	U	250.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1260	0.0	U	250.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110513002	5/13/2011 9:05:00 AM	CR
PCBs	Tetrachloro-m-xylene %R	113			MLDR110513002	5/13/2011 9:05:00 AM	CR

11ML0582 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 084/2-3DUP**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	65			MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	Decachlorobiphenyl %R	65.1			MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1016	0.0	U	290.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1232	0.0	U	290.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1242	0.0	U	290.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1248	0.0	U	290.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1254	0.0	U	290.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1260	0.0	U	290.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene	120			MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	116			MLDR110513002	5/13/2011 9:05:00 AM	TES

11ML0583 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 084/2-7** GK

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	45			MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	Decachlorobiphenyl %R	45.2	J		MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1016	0.0	U	200.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1232	0.0	U	200.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1242	0.0	U	200.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1248	0.0	U	200.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1254	0.0	U	200.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	PCB-1260	0.0	U	200.0	MLDR110513002	5/13/2011 9:05:00 AM	TES
PCBs	Tetrachloro-m-xylene	100			MLDR110513002	5/13/2011 9:05:00 AM	TES

- Ø85 Not sampled. Exploratory location for Martin Death

11ML0583 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 084/6-7** GK

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Tetrachloro-m-xylene %R	100			MLDR110513002	5/13/2011 9:05:00 AM	TES

11ML0584 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 084/10-11**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	44			MLDR110513002	5/13/2011 9:08:00 AM	TES
PCBs	Decachlorobiphenyl %R	44.2	J		MLDR110513002	5/13/2011 9:08:00 AM	TES
PCBs	PCB-1016	0.0	U	220.0	MLDR110513002	5/13/2011 9:08:00 AM	TES
PCBs	PCB-1232	0.0	U	220.0	MLDR110513002	5/13/2011 9:08:00 AM	TES
PCBs	PCB-1242	0.0	U	220.0	MLDR110513002	5/13/2011 9:08:00 AM	TES
PCBs	PCB-1248	0.0	U	220.0	MLDR110513002	5/13/2011 9:08:00 AM	TES
PCBs	PCB-1254	0.0	U	220.0	MLDR110513002	5/13/2011 9:08:00 AM	TES
PCBs	PCB-1260	0.0	U	220.0	MLDR110513002	5/13/2011 9:08:00 AM	TES
PCBs	Tetrachloro-m-xylene	97			MLDR110513002	5/13/2011 9:08:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	96.7			MLDR110513002	5/13/2011 9:08:00 AM	TES

11ML0585 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 084/11-12**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	87			MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	Decachlorobiphenyl %R	87.5			MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	PCB-1232	0.0	U	260.0	MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	PCB-1248	420		260.0	MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	106			MLDR110513002	5/13/2011 9:07:00 AM	TES

11ML0586 **Collection Date** 05/11/2011 **Sampled By:**

Sample Description: **TMD-SO 084/12-13**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	60			MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	Decachlorobiphenyl %R	59.7			MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	PCB-1016	0.0	U	250.0	MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	PCB-1232	0.0	U	250.0	MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	PCB-1242	0.0	U	250.0	MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	PCB-1248	0.0	U	250.0	MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	PCB-1254	0.0	U	250.0	MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	PCB-1260	0.0	U	250.0	MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110513002	5/13/2011 9:07:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	109			MLDR110513002	5/13/2011 9:07:00 AM	TES

3 cm 5/13 IK

11ML0587 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO 086/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	89			MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	Decachlorobiphenyl %R	88.6			MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1232	0.0	U	260.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1248	0.0	U	260.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	Tetrachloro-m-xylene	93			MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	93.2			MLDR110513002	5/13/2011 9:09:00 AM	TES

11ML0588 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO 086/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	94			MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	Decachlorobiphenyl %R	93.7			MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1016	0.0	U	240.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1232	0.0	U	240.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1242	0.0	U	240.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1248	0.0	U	240.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1254	0.0	U	240.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1260	0.0	U	240.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	Tetrachloro-m-xylene	93			MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	92.8			MLDR110513002	5/13/2011 9:09:00 AM	TES

11ML0589 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO 086/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	49			MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	Decachlorobiphenyl %R	49.1	J		MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1016	0.0	U	280.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1232	0.0	U	280.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1242	0.0	U	280.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1248	0.0	U	280.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1254	0.0	U	280.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	PCB-1260	0.0	U	280.0	MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	Tetrachloro-m-xylene	100			MLDR110513002	5/13/2011 9:09:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	101			MLDR110513002	5/13/2011 9:09:00 AM	TES

11ML0590 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO 086/10-11**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	45			MLDR110513002	5/13/2011 9:10:00 AM	TES

11ML0590 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO 086/10-11**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl %R	45.4	J		MLDR110513002	5/13/2011 9:10:00 AM	TES
PCBs	PCB-1016	0.0	U	220.0	MLDR110513002	5/13/2011 9:10:00 AM	TES
PCBs	PCB-1232	0.0	U	220.0	MLDR110513002	5/13/2011 9:10:00 AM	TES
PCBs	PCB-1242	0.0	U	220.0	MLDR110513002	5/13/2011 9:10:00 AM	TES
PCBs	PCB-1248	120	J	220.0	MLDR110513002	5/13/2011 9:10:00 AM	TES
PCBs	PCB-1254	0.0	U	220.0	MLDR110513002	5/13/2011 9:10:00 AM	TES
PCBs	PCB-1260	0.0	U	220.0	MLDR110513002	5/13/2011 9:10:00 AM	TES
PCBs	Tetrachloro-m-xylene	100			MLDR110513002	5/13/2011 9:10:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	101			MLDR110513002	5/13/2011 9:10:00 AM	TES

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	64			MLDR110513002	5/13/2011 9:11:00 AM	TES
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	63.7			MLDR110513002	5/13/2011 9:11:00 AM	TES
Matrix Spike-PCBs	PCB-1016	0.0	U	300.0	MLDR110513002	5/13/2011 9:11:00 AM	TES
Matrix Spike-PCBs	PCB-1232	0.0	U	300.0	MLDR110513002	5/13/2011 9:11:00 AM	TES
Matrix Spike-PCBs	PCB-1242	0.0	U	300.0	MLDR110513002	5/13/2011 9:11:00 AM	TES
Matrix Spike-PCBs	PCB-1248	3400		300.0	MLDR110513002	5/13/2011 9:11:00 AM	TES
Matrix Spike-PCBs	PCB-1248 - % Recovery	109			MLDR110513002	5/13/2011 9:11:00 AM	TES
Matrix Spike-PCBs	PCB-1254	0.0	U	300.0	MLDR110513002	5/13/2011 9:11:00 AM	TES
Matrix Spike-PCBs	PCB-1260	0.0	U	300.0	MLDR110513002	5/13/2011 9:11:00 AM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene	110			MLDR110513002	5/13/2011 9:11:00 AM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene - % Recovery	114			MLDR110513002	5/13/2011 9:11:00 AM	TES

11ML0591 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO 086/11-12**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	59			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Decachlorobiphenyl %R	58.6			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1016	0.0	U	310.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1232	0.0	U	310.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1242	0.0	U	310.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1248	0.0	U	310.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1254	0.0		100.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1260	0.0	U	310.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	108			MLDR110513002	5/13/2011 9:14:00 AM	TES

11ML0592 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO 086/12-5-6**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	64			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Decachlorobiphenyl %R	63.9			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1016	0.0	U	260.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1232	0.0	U	260.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1242	0.0	U	260.0	MLDR110513002	5/13/2011 9:14:00 AM	TES

11ML0592 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO 089/5.5-6**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1248	0.0	U	260.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1254	0.0	U	260.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1260	0.0	U	260.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	115			MLDR110513002	5/13/2011 9:14:00 AM	TES

11ML0593 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO 089/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	77			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Decachlorobiphenyl %R	77.5			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1016	0.0	U	220.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1232	0.0	U	220.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1242	0.0	U	220.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1248	0.0	U	220.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1254	0.0	U	220.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1260	0.0	U	220.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene	92			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	92.0			MLDR110513002	5/13/2011 9:14:00 AM	TES

11ML0594 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO 089/7-8**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	73			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Decachlorobiphenyl %R	72.9			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1232	0.0	U	300.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1248	0.0	U	300.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1254	0.0	U	300.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene	95			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	95.3			MLDR110513002	5/13/2011 9:14:00 AM	TES

11ML0595 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO 090/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	87			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Decachlorobiphenyl %R	86.6			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1016	0.0	U	290.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1232	0.0	U	290.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1242	0.0	U	290.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1248	1200		290.0	MLDR110513002	5/13/2011 9:14:00 AM	TES

11ML0595 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO 090/1-2**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1254	0.0	U	290.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1260	0.0	U	290.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	109			MLDR110513002	5/13/2011 9:14:00 AM	TES

11ML0596 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO 090/2-3**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	110			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Decachlorobiphenyl %R	111			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1016	0.0	U	250.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1232	0.0	U	250.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1242	0.0	U	250.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1248	0.0	U	250.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1254	0.0	U	250.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1260	0.0	U	250.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	113			MLDR110513002	5/13/2011 9:14:00 AM	TES

11ML0597 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO 090/6-7**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	79			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Decachlorobiphenyl %R	79.5			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1016	0.0	U	230.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1232	0.0	U	230.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1242	0.0	U	230.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1248	0.0	U	230.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1254	0.0	U	230.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1260	0.0	U	230.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	108			MLDR110513002	5/13/2011 9:14:00 AM	TES

11ML0598 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO 090/6-7DUP**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	65			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Decachlorobiphenyl %R	65.0			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1016	0.0	U	230.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1232	0.0	U	230.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1242	0.0	U	230.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1248	0.0	U	230.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1254	0.0	U	230.0	MLDR110513002	5/13/2011 9:14:00 AM	TES

11ML0598 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO 090/6-7DUP**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	PCB-1260	0.0	U	230.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene	110			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	108			MLDR110513002	5/13/2011 9:14:00 AM	TES

11ML0599 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO 090/15-16**

This sample was run as a solid as is reported in ug/Kg units on as as received basis.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	81			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Decachlorobiphenyl %R	81.0			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1016	0.0	U	300.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1232	0.0	U	300.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1242	0.0	U	300.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1248	0.0	U	300.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1254	0.0	U	300.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	PCB-1260	0.0	U	300.0	MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene	120			MLDR110513002	5/13/2011 9:14:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	117			MLDR110513002	5/13/2011 9:14:00 AM	TES

MLDE110512001Blnl01 **Collection Date** 05/12/2011 **Sampled By:** TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	56			MLDR110513002		TES
Method Blank-PCBs	Decachlorobiphenyl %R	56			MLDR110513002		TES
Method Blank-PCBs	PCB-1016	0.0	U	260.0	MLDR110513002		TES
Method Blank-PCBs	PCB-1232	0.0	U	260.0	MLDR110513002		TES
Method Blank-PCBs	PCB-1242	0.0	U	260.0	MLDR110513002		TES
Method Blank-PCBs	PCB-1248	0.0	U	260.0	MLDR110513002		TES
Method Blank-PCBs	PCB-1254	0.0	U	260.0	MLDR110513002		TES
Method Blank-PCBs	PCB-1260	0.0	U	260.0	MLDR110513002		TES
Method Blank-PCBs	Tetrachloro-m-xylene	110			MLDR110513002		TES
Method Blank-PCBs	Tetrachloro-m-xylene %R	107			MLDR110513002		TES

Approved: _____
Quality Control Officer

EPA Region 5 Mobile Lab

10 Mile Drain Site

St Clair Shores, MI

Report Number: MLSG110512-001
Samples Received: 05/12/2011

11ML0600 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO ~~0001/MLD~~ → 090/MH**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	104			MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	PCB-1016	0.0	U	5.0	MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	PCB-1232	0.0	U	5.0	MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	PCB-1242	0.0	U	5.0	MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	PCB-1248	40		5.0	MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	PCB-1254	0.0	U	5.0	MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	PCB-1260	0.0	U	5.0	MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	95			MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	94.6			MLDR110513001	5/13/2011 8:50:00 AM	TES

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Matrix Spike-PCBs	Decachlorobiphenyl	91			MLDR110513001	5/13/2011 8:49:00 AM	TES
Matrix Spike-PCBs	Decachlorobiphenyl - % Recovery	91.4			MLDR110513001	5/13/2011 8:49:00 AM	TES
Matrix Spike-PCBs	PCB-1016	0.0	U	5.0	MLDR110513001	5/13/2011 8:49:00 AM	TES
Matrix Spike-PCBs	PCB-1232	0.0	U	5.0	MLDR110513001	5/13/2011 8:49:00 AM	TES
Matrix Spike-PCBs	PCB-1242	0.0	U	5.0	MLDR110513001	5/13/2011 8:49:00 AM	TES
Matrix Spike-PCBs	PCB-1248	69		5.0	MLDR110513001	5/13/2011 8:49:00 AM	TES
Matrix Spike-PCBs	PCB-1248 - % Recovery	58.0			MLDR110513001	5/13/2011 8:49:00 AM	TES
Matrix Spike-PCBs	PCB-1254	0.0	U	5.0	MLDR110513001	5/13/2011 8:49:00 AM	TES
Matrix Spike-PCBs	PCB-1260	0.0	U	5.0	MLDR110513001	5/13/2011 8:49:00 AM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene	91			MLDR110513001	5/13/2011 8:49:00 AM	TES
Matrix Spike-PCBs	Tetrachloro-m-xylene - % Recovery	91.1			MLDR110513001	5/13/2011 8:49:00 AM	TES

11ML0601 **Collection Date** 05/12/2011 **Sampled By:**

Sample Description: **TMD-SO GW 090/5**

This sample was run as a water and is reported in ug/L units.

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
PCBs	Decachlorobiphenyl	100			MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	Decachlorobiphenyl %R	104			MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	PCB-1016	0.0	U	5.0	MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	PCB-1232	0.0	U	5.0	MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	PCB-1242	0.0	U	5.0	MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	PCB-1248	6.2		5.0	MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	PCB-1254	0.0	U	5.0	MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	PCB-1260	0.0	U	5.0	MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	Tetrachloro-m-xylene	130			MLDR110513001	5/13/2011 8:50:00 AM	TES
PCBs	Tetrachloro-m-xylene %R	126			MLDR110513001	5/13/2011 8:50:00 AM	TES

MLDE110512002B In01 Collection Date 05/12/2011 **Sampled By:** TES

Sample Description:

Batch Level QC Sample

Test:	Parameter	Result	Flag	RL	Test Batch Num	Analyzed Date/Time	Analyst
Method Blank-PCBs	Decachlorobiphenyl	94			MLDR110513001		TES
Method Blank-PCBs	Decachlorobiphenyl %R	94			MLDR110513001		TES
Method Blank-PCBs	PCB-1016	0.0	U	5.0	MLDR110513001		TES
Method Blank-PCBs	PCB-1232	0.0	U	5.0	MLDR110513001		TES
Method Blank-PCBs	PCB-1242	0.0	U	5.0	MLDR110513001		TES
Method Blank-PCBs	PCB-1248	0.0	U	5.0	MLDR110513001		TES
Method Blank-PCBs	PCB-1254	0.0	U	5.0	MLDR110513001		TES
Method Blank-PCBs	PCB-1260	0.0	U	5.0	MLDR110513001		TES
Method Blank-PCBs	Tetrachloro-m-xylene	65			MLDR110513001		TES
Method Blank-PCBs	Tetrachloro-m-xylene %R	65.1			MLDR110513001		TES

Approved: _____

Quality Control Officer

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 06/14/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair Final Report

NARRATIVE

Four hundred and sixty (460) soil and forty-one (41) water samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were run without significant complications. The following samples are included in this narrative:

11CD01	11CD02	11CD03	11CD04
11CD05	11CD06	11CD07	11CD08
11CD09	11CD10	11CD11	11CD12
11CD13	11CD14	11CD15	11CD16
11CD17	11CD18	11CD19	11CD20
11CD21	11CD22	11CD23	11CD24
11CD25	11CD26	11CD27	11CD28
11CD29	11CD30	11CD31	11CD32
11CD33	11CD34	11CD35	11CD36
11CD37	11CD38	11CD39	11CD40
11CD41	11CD42	11CD43	11CD44
11CD45	11CD46	11CD47	11CD48
11CD49	11CD50	11CD51	11CD52
11CD53	11CD54	11CD55	11CD56
11CD57	11CD58	11CD59	11CD60
11CD61	11CD62	11CD63	11CD64
11CD65	11CD66	11CD67	11CD68
11CD69	11CD70	11CD71	11CD72
11CD73	11CD74	11CD75	11CD76
11CD77	11CD78	11CD79	11CD80
11CD81	11CD82	11CD83	11CD84
11CD85	11CD86	11CD87	11CD88
11CD89	11CT01-01	11CT01-02	11CT01-03
11CT01-04	11CT01-05	11CT01-06	11CT01-07
11CT01-08	11CT01-09	11CT01-10	11CT01-11
11CT01-12	11CT01-13	11CT01-14	11CT01-15
11CT01-16	11CT01-17	11CT01-18	11CT01-19
11CT01-20	11CT01-21	11CT01-22	11CT01-23
11CT01-24	11CT01-25	11CT01-26	11CT01-27
11CT01-28	11CT01-29	11CT01-30	11CT01-30 A
11CT01-30 B	11CT01-30 F	11CD02-01	11CD02-02
11CD02-03	11CD02-04	11CD02-05	11CD02-06
11CD02-07	11CD02-08	11CD02-09	11CD02-10
11CD02-11	11CD02-12	11CD02-13	11CD02-14
11CD02-15	11CD02-16	11CD02-17	11CD02-18
11CD02-19	11CD02-20	11CD02-21	11CD02-22

Reviewed By: _____ Date: 6/14/11

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 06/14/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair Final Report

11CD02-23	11CD02-24	11CD02-25	11CD02-26
11CD02-27	11CD02-28	11CD02-29	11CD02-30
11CD02-31	11CT02-01	11CT02-02	11CT02-03
11CT02-04	11CT02-05	11CT02-06	11CT02-07
11CT02-08	11CT02-09	11CT02-10	11CT02-11
11CT02-12	11CT02-13	11CT02-14	11CT02-15
11CT02-16	11CT02-17	11CT02-18	11CT02-19
11CT02-20	11CT02-21	11CT02-22	11CT02-23
11CT02-24	11CT02-25	11CT02-26	11CT02-27
11CT02-28	11CT02-29	11CT02-30	11CT02-31
11CT02-32	11CT02-33	11CT02-34	11CT02-35
11CT02-36	11CT02-37	11CT02-38	11CT02-39
11CT02-40	11CT02-41	11CT02-42	11CT02-43
11CT02-44	11CT02-45	11CT02-46	11CT02-47
11CT02-48	11CT02-49	11CT02-50	11CT02-51
11CT02-52	11CT02-53	11CT02-54	11CT02-55
11CT02-56	11CT02-57	11CT02-58	11CT02-59
11CT02-60	11CT02-61	11CT02-62	11CT02-63
11CT02-64	11CT02-65	11CT02-66	11CT02-67
11CT02-68	11CT02-69	11CT02-70	11CT02-71
11CT02-72	11CT02-73	11CT02-74	11CT02-75
11CT02-76	11CT02-77	11CT02-78	11CT02-79
11CT02-80	11CT02-81	11CT02-82	11CT02-83
11CT02-84	11CT02-85	11CT02-86	11CT02-87
11CT02-88	11CT03-01	11CT03-02	11CT03-03
11CT03-04	11CT03-05	11CT03-06	11CT03-07
11CT03-08	11CT03-09	11CT03-10	11CT03-11
11CT03-12	11CT03-13	11CT03-14	11CT03-15
11CT03-16	11CT03-17	11CT03-18	11CT03-19
11CT03-20	11CT03-21	11CT03-22	11CT03-23
11CT03-24	11CT03-25	11CT03-26	11CT03-27
11CT03-28	11CT03-29	11CT03-30	11CT03-31
11CT03-32	11CT03-33	11CT03-34	11CT03-35
11CT03-36	11CT03-37	11CT03-38	11CT03-39
11CT03-40	11CT03-41	11CT03-42	11CT03-43
11CT03-44	11CT03-45	11CT03-46	11CT03-47
11CT03-48	11CT03-49	11CT03-50	11CT03-51
11CT03-52	11CT03-53	11CT03-54	11CT03-55
11CT03-56	11CT03-57	11CT03-58	11CT03-59
11CT03-60	11CT03-61	11CT03-62	11CT03-63
11CT03-64	11CT03-65	11CT03-66	11CT03-67

Reviewed By: _____ Date: 6/14/11

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 06/14/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair Final Report

11CT03-68	11CT03-69	11CT03-70	11CT03-71
11CT03-72	11CT03-73	11CT03-74	11CT03-75
11CT03-76	11CT03-77	11CT03-78	11CT03-79
11CT03-80	11CT03-81	11CT03-82	11CT03-83
11CT03-84	11CT03-85	11CT03-86	11CT03-87
11CT03-88	11CT03-89	11CT03-90	11CT03-91
11CT03-92	11CT03-93	11CT04-01	11CT04-02
11CT04-03	11CT04-04	11CT04-05	11CT04-06
11CT04-07	11CT04-08	11CT04-09	11CT04-10
11CT04-11	11CT04-12	11CT04-13	11CT04-14
11CT04-15	11CT04-16	11CT04-17	11CT04-18
11CT04-19	11CT04-20	11CT04-21	11CT04-22
11CT04-23	11CT04-24	11CT04-25	11CT04-26
11CT04-27	11CT04-28	11CT04-29	11CT04-29
11CT04-30	11CT04-31	11CT04-32	11CT04-33
11CT04-34	11CT04-35	11CT04-36	11CT04-37
11CT04-38	11CT04-39	11CT04-40	11CT04-41
11CT04-42	11CT04-43	11CT04-44	11CT04-45
11CT04-46	11CT04-47	11CT04-48	11CT04-49
11CT04-50	11CT04-51	11CT04-52	11CT04-53
11CT04-54	11CT04-55	11CT04-56	11CT04-57
11CT04-58	11CT04-59	11CT04-60	11CT04-61
11CT04-62	11CT04-63	11CT04-64	11CT04-65
11CT04-66	11CT04-67	11CT04-68	11CT04-69
11CT04-70	11CT04-71	11CT04-72	11CT04-73
11CT04-74	11CT04-75	11CT04-76	11CT04-77
11CT04-78	11CT04-79	11CT04-80	11CT04-81
11CT04-82	11CT04-83	11CT04-84	11CT04-85
11CT04-86	11CT04-87	11CT04-88	11CT04-89
11CT04-90	11CT04-91	11CT04-92	11CT04-93
11CT04-94	11CT04-95	11CT04-96	11CT05-01
11CT05-02	11CT05-03	11CT05-04	11CT05-05
11CT05-06	11CT05-07	11CT05-08	11CT05-12
11CT05-13	11CT05-14	11CT05-15	11CT05-16
11CT05-17	11CT05-18	11CT05-19	11CT05-20
11CT05-21	11CT05-22	11CT05-23	11CT05-24
11CT05-25	11CT05-26	11CT05-27	11CT05-28
11CT05-29	11CT05-30	11CT05-31	11CT05-32
11CT05-33	11CT05-34	11CT05-35	11CT05-36
11CT05-37	11CT05-38	11CT05-39	11CT05-40
11CT05-41	11CT05-42	11CT05-43	11CT05-44

Reviewed By: _____ Date: 6/14/11

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 06/14/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair Final Report

11CT05-45	11CT05-46	11CT05-47	11CT05-48
11CT05-49	11CT05-50	11CT05-51	11CT05-52
11CT05-53	11CT05-54	11CT05-55	11CT05-56
11CT05-57	11CT05-58	11CT05-59	11CT05-60
11CT05-61	11CT05-62	11CT05-63	11CT05-64
11CT05-65	11CT05-66	11CT05-67	11CT05-68
11CT05-69	11CT05-70	11CT05-71	11CT05-72
11CT05-73			

PCBs Analysis

Sample Collection and Analysis

The samples were collected between April 11 and May 13, 2011 and were analyzed between April 12 and May 13, 2011 within the required hold times for PCBs.

Initial and Continuing Calibration

The initial calibration for AR1248 was run on April 12, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation) with the exception of AR1248 #2 which passed by linear regression (LR=0.996).

The initial calibration for AR1248 was run on April 14, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1248 was run on April 17, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1242 was run on April 18, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1248 was run on April 18, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1248 was run on April 20, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1248 was run on April 26, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1242 run on April 26, 2011 and all compounds met the calibration

Reviewed By: _____ Date: 6/14/11

criteria of <30% RSD (relative standard deviation) with the exception of AR1242 #2 and AR1242 #3 which passed by linear regression (LR=0.998).

The initial calibration for AR1242 were run on April 29, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation).

The initial calibration for AR1016 and AR1260 was run on May 1, 2011 and all compounds met the calibration criteria of linear regression LR>0.99.

The initial calibration for AR1248 was run on May 13, 2011 and all compounds met the calibration criteria of <30% RSD (relative standard deviation) with the exception of AR1248 #6 and AR1248 #8 which passed by linear regression (LR>0.99).

Continuing Calibration Checks

All the analytes in the continuing calibration run on April 13, 2011 for AR1248 were within the QC limits of ± 35%.

All the analytes in the continuing calibration run on April 15, 2011 for AR1248 were within the QC limits of ± 35%.

All the analytes in the continuing calibration run on April 16, 2011 for AR1248 were within the QC limits of ± 35%.

All the analytes in the continuing calibration run on April 19, 2011 for AR1248 were within the QC limits of ± 35%.

All the analytes in the continuing calibration run on April 27, 2011 for AR1248 were within the QC limits of ± 35%.

All the analytes in the continuing calibration run on April 28, 2011 for AR1248 were within the QC limits of ± 35%.

All the analytes in the continuing calibration run on April 29, 2011 for AR1248 were within the QC limits of ± 35%.

All the analytes in the continuing calibrations run on April 30, 2011 for AR1242 and AR1248 were within the QC limits of ± 35%.

All the analytes in the continuing calibrations run on May 1, 2011 for AR1242 and AR1248 were within the QC limits of ± 35%.

Reviewed By: _____ Date: 6/14/11

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 06/14/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair Final Report

All the analytes in the continuing calibrations run on May 2, 2011 for AR1242 and AR1248 were within the QC limits of ± 35%.

All the analytes in the continuing calibrations run on May 3, 2011 for AR1242 and AR1248 were within the QC limits of ± 35%.

All the analytes in the continuing calibrations run on May 4, 2011 for AR1242 and AR1248 were within the QC limits of ± 35%.

All the analytes in the continuing calibrations run on May 11, 2011 for AR1242, AR1248, AR1016 and AR1260 were within the QC limits of ± 35%.

All the analytes in the continuing calibrations run on May 12, 2011 for AR1242, AR1248, AR1016 and AR1260 were within the QC limits of ± 35%.

All the analytes in the continuing calibrations run on May 13, 2011 for AR1242, AR1016 and AR1260 were within the QC limits of ± 35%.

Sample QC (Method Blanks, Matrix Spikes and Surrogates)

Method Blanks

Method blank MLDE110411001Bln01; MLDE110412001Bln01; MLDE110413001Bln01; MLDE110414001Bln01; MLDE110414002Bln01; MLDE110415001Bln01; MLDE110415002Bln01; MLDE110416002Bln01; MLDE110416003Bln01; MLDE110416004Bln01; MLDE110417002Bln01; MLDE110418001Bln01; MLDE110419001Bln01; MLDE110419002Bln01; MLDE110420002Bln01; MLDE110420003Bln01; MLDE110420001Bln01; MLDE110427001Bln01; MLDE110504001Bln01; MLDE110504002Bln01; MLDE110504003Bln01; MLDE110504004Bln01; MLDE110504005Bln01; MLDE110504006Bln01; MLDE110504007Bln01; MLDE110504008Bln01; MLDE110504009Bln01; MLDE110504010Bln01; MLDE110504011Bln01; MLDE110511001Bln01; MLDE110511002Bln01; MLDE110512001Bln01; MLDE110512002Bln01; MLDE110513001Bln01; MLDE110513002Bln01 was found to be free of all target analytes at the stated detection limit.

Surrogates

All surrogate recoveries for all soil samples were within the acceptance limits of 50-150 %R, with the exception of

- Decachlorobiphenyl which was low in TMD-SO 010/7-8, MLDE110414001Bln01, TMD- SO 014/10-11, TMD-SO 035/5-6 R, TMD-SO 036/5-5.5, TMD-SO 037/1-2,

Reviewed By: _____ Date: 6/14/11

TMD-SO 037/2-3, TMD-SO 037/7.3-8, TMD-SO 037/11.2-12.2, TMD-SO 038/2.5-3.5, TMD-SO 038/5-6, TMD-SO 038/11.4-12.4, TMD-SO 039/1-2, TMD-SO 039/2-3, TMD-SO 039/5-6, TMD-SO 040/10-11, TMD-SO 041/1-2, TMD-SO 041/4-5, TMD-SO 041/6-7, TMD-SO 050/2-2.4, TMD-SO 071/0-1. TMD-SO 082/12-13, TMD-SO 082/13-14, TMD-SO 082/17-18, TMD-SO 083/5-6 SPK, TMD-SO 083/12-13, TMD-SO 084/5-7, TMD-SO 084/10-11, TMD-SO 086/6-7, and TMD-SO 086/10-11.

- Decachlorobiphenyl which was above the QC limit in TMD-SO 053/12.5-13.5 and TMD-SO 054/11-12R.
- Tetrachloro-m-xylene which was high in TMD-SO 025/6-7, TMD-SO 030/6-7 R, TMD-SO 031/2-3 R, and TMD-SO 031/5-6.

No action is taken when only one surrogate is out of control.

Both surrogates were below the acceptance limits of 50-150 %R in soil samples TMD-SO 045/1-2, TMD-SO 045/2-3, TMD-SO 092/5-6, and TMD-SO 093/13.5-14. In those samples detects are qualified "J" and non-detects "UJ".

All surrogate recoveries in water samples were within the acceptance limits of 60-140 %R with the exception of

- Decachlorobiphenyl which was below the lower limit in TMD-GW 006/5, TMD-GW 012/5, TMD-GW 013/3, TMD-GW 014/3, TMD-GW 015/7, TMD-GW 017/7, TMD-GW 024/5 R, TMD-GW 023/9, TMD-GW 024/5, TMD-EB 001, MLDE110420001Bln01, TMD-GW 029/5, TMD-GW 030/8, TMD-GW 032/8, TMD-GW 035/7, TMD-GW 036/7, TMD-GW 037/7, TMD-GW 039/2, TMD-GW 040/7, and TMD-GW 082/15.
- Tetrachloro-m-xylene which was below the lower limit in TMD-GW 078/6.

No action is taken when only one surrogate is out of control.

Both surrogates were below the acceptance limits of 60-140 %R in water sample TMD-GW 038/7. In that sample detects are qualified "J" and non-detects "UJ".

Matrix Spikes

The following samples were utilized for matrix spike analysis: TMD-SO 003/5-6, TMD-SO 005/8-8.5, TMD-SO 007/2-3, TMD-SO 009/4-5, TMD-SO 010/0-1, TMD-SO 014/4-5, TMD-SO 020/2-3 , TMD-GW 008/5, TMD-SO 023/2-3, TMD-SO 026/6-7, TMD-SO 032/2-3, TMD-SO 036/1-2, TMD-SO 042/2-3, TMD-SO 043/1-2, TMD-GW 036/7, TMD-SO 050/6-7, TMD-SO 056/2-3, TMD-SO 060/5-6, TMD-SO 064/10-11, TMD-SO 065/1.3-2, TMD-SO 070/4-5, TMD-SO 073/6-7, TMD-GW 076/MH, TMD-SO 077/8-9, TMD-SO 080/7.5-8.5, TMD-SO 083/5-6, TMD-SO 086/10-11, and TMD-GW 091/MH. The percent recoveries of all spiked compounds were within acceptance criteria of 50-150 %R.

Reviewed By: _____ Date: 6/14/11

Site Name: 10 Mile Drain
TDF# 5-314-001
Date Issued: 06/14/11
Analysis: PCBs

Author: Thomas Sedlacek
Charge# 03037.4.14.02.03.B5VE.000.001
Report Title: StClair Final Report

Other Sample Information

The following samples were run at a dilution for the analyses to be within the calibration range.

TMD-SO 016/2-3 at 10x; TMD-SO 025/1-2 at 10x; TMD-SO 025/2-3 at 30x; TMD-SO 025/5-6 at 10x; TMD-SO 027/1-2 at 5x; TMD-SO 027/10-11 at 10x; TMD-SO 027/10-11R at 10x; TMD-GW 027/10 at 20x; TMD-GW 029/5 at 40x; TMD-GW 037/7 at 10x; TMD-SO 048 at 20x; TMD-SO 051/8.5-9.5 at 10x; TMD-SO 053/12.5-13.5 at 10000x; TMD-SO 053/13.5-14 at 2000x; TMD-SO 053/14.5-15 at 10x; TMD-SO 054/11-12R at 200x; TMD-SO 055/7-8 at 20x; TMD-SO 055/10-11 at 10x; TMD-SO 057/12-13 at 10x; TMD-SO 057/13-13.6 at 200x; TMD-SO 059/12-13 at 200x; TMD-SO 059/12-13R at 200x; TMD-SO 059/13-14 at 2x; TMD-SO 060/6-6.7 at 2x; TMD-SO 064/10-11 at 40x; TMD-SO 064/10-11SPK at 40x; TMD-SO 064/12-13 at 100x; TMD-SO 064/12-13R at 100x; TMD-SO 068/10-11 at 5000x; TMD-SO 068/12-13 at 5000x; TMD-SO 068/13-14 at 10x; TMD-SO 069/10-11 at 10x; TMD-SO 070/2-3 at 40x; TMD-SO 073/13-14 at 10x; TMD-GW 078/6 at 100x; TMD-SO 081/14.8-15 at 500x; TMD-SO 082/6-6.5 at 2x.

An experienced analyst reviewed the sample chromatograms to ensure that no pattern matches for any of the standard Aroclors were present.

This report accompanies an enhanced EDD output with the sample results and detection limits corrected for percent solids.

Flag	Description
J	The reported value is considered estimated due to Quality Control Issues
U	The compound is non-detect at the reported value

Reviewed By: _____ Date: 6/14/11

Site Name: 10 Mile Drain
TDF# 5-314-002
Date Issued: 5/18/2011
Analysis: Percent Solids

Author: Stephen Connet
Charge# 03037.4.14.02.03.B5VE.000.002
Report Title: St. Clair Shores

NARRATIVE

Four hundred sixty (460) soil samples were submitted to FASP (Field Analytical Support Program) for PCB analysis. The samples were shipped to CRL for percent solids analysis.

Sample Analysis

The samples were received at CRL on May 3, 5 and 17, 2011 and were analyzed between May 3 and 18, 2011. Several samples received in the May 17, 2011 shipment were found to be under water from melted ice in the cooler at the time of receipt. The following samples contained significant amounts of water inside the bag containing the samples (identified by sample number/station location per the Field COC): 24/TMD-SO 082/13-14, 11CT05-27/TMD-SO 083/1-2, 11CT05-30/TMD-SO 083/5-6, 11CT05-43/TMD-SO 086/1-2, 11CT05-46/TMD-SO 086/10-11, 11CT05-50/TMD-SO 089/7-8, 11CT05-52/TMD-SO 090/2-3. The percent solids for these samples may be biased low which will bias the reported dry weight corrected results high.

Sample QC (Method Blanks and Laboratory Duplicates)

Method blank were found to be free of contamination. Laboratory duplicates were found to be within limits.

Reviewed By: _____ Date: 5/19/11

Site.....:	10 Mile Drain/St. Clair Shores
TDF #.....:	05-314-002
Charge #.....:	03037.4.14.02.03.B5VE.000.002

FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE: DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)	105 Deg (%Solids)	RPD
A BLK	0.9284	[illegible]	0.9283	0.0001	
11ML0119	0.9325	11.0509	9.6490	86.1	
11ML0120	0.9248	12.8293	11.1119	85.6	
11ML0121	0.9286	16.6176	14.3329	85.4	
11ML0122	0.9232	13.2775	11.7365	87.5	
11ML0123	0.9215	14.1770	12.6159	88.2	
11ML0124	0.9237	12.8605	10.9293	83.8	
11ML0125	0.9223	11.9409	10.3485	85.5	
11ML0126	0.9250	13.2929	11.2397	83.4	
11ML0127	0.9234	10.9391	9.8507	89.1	
11ML0128	0.9262	11.1023	9.3132	82.4	
11ML0129	0.9239	12.1753	9.5633	76.8	
11ML0130	0.9281	12.3896	10.9337	87.3	
11ML0131	0.9279	11.2403	9.3956	82.1	
11ML0132	0.9284	11.3704	9.3618	80.8	
11ML0133	0.9304	10.9533	8.7464	78.0	
11ML0133-DUP	0.9340	10.9513	8.9250	79.8	2.27
11ML0134	0.9261	12.0822	10.1312	82.5	
11ML0135	0.9228	12.6963	10.5035	81.4	
11ML0136	0.9241	12.1052	9.7631	79.1	
11ML0137	0.9151	13.4531	11.7056	86.1	
11ML0138	0.9133	12.8658	11.5211	88.7	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	LM	5/3/2011	1120181839 (#5)
Analyst (final weights)	LM	5/4/2011	1120181839 (#5)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	B BLK	1.2463		1.2463	0.0000	
	11ML0139	1.2664	12.4107	10.6390	84.1	
	11ML0140	1.2746	10.0835	8.8779	86.3	
	11ML0141	1.2613	10.6085	8.9571	82.3	
	11ML0142	1.2775	10.1876	8.7757	84.2	
	11ML0143	1.2626	10.3372	8.9283	84.5	
	11ML0144	1.2692	10.6431	9.5574	88.4	
	11ML0144-DUP	1.2380	10.6514	9.6409	89.3	0.95
	11ML0145	1.0768	11.0798	9.9853	89.1	
	11ML0146	1.2634	10.1192	9.2580	90.3	
	11ML0147	1.2389	11.1046	9.9079	87.9	
	11ML0148	1.2380	10.1641	9.1137	88.2	
	11ML0149	1.2442	10.3305	9.3113	88.8	
	11ML0150	1.2782	10.0550	8.6921	84.5	
	11ML0151	1.2506	9.7689	8.7510	88.1	
	11ML0152	1.2626	9.4348	8.0775	83.4	
	11ML0153	1.2636	11.4485	9.7036	82.9	
	11ML0154	1.2532	11.5103	9.9246	84.5	
	11ML0155	1.2554	10.1908	8.4788	80.8	
	11ML0156	1.2774	9.7304	9.0692	92.2	
	11ML0157	1.2738	10.5450	9.7623	91.6	
	11ML0158	1.2705	11.8331	10.6211	88.5	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	LD	5/5/2011	1120181839 (#5)
Analyst (final weights)	SC	5/6/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	C BLK	0.9205		0.9206	-0.0001	
	11ML0159	0.9106	14.5230	12.7812	87.2	
	11ML0160	0.9125	11.9883	11.3156	93.9	
	11ML0161	0.9176	11.8103	10.3135	86.3	
	11ML0162	0.9103	15.4532	13.6705	87.7	
	11ML0163	0.9248	14.5366	12.5694	85.5	
	11ML0164	0.9165	12.4363	10.6496	84.5	
	11ML0164-DUP	0.9252	12.2578	10.6373	85.7	1.42
	11ML0165	0.9245	13.5210	11.4229	83.3	
	11ML0166	0.9138	12.5000	10.3369	81.3	
	11ML0167	0.9237	14.0527	12.4824	88.0	
	11ML0168	0.9094	12.3607	10.2825	81.9	
	11ML0169	0.9124	12.4278	10.7742	85.6	
	11ML0170	0.9062	11.7777	10.5128	88.4	
	11ML0171	0.9069	12.3967	11.1397	89.1	
	11ML0172	0.9106	12.2363	10.7420	86.8	
	11ML0173	0.9200	11.0897	9.2569	82.0	
	11ML0174	0.9238	13.7901	11.9272	85.5	
	11ML0175	0.9222	13.6104	12.2838	89.5	
	11ML0176	0.9236	12.6803	11.1260	86.8	
	11ML0177	0.9122	13.6663	11.6617	84.3	
	11ML0178	0.9059	13.7905	11.6057	83.0	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	LM	5/3/2011	1120181839 (#5)
Analyst (final weights)	LM	5/4/2011	1120181839 (#5)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	D BLK	0.9149	[illegible]	0.9145	0.0004	
	11ML0179	0.9138	11.9679	10.0125	82.3	
	11ML0180	0.9125	13.1047	11.0332	83.0	
	11ML0181	0.9128	13.0583	11.5515	87.6	
	11ML0182	0.9149	12.3843	11.0549	88.4	
	11ML0183	0.9128	13.8011	12.2219	87.7	
	11ML0184	0.9113	11.9781	10.5250	86.9	
	11ML0185	0.9248	11.8690	10.2533	85.2	
	11ML0186	0.9069	12.4403	10.3216	81.6	
	11ML0187	0.9073	12.8718	10.9276	83.8	
	11ML0188	0.9048	12.3255	10.5736	84.7	
	11ML0189	0.9019	11.6060	9.5119	80.4	
	11ML0189-DUP	0.9031	11.8582	9.9161	82.3	2.26
	11ML0190	0.9108	12.7008	10.6387	82.5	
	11ML0191	0.9048	11.7669	9.8361	82.2	
	11ML0192	0.9091	12.1657	9.9197	80.0	
	11ML0193	0.9096	13.8516	11.7695	83.9	
	11ML0194	0.9143	13.7121	11.7852	84.9	
	11ML0195	0.9196	11.7994	9.9306	82.8	
	11ML0196	0.9222	14.4964	12.4176	84.7	
	11ML0197	0.9237	13.1616	11.3047	84.8	
	11ML0198	0.9272	13.0191	11.1876	84.9	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	LM	5/4/2011	1120181839 (#5)
Analyst (final weights)	LD	5/5/2011	1120181839 (#5)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	E BLK	0.9151	[redacted]	0.9150	0.0001	
	11ML0199	0.9143	13.7554	12.5631	90.7	
	11ML0199-DUP	0.9292	13.7461	12.4557	89.9	0.87
	11ML0200	0.9135	12.7774	11.3017	87.6	
	11ML0201	0.9153	13.5182	11.4389	83.5	
	11ML0202	0.9174	11.8966	10.2927	85.4	
	11ML0203	0.9160	14.0747	11.9322	83.7	
	11ML0204	0.9147	12.6957	10.7056	83.1	
	11ML0205	0.9257	12.0613	10.2971	84.2	
	11ML0206	0.9194	14.2854	12.1421	84.0	
	11ML0207	0.9123	13.2601	10.3308	76.3	
	11ML0208	0.9075	14.6493	12.3862	83.5	
	11ML0209	0.9085	12.5791	10.7067	84.0	
	11ML0210	0.9112	14.3821	11.7011	80.1	
	11ML0211	0.9092	16.1811	13.7604	84.1	
	11ML0212	0.9129	12.8261	10.8223	83.2	
	11ML0213	0.9160	12.6362	10.5466	82.2	
	11ML0214	0.9164	11.0369	9.6293	86.1	
	11ML0215	0.9298	13.0095	11.3671	86.4	
	11ML0216	0.9202	14.3088	10.8262	74.0	
	11ML0217	0.9232	12.5883	10.5107	82.2	
	11ML0218	0.9254	12.4081	9.6540	76.0	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	LM	5/4/2011	1120181839 (#5)
Analyst (final weights)	LD	5/5/2011	1120181839 (#5)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	F BLK	0.9279	[illegible]	0.9280	-0.0001	
	11ML0219	0.9265	16.3433	13.0077	78.4	
	11ML0220	0.9282	13.1758	11.2771	84.5	
	11ML0221	0.9291	14.4023	13.6021	94.1	
	11ML0222	0.9259	11.7720	11.1148	93.9	
	11ML0223	0.9304	12.9432	11.8123	90.6	
	11ML0224	0.9293	12.7864	11.3234	87.7	
	11ML0225	0.9215	11.7968	10.3554	86.7	
	11ML0226	0.9159	14.7860	12.7507	85.3	
	11ML0227	0.9207	13.1971	11.3877	85.3	
	11ML0228	0.9254	11.5020	10.7992	93.4	
	11ML0229	0.9328	12.6389	11.7388	92.3	
	11ML0229-DUP	0.9208	12.5364	11.6607	92.5	0.16
	11ML0230	0.9140	12.4158	11.8520	95.1	
	11ML0231	0.9203	12.2778	11.7168	95.1	
	11ML0232	0.9330	12.2709	11.5784	93.9	
	11ML0233	0.9306	13.5663	12.0588	88.1	
	11ML0234	0.9309	11.8618	10.3667	86.3	
	11ML0235	0.9310	16.2054	14.4297	88.4	
	11ML0236	0.9279	11.9873	10.0738	82.7	
	11ML0237	0.9312	11.9136	10.1304	83.8	
	11ML0238	0.9334	15.3310	12.4146	79.7	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	LM	5/4/2011	1120181839 (#5)
Analyst (final weights)	LD	5/5/2011	1120181839 (#5)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	G BLK	1.2702	[illegible]	1.2704	-0.0002	
	11ML0239	1.2686	10.1865	8.7948	84.4	
	11ML0240	1.2656	10.7855	8.9471	80.7	
	11ML0241	1.2616	10.3125	8.5476	80.5	
	11ML0242	1.2617	11.6107	9.7394	81.9	
	11ML0243	1.2768	11.1534	10.7525	95.9	
	11ML0244	1.2683	11.7642	11.3495	96.0	
	11ML0244-DUP	1.2624	10.5553	10.1338	95.5	0.61
	11ML0245	1.2653	12.1006	10.9696	89.6	
	11ML0246	1.2721	11.7091	10.6413	89.8	
	11ML0247	1.2636	12.1944	10.6075	85.5	
	11ML0248	1.2713	11.1384	9.6851	85.3	
	11ML0249	1.2690	10.7299	10.3379	95.9	
	11ML0250	1.2744	10.4960	10.0832	95.5	
	11ML0251	1.2670	10.9915	9.6406	86.1	
	11ML0252	1.2649	11.7008	10.1638	85.3	
	11ML0253	1.2659	11.2730	9.9290	86.6	
	11ML0267	1.2700	11.2934	10.7959	95.0	
	11ML0268	1.2748	11.3441	10.6057	92.7	
	11ML0269	1.2731	10.8572	10.2666	93.8	
	11ML0269-DUP	1.2628	11.0912	10.5057	94.0	0.22
	11ML0270	1.2619	10.9915	9.8608	88.4	
	11ML0271	1.2696	11.7746	11.2103	94.6	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	LD	5/5/2011	1120181839 (#5)
Analyst (final weights)	SC	5/6/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	H BLK	1.2641	[illegible]	1.2640	0.0001	
	11ML0272	1.2638	10.4114	9.8984	94.4	
	11ML0272-DUP	1.2654	10.0796	9.6149	94.7	0.36
	11ML0273	1.2758	10.4318	9.6216	91.2	
	11ML0274	1.2547	10.9932	9.4846	84.5	
	11ML0275	1.2715	10.9838	9.4098	83.8	
	11ML0276	1.2530	9.5365	8.3631	85.8	
	11ML0277	1.2568	10.7211	10.0286	92.7	
	11ML0278	1.2756	10.1351	8.7165	84.0	
	11ML0279	1.2714	10.2945	8.6517	81.8	
	11ML0280	1.2650	10.9446	9.4780	84.8	
	11ML0281	1.2651	10.3417	9.0938	86.3	
	11ML0282	1.2586	10.7004	9.3227	85.4	
	11ML0283	1.2638	10.1267	9.4213	92.0	
	11ML0284	1.2687	10.7362	9.1275	83.0	
	11ML0285	1.2639	11.1831	10.9380	97.5	
	11ML0286	1.2588	10.1153	8.5479	82.3	
	11ML0287	1.2612	10.6212	10.0537	93.9	
	11ML0288	1.2744	10.3906	9.8457	94.0	
	11ML0289	1.2600	9.8594	9.2073	92.4	
	11ML0290	1.2660	10.1278	8.9708	86.9	
	11ML0291	1.2701	10.7453	10.1452	93.7	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	LD	5/5/2011	1120181839 (#5)
Analyst (final weights)	SC	5/6/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	I BLK	0.9362	[illegible]	0.9362	0.0000	
	11ML0292	0.9381	11.8304	11.1184	93.5	
	11ML0293	0.9371	10.8426	10.2713	94.2	
	11ML0294	0.9257	10.7312	9.7871	90.4	
	11ML0295	0.9305	11.7591	10.7372	90.6	
	11ML0296	0.9234	11.8243	9.7290	80.8	
	11ML0297	0.9200	12.2761	10.8269	87.2	
	11ML0298	0.9186	11.9170	10.5182	87.3	
	11ML0299	0.9190	11.5856	9.6740	82.1	
	11ML0300	0.9177	11.4322	9.8858	85.3	
	11ML0301	1.0728	13.0932	10.9951	82.5	
	11ML0302	0.9402	12.8228	11.2472	86.7	
	11ML0303	0.9417	12.1781	11.4170	93.2	
	11ML0304	0.9412	11.4177	10.9110	95.2	
	11ML0304-DUP	0.9390	11.4767	10.9618	95.1	0.05
	11ML0305	0.9384	12.1421	11.2774	92.3	
	11ML0306	0.9407	12.6680	11.5256	90.3	
	11ML0307	0.9411	11.4673	9.9743	85.8	
	11ML0308	0.9430	11.3747	10.5499	92.1	
	11ML0309	1.0926	11.2223	10.7258	95.1	
	11ML0310	1.1190	11.9496	11.3685	94.6	
	11ML0311	1.0948	11.5734	11.0205	94.7	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	LM	5/4/2011	1120181839 (#5)
Analyst (final weights)	LD	5/5/2011	1120181839 (#5)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	J BLK	0.9304		0.9304	0.0000	
	11ML0312	0.9310	16.4986	14.9244	89.9	
	11ML0313	0.9304	11.3780	9.9566	86.4	
	11ML0314	0.9292	11.1662	9.7348	86.0	
	11ML0315	0.9273	12.5240	11.8372	94.1	
	11ML0316	0.9225	12.3032	11.6124	93.9	
	11ML0317	0.9224	11.3246	10.5538	92.6	
	11ML0318	0.9219	12.0532	11.2761	93.0	
	11ML0319	0.9221	11.7564	10.9432	92.5	
	11ML0320	0.9257	13.5835	11.7620	85.6	
	11ML0321	0.9281	10.4080	10.1212	97.0	
	11ML0321-DUP	0.9289	10.6188	10.2587	96.3	0.71
	11ML0322	0.9310	11.3127	10.9538	96.5	
	11ML0323	0.9326	10.6105	9.8858	92.5	
	11ML0324	0.9359	15.8603	13.8350	86.4	
	11ML0325	0.9406	12.2409	11.3706	92.3	
	11ML0326	0.9375	12.0697	11.4708	94.6	
	11ML0327	0.9403	11.3386	10.8156	95.0	
	11ML0328	0.9382	11.9382	10.6038	87.9	
	11ML0329	0.9359	10.7302	9.6005	88.5	
	11ML0330	0.9358	11.8195	10.3871	86.8	
	11ML0331	0.9364	11.4633	10.9647	95.3	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	SC	5/4/2011	1120181846 (#4)
Analyst (final weights)	SC	5/5/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	K BLK	0.9213	[illegible]	0.9212	0.0001	
	11ML0332	0.9227	11.0854	10.2939	92.2	
	11ML0332-DUP	0.9277	11.7060	10.8639	92.2	0.03
	11ML0333	0.9272	12.1177	10.9727	89.8	
	11ML0334	0.9284	10.8394	9.4645	86.1	
	11ML0335	0.9281	15.8836	13.0042	80.7	
	11ML0336	0.9276	11.4770	9.2756	79.1	
	11ML0337	0.9281	13.6719	11.7892	85.2	
	11ML0338	0.9274	14.1679	12.5483	87.8	
	11ML0339	0.9258	14.7843	12.9423	86.7	
	11ML0353	0.9237	12.1502	11.6574	95.6	
	11ML0354	0.9254	11.3034	10.8917	96.0	
	11ML0355	0.9233	10.4706	9.8427	93.4	
	11ML0356	0.9220	11.0242	9.7489	87.4	
	11ML0357	0.9246	15.7940	14.0779	88.5	
	11ML0358	0.9273	10.8343	9.3317	84.8	
	11ML0359	0.9278	10.6161	8.5452	78.6	
	11ML0360	0.9271	11.0665	9.5895	85.4	
	11ML0361	0.9312	11.5303	9.9935	85.5	
	11ML0362	0.9329	11.6184	9.9043	84.0	
	11ML0363	0.9351	18.9302	16.9111	88.8	
	11ML0364	0.9334	16.5082	14.8372	89.3	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	SC	5/4/2011	1120181846 (#4)
Analyst (final weights)	SC	5/5/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	L BLK	0.9352	[illegible]	0.9352	0.0000	
	11ML0365	0.9365	10.2918	9.8396	95.2	
	11ML0366	0.9377	13.8274	13.1973	95.1	
	11ML0366-DUP	0.9379	12.1581	11.5848	94.9	0.23
	11ML0367	0.9354	11.3817	10.8256	94.7	
	11ML0368	0.9353	10.8596	10.3458	94.8	
	11ML0369	0.9310	10.6067	9.7100	90.7	
	11ML0370	0.9297	10.8451	9.4770	86.2	
	11ML0371	0.9299	13.1460	12.6302	95.8	
	11ML0372	0.9292	12.0721	11.1841	92.0	
	11ML0373	0.9285	10.9748	10.5565	95.8	
	11ML0374	0.9300	11.0336	10.4900	94.6	
	11ML0375	0.9330	13.5560	11.7779	85.9	
	11ML0376	0.9324	13.1286	11.2394	84.5	
	11ML0377	0.9325	14.1171	11.8233	82.6	
	11ML0378	0.9352	10.8061	9.1955	83.7	
	11ML0379	0.9333	10.3305	8.6009	81.6	
	11ML0380	0.9287	11.8899	10.4933	87.3	
	11ML0381	0.9301	11.3484	9.8360	85.5	
	11ML0382	0.9298	10.7360	9.1919	84.3	
	11ML0383	0.9332	10.9758	9.2296	82.6	
	11ML0384	0.9328	11.2567	9.2529	80.6	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	SC	5/4/2011	1120181846 (#4)
Analyst (final weights)	SC	5/5/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	M BLK	0.9269	[redacted]	0.9266	0.0003	
	11ML0385	0.9252	13.6330	11.2383	81.2	
	11ML0385-DUP	0.9209	11.6575	9.6509	81.3	0.19
	11ML0386	0.9186	11.0715	9.9376	88.8	
	11ML0387	0.9189	10.0121	8.7593	86.2	
	11ML0388	0.9202	12.2787	10.0870	80.7	
	11ML0389	0.9204	11.5490	9.3795	79.6	
	11ML0390	0.9214	10.8636	9.4501	85.8	
	11ML0391	0.9239	10.8264	9.6334	88.0	
	11ML0392	0.9272	10.2924	8.4760	80.6	
	11ML0393	0.9264	12.8100	11.5473	89.4	
	11ML0394	0.9284	13.5726	11.1418	80.8	
	11ML0395	0.9269	12.3096	9.9312	79.1	
	11ML0396	0.9241	12.8925	10.6951	81.6	
	11ML0397	0.9246	13.9203	11.3172	80.0	
	11ML0398	0.9240	11.6217	10.2690	87.4	
	11ML0399	0.9201	19.0933	15.4878	80.2	
	11ML0400	0.9204	11.6868	9.7493	82.0	
	11ML0401	0.9222	11.3756	10.1388	88.2	
	11ML0402	0.9225	14.8617	12.9862	86.5	
	11ML0403	0.9246	11.2594	9.7136	85.0	
	11ML0404	0.9272	13.8790	11.5003	81.6	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	SC	5/3/2011	1120181846 (#4)
Analyst (final weights)	SC	5/4/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	N BLK	0.9244		0.9244	0.0000	
	11ML0405	0.9264	14.3479	12.8950	89.2	
	11ML0405-DUP	0.9292	12.2375	11.1669	90.5	1.51
	11ML0406	0.9318	13.0330	11.6560	88.6	
	11ML0407	0.9313	11.6727	10.5627	89.7	
	11ML0408	0.9352	11.5427	9.5150	80.9	
	11ML0409	0.9347	12.1455	10.1450	82.2	
	11ML0410	0.9354	12.7263	10.9589	85.0	
	11ML0411	0.9334	12.1415	11.8071	97.0	
	11ML0412	0.9325	11.7280	11.3397	96.4	
	11ML0413	0.9301	11.3908	10.3393	89.9	
	11ML0414	0.9284	11.2795	10.1208	88.8	
	11ML0415	0.9244	12.9866	10.8364	82.2	
	11ML0416	0.9208	11.3352	9.4641	82.0	
	11ML0417	0.9240	12.0926	10.6881	87.4	
	11ML0418	0.9276	13.8953	11.8400	84.2	
	11ML0419	0.9279	10.7220	9.8621	91.2	
	11ML0420	0.9293	11.9285	10.9204	90.8	
	11ML0421	0.9278	12.7670	11.1524	86.4	
	11ML0422	0.9252	13.3542	11.7995	87.5	
	11ML0423	0.9216	12.1362	10.6757	87.0	
	11ML0424	0.9221	15.7712	13.8133	86.8	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	SC	5/4/2011	1120181846 (#4)
Analyst (final weights)	SC	5/5/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	O BLK	0.9287		0.9287	0.0000	
	11ML0425	0.9278	14.0122	12.3474	87.3	
	11ML0426	0.9286	10.8889	9.5243	86.3	
	11ML0427	0.9242	12.0373	10.5284	86.4	
	11ML0428	0.9204	10.8350	9.6947	88.5	
	11ML0429	0.9222	12.0156	10.7695	88.8	
	11ML0430	0.9190	11.5872	9.6463	81.8	
	11ML0431	0.9184	11.9353	10.4916	86.9	
	11ML0432	0.9161	12.3223	11.4303	92.2	
	11ML0433	0.9165	11.7839	11.1502	94.2	
	11ML0433-DUP	0.9195	13.0973	12.3431	93.8	0.39
	11ML0434	0.9228	11.2342	9.9717	87.8	
	11ML0435	0.9245	12.3854	10.5885	84.3	
	11ML0436	0.9274	12.1139	10.6921	87.3	
	11ML0437	0.9296	12.9689	12.5668	96.7	
	11ML0438	0.9313	10.8791	9.9956	91.1	
	11ML0439	0.9316	11.8232	10.8403	91.0	
	11ML0440	0.9285	12.2153	10.7456	87.0	
	11ML0441	0.9237	15.2384	13.0793	84.9	
	11ML0442	0.9223	14.5703	12.3737	83.9	
	11ML0443	0.9229	12.0885	10.1509	82.6	
	11ML0444	0.9229	14.0346	11.9896	84.4	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	SC	5/4/2011	1120181846 (#4)
Analyst (final weights)	SC	5/5/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	P BLK	0.9215		0.9217	-0.0002	
	11ML0445	0.9208	11.7765	10.2652	86.1	
	11ML0446	0.9208	10.8985	9.5607	86.6	
	11ML0447	0.9209	11.2256	9.8323	86.5	
	11ML0448	0.9291	13.9032	11.9518	85.0	
	11ML0449	0.9278	10.5352	9.7143	91.5	
	11ML0450	0.9291	10.6939	9.9801	92.7	
	11ML0451	0.9287	11.5960	10.6677	91.3	
	11ML0452	0.9272	11.4415	10.0512	86.8	
	11ML0453	0.9247	11.9481	10.1836	84.0	
	11ML0454	0.9242	12.9084	10.8920	83.2	
	11ML0455	0.9242	19.9311	18.3859	91.9	
	11ML0456	0.9226	11.4649	10.9676	95.3	
	11ML0457	0.9247	11.0035	10.4765	94.8	
	11ML0458	0.9236	12.2766	11.5308	93.4	
	11ML0458-DUP	0.9232	12.3416	11.6575	94.0	0.62
	11ML0459	0.9251	13.7420	12.6707	91.6	
	11ML0460	0.9235	10.5777	9.0610	84.3	
	11ML0461	0.9225	11.7114	11.1050	94.4	
	11ML0462	0.9232	13.1818	11.3868	85.4	
	11ML0463	0.9226	12.0609	10.6307	87.2	
	11ML0464	0.9213	10.5078	9.9795	94.5	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	SC	5/4/2011	1120181846 (#4)
Analyst (final weights)	SC	5/5/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	Q BLK	0.9331	[redacted]	0.9334	-0.0003	
	11ML0465	0.9315	11.6174	11.0162	94.4	
	11ML0466	0.9301	11.2689	10.3380	91.0	
	11ML0467	0.9295	11.4915	10.6237	91.8	
	11ML0468	0.9301	11.4735	10.0622	86.6	
	11ML0469	0.9296	10.9980	9.9463	89.6	
	11ML0470	0.9266	11.8464	11.0726	92.9	
	11ML0471	0.9248	10.6064	9.5400	89.0	
	11ML0471-DUP	0.9213	11.4606	10.2745	88.7	0.27
	11ML0472	0.9188	11.1492	9.6321	85.2	
	11ML0473	0.9158	12.2974	10.7305	86.2	
	11ML0474	0.9156	12.7451	11.1970	86.9	
	11ML0475	0.9174	11.2716	10.8946	96.4	
	11ML0476	0.9223	11.0939	10.6414	95.6	
	11ML0477	0.9250	11.8097	10.4837	87.8	
	11ML0478	0.9277	11.4616	10.2151	88.2	
	11ML0479	0.9266	12.7879	11.1387	86.1	
	11ML0480	0.9260	12.2965	10.5621	84.7	
	11ML0481	0.9286	14.0863	11.8923	83.3	
	11ML0482	0.9294	11.1892	9.6884	85.4	
	11ML0483	0.9281	11.0737	10.0522	89.9	
	11ML0484	0.9258	10.3659	9.2245	87.9	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	SC	5/3/2011	1120181846 (#4)
Analyst (final weights)	SC	5/4/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	R BLK	0.9166	[illegible]	0.9169	-0.0003	
	11ML0485	0.9124	14.4139	12.6119	86.7	
	11ML0486	0.9282	15.8960	13.6750	85.2	
	11ML0487	0.9303	12.9682	11.2951	86.1	
	11ML0488	0.9304	14.7330	12.6209	84.7	
	11ML0489	0.9207	11.2455	9.6832	84.9	
	11ML0490	0.9271	12.8953	10.8234	82.7	
	11ML0491	0.9332	15.2330	13.0255	84.6	
	11ML0492	0.9250	12.1919	10.3561	83.7	
	11ML0493	0.9216	16.9842	14.0810	81.9	
	11ML0494	0.9172	16.1926	14.4523	88.6	
	11ML0495	0.9136	10.5686	3.6049	27.9	
	11ML0496	0.9147	10.5354	9.6938	91.3	
	11ML0497	0.9160	11.4676	10.0821	86.9	
	11ML0498	0.9169	14.0502	11.3927	79.8	
	11ML0499	0.9193	11.6638	10.1338	85.8	
	11ML0500	0.9230	11.2252	9.7774	85.9	
	11ML0501	0.9265	18.0086	15.5187	85.4	
	11ML0502	0.9317	11.5736	10.9159	93.8	
	11ML0503	0.9302	12.0026	11.2110	92.9	
	11ML0503-DUP	0.9270	11.4765	10.7468	93.1	0.25
	11ML0504	0.9245	11.2953	9.7732	85.3	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	SC	5/5/2011	1120181846 (#4)
Analyst (final weights)	SC	5/6/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	S BLK	0.9228	[redacted]	0.9228	0.0000	
	11ML0505	0.9239	11.8131	10.2473	85.6	
	11ML0505-DUP	0.9243	15.7390	13.6630	86.0	0.43
	11ML0506	0.9248	12.1847	10.3876	84.0	
	11ML0507	0.9264	11.9858	10.2110	84.0	
	11ML0508	0.9289	13.2853	11.5472	85.9	
	11ML0509	0.9293	15.3682	13.3497	86.0	
	11ML0510	0.9314	12.5304	10.4548	82.1	
	11ML0511	0.9326	11.1266	10.1447	90.4	
	11ML0512	0.9345	11.3200	9.7796	85.2	
	11ML0513	0.9347	14.0727	11.5352	80.7	
	11ML0514	0.9368	12.9785	10.9703	83.3	
	11ML0515	0.9360	13.2316	10.7402	79.7	
	11ML0516	0.9356	13.7939	11.1704	79.6	
	11ML0517	0.9378	11.6603	10.1963	86.3	
	11ML0518	0.9350	10.9977	10.1331	91.4	
	11ML0519	0.9313	11.0995	10.3065	92.2	
	11ML0520	0.9284	13.8310	11.8697	84.8	
	11ML0521	0.9260	11.6017	9.7323	82.5	
	11ML0522	0.9269	10.4708	8.1513	75.7	
	11ML0523	0.9278	15.8769	13.8668	86.6	
	11ML0527	0.9276	11.0465	9.8540	88.2	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	SC	5/5/2011	1120181846 (#4)
Analyst (final weights)	SC	5/6/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	T BLK	0.9307	[redacted]	0.9307	0.0000	
	11ML0528	0.9272	12.0791	10.6823	87.5	
	11ML0528-DUP	0.9269	14.0030	12.5362	88.8	1.48
	11ML0529	0.9269	10.5604	9.5307	89.3	
	11ML0530	0.9307	11.4181	9.4149	80.9	
	11ML0531	0.9231	16.8394	14.6686	86.4	
	11ML0532	0.9244	14.5923	12.7086	86.2	
	11ML0533	0.9224	10.4961	9.9621	94.4	
	11ML0534	0.9218	10.4178	9.8722	94.3	
	11ML0535	0.9263	12.1672	10.5474	85.6	
	11ML0536	0.9221	10.7041	9.9963	92.8	
	11ML0537	0.9227	11.6030	10.0288	85.3	
	11ML0538	0.9225	10.4920	9.1131	85.6	
	11ML0539	0.9216	14.1634	12.6002	88.2	
	11ML0540	0.9209	11.1002	9.3617	82.9	
	11ML0541	0.9208	10.8559	8.9791	81.1	
	11ML0542	0.9193	13.4790	10.8166	78.8	
	11ML0543	0.9205	11.1630	8.4393	73.4	
	11ML0544	0.9220	11.2299	8.9191	77.6	
	11ML0545	0.9204	13.8506	12.3264	88.2	
	11ML0546	0.9180	11.0589	10.4138	93.6	
	11ML0547	0.9155	11.0050	10.4912	94.9	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	SC	5/5/2011	1120181846 (#4)
Analyst (final weights)	SC	5/6/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	U BLK	0.9355	[illegible]	0.9353	0.0002	
	11ML0548	0.9372	15.0535	12.7293	83.5	
	11ML0548-DUP	0.9422	13.0064	10.9507	83.0	0.69
	11ML0549	0.9392	11.2839	9.5934	83.7	
	11ML0550	0.9402	10.7054	9.5859	88.5	
	11ML0551	0.9401	11.1702	10.0204	88.8	
	11ML0552	0.9426	13.6808	11.2748	81.1	
	11ML0553	0.9432	11.2325	9.8379	86.4	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	SC	5/5/2011	1120181846 (#4)
Analyst (final weights)	SC	5/6/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	V BLK	0.9254	[illegible]	0.9255	-0.0001	
	11ML0558	1.1092	10.5350	9.0518	84.3	
	11ML0558-DUP	1.0954	12.6659	10.7807	83.7	0.66
	11ML0559	1.0961	11.6348	11.0764	94.7	
	11ML0560	1.0872	11.6446	10.8321	92.3	
	11ML0561	1.1114	13.1608	11.6929	87.8	
	11ML0562	1.1055	13.6063	11.6787	84.6	
	11ML0563	1.1127	14.0540	12.0145	84.2	
	11ML0564	1.0924	21.1648	17.8111	83.3	
	11ML0565	1.0927	11.9294	11.4630	95.7	
	11ML0566	1.1048	11.3481	10.6479	93.2	
	11ML0567	1.0965	14.7298	13.1988	88.8	
	11ML0568	1.1173	12.3624	11.4662	92.0	
	11ML0569	1.0935	14.4848	11.9482	81.1	
	11ML0570	1.0989	14.7896	12.1767	80.9	
	11ML0571	1.0877	13.7870	11.3996	81.2	
	11ML0572	1.0979	10.8301	10.3682	95.3	
	11ML0573	1.0915	12.1001	11.5558	95.1	
	11ML0574	1.1021	12.8671	10.5246	80.1	
	11ML0575	1.0812	11.9604	10.9574	90.8	
	11ML0576	1.0945	17.9548	16.0297	88.6	
	11ML0580	1.0930	13.8460	11.8523	84.4	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	SC	5/17/2011	1120181846 (#4)
Analyst (final weights)	LD	5/18/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	W BLK	1.0978	[redacted]	1.0977	0.0001	
	11ML0581	1.0951	11.7359	10.9402	92.5	
	11ML0582	1.0864	12.6347	11.7770	92.6	
	11ML0583	1.0811	12.2855	11.2648	90.9	
	11ML0584	1.0938	12.6644	11.1974	87.3	
	11ML0585	1.0993	11.2863	9.6876	84.3	
	11ML0586	1.0847	11.4778	9.5187	81.1	
	11ML0587	1.1092	12.9503	9.7801	73.2	
	11ML0588	1.0881	11.8479	10.0961	83.7	
	11ML0589	1.1095	14.1672	10.5892	72.6	
	11ML0590	1.2609	12.6947	9.8586	75.2	
	11ML0590-DUP	1.2671	13.3677	10.6483	77.5	3.05
	11ML0591	1.2786	13.5553	11.3615	82.1	
	11ML0592	1.2729	12.5706	9.5524	73.3	
	11ML0593	2.1980	17.8817	13.8946	74.6	
	11ML0594	2.1738	17.1614	12.9571	71.9	
	11ML0595	2.1918	17.2257	16.7579	96.9	
	11ML0596	2.2023	17.0738	13.9718	79.1	
	11ML0597	2.1956	18.1560	15.8193	85.4	
	11ML0598	2.2110	16.1148	14.0008	84.8	
	11ML0599	21.6494	32.7737	31.2184	86.0	
	11ML0602	24.8749	35.8700	34.6797	89.2	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	LD	5/17/2011	1120181846 (#4)
Analyst (final weights)	LD	5/18/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Site.....: 10 Mile Drain/St. Clair Shores
TDF #.....: 05-314-002
Charge #.....: 03037.4.14.02.03.B5VE.000.002

	FASP Sample I.D Number (A)	WEIGHT OF DISH & SAMPLE			105 Deg (%Solids)	RPD
		DRIED DISH (g)	WET SAMPLE (g)	DRIED AT 105 Deg (g)		
	X BLK	0.9282	[redacted]	0.9282	0.0000	
	11ML0603	0.9290	11.5005	9.9297	85.1	
	11ML0603-DUP	0.9292	12.5821	10.8768	85.4	0.26
	11ML0604	0.9341	12.3543	10.4457	83.3	
	11ML0605	0.9316	10.1747	9.3582	91.2	
	11ML0606	0.9310	11.4019	10.8222	94.5	
	11ML0607	0.9331	10.6840	10.1390	94.4	
	11ML0608	0.9350	12.3673	11.2321	90.1	
	11ML0609	0.9349	10.6739	9.8547	91.6	
	11ML0610	0.9270	10.8254	9.8556	90.2	
	11ML0611	0.9283	11.0719	9.4830	84.3	
	11ML0612	0.9282	11.3767	10.8404	94.9	
	11ML0613	0.9285	11.1230	10.6067	94.9	
	11ML0614	0.9323	11.1049	10.3886	93.0	
	11ML0615	0.9262	11.4317	10.1725	88.0	
	11ML0616	0.9260	12.1708	10.6737	86.7	

Blank is difference between initial and final weights.

	Initials	Date	Balance Serial #
Analyst (initial weights)	SC	5/17/2011	1120181846 (#4)
Analyst (final weights)	LD	5/18/2011	1120181846 (#4)

(Balance checks recorded in CRL logbook in room 1033.) (Mettler Toledo AG285)

Appendix C
Boring Logs

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-001

SOIL BORING LOG

PROJECT :	Ten-Mile Drain - Source Area Investigation	LOCATION :	Corner of Harper & Bon Brae- east of Bon Brae- 24" water main
ELEVATION :	DRILLING CONTRACTOR: Coleman Engineering		
DRILLING METHOD AND EQUIPMENT USED:	DPT	Date:	4/11/2011
ATD WATER LEVEL : 7.2' bgs	START : 1031	END : 1125	LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
	0-5'	39"	TMD-SO-001/0-1 Time: 1042	0-0.5' Silty sand; moist; dense; dark reddish brown	SP	
				0.5'-2' Silty/sandy clay w/ some gravels; moist; dense; brown	CL	
			TMD-SO-001/2-3 Time: 1050			
				2'-4' Sand w/ some gravel; moist; desnse; brown	SP	
			TMD-SO-001/4-5 Time: 1052	4'-5' Silty clay; wet; soft to medium; brown	CL	
5						
	5-8.5'	53"	TMD-SO-001/6-7 Time: 1109	5'-8.5' Clay w/ gravel; dry to moist at 6.5'-7.8' to dry at 7.8' to 8.5'; dense to very dense; reddish brown	CL	Very difficult drilling. Pulled out at 8.5' because of concern of not detecting if a strike had occurred.
			TMD-SO-001/7-8 Time: 1113			Approximate Depth To Water Very difficult drilling. Pulled out at 8.5' because of concern of not detecting if a strike had occurred.
8.5						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-002

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation
LOCATION : Corner of Harper & Bon Brae- east of Bon Brae- 12" water main
ELEVATION :
DRILLING CONTRACTOR : Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED : DPT
Date: 4/11/2011
ATD WATER LEVEL : 3.1' bgs
START : 1145
END: 1240
LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
			TMD-SO-002/0-1 Time:1218	0-0.1' Topsoil 0.1'-1.3' Clayey sand w/ some gravel; dry; medium to dense; brown to dark brown	SC	
				1.3'-2.7' Sandy Clay w/ gravel present; moist; stiff (low plasticity); brown	CL	
	0-5'	32"	TMD-SO-002/2-3 Time: 1221			
				NO RECOVERY - PRESUMED SAME AS BELOW	NA	Approximate Depth To Water
5			TMD-SO-002/5-6 Time: 1227	5'-6' Sand (fine to medium) w/ some gravel; saturated; loose; dark brown	SP	
			TMD-SO-002/6-7 Time: 1230			
	5-8.4'	36"		6'-8.4' Clay w/ gravel present; dry; very stiff (low plasticity); brown	CL	

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-003

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 26341 Harper Ave. - 24" water main

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/11/2011

ATD WATER LEVEL : 3.2' bgs START : 1300 END : 1417 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
			TMD-SO-003/0-1 Time: 1330	0-1' Silty/sandy clay; brown to dark brown	CL	
	0-5'	60"	TMD-SO-003/2-3 Time: 1337	1'-5' Silty/sandy clay w/ few gravels; moist; stiff to soft at 3'-5'; brown to grayish green	CL	Approximate Depth To Water
			TMD-SO-003/4-5 Time: 1342			
5			TMD-SO-003/5-6 Time: 1359			
	5-10'	23"		5'-10' Sandy/silty clay; moist to saturated; medium stiff; dark brown and grayish green	CL	
10			TMD-SO-003/10-11.3 Time: 1404	Clay; saturated; soft (low plasticity); light brown with grayish green	CL	
	10'-13'	38"	TMD-SO-003/11.3-12 Time: 1407	Clay w/ some gravel; dry; very stiff (high plasticity); brown	CL	
13						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-004

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 26341 Harper Avenue (12" water line)

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/11/2011

ATD WATER LEVEL : N/A START : 1425 END : 1600 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
			TMD-SO-004/0-1 Time: 1452	0-0.5' Topsoil, heavy organics w/ some gravel; dry-moist; soft		
	0-5'	60"	TMD-SO-004/2-3 Time: 1500	0.5'-5' Sandy/silty clay; moist to wet; medium to stiff (highly plastic); brown to grayish green	CL	
5			TMD-SO-004/4-5 Time: 1510			
				5'-6.5' Sandy/silty clay; moist to wet; medium to stiff (highly plastic); brown to grayish green	CL	
			TMD-SO-004/6-7 Time: 1534			
	5-10'	38"	TMD-SO-004/7-8 Time: 1541			
				6.5'-10' Clay; dry; medium to stiff (lightly plastic); brown and grayish green	CL	
10						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-005

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 26433 Harper Avenue (24" water line)

ELEVATION : DRILLING CONTRACTOR: Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : Date: 4/11/2011

ATD WATER LEVEL : 2.3' bgs 1610 END : 1715 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS. PID Readings: Breathing Zone: Above Core:)
			TMD-SO-005/0-1 Time: 1650	0-0.6' Topsoil; organics		
				0.6'-1.8' Gravel w/ some sand and debris (asphalt); dry; very dense (non-cohesive)	GM	
	0-5'	60"	TMD-SO-005/2-3 Time: 1633			Approximate Depth To Water
				1.8'-5' Clay w/ some gravel; moist; very stiff (very plastic)	CL	
5			TMD-SO-005/4-5 Time: 1637			
				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
	5-10'	42"		6.5'-8' Clay w/ some gravel; saturated; very stiff (very plastic)	CL	
			TMD-SO-005/7.5-8.5 Time: 1658			
				8'-9.3' Sand; saturated; very dense (non-cohesive); brown to dark brown-black w/ black staining	SP	
			TMD-SO-005/8.5-9.5 Time: 1706			
				9.3'-10' Clay w/ some gravel (native); dry; very stiff (plastic); brown	CL	
10			TMD-SO-005/9.5-10 Time: 1710			

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-006

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Harper, South of Frazho (12" water line)

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED Geoprobe 6600 Series/Track Date: 4/12/2011

ATD WATER LEVEL : 5' bgs START : 1520 END : LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-0.3' Sandy topsoil; loose; brown		
				0.3'-0.7' Crushed concrete and asphalt		
			TMD-SO-006/1-2 Time: 1537			
	0.7'-5'	39"	TMD-SO-006/2-3 Time: 1544	0.7'-5' Sand (fine to medium) w/ trace gravel; moist becoming wet; medium dense; brown	SP	Note: Collected intervals measured from top of recovered core (39" rec) (0-5 interval)
5						Approximate Depth To Water
			TMD-SO-006/5-6 Time: 1557	5'-5.6' Sand (medium to coarse) w/ trace gravel; wet; medium dense; brown	SP	
			TMD-SO-006/6-7 Time: 1603			
	5-10'	60"		5.6'-10' Silty clay w/ trace sand and gravel; moist; stiff; brown	CL	Boring/utility locate measurements in question. Re-hand auguered and confirmed prior to drilling
10						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-007

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 26507 Harper Ave (24" water line)

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/12/2011

ATD WATER LEVEL : 10.5' bgs START : 940 END : 1305 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
			TMD-SO-007/0-1 Time: 1015	0-0.5' Topsoil, silty sand and organics some grave and asphalt inclusions		
	0-5'	60"	TMD-SO-007/2-3 Time: 1023	0.5'-5' Silty clay; dry to moist; very stiff (very plastic); brown	CL	
			TMD-SO-007/4-5 Time: 1030			
5						
			TMD-SO-007/6-7 Time: 1232	5'-7.5' Silty clay; moist to wet; soft (low plasticity); brown	CL	Pipe potentially encountered @ approx 6.3' offset boring location and re-pushed (offset and re-pushed of boring occurred twice)
	5-10'	49"	TMD-SO-007/7-8 Time: 1235			
			TMD-SO-007/9-10 Time: 1240	7'5"-11'3" Clay w/ trace gravel; dry to slightly moist; stiff to very stiff; brown w/ some dark bluish gray	CL	
10						
						Approximate Depth To Water
			TMD-SO-007/11-12 Time: 1243	11'3"-11'5" Sand (fine); wet; dense; light brown	SM	
				11'5"-12'9" Silty clay; moist; stiff to firm; brown	CL	
	10-15'	60"				
				12'9"-13'7" Sand; wet; medium dense; light brown	SM	
				13'7"-15' Silty clay w/ trace sand and fine gravel (native); medium stiff; light brownish grey	CL	Attempted groundwater sample collection but tubing silted up and flow restricted/stopped
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-008

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 26507 Harper Ave (12" water line)

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/12/2011

ATD WATER LEVEL : 5' bgs START : 1315 END : 1500 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
			TMD-SO-008/0-1 Time: 1343	0-2' Silty sand w/ gravel; dry at top with increasing moisture at increase depth; medium density; brown	SM	
	0-5'	24"		NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
5						Approximate Depth To Water
				5'-6.9' Sand (coarse); saturated; very soft; brown w/ black staining	SW	
			TMD-SO-008/6-7 Time: 1350			
	5-10'	60"	TMD-SO-008/7-8 Time: 1400			
				69'-10' Silty clay w/ trace gravel; dry to moist; very stiff (low plasticity); brown	CL	
10						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-009

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 26225 Harper Ave (24" water line)

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/13/2011

ATD WATER LEVEL : N/A START : 1015 END : 1135 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-0.5/1' Topsoil, silty to clayey sand (fine) w/ little organics; moist	SM	Collected sample intervals measured from top of core liner - no material in 0-1' interval
			TMD-SO-009/1-2 Time: 1050	1-1.8' Silty clay w/ trace sand and gravel; moist; medium stiff; brown	CL	
				1.8-2.3' Crushed road slab and concrete; black		
	0-5'	49"	TMD-SO-009/2-3 Time: 1055			
				2.3'-5' Silty clay w/ trace sand and gravel; moist; medium stiff becoming firm; grey brown	CL	
			TMD-SO-009/4-5 Time: 1100			
5			TMD-SO-009/5-6 Time: 1120			
			TMD-SO-009/6-7 Time: 1123	5'-7.6' Silty clay w/ sand and trace gravel; moist; firm; grey brown	CL	
	5-10'	48"	TMD-SO-009/7-8 Time: 1128			
				7.6'-10' Silty clay w/ trace gravel and sand (native at 8.5'-9'); moist; stiff; greyish brown	CL	
10						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-010

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 26225 Harper Ave (12" water line)

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/13/2011

ATD WATER LEVEL : 6' bgs START : 1140 END : 1240 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
	0-5'	31"	TMD-SO-010/0-1 Time: 1149	0-2.6' Silty/clayey sand (medium w/ some coarse at 2'-2.6') w/ some gravel; moist; brown to dark brown	SM	
			TMD-SO-010/2-2.5 Time: 1220			
5				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
	5-9'	48"	TMD-SO-010/6-7 Time: 1227	5'-7.3' Sand (coarse) w/ trace gravel; moist to saturdated; black staining 6.1-6.25'	SP	Approximate Depth To Water
			TMD-SO-010/7-8 Time: 1237			7-8' included 1.5" of sand and 10.5" of clay
9				7.3'-9' Clay w/ trace gravel; dry to moist; very stiff; brown	CL	GW sample collected TMD-GW010/6

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-011

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 26211 Harper Ave (12" water line)

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/13/2011

ATD WATER LEVEL : 2' bgs START : 1320 END : 1430 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS. PID Readings: Breathing Zone: Above Core:)
0			TMD-SO-011/0-1 Time: 1345	0-1' Sandy to silty clay w/ trace gravel; moist; medium stiff; brown	CL	
			TMD-SO-011/1-2 Time: 1348	1'-2.3' Sand (medium) w/ trace sand (coarse) and gravel; wet; medium dense; brown	SP	
	0-5'	29"		NO RECOVERY - PRESUMED SAME AS BELOW	N/A	
5			TMD-SO-011/5-6 Time: 1407	5'-6.3' Sand (fine to coarse) w/ trace gravel; wet; medium dense; brown	SW	
			TMD-SO-011/6-7 Time: 1410			
	5-10'			6.3'-10' Silty clay w/ trace sand and gravel; moist; stiff; grayish brown	CL	
10						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-012

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 26211 Harper Ave (24" water line)

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/13/2011

ATD WATER LEVEL : 4.7' bgs START : 1520 END : 1625 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
	0-5'	52"	TMD-SO-012/0-1 Time: 1548	0-0.5' Removed as grass plug. 0-6" Silty sand (medium) w/ gravel; dry; dark grayish brown	SM	Description is of 0-6" of recovery
				0.5'-2' Silty clay w/ trace gravel; dry; greenish brown	CL	
			TMD-SO-012/2-3 Time: 1552	2'-3.3' Silty clay w/ gravel; dry; dark greenish brown	CL	
				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
5						Approximate Depth To Water
			TMD-SO-012/5-6 Time: 1607	5'-6' Clayey silt; wet; non-plastic; brownish black	ML	
			TMD-SO-012/6-7 Time: 1618			
	5-9'	49"		6'-9.1' Clay w/ trace gravel (native); very stiff; brown	CL	
9						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-013

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 26117 Harper Ave (12" water line)

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/13/2011

ATD WATER LEVEL : 3' bgs START : 1640 END : 1805 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
			TMD-SO-013/0-1 Time: 1668	0-0.8' Silty sand (medium) w/ organics; moist; dark brown	SM	3" plug taken out prior to drilling
				0.8'-3.2' Sand (medium to coarse) w/ some gravel; moist to wet; brown to light brown	SP	
	0-5'	38"	TMD-SO-013/2-3 Time: 1702			
						Approximate Depth To Water
				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
5			TMD-SO-013/5-6 Time: 1752	5'-6.3' Sand (medium to coarse) w/ some gravel; saturated; brown to light brown w/ some black staining	SP	
			TMD-SO-013/6-7 Time: 1759			
	5-10'	60"		6.3'-10' Clay w/ some gravel (native); dry; very stiff; brown	CL	
10						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-014

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 26117 Harper Ave (24" water line)

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/13/2011

ATD WATER LEVEL : 3' bgs START : 1810 END : 1910 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
			TMD-SO-014/0-1 Time: 1859	0-0.4' Silty sand (medium) w/ debris; moist to dry; soft	SM	3" grass plug removed
	0-5'	56"	TMD-SO-014/2-3 Time: 1901	0.4'-5' Clay w/ some gravel; dry; very stiff; brown	CL	
						Approximate Depth To Water
			TMD-SO-014/4-5 Time: 1903			
5						
			TMD-SO-014/6-7 Time: 1905			
	5-10'	48"		5'-9' Silty clay w/ some sand (medium) at end of core; water/wet; brown to dark brown 100"-108"	CL	
			TMD-SO-014/8-9 Time: 1907			
				NO RECOVERY- PRESUMED SAME AS BELOW	NA	
10			TMD-SO-014/10-11 Time: 1910			
				10'-13.1' Clayey sand; brown; fine to medium grained; saturdated; soft	SC	
	10-15'	60"	TMD-SO-014/12-13 Time: 1913			
			TMD-SO-014/13-14 Time: 1916			
				13.1'-15' Clay; moist; firm (nonplastic); brown	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-015

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 16220 Harper Ave (Gas Station)

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/14/2011

ATD WATER LEVEL : 7.3' bgs START : 1100 END : 1205 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' Silty sand (medium) w/ debris; dry; dark brownish red to brown	SM	
						0-3' was hand augered to ensure clearance of natural gas utility line. No sample core collected for this interval
				1'-5' Sand (medium to coarse); moist to saturated; brown		
	3'-5'	24"	TMD-SO-015/4-5 Time: 1138			
5			TMD-SO-015/5-6 Time: 1143		SW	
			TMD-SO-015/6-7 Time: 1150			
				5'-9' Sand (medium to coarse); moist to saturated; brown w/ some minimal organic staining at 6.5'		Approximate Depth To Water
	5-10'	40"				
				9'-10' Silty clay w/ trace gravel; dry; medium plasticity; dark greyish brown	CL	
10				NO RECOVERY- PRESUMED SAME AS BELOW	NA	
			TMD-SO-015/10-11 Time: 1200	11'-13.5' Sand (medium); saturated; brown	SW	
	10-15'	48"	TMD-SO-015/12-13 Time: 1203			12-13 straddled sand/clay interface
				13.5'-15' Clay; moist; very stiff (medium plasticity); greyish brown	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-016

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : North of manhole and slurry wall in front of dialysis clinic along Harper Ave.

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/14/2011

ATD WATER LEVEL : ~7.5' bgs START : 1300 END : 1345 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
			TMD-SO-016/0-1 Time: 1310	0-0.7' Topsoil; silty to clayey sand (fine); dark brown		Note: Core logged measuring from top of recovered material
				0.7'-2.3' Silty clay w/ little sand lens at 1.8'-2' and trace gravel; moist; medium stiff to firm; light brown to light gray	CL	
	0-5'	40"	TMD-SO-016/2-3 Time: 1318	2.3'-2.9' Silty sandy clay w/ trace gravel; moist; firm; gray and brown	CL	
				2.9'-3.3' Silty sandy clay w/ trace gravel; moist; firm; dark gray	CL	
				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
5				5'-6.2' Silty to sandy clay w/ trace gravel; moist; firm to soft; grey, dark grey and brown	CL	
			TMD-SO-016/6-7 Time: 1330	6.2'-7.5' Silty clay w/ little sand and wood at 7.5'; moist; firm; gray and brown mottled	CL	
	5-10'	40"				Approximate Depth To Water
				7.5'-8.4' Sand (fine); wet; medium dense; light brown	SP	
10			TMD-SO-016/10-11 Time: 1332	8.4'-12' Sand (fine to medium); wet; medium dense; light brown	SP	
			TMD-SO-016/11-12 Time: 1334			
	10-15'	60"	TMD-SO-016/12-13 Time: 1336			
				12'-15' Silty clay w/ trace sand and gravel; moist; medium stiff to firm; grey	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-017

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : NE corner of Lakeland and Harper

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/14/2011

ATD WATER LEVEL : ~7' bgs START : 1430 END : 1550 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
			TMD-SO-017/0-1 Time: 1506	0-0.6' Silty sand (medium) w/ some organics; dry; dark greyish brown	SM	
				0.6'-2.9' Silty/sandy clay w/ some gravel; moist; firm (plastic); brown with greyish brown	CL	
	0-5'	41"	TMD-SO-017/2-3 Time: 1515			
				2.9'-3.6' Clayey sand (fine to medium); wet; medium dense; dark reddish brown	SC	
				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
5				5'-5.4' Clayey sand (fine to medium); wet; medium dense; dark reddish brown	SC	
				5.4'-6.5' Silty clay; saturated; firm (very plastic); dark brown	CL	
			TMD-SO-017/6-7 Time: 1520			
				6.5'-7.5' Silty sand (fine to medium); saturated; medium dense; greyish brown	SM	Approximate Depth To Water
	5-10'	30"				
				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	Glanced off side of storm drain @ 9' angled bit just slightly but kept going
10						
			TMD-SO-017/10-11 Time: 1532			
				10.5'-13' Sand (fine to medium); saturated; low density; brown	SP	
	10-15'	60"	TMD-SO-017/12-13 Time: 1537			
			TMD-SO-017/13-14 Time: 1541			
				13'-15' Clay; moist; firm (plastic); purplish brown	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-018

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : SE corner of Lakeland and Harper

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/14/2011

ATD WATER LEVEL : START : 1630 END : 1730 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
0			TMD-SO-018/0-1 Time: 1640	0-0.5' Topsoil; silty sand w/ some clay; dark brown	SM	
				0.5'-3.7' Silty clay w/ trace sand and gravel, sand (fine) seam at 2'-2.1', small cobble at 3.7'; moist; medium stiff becoming firm with depth; brown and grey	CL	
	0-5'	43"	TMD-SO-018/2-3 Time: 1646			Cobble at 3.7' prevented recovery
				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
5						
			TMD-SO-018/6-7 Time: 1658	5'-7.4' Silty clay w/ little to some sand (fine) and trace gravel, crushed concrete at 5.5' and 6.8'; moist; firm; grey and brown with some dark grey	CL	
	5-10'	33"		7.4'-7.8' Sand (fine); slightly wet; medium dense; light brown	SP	
				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
10			TMD-SO-018/10-11 Time: 1704	10'-12' Silty and sandy clay w/ sand (fine to medium) seam at 10.4' and 11.6'; wet; firm to soft; light grey and brown	CL	
			TMD-SO-018/11-12 Time: 1707			
	10-15'	48"	TMD-SO-018/12-13 Time: 1710			
				12'-15' Silty clay w/ trace sand and gravel (native); moist; medium stiff; brownish grey	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-019

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Just west of Harper @ Bon Brae intersection

ELEVATION : DRILLING CONTRACTOR: Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/15/2011

ATD WATER LEVEL : 5.5' bgs START : 915 END : 1025 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and road base gravel		
			TMD-SO-019/1-2 Time: 0938			
			TMD-SO-019/2-3 Time: 0940	1'-4.4' Sand (fine to medium); moist; medium dense; brown	SP	
	1-5'	41"				
5				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
			TMD-SO-019/5-6 Time: 0943			Approximate Depth To Water
				5'-8' Sand (fine to medium - clean fill); moist becoming slightly wet with depth; medium dense; light brown	SP	
	5-10'	36"	TMD-SO-019/7-8 Time: 0945			
				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
10			TMD-SO-019/10-11 Time: 0957			
				10'-13' Sand (medium to coarse); wet; medium dense; light brown	SP	
	10-15'	36"	TMD-SO-019/12-13 Time: 0959			
				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
15			TMD-SO-019/15-16 Time: 1020	15'-15.2' Sand (medium to coarse); wet; medium dense; light brown	SP	
	15'-20'			15.2'-20' Clay w/ trace gravel; soft to firm (very plastic); dark brownish gray	CL	
20						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-020

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Along storm drain in front of 21258 Bon Brae St.

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/15/2011

ATD WATER LEVEL : N/A START : 1045 END : 1220 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and gravel		
			TMD-SO-020/1-2 Time: 1146			
			TMD-SO-020/2-3 Time: 1150	1'-4' Sand (fine to medium); moist; medium dense; light brown	SP	
	1'-5'	36"				
5				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
				5'-6.7' Sand (find to medium); moist; medium dense; light brown	SP	
			TMD-SO-020/6-7 Time: 1156			
	5-10'	21"				
10				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
			TMD-SO-020/10-11 Time: 1204	11'-11.7' Sand (fine to medium); moist; medium dense; light brown	SP	
				11.7'-12.2' Gravel w/ some sand (1" or less) @ 11.2'; dry; loose	GP	
	10-15'	54"	TMD-SO-020/11.7-12.7 Time: 1209			
				12.2'-15' Clay w/ trace gravel; moist; soft to firm (very plastic); grey	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-021

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Sewer in front of 21258 Bon Brae St.

ELEVATION : DRILLING CONTRACTOR : Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/15/2011

ATD WATER LEVEL : N/A START : 1230 END : 1315 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
			TMD-SO-021/0-1 Time: 1252	0-0.6' Topsoil, silt and sand (fine); dark brown	ML	
				0.6'-2' Sandy/silty clay; brown; medium stiff; dry; trace gravel	CL	
	0'-5'	60"	TMD-SO-021/2-3 Time: 1255			
				2'-5' Silty clay w/ trace sand and gravel; moist; medium stiff to stiff; brown with some reddish brown and light grey	CL	
			TMD-SO-021/4-5 Time: 1257			
5						
				5'-7.1' Silty clay w/ trace to little sand and trace gravel; moist; stiff becoming firm; greyish brown becoming reddish brown	CL	
			TMD-SO-021/6-7 Time: 1307			
	5-10'	48"	TMD-SO-021/7-8 Time: 1310	7.1'-7.5' Silty clay w/ trace sand and gravel; firm to soft; grey	CL	
				7.5'-10' Silty clay w/ trace sand and gravel; moist; stiff; greyish and reddish brown	CL	
10						
	10-15'	60"		10'-15' Silty clay w/ trace sand and gravel; moist; stiff; greyish and reddish brown	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-022

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Water line in front of 21257 Bon Brae

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/15/2011

ATD WATER LEVEL : N/A START : 1335 END : 1440 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
			TMD-SO-022/0-1 Time: 1413	0-1' Silty sand (medium grading to very fine) w/ top 6" organics; moist; soft; dark brown grading to light brown	SM	
				1'-2.6' Clay; dry; firm (very plastic); light brown	CL	
	0-5'	39"	TMD-SO-022/2-3 Time: 1419	2.6'-3.2' Silty clay; moist to wet; soft; dark greyish brown	CL	
				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
5			TMD-SO-022/5-6 Time: 1429			
			TMD-SO-022/6-7 Time: 1433			
	5-10'	60"		5'-10' Clay w/ rock at 7.3'-7.5'; dry; firm; brown	CL	
10						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-023

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : West of slurry wall on Bon Brae west of Harper

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/15/2011

ATD WATER LEVEL : 9' bgs START : 1505 END : 1620 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and road base gravel		
			TMD-SO-023/1-2 Time: 1551	1'-3' Sand (fine to medium-backfill); moist; medium dense; light brown	SP	
			TMD-SO-023/2-3 Time: 1555			
	1'-5'	36"		NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
5						
			TMD-SO-023/6-7 Time: 1601	5'-7.5' Sand (fine to medium-backfill); wet; medium density; light brown	SP	
	5-10'	30"				
				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	Approximate Depth To Water
10						
			TMD-SO-023/11-12 Time: 1620	10'-11' Sand (fine to medium-backfill); wet; medium dense; light brown	SP	
	10-15'	48"	TMD-SO-023/12-13 Time: 1625			
				11'-15' Clay w/ trace gravel (native); wet-saturated; very plastic; gray	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-024

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Bon Brae between alley and Harper, west of Harper

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/15/2011

ATD WATER LEVEL : 5' bgs START : 1620 END : 1730 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-024/1-2 Time: 1646			
			TMD-SO-024/2-3 Time: 1649	1'-4' Sand (fine to medium); moist; medium dense; light brown	SP	
	1'-5'	36"				
				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
5						Approximate Depth To Water
				5'-6' Sand (fine to medium); moist; medium dense; light brown	SP	
			TMD-SO-024/6-7 Time: 1652	6-7' Sand (fine to medium); wet; medium dense; light brown	SP	
	5-10'	18"				
10				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
	10-15'	30"				
			TMD-SO-024/12.5-13.5 Time: 1658	12.5'-13' Sand (fine to medium); wet; medium dense; light brown	SP	
			TMD-SO-024/13.5-14.5 Time: 1702	12.5-15' Clay w/ trace gravel; moist; soft to firm (very plastic); brownish gray	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-025

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Sewer east of Harper, south side of Bon Brae

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/16/2011

ATD WATER LEVEL : N/A START : 1440 1552 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION	USCS	COMMENTS
				SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.		DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and gravel		
			TMD-SO-025/1-2 Time: 1507	1'-1.5' Sand (fine) w/ trace gravel; moist; mediume dense; brown	SP	
				1.5'-2' Silty sand (medium); wet; hard; dark grey brown	SM	
			TMD-SO-025/2-3 Time: 1511	2'-2.9' Clay; moist to wet; soft to firm; greenish brown w/ staining at 2.3'	CL	
	1-5'	34"				
5				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
			TMD-SO-025/6.3-7.3 Time: 1535	6.3'-7.3' Clayey sand (medium to coarse) w/ some gravel; wet; medium density	SC	
	5-10'	44"	TMD-SO-025/7.3-8.3 Time: 1538			
				7.3'-10' Clay w/ trace gravel; moist; very stiff (plastic); greyish brown	CL	
10						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-026

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Verifiфcation of TMD-020

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/16/2011

ATD WATER LEVEL : N/A START: 1022 END : 1120 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and road base gravel. No sample core collected		
			TMD-SO-026/1-2 Time: 1054	1'-1.9' Sand (fine to medium) w/ trace gravel; moist; medium dense; reddish brown	SP	
			TMD-SO-026/2-3 Time: 1058	1.9'-2.9' Sand (fine to medium) w/ trace gravel; moist; medium dense; light brown	SP	
	1'-5'	35"		NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
5				5'-7.1' Sand (fine to medium) w/ trace gravel; moist; medium dense; light brown	SP	
			TMD-SO-026/6-7 Time: 1102			
	5-10'	33"		7.1'-7.7' Gravel (approx. 1/4" diameter average size); wet; loose	GM	
10				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
			TMD-SO-026/11.5-12 Time: 1111	11.5'-11.8' Gravel (approx. 1/4" diameter average size); wet; loose	GM	
	10-15'	42"		11.8'-15' Clay; moist; firm (plastic); gray	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-027

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : East of Harper on Bon Brae storm line

ELEVATION : DRILLING CONTRACTOR : Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/16/2011

ATD WATER LEVEL : 10'bgs START: 1150 END : 1315 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and road base gravel. No sample core collected		
			TMD-SO-027/1-2 Time: 1221			
			TMD-SO-027/2-3 Time: 1225	1'-4' Sand (coarse to medium-top 1' grading to medium to fine) w/ 30% gravel; moist; medium dense; brown	SW	
	1'-5'	37"				
5				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
			TMD-SO-027/6-7 Time: 1232	5'-7.5' Sand (fine to medium) w/ trace gravel; moist; medium dense; brown	SP	
	5-10'	30"				
10				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	Approximate Depth To Water
	10-15'	34"	TMD-SO-027/12-13 Time: 1244	12'-12.8' Sand (fine to medium, coarse last 2"); wet; medium dense; brown w/ oil sheen	SP	
				12.8'-14' Gravel; wet; loose; oil sheen throughout	GP	
			TMD-SO-027/14-15 Time: 1246	14'-15' Clay; moist; stiff; gray; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-028

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation
LOCATION : Sewer line, just east of Harper on north side of Bon Brae
ELEVATION :
DRILLING CONTRACTOR : Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED : DPT
Date: 4/16/2011
ATD WATER LEVEL : N/A
START: 1320 END : 1430
LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
				PID Readings: Breathing Zone: Above Core:		
				0-1' concrete and road base gravel. No sample core collected		
			TMD-SO-028/1-2 Time: 1343	1'-2' Silty sand (fine to medium); moist to wet; medium dense; brown	SM	
			TMD-SO-028/2-3 Time: 1351	2'-3.2' Sand (fine to medium); moist; medium dense; brown	SP	
	1'-5'	32"		NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
5				5'-6' Sand (fine to medium); moist; medium dense; brown	SP	
			TMD-SO-028/6-7 Time: 1356	6'-7.3' Clay; soft (plastic); bi-color gray and brown	CL	
	5-10'	27"48"		NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
10				11'-11.4' Clay; moist; soft (plastic); bi-color gray and brown	CL	
			TMD-SO-028/11-12 Time: 1412	11.4'-12.3' Sand (fine); wet; medium dense; brown	SP	Not enough GW for sample
	10-15'	34"	TMD-SO-028/12-13 Time: 1415			
				12.3'-15' Clay; grayish brown	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-029

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Bon Brae near car wash entrance

ELEVATION : DRILLING CONTRACTOR : Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/16/2011

ATD WATER LEVEL : 5.5' bgs START: 1555 1715 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and road base gravel. No sample core collected		
			TMD-SO-029/1-2 Time: 1625			
			TMD-SO-029/2-3 Time: 1628	1'-4.3' Sand (fine) w/ trace gravel and coarse sand; moist; medium dense; light brown	SP	
	0-5'	40"				
5				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
						Approximate Depth To Water
				5'-6.8' Sand (fine) w/ trace gravel; moist becoming wet; medium dense; light brown	SP	
			TMD-SO-029/6-7 Time: 1632			
	5-10'	33"		6.8'-7.7' Gravel (fine-pea gravel w/ little coarse sand); wet; loose; grey	GP	
10				NO RECOVERY - PRESUMED SAME AS ABOVE	N/A	
	10-15'	37"		11.9'-14.1' Gravel (fine-pea gravel w/ little coarse sand); wet; loose; grey	GP	
			TMD-SO-029/14.1-15 Time: 1645	14.1'-15' Silty clay w/ trace sand and gravel; moist; medium stiff; light brown and grey	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-030

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Bon Brae - East of car wash entrance

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/17/2011

ATD WATER LEVEL : 8' bgs START : 930 END : 1030 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS. PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-030/1-2 Time: 0924			
	1-5'	42"	TMD-SO-030/2-3 Time: 0946	1'-5' Sand w/ trace gravel; moist; medium dense; light brown	SP	
5						
			TMD-SO-030/5-6 Time: 0948			
			TMD-SO-030/6-7 Time: 1000	5'-6.8' Sand w/ trace gravel; moist increasing with depth to wet; medium dense; light brown	SP	
	5-10'	22"			NA	Approximate Depth To Water
10				NO RECOVERY - PRESUMED SAME AS ABOVE		
				11.8-12.1' Clayey sand, fine to meduim grained; wet; loose to medium dense; grayish brown	SC	
	10-15'	36"	TMD-SO-030/12-13 Time: 1003	12.1-12.8' Sand, fine grained; wet; loose; light brown	SP	
				12.8-14.2' Gravel <1/2" dia.; wet; loose; (pea stone)	GP	
15			TMD-SO-030/14.2-15 Time: 1005	14.2-15' Clay ; moist; stiff; gray; plastic	CL	

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-031

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 21531 Bon Brae - north sewer line Map (ID 41B)

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/17/2011

ATD WATER LEVEL : NA START : 1037 END : 1140 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-031/1-2 Time: 1058			
	1-5'	48"	TMD-SO-031/2-3 Time: 1102	1'-5' Sandy clay w/ some gravel; moist; stiff; plastic; rust to light brown;	CL	
			TMD-SO-031/4-5 Time: 1105			
5			TMD-SO-031/5-6 Time: 1136			
				5'-7.5' Clay w/ some gravel; dry; very stiff; brown (native)	CL	
	5-10'	30"				
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10						
				10-11' Clay w/ some gravel; dry; very stiff; plastic brown; native	CL	
	10-15'	60"				
				11-15' Clay w/ trace gravel; dry; firm; gray; plastic; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-032

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 21531 Bon Brae - storm sewer (Map ID 41)

ELEVATION : DRILLING CONTRACTOR : Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/17/2011

ATD WATER LEVEL : 8' bgs START : 1155 END : 1255 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-032/1-2 Time: 1218			
	1-5'	36"	TMD-SO-032/2-3 Time: 1220	1-4' Sand (fine to med) w/ trace gravel; moist; medium dense; light brown	SP	
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5			TMD-SO-032/5-6 Time: 1224			
			TMD-SO-032/6-7 Time: 1232	5'-6.2' Sand w/ trace gravel; moist; medium dense; light brown	SP	
	5-10'	26"				Approximate Depth To Water
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10						
	10-15'	30"		12-14' Gravel <1/2" dia.; wet; loose; (pea stone)	GP	
			TMD-SO-032/14-15 Time: 1236	14-15' Clay w/ trace gravel ; moist; firm; gray; plastic	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-033

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation
LOCATION : 21634 Bon Brae - N of MH at intersection with Bon Brae Court
ELEVATION :
DRILLING CONTRACTOR : Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED : DPT
Date: 4/17/2011
ATD WATER LEVEL : NA
START : 1305
END : 1415
LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-033/1-2 Time: 1329			
	1-5'	41"	TMD-SO-033/2-3 Time: 1333	1-4.4' Sand (fine to med) w/ some gravel; moist; medium dense; light brown	SP	
5				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	5-10' liner stuck in drill rod and crinkled by extruder rod, but was salvaged for sampling
	5-10'	37"	TMD-SO-033/6.9-7.9 Time: 1406	6.9-7.9' Sand (fine to med) w/ some gravel; moist; medium dense; light brown	SP	
			TMD-SO-033/7.9-8.9 Time: 1410	7.9-10' Clay w/ trace gravel; dry; firm; grayish brown; plastic	CL	
10				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
				10.7-12' Clay w/ trace gravel; moist; stiff; grayish brown; plastic	CL	
	10-15'	60"				
				12-15' Clay w/ trace gravel; moist; stiff; gray; plastic	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-034

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Bon Brae Court - south of manhole at north end

ELEVATION : DRILLING CONTRACTOR : Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/17/2011

ATD WATER LEVEL : NA START : 1430 END : 1510 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-034/1-2 Time: 1445			
	1-5'	46"	TMD-SO-034/2-3 Time: 1448	1-4.5' Sand (fine) w/ clay, silt and trace gravel; moist; medium dense; brownish gray	SM	
5				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
	5-9'	48"		5-9' Silty clay w/ trace gravel and sand; moist; stiff; reddish brown and gray; plastic	CL	
10						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-035

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 21531 Bon Brae St. storm sewer

ELEVATION : DRILLING CONTRACTOR : Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/18/2011

ATD WATER LEVEL : ~7' bgs START : 948 END : 1059 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-035/1-2 Time: 1005			
	1-5'	38"	TMD-SO-035/2-3 Time: 1007	1-4.1' Sand (fine) w/ trace gravel; moist; medium dense; light brown; clay lense 2.8-3 feet	SP	
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5			TMD-SO-035/5-6 Time: 1010			
			TMD-SO-035/6-7 Time: 1013	5-7' Sand (fine to med) w/ trace gravel; moist becoming wet at 6'; medium dense; light brown; gravel (pea gravel) at bottom, but recovery lost downhole	SP	Approximate Depth To Water
	5-10'	25"				
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10						
	10-15'	41"		11.6-13.6' Gravel; wet; loose; gray; pea stone	GP	
			TMD-SO-035/13.6-14.6 Time: 1022	13.6-15' Silty clay w/ trace sand and gravel; moist; stiff; gray and brown; plastic; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-036

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation
LOCATION : 21634 Bon Brae - N of MH at intersection with Bon Brae Court
ELEVATION :
DRILLING CONTRACTOR : Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED : DPT
Date: 4/18/2011
ATD WATER LEVEL : ~7 bgs
START : 1115
END : 1225
LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-036/1-2 Time: 1025			
	1-5'	40"	TMD-SO-036/2-3 Time: 1028	1-4.3' Sand (fine to med) w/ trace gravel; moist; medium dense; light brown	SP	
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5			TMD-SO-036/5-5.5 Time: 1133	5-5.5' Sand (fine to med) w/ trace gravel; moist; medium dense; light brown	SP	
				5.5-7' Gravel <1/2" dia.; wet; loose; (pea stone)	GP	
						Approximate Depth To Water
	5-10'	24"				
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10						
	10-15'	60"		12-13.7' Gravel <1/2" dia.; wet; loose; (pea stone)	GP	
			TMD-SO-036/13.8-14.8 Time: 1140	13.7-15' Silty clay w/ trace sand and gravel; moist; stiff; brownish gray; plastic; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-037

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 21611 Bon Brae - Stormwater line

ELEVATION : DRILLING CONTRACTOR : Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/18/2011

ATD WATER LEVEL : ~7' bgs START : 1245 END : 1415 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-037/1-2 Time: 1300			
	1-5'	48"	TMD-SO-037/2-3 Time: 1303	1-5' Sand (fine) w/ trace gravel; moist; medium dense; light brown	SP	
5						
			TMD-SO-037/5-5.9 Time: 1315	5-5.9' Sand (fine) w/ trace gravel; wet; medium dense; light brown	SP	
				5.9-7.3' Gravel <1/2" dia.; wet; loose; (pea stone)	GP	sheen visible on gravel, brown staining visible and oderous
						Approximate Depth To Water
	5-10'	36"	TMD-SO-037/7.3-8 Time: 1338	7.3-8' Silty clay w/ trace sand and gravel; moist; stiff; brown; plastic	CL	
10				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
	10-15'	39"		11.7-12.9' Gravel <1/2" dia.; wet; loose; (pea stone)	GP	sheen very visible and containing odor
			TMD-SO-037/12.9-13.9 Time: 1342			
				12.9-15' Silty clay w/ trace sand and gravel; moist; stiff; light brownish gray; plastic; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-038

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 26315 Bon Brae - Stormwater line (E St.)

ELEVATION : DRILLING CONTRACTOR : Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/18/2011

ATD WATER LEVEL : ~7' bgs START : 1445 END : 1535 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-038/1-2 Time: 1505			
	1-5'	38"	TMD-SO-038/2.5-3.5 Time: 1507	1-3.5' Sand (fine) w/ trace gravel; moist becoming wet about 3' bgs; medium dense; light brown	SP	
				3.5-3.8' Gravel <1/2" dia.; wet; loose; (pea stone)	GP	
				3.8-4-2' Silty clay w/ trace sand and gravel; moist; stiff; grayish brown; plastic	CL	
				NO	NA	
5			TMD-SO-038/5-6 Time: 1520	5-6.3' Silty clay w/ trace sand and gravel; moist; stiff; grayish brown; plastic	CL	
				6.3-7' Gravel <1/2" dia.; wet; loose; (pea stone)	GP	Approximate Depth To Water
	5-10'	24"				
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10						
	10-15'	39"		11.8-13.2' Gravel <1/2" dia.; wet; loose; (pea stone)	GP	
			TMD-SO-038/13.2-14.2 Time: 1523			
				13.2-15' Silty clay w/ trace sand and gravel; moist; stiff; light brownish gray; plastic; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-039

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 26315 Bon Brae - Stormwater line (E St)

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/18/2011

ATD WATER LEVEL : ~2' bgs START : 1550 END : 1650 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS. PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-039/1-2 Time: 1611	1-2.8' Silty clay w/ trace sand and gravel; moist to wet; stiff becoming firm; light gray and reddish brown; plastic	CL	Approximate Depth To Water
	1-5'	48"	TMD-SO-039/2-3 Time: 1613			
			TMD-SO-039/3-4 Time: 1616	2.8-3.5' Sand (fine) w/ some silt; wet; medium dense; brown	SM	
			TMD-SO-039/4-5 Time: 1630	3.5-4.3' Sandy to silty clay w/ trace gravel; moist to wet; stiff to firm; brown; plastic	CL	
5			TMD-SO-039/5-6 Time: 1635	4.3-5' Silty clay w/ trace sand and gravel; moist; stiff; brown; plastic	CL	
				5-9' Silty clay w/ trace sand and gravel; moist; stiff; light brown and gray; plastic	CL	
	5-10'	60"				
				9-9.5' Silty to sandy clay; moist; stiff; greyish brown; plastic	CL	
10				9.5-10' Silty clay w/ trace gravel; moist; very stiff; gray; plastic; native	CL	

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-040

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 21700 & 21708 Bon Brae - Stormwater line

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/19/2011

ATD WATER LEVEL : ~9' bgs START : 1015 END : 1150 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS. PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-040/1-2 Time: 1037			
	1-5'	38"	TMD-SO-040/2-3 Time: 1040	1'-4.2' Sand (medium to coarse) w/ some gravel; moist; medium dense; light brown	SP	
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5			TMD-SO-040/5-6 Time: 1044	5'-6.1' Sand (medium to coarse) w/ some gravel; moist; medium dense; light brown	SP	
				6.1-6.8' Gravel <1/2" dia.; wet; loose; (pea stone)	GP	
	5-10'	28"		6.8-7.3' Clay w/ some sand and gravel; moist; firm; grayish brown; plastic	CL	
				NO RECOVERY - PRESUMED SAME AS BELOW	NA	
10			TMD-SO-040/11-12 Time: 1132	11-11.7' Sand, fine to meduim grained; wet; loose to medium dense; grayish brown	SC	
				11.7-12.1' Gravel <1/2" dia.; wet; loose; (pea stone)	GP	
	10-15'	48"	TMD-SO-040/12.1-13.1 Time: 1140			
				12.1-15' Clay w/ trace gravel; moist; firm; gray; plastic; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-041

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 21701 Bon Brae - north sewer line Map

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/17/2011

ATD WATER LEVEL : NA START : 1200 END : 1320 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-041/1-2 Time: 1225			
	1-5'	46"	TMD-SO-041/2-3 Time: 1227	1'-4.8' Sandy clay to clayey sand w/ trace gravel; moist; stiff; plastic; reddish brown to brown;	CL/SC	
			TMD-SO-041/4-5 Time: 1230			
5						
			TMD-SO-041/6-7 Time: 1250			
				5'-9' Clay w/ some gravel; dry to moist; stiff; reddish brown; native; organic staining from 7.3-8.2'	CL	
	5-10'	58"	TMD-SO-041/7-8 Time: 1254			
			TMD-SO-041/8-9 Time: 1257			
			TMD-SO-041/9-10 Time: 1300			
10						
				9-15' Clay w/ some gravel; dry; firm; gray; slightly plastic; native	CL	
	10-15'	60"				
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-042

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 21224 Bon Brae - (Map ID 22B)

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/17/2011

ATD WATER LEVEL : ~9' bgs START : 1350 END : 1530 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-042/1-2 Time: 1447			
	1-5'	41"	TMD-SO-042/2-3 Time: 1451	1-3.4' Sand (fine to med) w/ some gravel; moist; medium dense; light brown	SP	
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5						
				5-7' Sand (fine to medium) w/ some gravel; moist; medium dense; light brown	SP	Black staining at 6-6.2'
			TMD-SO-042/6-7 Time: 1501			
	5-10'	36"		7-8' Clay w/ some sand and gravel; moist; firm; grayish brown	CL	
						Approximate Depth To Water
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10						
			TMD-SO-042/11.3-12.1 Time: 1515	11.3-12.1' Sand (fine to medium); wet; medium dense; light brown	SP	
				12.1-12.5' Gravel <1/2" dia.; wet; loose; (pea stone)	GM	
	10-15'	45"	TMD-SO-042/12.5-13.5 Time: 1520			
				12.5-15' Clay w/ trace gravel ; moist; firm; gray; plastic; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-043

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION :

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/19/2011

ATD WATER LEVEL : ~8' bgs START : 1545 END : 1648 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-043/1-2 Time: 1600			
	1-5'	36"	TMD-SO-043/2-3 Time: 1614	1-3.7' Sand (fine to med) w/ some gravel; moist to wet; medium dense; light brown	SP	
				3.7-4' Clay w/ trace sand and gravel; dry; very stiff; grayish brown; plastic	CL	
5				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
				5-5.5' Clay w/ trace sand and gravel; dry; very stiff; grayish brown; plastic	CL	
			TMD-SO-043/6-7 Time: 1620	5.5-7' Clayey sand; moist; med. dense; light brown	CL	
	5-10'	31"			SP	
						Approximate Depth To Water
					CL	
10				NO	NA	
					CL	
				12.1-12.3' Gravel <1/2" dia.; wet; loose; (pea stone)	GP	
	10-15'	35"	TMD-SO-043/12.1-13.1 Time: 1622	12.3-12.9' Sandy clay; wet; firm; grayish brown; plastic	CL	
			TMD-SO-043/13.1-14.1 Time: 1624			
				12.9-15' Clay; moist to dry; stiff; gray; plastic; native	CL	
15						

End of Boring

CH2MHILL

BORING NUMBER TMD-044

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 21525 Sunnydale - near south curb

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED Hand Auger Date: 4/20/2011

ATD WATER LEVEL : NA 0930 END : 0952 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT) / RECOVERY (IN) / SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
				PID Readings: Breathing Zone: Above Core:
		0-1' concrete and road base gravel		
	TMD-SO-044/1-2 Time: 0941	1-3' Sandy clay with some gravel; moist; stiff; greenish brown	CL	
	TMD-SO-042/2-3 Time: 0952			
		End of Boring		
5				

CH2MHILL

BORING NUMBER TMD-045

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 21531 Bon Brae St. - storm sewer

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : Date: 4/20/2011

ATD WATER LEVEL : NA 0953 END : 1005 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
	1-5'	38"		0-1' concrete and road base gravel		
			TMD-SO-045/1-2 Time: 0954	1-2' Clayey sand with some gravel; moist to wet; medium density; brown	SC	
			TMD-SO-045/2-3 Time: 1001	2-3' Clay with some gravel; moist; stiff; bluish brown	CL	
				End of Boring		
5						
10						

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-046

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Bon Brae St. side sewer

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/20/2011

ATD WATER LEVEL : NA START : 1100 END : 1215 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-046/1-2 Time: 1143	1-1.5' Clayey sand (fine to coarse) w/ some gravel; moist; medium dense; dark brown w/ org. staining	SC	
	1-5'	46"	TMD-SO-046/2-3 Time: 1147			
				1.5-5' Clay w/ trace sand and gravel; dry; stiff; reddish brown w/ gray; plastic;	CL	
			TMD-SO-046/4-4.8 Time: 1153			
5						
			TMD-SO-046/6-7 Time: 1158			
	5-10'	60"		5-10' Clay w/ trace sand and gravel; dry; very stiff; reddish brown w/ gray; plastic;	CL	
			TMD-SO-046/8-9 Time: 1204			
10						
			TMD-SO-046/10-11 Time: 1211			
	10-15'	60"		10-15' Clay w/ trace sand and gravel; dry; very stiff; reddish brown w/ gray; plastic;	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-047

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Intersection: Bon Brae St. and Alley-sewer

ELEVATION : DRILLING CONTRACTOR: Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED: DPT Date: 4/20/2011

ATD WATER LEVEL : NA START : 1220 END : 1410 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS. PID Readings: Breathing Zone: Above Core:
				0-0.7' concrete and road base gravel		3rd attempt to collect boring within corridor. 1st boring hit refusal. 2nd boring was in native material. This boring split the difference.
			TMD-SO-047/1-2 Time: 1351			
	0.7-5'	52"	TMD-SO-047/2-3 Time: 1356	0.7-5' Sandy clay; dry; stiff to very stiff; reddish brown to gray; top 1-2" of interval contained mostly sand	CL	
5			TMD-SO-047/4-5 Time: 1402			
			TMD-SO-047/6-7 Time: 1406			
	5-10'	60"		5-10' Clay; dry; stiff; brown	CL	
10						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-049

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 21510 Bon Brae - south side sewer

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/26/2011

ATD WATER LEVEL : NA START : 0910 END : 1040 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-049/1-2 Time: 0935	1-2.1' Sand (fine to medium)w/ trace sand and gravel; moist to wet; medium dense; brown	SP	
	1-5'	44"	TMD-SO-049/2-3 Time: 0940	2.1-3.7' Silty clay w/ trace sand and gravel; moist; stiff; reddish brown; plastic	CL	
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5			TMD-SO-049/5-6 Time: 1005			
				5-6' Silty clay w/ trace sand and gravel; moist; stiff; reddish brown and gray; plastic	CL	
	5-10'	32"				
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10			TMD-SO-049/10-11 Time: 1021			
				10-12' Silty clay w/ trace sand and gravel; moist; stiff; reddish brown and gray; plastic	CL	
			TMD-SO-049/11.5-12.5 Time: 1021			
	10-15'	40"		12-13.3' Silty clay w/ trace sand and gravel; moist; firm; gray; plastic; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-050

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Lakeland - Water line adjoining dialysis clinic

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/26/2011

ATD WATER LEVEL : NA START : 1124 END : 1215 LOGGER : S. Chunmeny

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS. PID Readings: Breathing Zone: Above Core:)
			TMD-SO-050/0-1 Time: 1140	0-0.5' Clayey to sandy silt; moist; firm; brown	ML	
				0.5-1.7' Clayey to silty sand (fine to medium) w/ trace gravel; moist; medium dense; brown	SM	
	0-5'	29"	TMD-SO-050/2-2.4 Time: 1145	1.7-2.5' Silty clay w/ trace sand and gravel; moist; stiff; dark brownish gray; plastic	CL	
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5				5-6.2' Silty clay w/ trace sand and gravel; moist; stiff; reddish brown and gray; plastic	CL	
			TMD-SO-050/6-7 Time: 1155	6.2-7.1' Clayey to silty sand (fine to medium) w/ trace gravel; moist; medium dense; gray	SM	
	5-10'	46"		7.1-8' Silty to sandy clay w/ trace sand and gravel; moist; stiff; brown; plastic	CL	
			TMD-SO-050/7.5-8.5 Time: 1158	8.-8.8' Silty clay w/ trace sand and gravel; moist; stiff; brownish gray; plastic; native	CL	
10						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-051

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Alley - behind lupis clinic

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/26/2011

ATD WATER LEVEL : NA START : 1430 END : 1600 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS. PID Readings: Breathing Zone: Above Core:
				0-0.7' Asphalt and concrete		
				0.7'-1.1' Silty clay w/ trace sand and gravel; moist; stiff; brown	CL	
			TMD-SO-051/1-2 Time: 1450	1.1'-1.5' Sand; moist; medium dense; light brown;	SP	
	0-5'	48"	TMD-SO-051/2-3 Time: 1453	1.5-4' Silty clay w/ trace sand and gravel; moist; stiff; reddish brown and gray; plastic	CL	
5						
			TMD-SO-051/5-6 Time: 1553			
				5'-7.2' Clay; moist; stiff; brownish gray; friable	CL	
	5-10'	60"	TMD-SO-051/7-8 Time: 1538			
			TMD-SO-051/8.5-9.5 Time: 1540	7.2-10' Silty clay w/ trace sand and gravel; slightly moist; stiff; brown; plastic; native	CL	
10						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-052

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Bon Brae - sewer line (south side) near Harper

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/26/2011

ATD WATER LEVEL : NA START : 1630 END : 1700 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME,USCS GROUP SYMBOL,COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-052/1-2 Time: 1645	1-2.2' Sand (fine to med); wet; medium dense; brown	SP	
	1-5'	48"	TMD-SO-052/2-3 Time: 1648			
				2.2-5' Silty clay w/ trace sand and gravel; moist; stiff; gray and brown	CL	
5			TMD-SO-052/4-5 Time: 1651			
				5-8' Silty clay w/ trace sand and gravel; moist; stiff; gray and light brown; native	CL	
	5-8'	36"				
				End of Boring		
10						

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-053

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Manhole - #7179 along side structure

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/27/2011

ATD WATER LEVEL : 6' bgs START : 1110 END : 1220 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-053/1-2 Time: 1115			
	1-5'	47"	TMD-SO-053/2-3 Time: 1117	1-3.8' Sand (fine to med) w/ some gravel; moist; medium dense; light brown	SP	
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5			TMD-SO-053/5-6 Time: 1123			
				5-7.5' Sand (fine to med) w/ some gravel; moist becoming wet at 6' bgs; medium dense; light brown	SP	Approximate Depth To Water
	5-10'	30"				
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10						
				11-11.8' Sand (fine); wet; medium dense; brown		
			TMD-SO-053/11.5-12.5 Time: 1133	11.8-13.1' Sand (fine); wet; medium dense; grayish brown; stained		
	10-15'	30"	TMD-SO-053/12.5-13.5 Time: 1135		SP	
			TMD-SO-053/13.5-14Time: 1205	13.1-14' Sand (fine); wet; medium dense; dark gray; stained w/ visible sheen		strong odor
				14-14.3' Sand (fine); wet; medium dense; brownish gray		
15			TMD-SO-053/14.5-15 Time: 1210	14.3-15' Silty clay; moist; firm; gray; native	CL	

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-054

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Manhole stepout - 10' East-northeast of #7179

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/27/2011

ATD WATER LEVEL : 6' bgs START : 1245 END : 1655 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-054/1-2 Time: 1510			
	1-5'	43"	TMD-SO-054/2-3 Time: 1515	1-3.9' Sand (fine to med); moist; medium dense; light brown	SP	
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5						Approximate Depth To Water
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
	5-10'	18"				
			TMD-SO-054/9-10 Time: 1635	8.5-10' Sand (fine to med); wet; medium dense; light brown		
10					SP	
				10-12.1' Sand (medium to coarse); wet; medium dense; brown to gray at 11.8-12.1		
			TMD-SO-054/11-12 Time: 1640			
	10-15'	60"	TMD-SO-054/12-13 Time: 1643			
				12.1-15' Silty clay w/ trace sand and gravel; moist; firm; gray; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-055

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Manhole stepout - 10' West of #7179

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/28/2011

ATD WATER LEVEL : NA START : 0930 END : 1325 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
				1-1.6' crushed concrete and gravel		
				1.6-2.4' Silty clay w/ trace gravel; fine sand lense at 2-2.2; moist; stiff; reddish brown and gray - dark gray from 2.2'-2.4' bgs		
	1-5'	40"	TMD-SO-055/2-3 Time: 1300			
5			TMD-SO-055/5-6 Time: 1303			
				2.4-10' Silty clay w/ trace sand and gravel; moist; stiff; reddish brown w/ some gray		
	5-10'	48"	TMD-SO-055/7-8 Time: 1306		CL	
			TMD-SO-055/9-10 Time: 1042			
10			TMD-SO-055/10-11 Time: 1310	10-10.5' Silty clay w/ trace sand and gravel; moist; firm; gray w/ some brown;		
	10-15'	60"		10.5-15' Silty clay w/ trace sand and gravel; moist; stiff; gray; native		
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-056

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Manhole - 7178 along structure

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/28/2011

ATD WATER LEVEL : 7' bgs START : 1345 END : 1530 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-056/1-2 Time: 1402			
	1-5'	49"	TMD-SO-056/2-3 Time: 1404	1-4.1' Sand (fine) w/ trace gravel; moist; medium dense; light brown	SP	
5				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
			TMD-SO-056/6-7 Time: 1407	5-7.7' Sand (fine) w/ trace gravel; moist becoming wet at 7' bgs; medium dense; light brown	SP	Approximate Depth To Water
	5-10'	33"				
10				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
				10-12.5' Sand (fine to coarse) w/ trace gravel; wet; medium dense; light brown	SP	
	10-15'	52"	TMD-SO-056/12-13 Time: 1520			
			TMD-SO-056/13-14 Time: 1524	12.5-15' Clay w/ trace sand and gravel; moist; stiff; gray; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-057

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Manhole J01 - Bon Brae and Harper intersection

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/28/2011

ATD WATER LEVEL : 6' bgs START : 1620 END : 1820 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1.8' concrete and road base gravel		3rd attempt to collect boring. Approximately 8.5' from center of manhole to north-northeast
	1.5-5'	46"	TMD-SO-057/2-3 Time: 1744	1.8-3.8' Sand (fine to medium); dry to moist; medium dense; light brown	SP	
			TMD-SO-057/4-4.8 Time: 1747	NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5						
						Approximate Depth To Water
			TMD-SO-057/6-7 Time: 1800	5-7.8' Sand (fine to medium); wet; medium dense; brown darkening to grayish brown at 6.5' bgs with staining at 7.8'	SP	
	5-10'	36"	TMD-SO-057/7-7.8 Time: 1802			
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10						
			TMD-SO-057/10-11 Time: 1805			
			TMD-SO-057/10-11 Time: 1808	10-12.5' Sand (fine to medium); wet; medium dense; brown	SP	
	10-13.6	40"	TMD-SO-057/12-13 Time: 1810			oil sheen at bottom of interval
				12.5-15' Silty clay; wet; stiff; gray;	CL	oil sheen present on core
			TMD-SO-057/13-13.6 Time: 1818	End of Boring		
15						

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-058

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Manhole J01 - 2nd attempt to get below structure

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/29/2011

ATD WATER LEVEL : 7' bgs START : 1040 END : 1210 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
				0-1.8' concrete and road base gravel		
	1.5-5'	27"		1.8-2.7' Sand (fine to coarse) w/ gravel; dry; medium to high dense; light brown	SW	
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5						
				5-8.7' Sand (fine to medium); moist to wet; medium dense; brown darkening to grayish brown	SP	Approximate Depth To Water
	5-10'	44"				
10						
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
	10-15'	0"				
15						
			TMD-SO-058/15-15.4 Time: 1145	15-15.4' Sand (fine to medium); wet; medium dense; brown	SP	
			TMD-SO-058/15.4-16 Time: 1148			
	15-20	60"		15.4-20' Clay; moist; firm to soft; gray; plastic; native	CL	
20						
				End of Boring		

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-059

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 21632 Bon Brae - Manhole structure

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/29/2011

ATD WATER LEVEL : 7' bgs START : 1230 END : 1350 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-059/1-2 Time: 1318			
	1-5'	44"	TMD-SO-059/2-3 Time: 1322	1-3.7' Sand (fine to medium)w/ trace sand and gravel; moist to wet; medium dense; brown	SP	
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5						
			TMD-SO-059/6-7 Time: 1325	5-7.2' Sand (fine to medium)w/ trace gravel; wet; medium dense; brown	SP	
						Approximate Depth To Water
	5-10'	29"				
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10						
			TMD-SO-059/10-11 Time: 1336	10-11' Sand (fine to medium)w/ trace gravel; wet; medium dense; brown		
				11-11.8' Sand (medium)w/ trace gravel; wet; medium dense; light brown becoming gray;	SP	Concrete pieces present where manhole structure grazed
	10-15'	60"	TMD-SO-059/12-13 Time: 1339	11.8-13' Sand (medium)w/ trace gravel; wet; medium dense; light brown becoming gray; staining		Faint odor
			TMD-SO-059/13-14 Time: 1347			
				13-15' Clay; moist; stiff; gray; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-060

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Lakeland - Water line adjoining dialysis clinic

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/29/2011

ATD WATER LEVEL : 6' bgs START : 1400 END : 1450 LOGGER : S. Chunmeny

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME,USCS GROUP SYMBOL,COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
			TMD-SO-060/1-2 Time: 1422			
	1-5'	34"	TMD-SO-060/2-3 Time: 1425	1-3.8' Sand (fine to medium) w/ trace gravel; moist; medium density; light brown	SP	
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5			TMD-SO-060/5-6 Time: 1430	5-5.9' Sand (fine to medium) w/ trace gravel; wet; medium density; light brown	SP	Approximate Depth To Water
			TMD-SO-060/6-6.7 Time: 1433	5.9-6.7' Gravel w/ sand and silt; wet; loose; gray; <1/2" in diameter (pea gravel)'	GM	
	5-10'	20"				
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10						
	10-15'	42"		11.5-13.5' Gravel; wet; loose; gray; stained; <1/2" in diameter (pea gravel)'	GP	odor present
			TMD-SO-060/13.5-14.5 Time: 1438	13.5-15' Clay w/ trace sand and gravel; moist; stiff; gray; plastic; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-061

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Manhole 4137 - 10' offset from manhole to west

ELEVATION : DRILLING CONTRACTOR : Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/29/2011

ATD WATER LEVEL : 6' bgs START : 1505 END : 1605 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
				0-1' Asphalt and concrete		Due to the presence of nearby water service lines, the first 6 feet of the boring was conducted using a hand auger.
	NA	NA				
				1-6' Sand (fine to medium) trace gravel; moist; medium dense; light brown;	SP	
5						Approximate Depth To Water
			TMD-SO-061/6-7 Time: 1538			
				6-8.4' Sand (fine to medium) trace gravel; wet; medium dense; light brown;		
	6-10'	28"				
10				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
			TMD-SO-061/11.55-12.5 Time: 1550	11.5-12.3' Sand (fine to medium) trace gravel; wet; medium dense; light brown;	SP	
	10-15'	44"		12.3-12.8' Gravel and sand; wet; loose; gray	GM	
				12.8-13' Sand (fine to coarse); wet, med. dense; gray	SW	
			TMD-SO-061/13-14 Time: 1555	13.14.6' Clay w/ some gravel; moist; stiff; brown; plastic; native	CL	
				14.6-15' Sand (fine to coarse) w/ some gravel; wet; medium dense; gray	SW	
15						Clay plug in bottom of boring.

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-062

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation
LOCATION : Manhole at Bon Brae St. and E St. - stepout 10' to NNW
ELEVATION :
DRILLING CONTRACTOR : Coleman Engineering
DRILLING METHOD AND EQUIPMENT USED : DPT
Date: 4/29/2011
ATD WATER LEVEL : NA
START : 1610
END : 1640
LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME,USCS GROUP SYMBOL,COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-062/1-2 Time: 1620			
	1-5'	32"	TMD-SO-062/2-3 Time: 1623	1-3.7' Sand w/ some gravel; moist; medium density; light brown;	SP	
5				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
			TMD-SO-062/5-6 Time: 1632			
	5-8'	41"		5.7-7.5' Sand w/ some gravel; moist; medium density; light brown;	SP	
				7.5-10' Clay w/ trace gravel; moist; very stiff; gray; native	CL	
10						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-064

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Manhole J01 stepout - 15' NW of center of manhole

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/30/2011

ATD WATER LEVEL : NA START : 0932 END : 1257 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		3 attempts to locate storm line corridor. 3rd attempt is recorded.
			TMD-SO-064/1-2 Time: 1225	1-1.5' Sand (fine to coarse); moist; medium dense; light brown	SW	
	1-5'	34"	TMD-SO-064/2-3 Time: 1228	1.5-4' Silty clay w/ sand; dry; very stiff; gray; native	CL	
5				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
			TMD-SO-064/6-7 Time: 1234			
	5-10'	60"		5-10' Silty clay w/ sand; dry; very stiff; gray; native	CL	
			TMD-SO-064/8-9 Time: 1237			
10						
			TMD-SO-064/10-11 Time: 1243			
				10-13.4' Silty clay w/ sand; dry; very stiff; gray; native		
	10-15'	60"	TMD-SO-064/12-13 Time: 1245		CL	At 12.4 a visible oil was present in a seam of the clay
			TMD-SO-064/13-14 Time: 1250			
15				13.4-15' Clay w/ trace gravel; moist; firm to stiff; purpleish brown		

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-065

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Adjoining J01 vault structure to the south

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/30/2011

ATD WATER LEVEL : 5' bgs START : 1303 END : 1638 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1.3' concrete and road base gravel		
			TMD-SO-065/1.3-2 Time: 1348			
	1.3-5'	41"	TMD-SO-065/2-3 Time: 1350	1.3-4.4' Sand (medium) w/ trace gravel; dry to moist; medium dense; yellow brown	SP	
5				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	Approximate Depth To Water
			TMD-SO-065/6-7 Time: 1353	5-8' Sand (medium) w/ trace gravel; wet; medium dense; yellow brown	SP	
	5-10'	36"	TMD-SO-065/7-8 Time: 1400			
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10			TMD-SO-065/10-11 Time: 1403	10-10.8' Sand (medium) w/ trace gravel; wet; medium dense; yellow brown w/ black and gray staining; yellow green color at 10.7' bgs	SP	
			TMD-SO-065/11-12 Time: 1406			
	10-13.6'	42"		10.8-13.6' Silty sand (fine to medium); wet; low density; gray; black staining from 13.3-13.6	SM	
			TMD-SO-065/13-13.6 Time: 1634			
				End of Boring		
15						

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-066

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 1' south of TMD-065 near J01

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/30/2011

ATD WATER LEVEL : NA START : 1545 END : 1555 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
						Attempting to sample beside and below bottom of vault structure. Discrete sampled last 5 feet only.
	0	0				
5						
	0	0				
10						
			TMD-SO-066/10-11 Time: 1605			
	10-15'	58"	TMD-SO-066/12-13 Time: 1609	10-15' Silty clay w/ trace gravel; moist; firm; grayish brown	CL	
			TMD-SO-066/13-14 Time: 1611			
15						

End of Boring

CH2MHILL	PROJECT NUMBER 419470.FI.01	BORING NUMBER TMD-067

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 4" south of TMD-065 near J01

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/30/2011

ATD WATER LEVEL : 5' bgs START : 1615 END : 1640 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
						Attempting to sample beside and below bottom of vault structure. Discrete sampled last 5 feet only.
	0	0				
5						Approximate Depth To Water
	0	0				
10						
			TMD-SO-067/10-11 Time: 1625	10-11' Silty sand (fine to medium); wet; medium dense; brown to gray	SM	
				11-12' Clay and sand - liner split down the middle	CL/SM	
	10-13.6	40"	TMD-SO-067/12-13 Time: 1628			
			TMD-SO-067/13-13.6 Time: 1631	12-14' Silty clay w/ some sand; moist; firm; gray;	CL	
				End of Boring		
15						

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-068

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Manhole J01 offset - 20' offset south of manhole

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 4/30/2011

ATD WATER LEVEL : 6' bgs START : 1650 END : 1730 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and gravel		Hand augered to clear natural gas line, so no samples were collected 0-6 feet bgs.
	0	0				
				1-8' Sand (fine to medium); wet; medium dense; brown;	SP	
5						
						Approximate Depth To Water
			TMD-SO-068/6-7 Time: 1710			
	6-10'	24"	TMD-SO-068/7-8 Time: 1714			Light sweet odor present
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10						
			TMD-SO-068/10-11 Time: 1720			
				10-13' Sand (fine to medium); wet; medium dense; brown;	SP	
	10-15'	60"	TMD-SO-068/12-13 Time: 1723			Oil sheen and strong odor present
			TMD-SO-068/13-14 Time: 1726			
				13-15' Sandy clay w/ trace gravel; wet; firm to soft; gray; plastic; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-069

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 12' NW of TMD-064 as offset

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 5/1/2011

ATD WATER LEVEL : 3' bgs START : 1000 END : 1420 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
			TMD-SO-069/1-2 Time: 1350	1-1.7' Sand (fine to coarse) w/ trace gravel; moist; medium dense; light brown	SP	
	1-5'	36"	TMD-SO-069/2-3 Time: 1353	1.7-2.8' Clay w/ trace sand and gravel; moist; stiff; gray and reddish brown	CL	
				2.8-3' Sandy gravel; wet; loose; gray	GM	Approximate Depth To Water
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5				5-6' Clay w/ trace sand and gravel; wet; firm to soft; gray and reddish brown		
			TMD-SO-069/6-7 Time: 1358		CL	
	5-10'	48"		6-8.8' Clay w/ trace sand and gravel; moist; stiff; gray w/ some brown		
			TMD-SO-069/8-8.8 Time: 1402			
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10			TMD-SO-069/10-11 Time: 1406	10-10.6' Silty clay w/ trace sand and gravel; moist; stiff; gray		
			TMD-SO-069/11-12 Time: 1411			
	10-15'	45"		10.6-15' Silty clay w/ trace sand and gravel; moist; firm; gray	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-070

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : J01 Offset - 20' offset to east

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 5/1/2011

ATD WATER LEVEL : 5.5' bgs START : 1445 END : 1630 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME,USCS GROUP SYMBOL,COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and gravel		
			TMD-SO-070/1-2 Time: 1558	1-2' Gravel and slag; angular; dark gray; (subase for road)	GM	
	1-5'	48"	TMD-SO-070/2-3 Time: 1602			
				2-5' Silty sand (fine to medium) w/ gravel; moist; medium density; reddish brown to brown; some clay present 3-4' bgs	SM	
5						Approximate Depth To Water
			TMD-SO-070/6-6.7 Time: 1609			
	5-10'	57"		5-10' Sand (fine to medium); moist to wet; medium density; brown; some staining 8-9' bgs	SP	
			TMD-SO-070/8-9 Time: 1612			
10				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
	10-15'	42"	TMD-SO-070/12-13 Time: 1617	12-13' Sand (fine to medium); wet; medium density; gray	SP	
			TMD-SO-070/13-14 Time: 1620	13-13.5' Clayey sand (fine to medium); wet; medium density; gray	SC	
			TMD-SO-070/14-15 Time: 1625	13.5-15' Clay w/ some gravel; moist; firm; gray; plastic; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-071

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Manhole 4137 - along structure

ELEVATION : DRILLING CONTRACTOR : Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 4/29/2011

ATD WATER LEVEL : 5' bgs START : 0945 END : 1110 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
			TMD-SO-071/1-2 Time: 1043	0-1.2' Clay sand (fine to medium) w/ trace gravel; moist; medium density; brown to orange brown; dark organic discoloration from 1-1.2	SC	
	0-5'	36"	TMD-SO-071/2-3 Time: 1048	1.2-3' Sand (fine to coarse) trace gravel; moist; medium dense; light brown;	SW	
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5						Approximate Depth To Water
			TMD-SO-071/6-7 Time: 1053	5-7' Sand (fine to coarse) trace gravel; moist; medium dense; light brown; organic balck peat at 6.8-6.9' bgs	SW	
	5-10'	48"		NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
			TMD-SO-071/9-9.7 Time: 1058	8-9.7' Clay w/ trace sand; very soft; wet; brown to blue-green; non-plastic	CM	
10				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
	10-12.5'	13"	TMD-SO-071/11.4-12.5 Time: 1106	11.4-12.5' Sand and Clay. Sand (fine to coarse); moist; medium density; light brown Clay w/ trace sand; very soft; wet; brown to blue-green; non-plastic End of Boring	SP/ CM	
15						

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-072

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Manhole #1111 - along structure

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 5/2/2011

ATD WATER LEVEL : NA START : 1110 END : 1130 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION	USCS	COMMENTS
				SOIL NAME,USCS GROUP SYMBOL,COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.		DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
						Discreet sample collected from 10-15 feet only. Taken adjacent to boring TMD-071.
	0	NA				
5						
	0	NA				
10				NO RECOVERY	NA	
	10-15'	48"	TMD-SO-072/11-12 Time: 1115	11-14' Sand and Clay (Split in liner half-and-half) Sand; moist; medium dense; brown Clay; moist; stiff; gray; native	SM/ CL	
			TMD-SO-072/12-13 Time: 1120			
				14-15' Clay; moist; stiff; gray; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-073

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Manhole # 1111 - SW cor of Lakeland and Harper

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 5/2/2011

ATD WATER LEVEL : 6' bgs START : 1205 END : 1350 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
			TMD-SO-073/0-1 Time: 1318	0-0.4' Loamy sand w/ trace gravel; moist; soft; dark brown		
				0.4-2.3' Sand (fine to medium) w/ gravel from 0.4-1'; moist; medium dense; light brown	SM	
	1-5'	28"	TMD-SO-073/2-3 Time: 1323			
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5						Approximate Depth To Water
			TMD-SO-073/6-7 Time: 1328	5-8.3' Silty sand w/ trace clay; moist to wet @ 6'; medium density; brown	SM	
	5-10'	40"				
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10			TMD-SO-73/10-11 Time: 1330			
				10-12.5' Silty sand w/ trace clay; wet; medium density; brown	SM	
	10-15'	54"	TMD-SO-073/12-13 Time: 1332			12.5' presumed structure top of footing
				12.5-13.5' Sand/Clay mix	SW/CL	
			TMD-SO-073/13-14 Time: 1335			
				13.5-15' Clay w/ trace sand and gravel; moist; very stiff; gray	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-074

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Secondary stepout from J01 - between TMD-015 and -068

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 5/2/2011

ATD WATER LEVEL : 5' bgs START : 1420 END : 1542 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
						Hand auger cleared to 3.5'
	3.5-5'	18"				
			TMD-SO-074/4-5 Time: 1511	3.5-5' Sand; (fine to medium); moist; low density; dark brown	SP	
5						Approximate Depth To Water
				5-6' Sand (fine to medium); moist; low density; dark brown		
			TMD-SO-074/6-7 Time: 1515			
	5-10'	52"		6-9.3' Clay w/ some gravel; dry; very stiff; plastic	CL	
			TMD-SO-074/8-9 Time: 1520			
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10			TMD-SO-074/10-11 Time: 1522			
				10-13.2' Silty clay w/ sand; dry; very stiff; gray; native		
	10-15'	60"	TMD-SO-074/12-13 Time: 1525		CL	
			TMD-SO-074/13-14 Time: 1527			
				13.2-15' Clay w/ trace gravel; moist; firm to stiff; purpleish brown		
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-075

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Manhole # 1111 - in front of 21534 Bon Brae

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 5/2/2011

ATD WATER LEVEL : 7' bgs START : 1545 END : 1655 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and road base gravel		
			TMD-SO-075/1-2 Time: 1635			
	1-5'	36"	TMD-SO-075/2-3 Time: 1644	1-4' Sand (fine to medium); moist; medium dense; light brown	SP	
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5						
			TMD-SO-075/5.5-6.5 Time: 1652	5-6.5' Sand (fine to medium); wet; medium dense; light brown	SP	
						Approximate Depth To Water
	5-10'	18"				
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10						
			TMD-SO-075/10-11 Time: 1655	10-11.5' Sand (fine to medium); wet; medium dense; dark brown	SP	
			TMD-SO-075/11-11.5 Time: 1708			
	10-15'	60"	TMD-SO 075/12-13 Time: 1711			
				11.5-15' Clay w/ trave gravel; moist; stiff; gray; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-077

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Adjoining sewer manhole at Frazho and alley to east

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 5/3/2011

ATD WATER LEVEL : 5.5' bgs START : 0930 END : 1050 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-2' Concrete, gravel and debris		0-2' hand augered. No sample collected.
			TMD-SO-077/2-2.5 Time: 1030			
	2-5'	24"		2-4' Clayey sand (fine to medium); moist; medium density; brown with some black organic staining	SC	
			TMD-SO-077/3-4 Time: 1033			
5				5-5.5' Clayey sand (fine to medium); moist; medium density; brown with some staining	SC	Approximate Depth To Water
			TMD-SO-077/6-7 Time: 1038	5.5-7' Silty sand (fine to medium); wet; very low density; blackish brown	SM	
	5-10"	60"	TMD-SO-077/7-8 Time: 1041	7-8' Sandy clay to clayey sand (fine to medium); wet; firm / medium density; plastic	CL/ SC	8' bgs is bottom of sewer line
			TMD-SO-077/8-9 Time: 1044			
				8-10' Clay w/ trace gravel; moist; frim to stiff; plastic; native	CL	
10						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-078

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Manhole at Bon Brae and D. Street

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 5/3/2011

ATD WATER LEVEL : 6' bgs START : 1150 END : 1710 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS. PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and gravel		
			TMD-SO-078/1-2 Time: 1203			
	0-5'	46"	TMD-SO-078/2-3 Time: 1205	1-3.8' Sand (fine) w/ trace gravel and coarse sand; moist; medium dense; brown;	SP	
						Grazed edge of structure at 3.5' (concrete)
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5						
						Approximate Depth To Water
			TMD-SO-078/6-7 Time: 1627			
	6-10'	29"		5-10' Sand (fine to medium); moist; medium dense; brown;	SP	
10						
			TMD-SO-078/10-11 Time: 1631			
				10-13' Sand (fine to medium) w/ trace coarse sand and gravel; wet; medium dense; brown and gray;	SP	
	10-15'	60"	TMD-SO-078/1-2 Time: 1634			
			TMD-SO-078/1-2 Time: 1632			
				13-15' Clay w/ trace sand and gravel; moist; firm; gray; plastic; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-079

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : North of TMD-078 on other side of manhole

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 5/3/2011

ATD WATER LEVEL : 6' bgs START : 1645 END : 1705 LOGGER : S. Chumney

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
1-5'	1-5'	60"		1-5' Sand (fineto medium); moist; medium dense; brown	SP	
5						Approximate Depth To Water
				5-8.2' Sand (fineto medium); moist becoming wet; medium dense; brown	SP	
5-10'	5-10'	60"	TMD-SO-079/7-8 Time: 1651			
				8.2-8.7' Gravel; wet; loose; gray; pea stone	GP	
				8.7-10' Clay w/ trace sand and gravel; moist; stiff; gray w/ some brown	CL	
10						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-080

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Manhole #1111 - north from MH along line stub

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 5/11/2011

ATD WATER LEVEL : NA START : 0930 END : 1000 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME,USCS GROUP SYMBOL,COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS. PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and gravel		
	1-5'	36"		1-4' Sand (fine to medium); moist; medium density; brown;	SP	
5				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
	5-10'	36"	TMD-SO-080/7.5-8.5 Time: 0950	7-8.5' Sand (fine to medium); moist to wet; medium density; brown; some staining 8-9' bgs	SP	
				8.5-8.7' Gravel; moist; loose; gray;	GP	
10				8.7-10' Clay; moist; very stiff; gray plastic	CL	

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-081

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Manhole @ Bon Brae and D Street - adjoining structure to west

ELEVATION : DRILLING CONTRACTOR : Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 5/11/2011

ATD WATER LEVEL : 10' bgs START : 1020 END : 1140 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and gravel		
			TMD-SO-081/1-2 Time: 1034			
				1.2-3' Sand (fine to medium); moist; medium dense; brown;	SP	
	1-5'	28"	TMD-SO-081/2-3 Time: 1038			
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5						
				5-7'Sand (fine to medium); moist to wet at 6.8'; medium dense; brown;	SW	
			TMD-SO-081/6-7 Time: 1042			
	5-10'	24"				
10				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	Approximate Depth To Water
	10-12.5'	25"				
			TMD-SO-081/12.9-13.9 Time: 1115			
			TMD-SO-081/14.2-14.8 Time: 1107	12.9-14.8' Sand (fine to medium); moist; medium dense; brown;	SP	
15			TMD-SO-081/14.8-15 Time: 1055	14.8-15' Clay; very stiff; moist; gray; plastic	CL	Free oil present at interface of backfill and clay.
				End of Boring		

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-082

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Stepout west of TMD-081

ELEVATION : DRILLING CONTRACTOR: Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 5/11/2011

ATD WATER LEVEL : ~13' bgs START : 1150 END : 1325 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME,USCS GROUP SYMBOL,COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS. PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and gravel		
	1-5'	39"		1-4.3' Sand (fine to medium); moist; medium denisity; light brown;	SP	
5				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
				5-6' Sand (fine to medium); moist; medium denisity; light brown;	SP	
				6-6.5' Gravel; moist; loose; gray; (pea stone)	GM	
	5-10'	18"				
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10						
				12-12.5' Sand (fine to medium); moist; medium denisity; light brown;	SP	
	10-15'	36"	TMD-SO-082/12-13 Time: 1253	12.5-13' Gravel; moist; loose; gray; (pea stone)	GM	Approximate Depth To Water
			TMD-SO-082/13-14 Time: 1257	14-15' Clay; moist; very stiff; gray; plastic	CL	
15						
				15-18' Gravel; wet; loose; gray; (pea stone)	GP	Split corridor and clay in the 15-18' interval, so this gravel is not naturally occurring.
	15-20'	60"	TMD-SO-082/17-18 Time: 1300			
				18-20' Clay; moist; firm; plastic; native	CL	
20						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-083

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Adjoining manhole structure at Bon Brae and C Street to NW

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 5/11/2011

ATD WATER LEVEL : 6' bgs START : 1430 END : 1525 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and gravel		
			TMD-SO-083/1-2 Time: 1502	1-3' Sand (fine to medium); moist; medium dense; light brown	SP	
	1-5'	24"	TMD-SO-083/2-3 Time: 1504			
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5			TMD-SO-083/5-6 Time: 1507	5-6' Sand (fine to medium); moist; medium dense; light brown; trace organics	SP	Approximate Depth To Water
	5-10'	12"				
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10						
	10-15'	36"	TMD-SO-083/12-13 Time: 1514	12-13' Sand (meduim to coarse) w/ gravel: wet; loose; brown;	SW	
			TMD-SO-083/13-13.2 Time: 1517			
				13.5-15' Clay; moist; stiff; grayish brown; plastic; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-084

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Off the SE corner of the manhole at Bon Brae and C Street

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 5/11/2011

ATD WATER LEVEL : 9' bgs START : 1545 END : 1645 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and gravel		
			TMD-SO-084/1-2 Time 1553			
	1-5'	30"	TMD-SO-084/2-3 Time 1557	1-3.5' Sand (fine to coarse); moist; medium density; light brown	SW	
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5						
			TMD-SO-084/6-7 Time 1615	5-7' Sand (fine to medium) w/ some gravel; moist; medium density; light brown; organics at 6' bgs	SW	
	5-10'	24"		NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
						Approximate Depth To Water
10			TMD-SO-084/10-11 Time: 1617			
			TMD-SO-084/11-12 Time: 1620	10-13' Sand (fine to medium) some clay inclusions; moist to wet; medium density; brown;	SP	
	10-15'	60"	TMD-SO-084/12-13 Time: 1622			
				13-15' Clay; moist; firm; gray; plastic; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-085

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : In front of 21719 Bon Brae St. - between sewer and storm lines

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 5/12/2011

ATD WATER LEVEL : NA START : 0930 END : 1000 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and road base gravel		1st of several attempts to locate the old former Martin Drain that has been filled in.
				1-2.5' Sand (fine to medium) w/ some silt and gravel; moist; medium dense; light brown	SP	
				1.5-2.5' Clay w/ some gravel; moist to wet; stiff; gray green; plastic; some organics	CL	This boring location not sampled.
	1-5'	30"				
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5						
				5-7' Clay w/ some gravel; moist; firm; brownish gray	CL	
	5-10'	24"				
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10						
	10-15'	60"		10-15' Clay w/ some gravel; moist; firm; gray to gray-brown; naitve	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-086

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Ten feet east of TMD-085

ELEVATION : DRILLING CONTRACTOR : Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 5/12/2011

ATD WATER LEVEL : NA START : 1000 END : 1105 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and gravel		
			TMD-SO-086/1-2 Time: 1141	1-1.5' Clayey sand (fine to medium); moist; medium density; brown		
	1-5'	24"	TMD-SO-086/2-2.5 Time: 1144	1.5-3' Clay w/ some gravel; moist; medium density; brown	SC	
5						
			TMD-SO-086/6-7 Time: 1147	5-7' Clay w/ some gravel and brick debris at 6.5'; moist; medium density; brown	CL	
	5-10"	60"				
10			TMD-SO-086/10-11 Time: 1152	10-11' Sandy clay to clayey sand (fine to medium); wet; firm / medium density; plastic		
			TMD-SO-086/11-12 Time: 1156			
	15-20"	60"		11-15' Clay; moist; stiff; plastic; native	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-087

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Ten feet east of TMD-086

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 5/3/2011

ATD WATER LEVEL : NA START : 1030 END : 1107 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS. PID Readings: Breathing Zone: Above Core:
				0-1' Concrete, gravel and debris		Not sampled. Exploratory boring to try to locate the old former Martin Drain.
				1-1.8' Clayey sand (fine to medium) w/ gravel and bits of slag; moist; medium density; light to dark brown;	SC	
	1-5'	48"				
				1.8-5' Silty/sandy clay w/ gravele and bits of slag; moist; soft to firm; brown to reddish brown; some organic staining	CL	
5						
	5-10"	60"		5-10' Clay w/ trace gravel; moist; frim; plastic; native; 2 sand seams =1/4" in thickness located at 9.7'	CL	
10						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-088

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 10 feet west of TMD-085

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 5/12/2011

ATD WATER LEVEL : NA START : 1115 END : 1145 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and gravel		
				1-2' Sand (fine to coarse) w/ some gravel; moist; medium dense; brown to light brown;	SW	
	0-5'	46"		2-3.5' Sandy clay w/ some gravel and organics; moist; stiff; brown to reddish brown; plastic;	CL	
						Grazed edge of structure at 3.5' (concrete)
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5				5-5.5' Sandy clay; wet; stiff; brown to reddish brown; plastic;	CL	
			TMD-SO-088/5.5-6 Time 1138	5.5-6' Sand (fine to coarse) w/ some gravel; wet; medium dense; dark brown;	SW	
				6-7.5' Clay; moist to wet; soft to firm; grayish brown; plastic	CL	
	5-10'	30"				
10				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
	10-15'	36"				
				12-15' Clay; moist to wet; soft to firm; grayish brown; plastic	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-089

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : 12 feet west of TMD-088

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 5/12/2011

ATD WATER LEVEL : NA START : 1215 END : 1310 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
				0-1' concrete and road base gravel		
				1-5' Sand (fine to medium); moist; medium dense; light brown to brown	SP	
	1-5'	24"	TMD-SO-089/7-8 Time: 1243	1.5-3' Sandy clay w/ some gravel and organics; moist; firm; brown to dark brown;	CL	
5				NO RECOVERY - PRESUMED SAME AS BELOW	NA	
	5-10'	36"	TMD-SO-089/7-8 Time: 1247	7-7.5' Sand (fine to coarse); moist; medium dense; light gray / Clay w/ some gravel; moist; soft; greenish brown	SM/CL	
				7.5-10' Clay w/ some sand and gravel; dry to moist; stiff; brown	CL	
10				10-11' Clay w/ some sand and gravel; dry to moist; stiff; brown	CL	
	5-10'	60"		11-15' Clay w/ some sand and gravel; dry to moist; soft to firm; gray	CL	
10						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-090

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : NW corner of manhole at intersection of Bon Brae Street and Court

ELEVATION : DRILLING CONTRACTOR: Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 5/13/2011

ATD WATER LEVEL : 5' bgs START : 1430 END : 1725 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME,USCS GROUP SYMBOL,COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and gravel		
			TMD-SO-090/1-2 Time: 1600			
	1-5'	36"	TMD-SO-090/2-3 Time: 1604	1-3.5' Sand (fine to medium); moist; medium density; light brown;	SP	
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5						Approximate Depth To Water
			TMD-SO-090/7.5-8.5 Time: 0950	5-7' Sand (fine to medium); wet; medium density; light brown;	SP	
	5-10'	24"				
10				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
	10-15'	0"				
15			TMD-SO-090/15-16 Time: 1640	15-16' Sand (fine to medium); wet; medium density; black;	SP	
	15-20	60"		16-20' Clay; moist; firm; gray; plastic; native	CL	
20						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-092

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Adjacent to SE corner of manhole at Bon Brae and B Street

ELEVATION : DRILLING CONTRACTOR : Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED DPT Date: 5/13/2011

ATD WATER LEVEL : 5' bgs START : 0900 END : 1140 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	USCS	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS
						PID Readings: Breathing Zone: Above Core:
	1-5'	28"		0-1' Concrete and gravel		8 previous attempts were made to locate the edge of the manhole structure.
						The first 6 feet were hand augered. The sample was collected via geoprobe from 6-15' bgs.
				1-6' Sand (fine to medium); moist to wet at 4.7'; medium dense; light brown;	SP	
			TMD-SO-092/4-5 Time: 1040			
5						Approximate Depth To Water
			TMD-SO-092/5-6 Time: 1043			
	5-10'	24"		6-9' Sand (fine to medium); wet; medium dense; light brown;	SP	
			TMD-SO-092/9-10 Time: 1048	9.5-10' Sand (fine to medium); wet; medium dense; light brown w/ black organics; 1" of clay at end;		
10				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
			TMD-SO-092/11-12 Time: 1054	11-11.4' Sand (fine to medium) w/ silt and clay; wet; medium to high density; brown	SW	
	10-15'	48"		11.4-15' Clay; firm; moist; gray to brown; plastic; native;	CL	
15						

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-093

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Adjoining manhole structure at Bon Brae and E Street to NW

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 5/13/2011

ATD WATER LEVEL : NA START : 1200 END : 1240 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and gravel		
			TMD-SO-093/1-2 Time: 1207			
	1-5'	24"	TMD-SO-093/2-3 Time: 1210	1-4.5' Sand (fine to medium); moist; medium dense; light brown	SP	
5				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
			TMD-SO-093/6-7 Time: 1212	5-7' Sand (fine to medium); moist; medium dense; light brown	SP	
	5-10'	24"				
10				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
	10-15'	30"				
			TMD-SO-093/13.5-14.5 Time: 1219	12.5-14.5' Sand (fine to medium) w/ gravel; moist; medium dense; light brown	SP	
15			TMD-SO-093/14.5-15 Time: 1222	14.5-15' Clay; moist; firm; gray; plastic; native	CL	

End of Boring

CH2MHILL

PROJECT NUMBER	BORING NUMBER
419470.FI.01	TMD-094

SOIL BORING LOG

PROJECT : Ten-Mile Drain - Source Area Investigation LOCATION : Beside storm drain on Bon Brae St. between Bon Brae Ct. and E St.

ELEVATION : DRILLING CONTRACTOR Coleman Engineering

DRILLING METHOD AND EQUIPMENT USED : DPT Date: 5/13/2011

ATD WATER LEVEL : 6' bgs START : 1300 END : 1455 LOGGER : G. Koster

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	SAMPLE #/TYPE	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	USCS	COMMENTS (DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. DRILLING ACTIONS/DRILLER COMMENTS)
						PID Readings: Breathing Zone: Above Core:
				0-1' Concrete and gravel		Third attempt at this location.
			TMD-SO-094/1-2 Time 1330			
	1-5'	30"	TMD-SO-094/2-3 Time 1335	1-3.5' Sand (fine to medium); moist; medium density; light brown	SP	
				NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
5			TMD-SO-094/5-6 Time 1410	5-6' Sand (fine to medium); moist; medium density; light brown	SP	Approximate Depth To Water
	5-10'	12"		NO RECOVERY - PRESUMED SAME AS ABOVE	NA	
10				10-13' Sand (fine to medium); moist; medium density; light brown	SP	
	10-15'	60"	TMD-SO-094/12-13 Time: 1426			
				13-15' Clay; moist; firm; gray; plastic; native	CL	
15			TMD-SO-094/14.5-15 Time: 1423			

End of Boring

Attachment F
2011 Sediment Investigation

Lange and Revere Street Canals
Sediment Sampling Report

Ten-Mile Drain Site
St. Clair Shores, MI

Prepared by:
FIELDS Program, US EPA, Region V
Linda Jacobson, Brennan Pierce, John Canar, and Chuck Roth
June 2012

TABLE OF CONTENTS

List of Acronyms and Abbreviations 3

I. Introduction 4

II. Sampling Methods 4

A. Ponar – Shallow Sediment 4

B. Core – Below the Surface Sediment 5

III. Analysis Methods 5

A. Sediment Thickness and Water Depth 5

B. Core Depth Intervals and Sediment Type 6

C. PCB Results 6

D. Interpolations and Mass/Volume Estimates 6

E. Comparisons between Depth Intervals 7

F. Statistical Evaluation of PCB Results and Sediment Clay Content 7

G. Comparison between Lange and Revere Street Canals 7

IV. Results 7

A. Sediment Thickness and Water Depth 7

B. Core Depth Intervals and Sediment Type 7

C. PCB Results 8

D. Interpolations and Mass/Volume Estimates 8

E. Statistical Evaluation of PCB Results and Sediment Clay Content 9

F. Comparison between Lange and Revere Street Canals 9

V. Discussion 9

List of Acronyms and Abbreviations

ANOVA	Analysis of Variance
FAST	FIELDS' Analysis and Sampling Tool
FIELDS	FIeld Environmental Decision Support
FIELDS Tools	FIeld Environmental Decision Support Software Tools for ArcGIS
GPS	Global Positioning System
PCB	Polychlorinated biphenyl

I. Introduction

The FIELDS Group conducted sediment sampling in the Lange and Revere Street canals from August 23 to September 1, 2011 as part of the Ten-Mile Drain, Superfund site, characterization activities. The sampling was performed to assess the extent of PCB contamination in the sediment of the Lange and Revere Street canals. This report summarizes the sampling and analysis methods, and results of the sampling. Statistical methods used in this report are described in detail in Appendix A and Appendix B.

The Ten-Mile Drain Site is located northeast of the City of Detroit on the western shores of Lake St. Clair in St. Clair Shores, Macomb County, Michigan (see Figure 1). The site is located in a mixed commercial/residential area near the intersection of Bon Brae Street and Harper Avenue. It includes a portion of the Ten-Mile Drain storm sewer system, which consists of concrete sewer pipes and soil surrounding the pipes in a utility corridor extending to approximately 15 feet below ground surface. The site covers several blocks where polychlorinated biphenyls (PCBs) have been found in the storm sewer system at levels as high as 200,000 milligrams per kilogram (parts per million). The PCBs migrate into the storm sewer, which discharges into the Lange and Revere Street canals which are connected to Lake St. Clair. The canals, which provide recreational boating access to Lake St. Clair for approximately 125 homes, are private property and are used for recreational boating, swimming, and fishing.

II. Sampling Methods

A. Ponar – Shallow Sediment

The first phase of sampling was the collection of surface sediment samples using a petite ponar in the Lange and Revere Street canals. The locations of the Lange and Revere Street canals are shown in Figure 2. A sample design of 100 sampling locations within the canals was created using the FIELDS Tools software in ArcGIS (see Figure 3). The sample design was a systematic aligned triangular grid based on a random start location with a distance of 46 feet between each proposed location. During the sampling event, each sample was taken as close as possible to the proposed sample locations. Some of the proposed locations were obstructed by boats or were very close to the seawall. In those cases, the sample was taken as close as possible to the proposed location without causing damage to other boats. The actual sample locations are also depicted on Figure 3.

In addition to the 100 proposed sample locations, five additional surface sediment samples were collected during the sample event. Two samples were located in the northwestern corner of the Lange Street canal near the storm water drain outlet labeled P300 and P301 (see Figure 3). Three sediment samples labeled P200, P201, and P202 were collected from the Lakecrest and Rio Vista Street canals since the former Martin Drain used to discharge into these canals (see Figure 4).

At each sample location the ponar was used to collect surficial sediment. The sediment from the ponar was placed in a metal bowl, excess water was decanted, and the sample was mixed thoroughly and placed in a Ziploc® bag. Each bag was labeled with the sample identification

number (e.g., P001), date and time, and photographed. A probe marked at half foot intervals was driven into the sediment at each location until "refusal" (a hard bottom was reached or the pipe could not be pushed any farther). The water depth and total depth to refusal were recorded in FAST, a data management software program developed by the FIELDS Group and used to collect real time data continuously in the field. An estimate of sediment thickness was later calculated by subtracting water depth from total depth to refusal. As each sample was taken, a Trimble ProXR GPS unit connected to a laptop running the FAST software recorded the geographic location. The sample identification number and description of each sediment sample was entered into the FAST software program at each sample location.

B. Core – Below the Surface Sediment

The second phase of the sediment sampling consisted of collecting sediment cores below the surface sediment in the Lange and Revere Street canals. The sediment core sampling was done in two stages with 29 cores collected in the first stage and 12 collected in the second stage.

In stage one, a sample design was created based on the sediment thicknesses obtained during the ponar shallow sampling event. Polygons were created in ArcGIS around areas having a sediment thickness of two feet or more. The FIELDS Tools software in ArcGIS was then used to create a systematic aligned triangular grid sampling design within each polygon (see Figure 5). If a proposed sampling location was obstructed by a boat or the seawall, the actual sediment core samples were taken as close as possible to the proposed locations.

Stage two core sample locations were determined in the field; therefore, a proposed sample design was not created beforehand. Stage two consisted of collecting additional sediment cores at locations to spatially fill in areas where cores had not been taken during stage one and in areas with elevated surface PCB results from the shallow sediment sampling event. These locations are also shown in Figure 5.

The sediment cores were collected with Lexan® tubes attached to a vibracore device. Each Lexan® tube was cut at intervals of 0 to 6 inches, 6 to 12 inches, 12 to 24 inches, and subsequent one-foot intervals to the bottom of the tube (five feet total length). The sediment sample for each interval was placed in a metal bowl, mixed thoroughly, and placed in a Ziploc® bag. Each bag was labeled with the sample identification number and depth interval (e.g., C001_0_6), date and time, and photographed. The geographic location for each core was recorded with a Trimble ProXR GPS unit connected to a laptop running the FAST software. The sample identification number and a description of the sediment for each sample were also entered into FAST at each sample location.

III. Analysis Methods

A. Sediment Thickness and Water Depth

Sediment thickness and water depth were estimated in the Lange and Revere Street canals using both the inverse distance weighting and natural neighbor interpolation methods. The interpolations were performed on depth measurements taken with each ponar sample. The

inverse distance weighting takes into account the distance between points and assumes that the influence of each point diminishes with increasing distance. With the natural neighbor interpolation, nearby points are weighted based on a shared geometric boundary between points. Since the interpolation results were very similar, the more conservative inverse distance weighting interpolation results are shown in this document.

B. Core Depth Intervals and Sediment Type

A distribution and a map of core depth intervals were created to show how many cores were sampled at each depth interval. The sediment type throughout the canals was displayed on cross sections. Sediment type (based on visual observations) was classified as sand, silt, clay, silt and clay in a mixture, and sand and silt or sand, silt, and clay in a mixture.

C. PCB Results

The sediment samples were analyzed onsite for PCBs by the US EPA Mobile Laboratory (ML) on a wet weight basis in order to allow for a faster analytical turn-around. Additionally, each of these samples was submitted to the Region 5 Central Regional Laboratory (CRL) for percent solids measurement. The percent solids values were used to adjust the wet weight PCB values to dry weight. The dry weight PCBs values are used for all maps and analyses in this document. Ten percent of the sediment samples were also analyzed for PCBs on a dry weight basis by CRL as a quality control on the ML results. Both laboratories analyzed for aroclors 1016, 1232, 1242, 1248, 1254, and 1260. The PCB results from the ML and CRL were compared using simple linear regression. (See Appendix B for a more complete discussion.)

The maps and analyses in this report depict the PCB concentrations as the sum of all detected aroclors in a sample from the ML results.

D. Interpolations and Mass/Volume Estimates

Inverse distance weighting and natural neighbor interpolations of PCB concentrations were created for the 0 to 6 inch depth interval using ponar and core results combined. Inverse distance weighting and natural neighbor interpolations of PCB concentrations were also created based on core results for the depth intervals 6 to 12, 12 to 24, 24 to 36, 36 to 48, and 48 to 60 inches. Since the inverse distance weighting and natural neighbor interpolations were similar, the inverse distance weighting interpolations are displayed in the maps in this document to show the most conservative results.

The mass of PCBs and volume of sediment containing PCBs were estimated from both the inverse distance weighting and natural neighbor interpolations at each depth interval using the FIELDS Tools for ArcGIS. For samples without any detected aroclor results, half the reporting limit of one of the aroclors (all aroclors within a sample had the same reporting limit) was used as the PCB concentration for the sample. A density value of 2500 lb/yd^3 was used in estimating the mass.

E. Comparisons between Depth Intervals

PCB concentrations were compared by depth interval using a one-way ANOVA statistical test. (See Appendix A for a more complete discussion.)

F. Statistical Evaluation of PCB Results and Sediment Clay Content

The one-way ANOVA test was used to determine if there was a difference between PCB concentrations and the presence or absence of clay in the sediment. Sediment was classified as either containing all clay, majority clay, any clay, or no clay. (See Appendix A for a more complete discussion.)

G. Comparison between Lange and Revere Street Canals

PCB concentrations in the Lange and Revere Street canals were compared using a one-way ANOVA test. (See Appendix A for a more complete discussion.)

IV. Results

A. Sediment Thickness and Water Depth

The inverse distance weighting interpolation resulted in a range of 0.3 to 9.5 feet of sediment thickness (the measured sediment thicknesses ranged from 0.25 to 9.5 feet) with the thickest sediment located in the central and eastern portions of both the Lange and Revere Street canals (see Figure 6). The natural neighbor interpolation gave a similar distribution of sediment thickness.

The inverse distance weighting interpolation showed a water depth range of 4.3 to 12.2 feet (the measured water depth ranged from 4.25 to 12.25 feet) with the greatest water depths located mostly in the Lange Street canal (see Figure 7). The natural neighbor interpolation gave a similar spatial pattern of water depths.

B. Core Depth Intervals and Sediment Type

All 41 cores had sediment in the 0 to 6, 6 to 12, and 12 to 24 inch intervals, 24 cores had sediment in the 24 to 36 inch interval, 15 cores had sediment in the 36 to 48 inch intervals, and 6 cores had sediment in the 48 to 60 inch interval with the deepest 3 cores reaching to 56 inches (see Figure 8). The cores with the deepest sediment were located predominantly in the central part of the Lange and Revere Street canals. The sample core depths corresponded with the sediment thickness interpolations with deeper cores taken in areas with the larger sediment thickness and shorter cores taken in areas with smaller sediment thickness.

Sediment types in the Lange and Revere Street canals are shown in Figures 9, 10, and 11. Silt was the most common sediment type at the sediment surface. Below the silt, there was predominantly a mixture of silt and clay followed by a layer of clay. In the eastern end of the Lange and Revere Street canals, a mixture of sand and silt and sand, silt, and clay was present.

In the Lange Street canal in the eastern end next to Lake St. Clair, the sediment was entirely sand.

C. PCB Results

The confirmation analysis comparing the ML and CRL total PCB values showed the two laboratories gave slightly different results. (See Appendix A for a more complete discussion of the statistical methods used and the results found.) Simple linear regression was used to quantify the relationship between the ML and CRL total PCB values. Using the best linear fit equation for the relationship between ML and CRL total PCB values, a ML total PCB value of 2 ppm is equivalent to an adjusted total PCB value of 3.44 ppm. For 20 ppm, the adjusted value would be 35.7 ppm, and for 100 ppm, the adjusted value would be 183.2 ppm. (See Appendix B for a more complete discussion of the findings from linear regression.)

Of the 270 samples taken in the Lange and Revere Street canals (including all ponar and core samples) and analyzed by the ML, aroclor 1016 was detected in 221 samples, aroclor 1248 was detected in 5 samples, and aroclor 1260 was detected in 25 samples. Aroclors 1232, 1242, and 1254 were not detected in any of the samples (see Figure 12). Since the majority of the aroclors detected were aroclor 1016 and the highest aroclor concentrations were aroclor 1016, maps depicting PCB concentrations are presented as total PCBs rather than separated by aroclor.

Ponar and core PCB results representing the top 6 inches of sediment are depicted on Figure 13. The highest PCB concentrations were located in the western portion of the Lange and Revere Street canals. The PCBs were not detected in the three additional ponars located in the Lakecrest and Rio Vista Street canals (see Figure 14).

The PCB concentrations for the cores from 6 to 12, 12 to 24, 24 to 36, 36 to 48, and 48 to 60 inches are shown in Figures 15 to 19. The PCB concentrations decreased with depth in most of the cores.

Figure 20 shows the ponar and core PCB results in the dredged and undredged areas of the Lange and Revere Street canals. (Dredging was performed in 2003.) The one-way ANOVA statistical method found a significantly greater PCB concentration inside than outside the previously dredged area indicating the PCBs have been re-deposited into the Lange and Revere Street canals since the dredging occurred. (See Appendix A for a more complete discussion of the statistical methods used and the results found.)

D. Interpolations and Mass/Volume Estimates

Within each depth interval, the inverse distance weighting and natural neighbor interpolations gave very similar spatial distributions of PCBs throughout the canal. Figures 21 through 26 show the inverse distance weighting interpolation results. Overall, the concentration of PCBs was highest in the western portion of the canal near the storm water drain outlet for each depth interval.

PCB mass was calculated for each depth interval using the inverse distance weighted and natural neighbor interpolations. A density value of 2500 lb/yd^3 was used in estimating the mass. The mass of PCBs was greatest in the top 6 inches of sediment (see Table 1). Using the inverse distance weighting interpolation, the mass of PCBs in the top 6 inches of sediment was 62% of the total PCB mass in the canal sediments. In the 6 to 12 inches depth interval, the mass of PCBs was 29% of the total. Each of the depth intervals between 12 to 60 inches contained 7% or less of the total PCB mass.

E. Statistical Evaluation of PCB Results and Sediment Clay Content

The one-way ANOVA statistical method showed there was a significantly lower PCB concentration in sediment containing clay (any clay, majority clay, or all clay) than sediment containing no clay. (See Appendix A for a more complete discussion of the statistical methods used and the results found.)

F. Comparison between Lange and Revere Street Canals

The one-way ANOVA statistical method showed the Lange Street canal sediment had a significantly greater PCB concentration than the Revere Street canal sediment. (See Appendix A for a more complete discussion of the statistical methods used and the results found.)

V. Discussion

Based on the findings of the 2011 Lange and Revere Street canals sediment sampling event, the highest PCB concentrations are located near the Ten-Mile Drain outfall. Overall, PCB concentrations decrease with depth and distance from the outfall. PCB concentrations are significantly lower in the deeper sediment, usually clay, than the surficial sediment, usually silt. The highest PCB concentrations on the western ends of the canals during the 2011 sediment sampling event likely indicates that PCBs have continued to discharge out of the Ten-Mile Drain outfall into the canals.

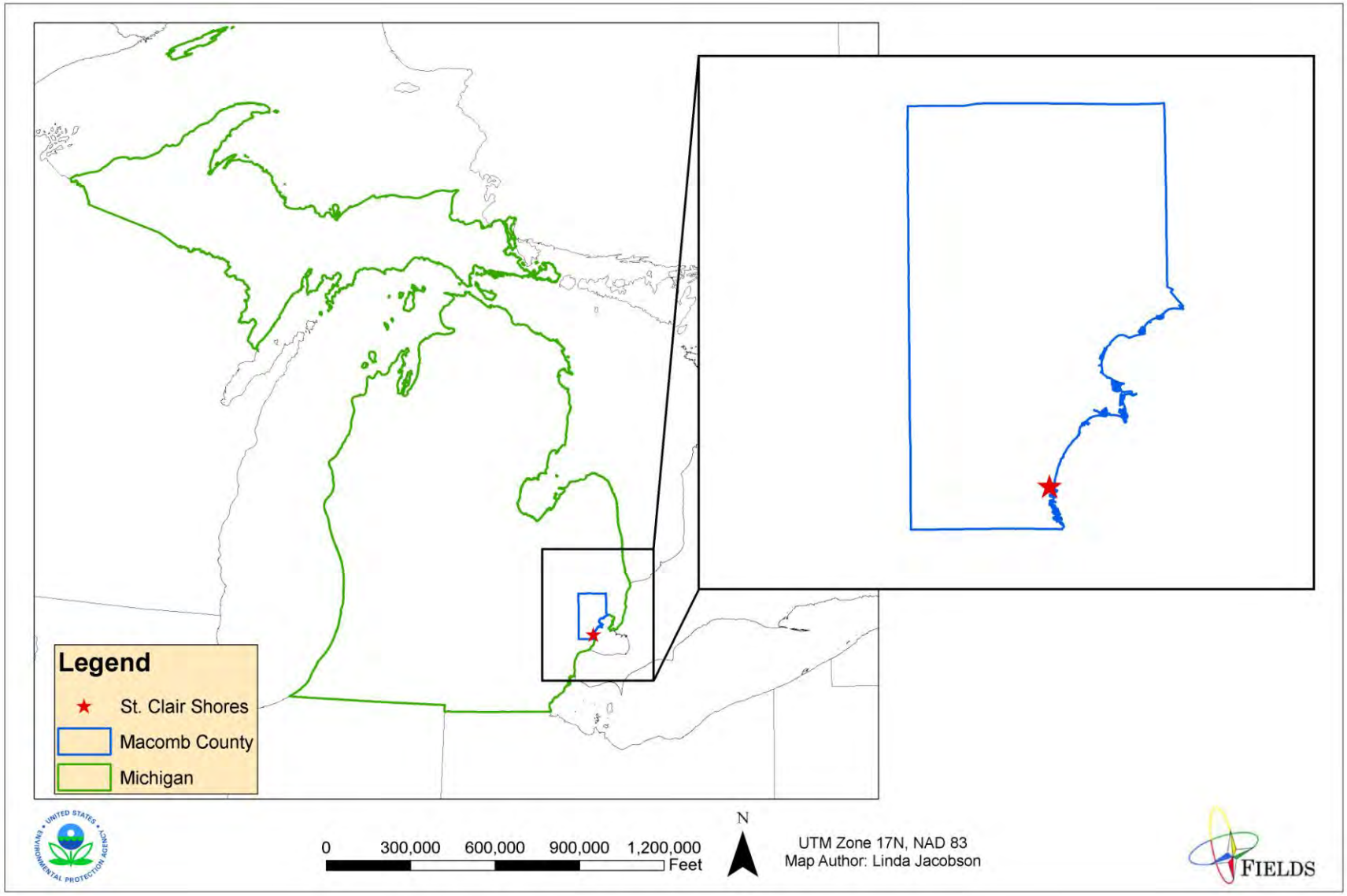


Figure 1: Location of St. Clair Shores in Macomb County, Michigan

Figure 2: Location of the Lange and Revere Street canals and surrounding streets

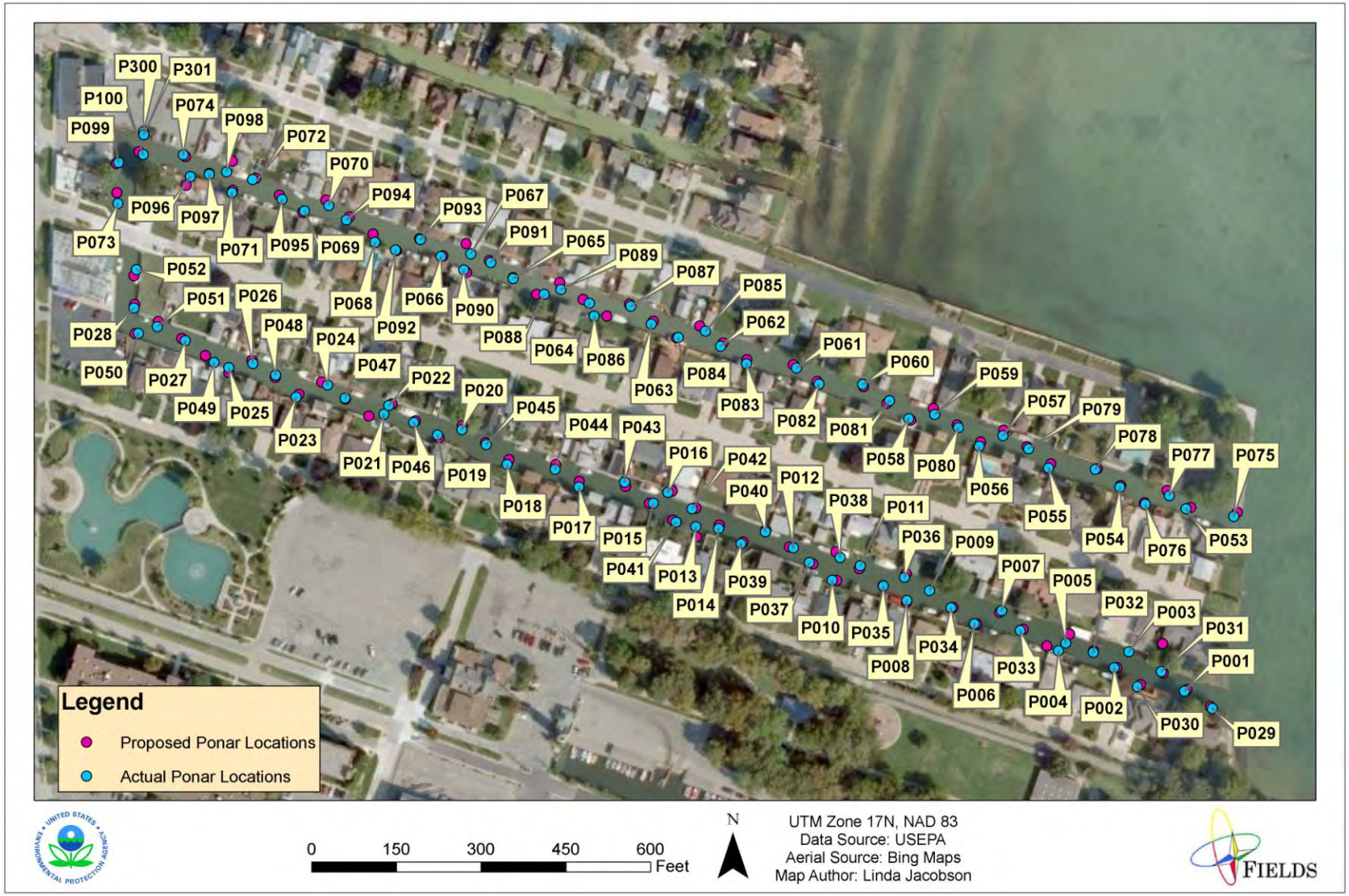


Figure 3: Proposed and actual ponar sample locations

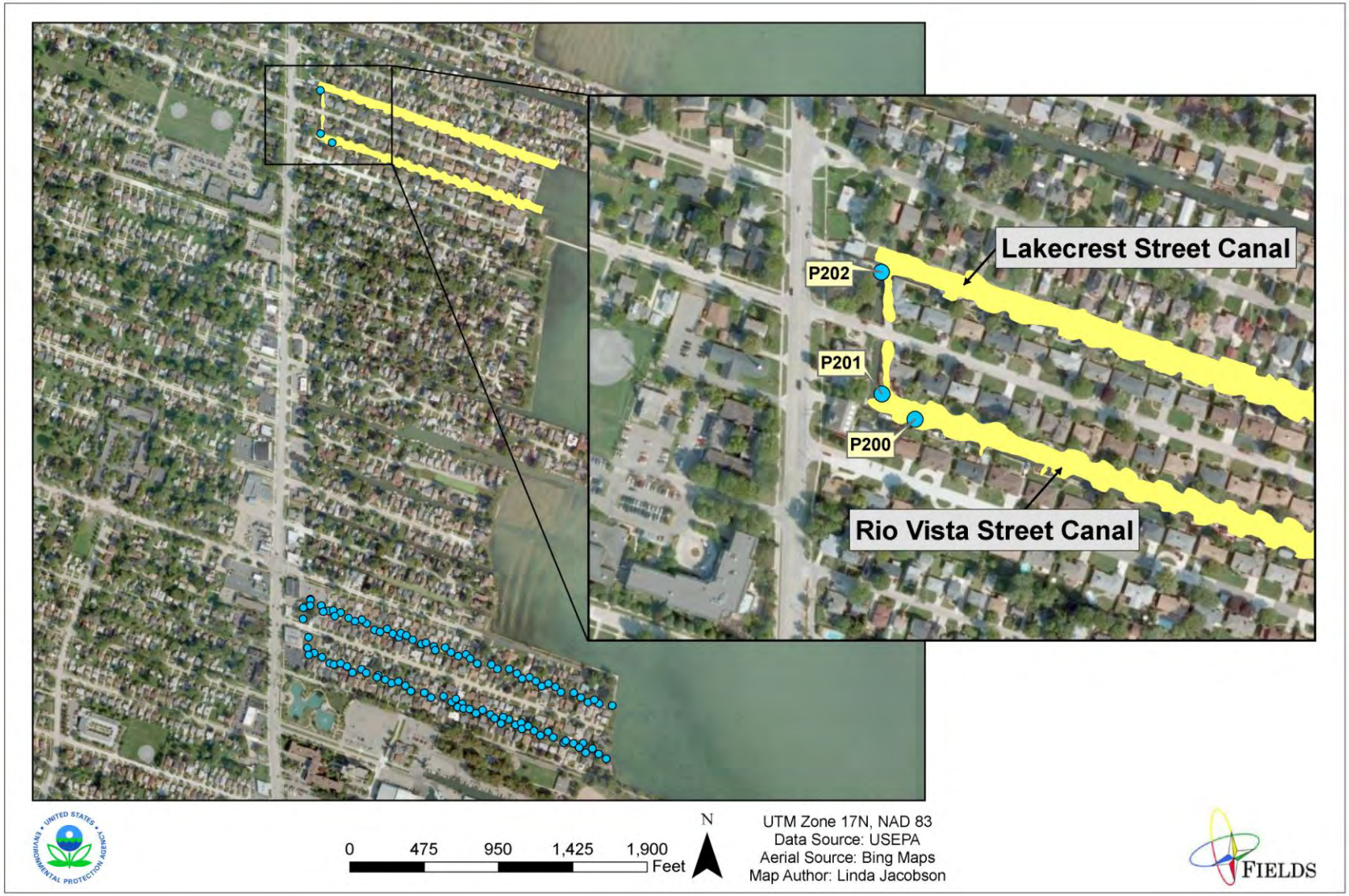


Figure 4: Additional ponar sample locations

Figure 5: Proposed and actual core sample locations

Figure 6: Inverse distance weighting interpolation of sediment thickness from measurement taken at ponar locations

Figure 7: Inverse distance weighting interpolation of water depth from measurement taken at ponar locations

Figure 8: Core sample depth intervals

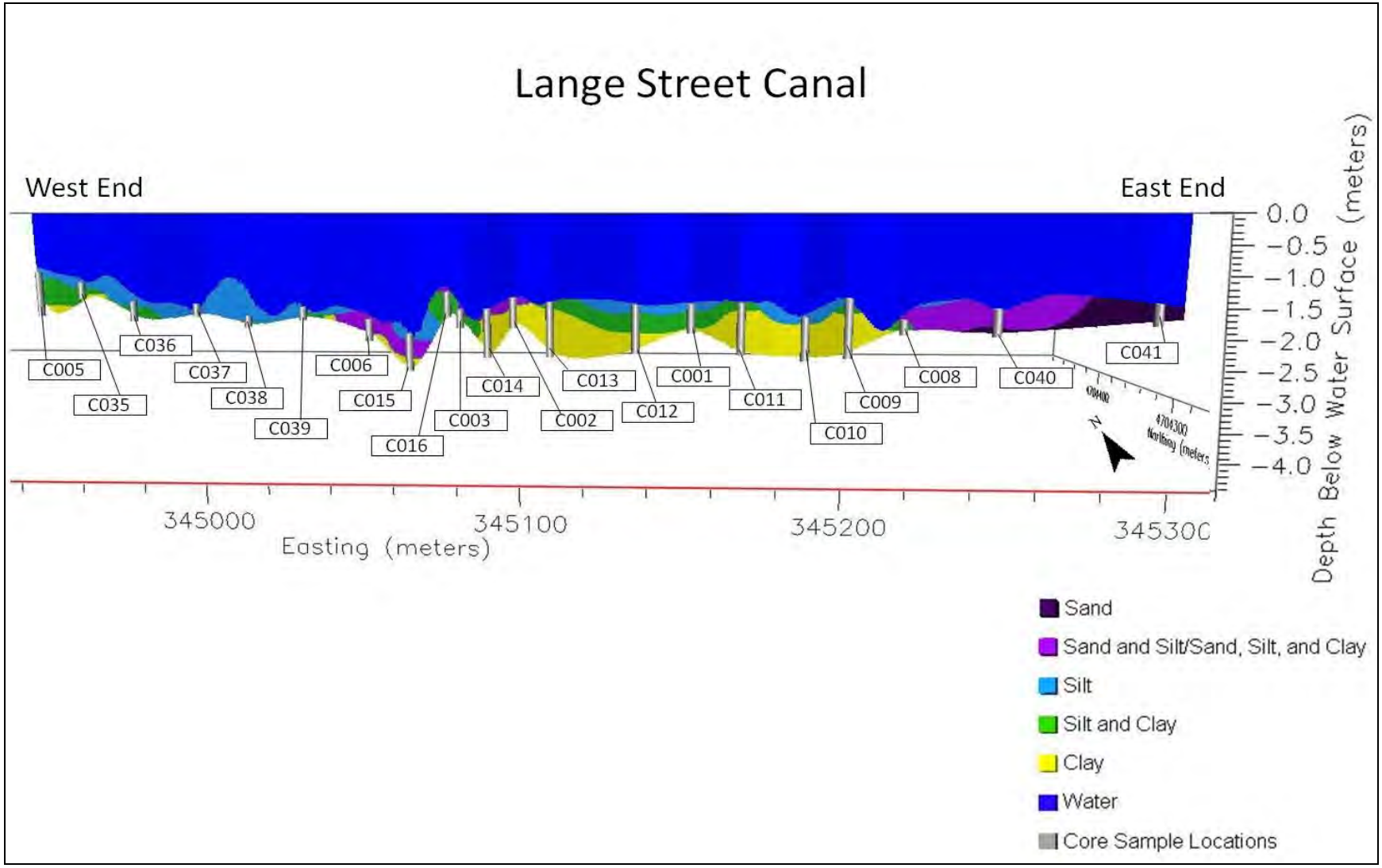


Figure 9: Cross section of sediment type from core samples in the Lange Street canal

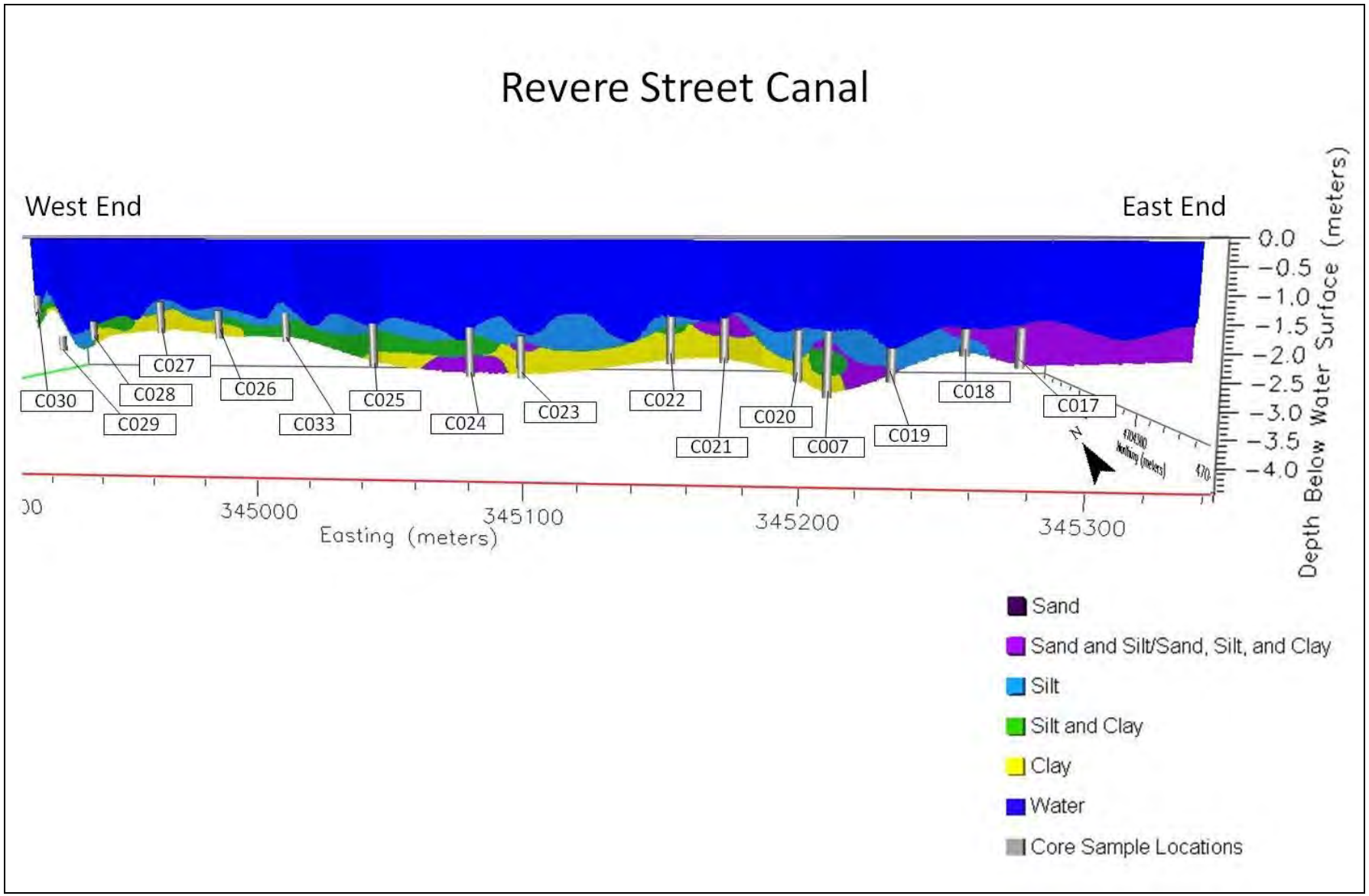


Figure 10: Cross section of sediment type from core samples in the Revere Street canal

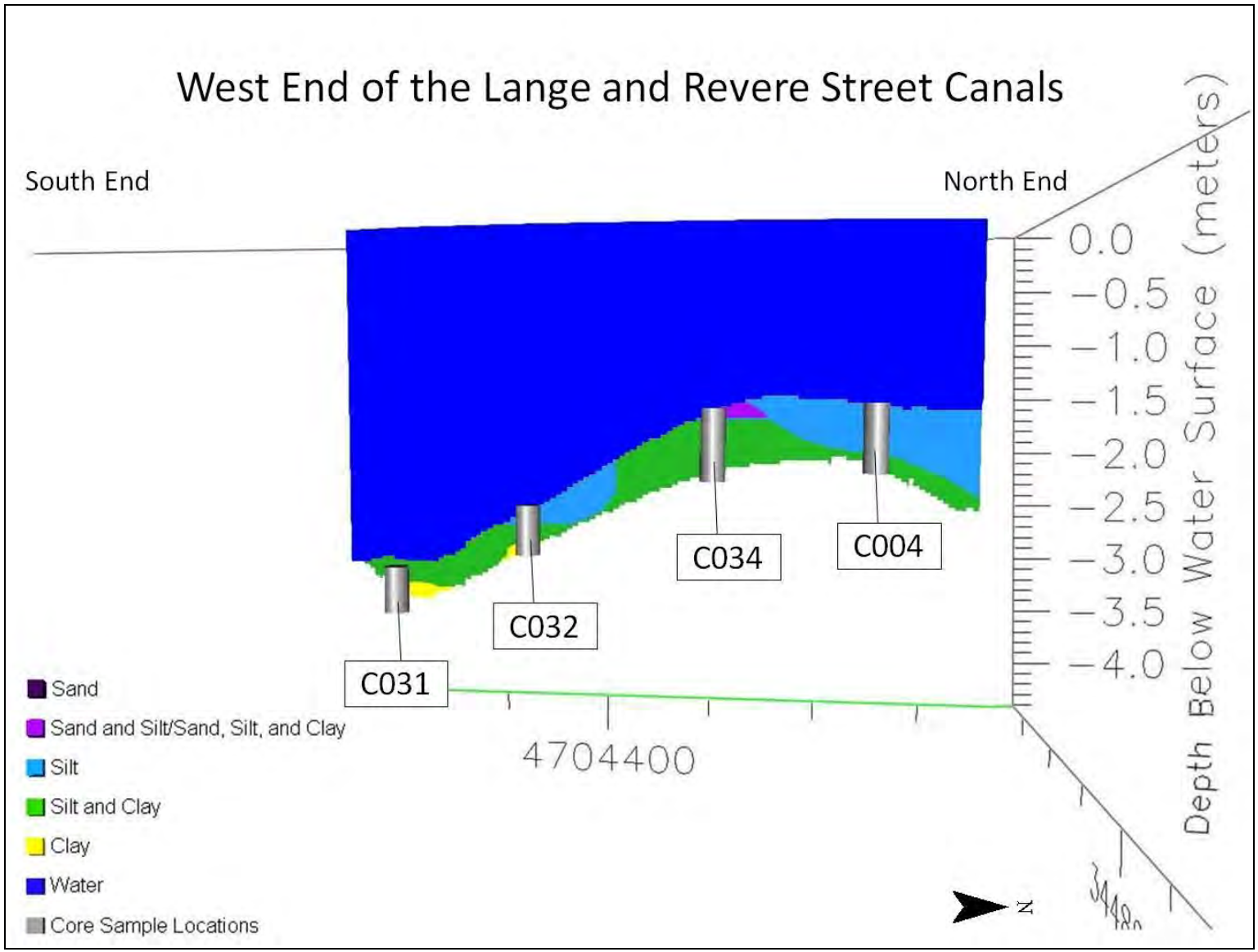


Figure 11: Cross section of sediment type from core samples in the west end of the Lange and Revere Street canals

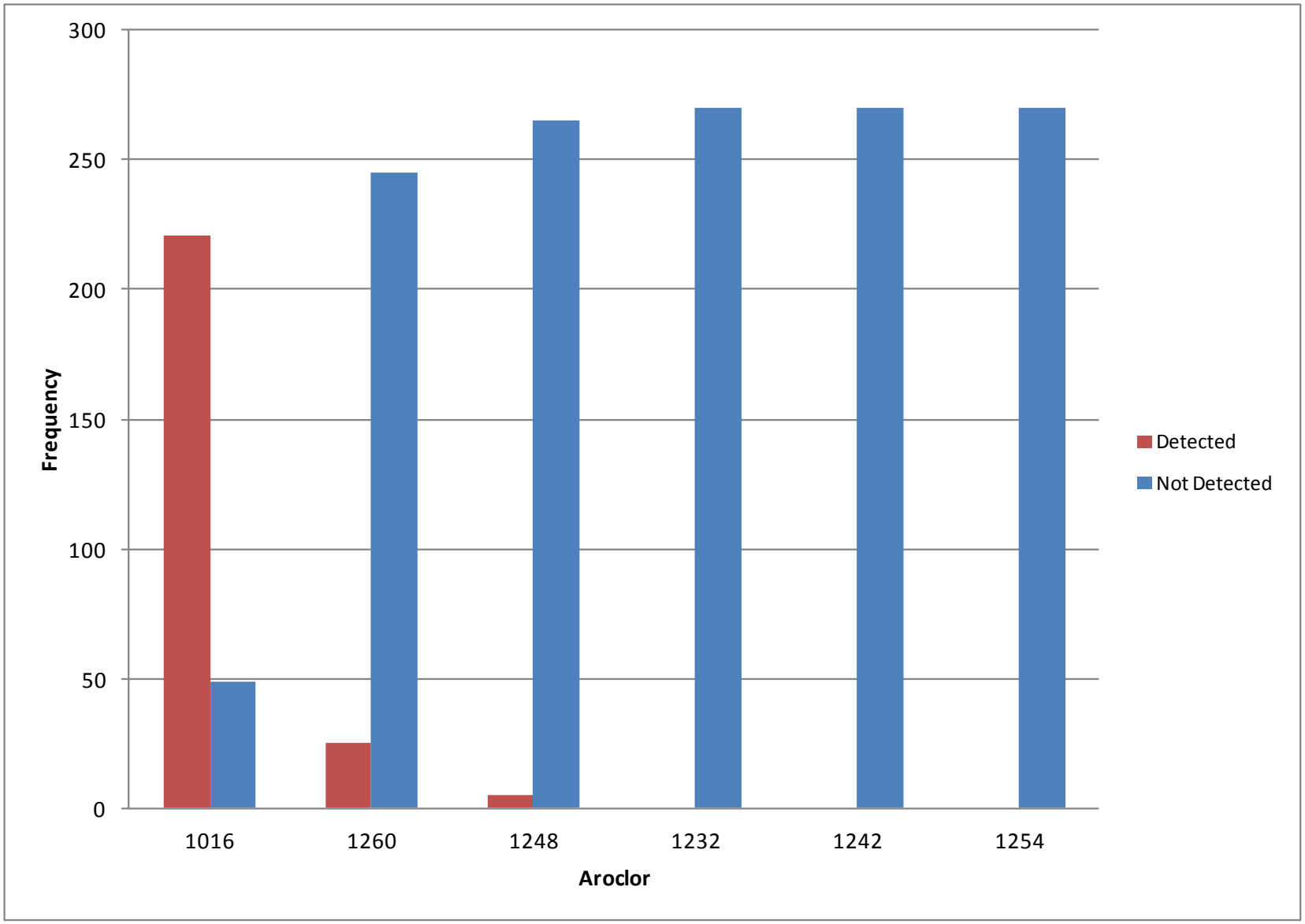


Figure 12: Frequency of detected and not detected aroclors for all samples

Figure 13: Ponar and core PCB results for depth of 0 to 6 inches

Figure 14: Ponar PCB results in Lakecrest and Rio Vista Street canals for depth of 0 to 6 inches

Figure 15: Core PCB results for depth of 6 to 12 inches

Figure 16: Core PCB results for depth of 12 to 24 inches

Figure 17: Core PCB results for depth of 24 to 36 inches

Figure 18: Core PCB results for depth of 36 to 48 inches

Figure 19: Core PCB results for depth of 48 to 60 inches

Figure 20: Ponar and core PCB results for depth of 0 to 6 inches and previously dredged area

Figure 21: Inverse distance weighting interpolation of ponar and core PCBs for depth of 0 to 6 inches

Figure 22: Inverse distance weighting interpolation of core PCBs for depth of 6 to 12 inches

Figure 23: Inverse distance weighting interpolation of core PCBs for depth of 12 to 24 inches

Figure 24: Inverse distance weighting interpolation of core PCBs for depth of 24 to 36 inches

Figure 25: Inverse distance weighting interpolation of core PCBs for depth of 36 to 48 inches

Figure 26: Inverse distance weighting interpolation of core PCBs for depth of 48 to 60 inches

Depth Interval	Sample	Volume (yd^3)	Mass (lb)	Percent of Total Mass of PCBs
0 to 6 inches	Ponars and Cores	3,855	327	62%
6 to 12 inches	Cores Only	3,653	155	29%
12 to 24 inches	Cores Only	4,369	37	7%
24 to 36 inches	Cores Only	1,930	11	2%
36 to 48 inches	Cores Only	963	1.08	0.2%
48 to 60 inches	Cores Only	396	0.34	0.06%
Totals		15,166	531	

Table 1: Mass and volume estimates and percent of total mass of PCBs in each depth interval

Lange and Revere Street Canals
Appendix A of
Sediment Sampling Report

Ten-Mile Drain Site
St. Clair Shores, MI

Prepared by:
FIELDS Program, US EPA, Region V
Linda Jacobson, Brennan Pierce, John Canar, and Chuck Roth
June 2012

TABLE OF CONTENTS

I. Introduction 3

II. Analysis Methods 3

A. Paired Comparisons of PCBs 3

B. Comparison between Dredged and Non-Dredged Areas 3

C. Comparisons between Depth Intervals 3

D. Statistical Evaluation of PCB Results and Sediment Clay Content 3

E. Cumulative Distribution Functions 4

F. Comparison between Lange and Revere Street Canals 4

III. Results and Discussion 4

A. Paired Comparisons of PCBs 4

B. Comparison between Dredged and Non-Dredged Areas 4

C. Comparisons between Depth Intervals 4

D. Statistical Evaluation of PCB Results and Sediment Clay Content 5

E. Cumulative Distribution Functions 5

F. Comparison between Lange and Revere Street Canals 5

IV. References 6

I. Introduction

The FIELDS Group conducted sediment sampling in the Lange and Revere Street canals in St. Clair Shores, Michigan from August 23 through September 1, 2011. The sampling was performed to assess the extent of PCB contamination in the sediment of the Lange and Revere Street canals. This appendix provides a more complete discussion of the statistical methods employed and results found that were reported in "Lange and Revere Street Canals Sediment Sampling Report".

II. Analysis Methods

A. Paired Comparisons of PCBs

The total PCBs measured in samples by the Mobile Laboratory (ML) and Central Regional Laboratory (CRL) were compared using the Wilcoxon signed rank sum test, which is a non-parametric test that compares the difference between two paired variables. The difference between the CRL and ML in total PCBs for each sample was calculated, and the Wilcoxon signed rank sum test was used because the differences were not normally distributed.

B. Comparison between Dredged and Non-Dredged Areas

One-way ANOVA was used on both the ponar and core rank-transformed PCB data to determine a difference in PCB concentrations from 0 to 6 inches inside and outside the previously dredged area of the Lange and Revere Street canals. For the statistical analysis, the ponar and core PCB data were given ranked values since the untransformed and natural log transformed data did not meet the assumption of normality. Ranks from 1 to 143 were assigned to each sample by sorting the PCB values from low to high with the lowest PCB value receiving a 1 and the highest 143. Welch's ANOVA was used since the assumption of homogeneity of variances was violated (a p-value of less than 0.05 for Levene's test). The general linear model (GLM) procedure in the statistical software SAS was used.

C. Comparisons between Depth Intervals

PCB concentrations were compared by depth interval using one-way ANOVA on both the ponar and core rank-transformed PCB values, using the general linear model (GLM) procedure in SAS. The Least Squares Means Tukey-Kramer Multiple Comparisons test was used to determine differences in mean ranked PCB concentration between depth intervals. The Least Squares Means Tukey-Kramer Multiple Comparisons test was selected because it accommodates unequal sample sizes and is the most robust test for pairwise comparisons (SAS, 2011). The ANOVA and multiple comparisons test were performed on ranked PCB data since the untransformed and natural log transformed PCB data were not normally distributed.

D. Statistical Evaluation of PCB Results and Sediment Clay Content

One-way ANOVA was used on both the ponar and core rank-transformed PCB data to determine a difference between mean PCB concentrations and the presence or absence of clay in the

sediment. Sediment was classified as either containing all clay, majority clay, any clay, or no clay. Welch's ANOVA was used when the assumption of homogeneity of variances was violated (a p-value of less than 0.05 for Levene's test). The ANOVA test was performed on ranked PCB data since the untransformed and natural log transformed PCB data were not normally distributed. The general linear model (GLM) procedure in SAS was used.

E. Cumulative Distribution Functions

Cumulative distribution functions were created for each depth interval and all depths to show the percent of ponar and core samples that had a PCB concentration above 50 ppm, the limit set by the Toxic Substance Control Act (TSCA) for the maximum PCB concentration of sediment.

F. Comparison between Lange and Revere Street Canals

Ponar and core mean rank-transformed PCB concentrations in the Lange and Revere Street canals were compared using one-way ANOVA, and Welch's ANOVA was used since the assumption of homogeneity of variances was violated (a p-value of less than 0.05 for Levene's test). The ANOVA test was performed on ranked PCB data since the untransformed and natural log transformed PCB data were not normally distributed. The general linear model (GLM) procedure in SAS was used.

III. Results and Discussion

A. Paired Comparisons of PCBs

Boxplots and descriptive statistics of total PCB concentrations in the ML and CRL are shown in Figures A-1 and A-2. The Wilcoxon signed rank sum test indicates that there was a significant difference in total PCB concentrations between the ML and CRL (see the p-value for the Signed Rank Test, "S", in Figure A-3).

B. Comparison between Dredged and Non-Dredged Areas

Boxplots and descriptive statistics of PCB concentrations from 0 to 6 inches inside and outside the previously dredged area are shown in Figures A-4 and A-5. Welch's ANOVA indicates that there was a significant difference in ponar and core mean rank-transformed PCB concentrations from 0 to 6 inches inside and outside the dredged area with the dredged area having a significantly greater mean PCB concentration (see Figure A-6).

C. Comparisons between Depth Intervals

Boxplots and descriptive statistics of PCB concentrations in each depth interval are shown in Figures A-7 and A-8. The one-way ANOVA comparing mean rank-transformed PCB concentrations between depth intervals indicates that there was a significant difference in mean PCB concentration between at least two depth intervals (see the F-value for the Type III SS, the unbalanced case, in Figure A-9). According to the Least Squares Means Tukey-Kramer test of differences (see Figure A-10), the mean PCB concentration in depth intervals 12 to 24, 24 to 36,

36 to 48, and 48 to 60 were not significantly different from each other. The mean PCB concentration in depth intervals 0 to 6 and 6 to 12 and 6 to 12, 12 to 24, and 48 to 60 also were not significantly different from each other. Depth interval 0 to 6 had a significantly greater mean PCB concentration than depth intervals 12 to 24, 24 to 36, 36 to 48, and 48 to 60. Depth interval 6 to 12 also had a significantly greater mean PCB concentration than depth interval 24 to 36 and 36 to 48.

D. Statistical Evaluation of PCB Results and Sediment Clay Content

Boxplots and descriptive statistics of PCB concentrations for the presence and absence of clay in sediment classified as containing either all clay, majority clay, any clay, or no clay are shown in Figures A-11, A-12, A-14, A-15, A-17, and A-18. Welch's ANOVA indicates that there was a significant difference in mean rank-transformed PCB concentration between sediment containing all clay and no clay with sediment containing no clay having a significantly greater mean PCB concentration than sediment containing all clay (see Figure A-13).

The one-way ANOVA shows there was a significant difference in mean rank-transformed PCB concentrations between sediment containing majority clay and no clay with sediment containing no clay having a significantly greater mean PCB concentration than sediment containing majority clay (see Figure A-16).

The one-way ANOVA also shows there was a significant difference in mean rank-transformed PCB concentrations between sediment containing any clay and no clay with sediment containing no clay having a significantly greater mean PCB concentration than sediment containing any clay (see Figure A-19).

E. Cumulative Distribution Functions

Cumulative distribution functions for all depths and depth intervals 0 to 6, 6 to 12, 12 to 24, 24 to 36, 36 to 48, and 48 to 60 inches are shown in Figures A-20 through A-26, respectively. Of all the ponar and core samples taken at all depths, 10% were above 50 ppm. In the 0 to 6 inch depth interval 16.08% were above 50 ppm, and in the 6 to 12 inch depth interval 9.76% were above 50 ppm. In the 12 to 24, 24 to 36, 36 to 48, and 48 to 60 inches depth intervals, no samples were above 50 ppm.

F. Comparison between Lange and Revere Street Canals

Boxplots and descriptive statistics of PCB concentrations in the Lange and Revere Street canals are shown in Figures A-27 and A-28. Welch's ANOVA indicates that there was a significant difference in mean rank-transformed PCB concentrations between the Lange and Revere Street canals with the Lange Street canal sediment having a significantly greater mean PCB concentration than the Revere Street canal sediment (Figure A-29).

IV. References

SAS Institute Inc., SAS/STAT® User's Guide, Version 9.2, Cary, NC: SAS Institute Inc., 2011. (The GLM Procedure, Multiple Comparisons)

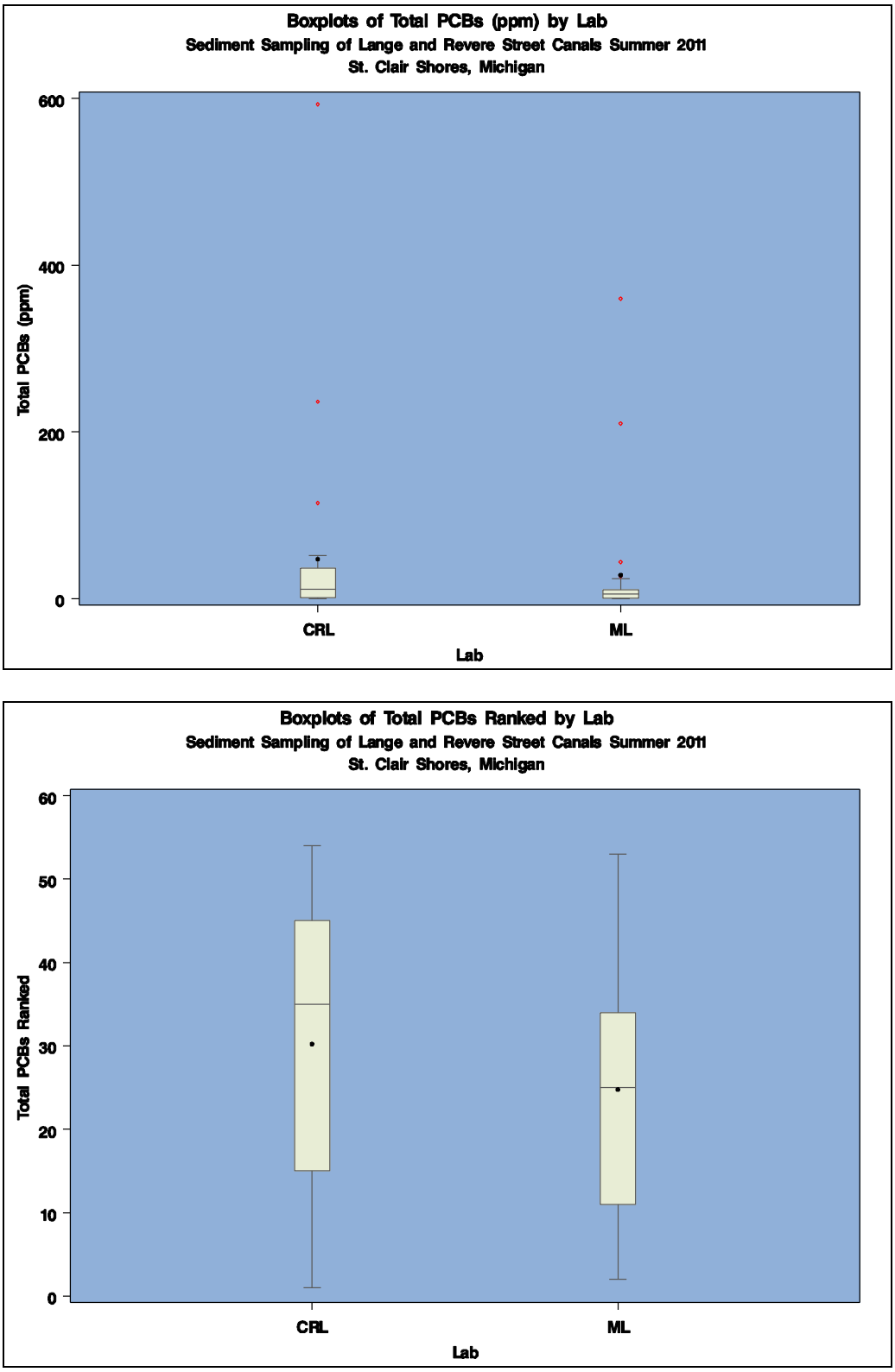


Figure A-1: Boxplots of total PCB results from the ML and CRL (untransformed PCB data top graph, rank-transformed PCB data bottom graph; red diamonds are extreme values, blue circle is the mean, and middle horizontal line is the median)

Analysis Variable : Total_PCB_ppm Total PCBs (ppm)									
Lab	N Obs	N	Mean	Median	Std Dev	Minimum	Maximum	Range	Coeff of Variation
CRL	27	27	47.48	11.44	119.31	0.05	593.10	593.05	251.25
ML	27	27	28.38	5.80	77.46	0.16	360.00	359.85	272.94

Figure A-2: Descriptive statistics of untransformed total PCB results from the ML and CRL

Tests for Location: Mu0=0				
Signed Rank	S	117	Pr >= |S|	0.0030

Figure A-3: Wilcoxon signed rank sum test on differences between the CRL and ML total PCB results

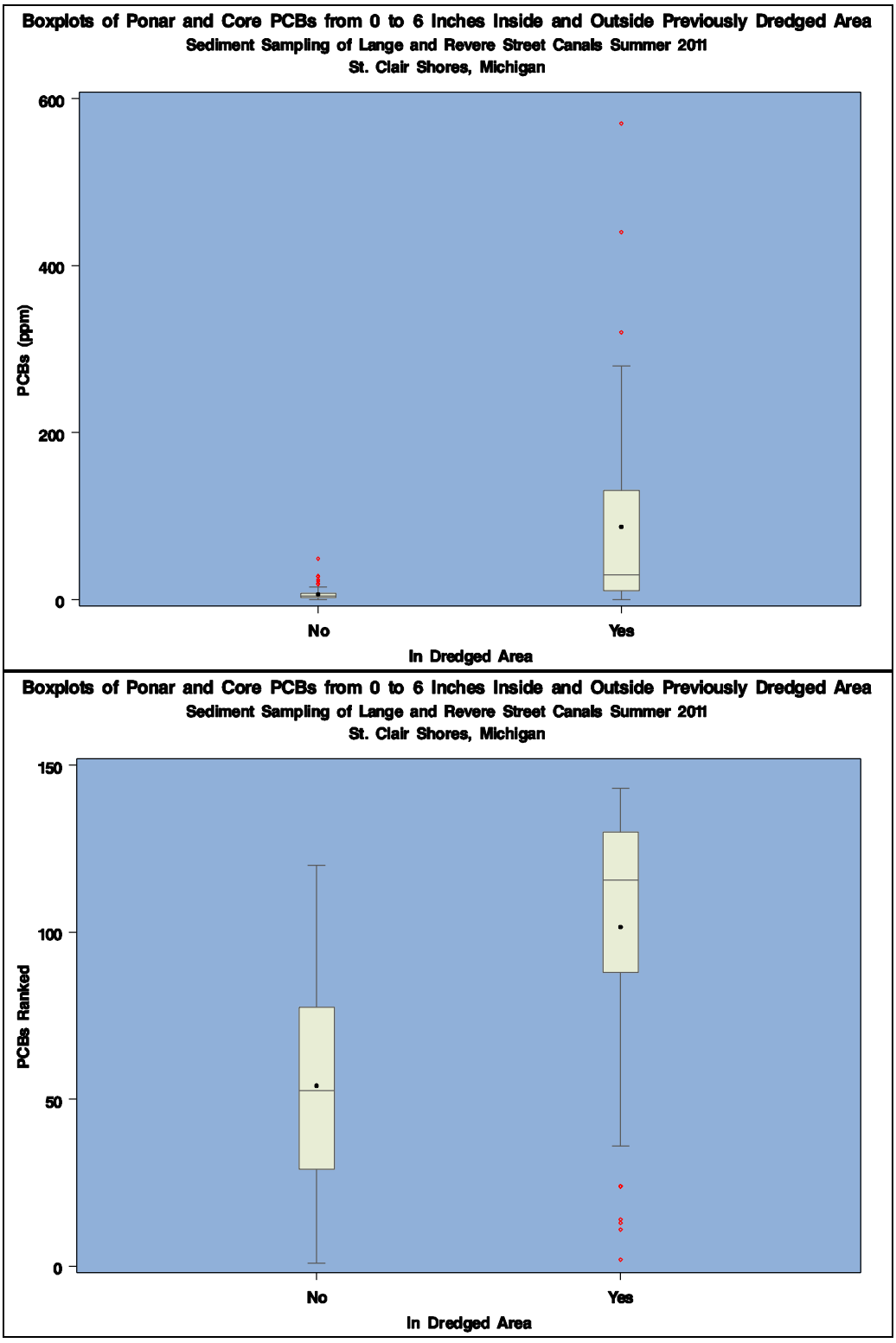


Figure A-4: Boxplots of ponar and core PCB results from 0 to 6 inches inside and outside the previously dredged area (untransformed PCB data top graph, rank-transformed PCB data bottom graph; red diamonds are extreme values, blue circle is the mean, and middle horizontal line is the median)

Analysis Variable : PCBs_ppm PCBs (ppm)								
In Dredged Area	N Obs	N	Mean	Median	Minimum	Maximum	Std Dev	Coeff of Variation
No	89	89	6.50	4.10	0.11	49.00	7.49	115.22
Yes	54	54	87.28	29.50	0.15	570.00	117.46	134.58

Figure A-5: Descriptive statistics of ponar and core untransformed PCB results inside and outside the previously dredged area

Welch's ANOVA for PCBs_ranked			
Source	DF	F Value	Pr > F
In_Dredged_Area	1.0000	56.73	<.0001
Error	92.4201		

Figure A-6: Welch's ANOVA test of significant differences of ponar and core mean rank-transformed PCB concentrations inside and outside the previously dredged area

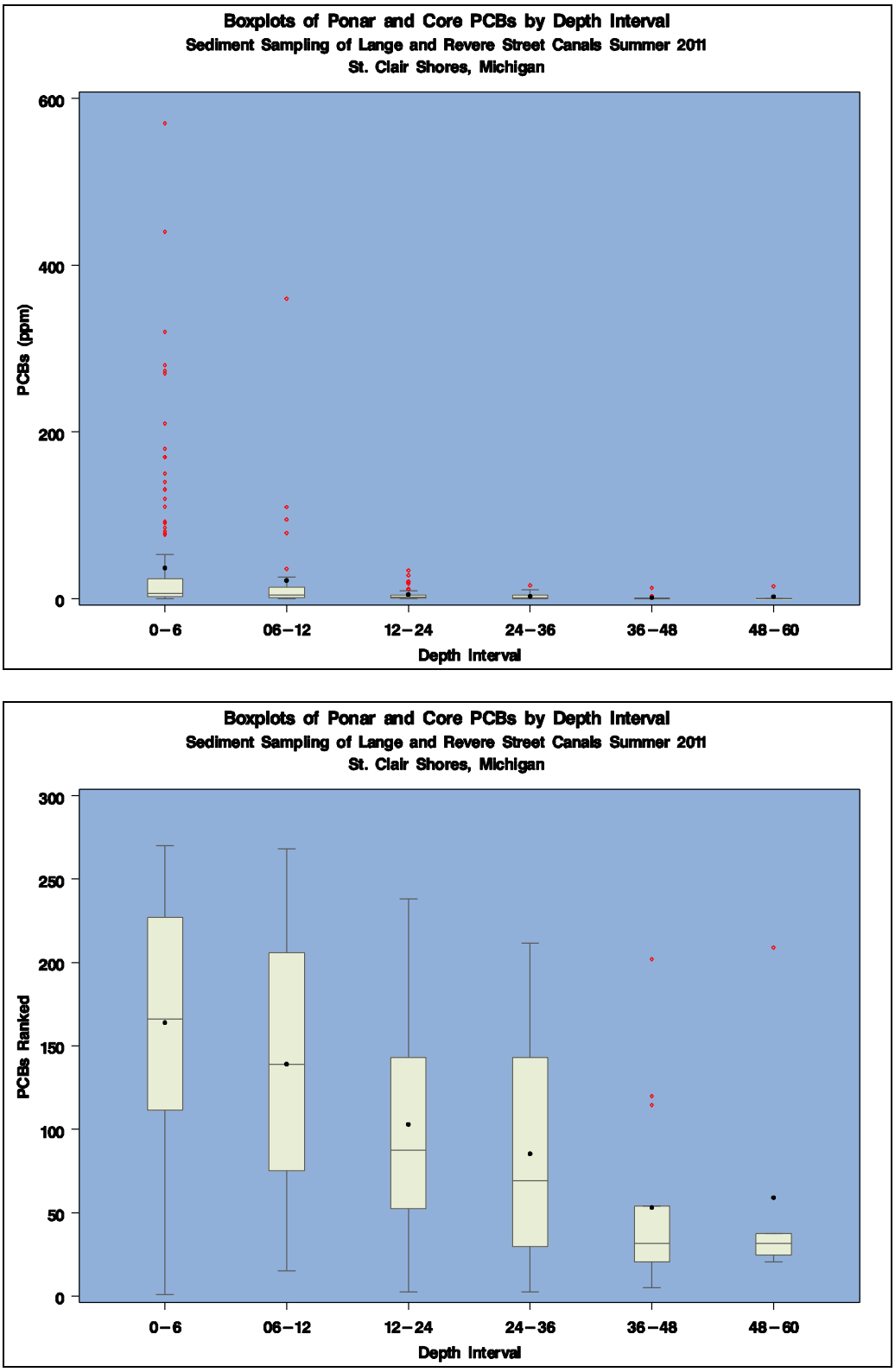


Figure A-7: Boxplots of ponar and core PCB results by depth interval (untransformed PCB data top graph, rank-transformed PCB data bottom graph; red diamonds are extreme values, blue circle is the mean, and middle horizontal line is the median)

Analysis Variable : PCBs_ppm PCBs (ppm)								
Depth Interval	N Obs	N	Mean	Median	Minimum	Maximum	Std Dev	Coeff of Variation
0-6	143	143	37.00	6.50	0.11	570.00	82.03	221.69
06-12	41	41	22.00	4.20	0.17	360.00	59.47	270.38
12-24	41	41	5.24	1.60	0.12	34.00	8.04	153.55
24-36	24	24	2.98	1.01	0.12	16.00	4.06	135.98
36-48	15	15	1.47	0.21	0.14	13.00	3.33	227.53
48-60	6	6	2.67	0.21	0.18	15.00	6.04	226.58

Figure A-8: Descriptive statistics of ponar and core untransformed PCB results by depth interval

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Depth_Interval	5	357268.8855	71453.7771	14.70	<.0001

Figure A-9: One-way ANOVA test of significant differences of ponar and core mean rank-transformed PCB concentrations between depth intervals

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Depth_Interval	PCBs_ranked LSMEAN	LSMEAN Number
0-6	164.027972	1
06-12	139.158537	2
12-24	102.975610	3
24-36	85.395833	4
36-48	53.166667	5
48-60	59.083333	6

Least Squares Means for effect Depth_Interval Pr > |t| for H0: LSMean(i)=LSMean(j) Dependent Variable: PCBs_ranked						
i/j	1	2	3	4	5	6
1		0.3372	<.0001	<.0001	<.0001	0.0048
2	0.3372		0.1781	0.0346	0.0008	0.0942
3	<.0001	0.1781		0.9236	0.1715	0.7022
4	<.0001	0.0346	0.9236		0.7242	0.9623
5	<.0001	0.0008	0.1715	0.7242		1.0000
6	0.0048	0.0942	0.7022	0.9623	1.0000	

Figure A-10: Least Squares Means Tukey-Kramer test of differences for ponar and core mean rank-transformed PCB concentrations between depth intervals

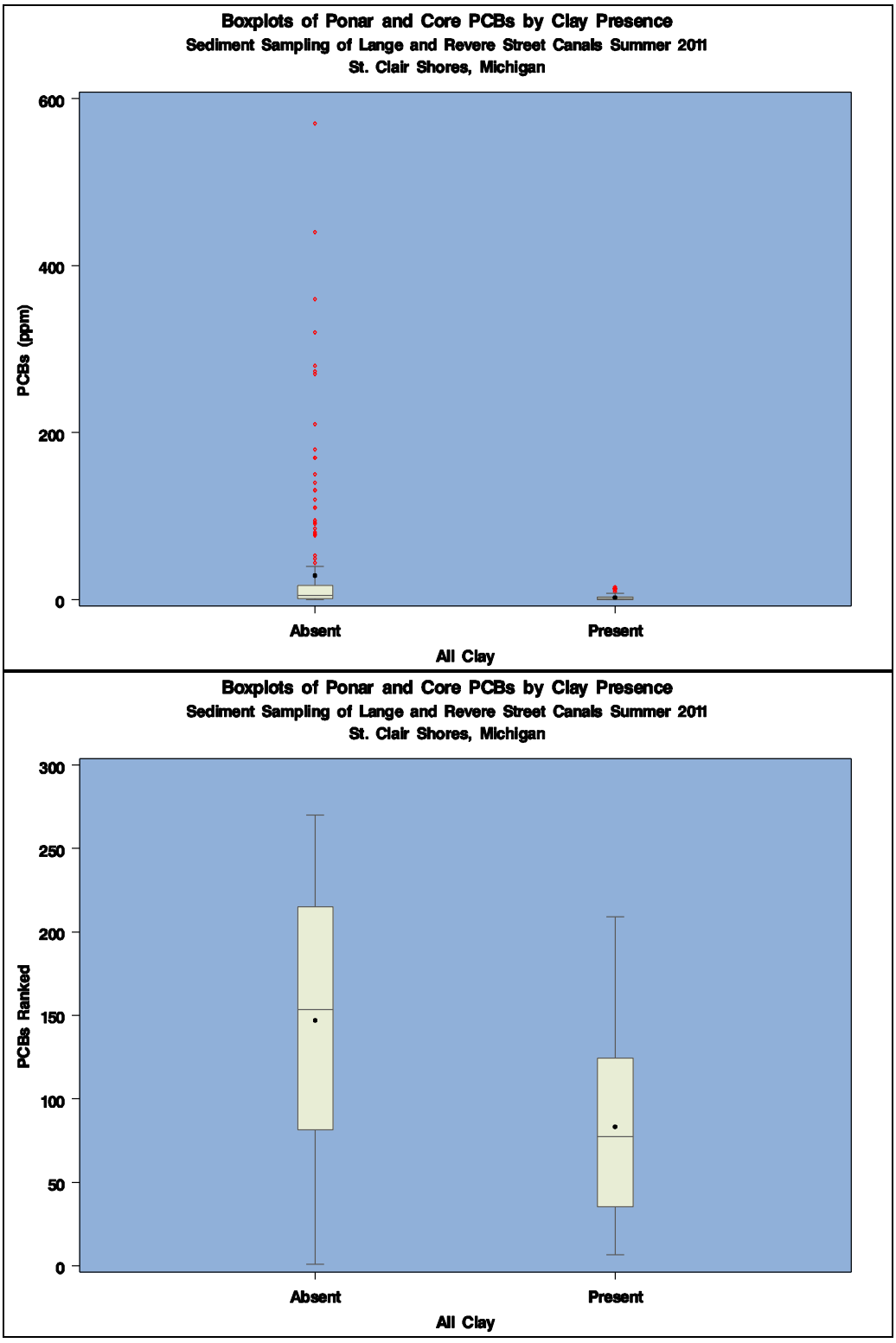


Figure A-11: Boxplots of ponar and core PCB results by presence and absence of clay for sediment containing all clay (untransformed PCB data top graph, rank-transformed PCB data bottom graph; red diamonds are extreme values, blue circle is the mean, and middle horizontal line is the median)

Analysis Variable : PCBs_ppm PCBs (ppm)								
Clay	N Obs	N	Mean	Median	Minimum	Maximum	Std Dev	Coeff of Variation
Absent	221	221	28.90	5.30	0.11	570.00	71.72	248.17
Present	49	49	2.66	1.30	0.15	15.00	3.78	141.95

Figure A-12: Descriptive statistics of ponar and core untransformed PCB results by presence and absence of clay for sediment containing all clay

Welch's ANOVA for PCBs_ranked			
Source	DF	F Value	Pr > F
Clay	1.0000	41.82	<.0001
Error	89.2021		

Figure A-13: Welch's ANOVA test of significant differences of ponar and core mean rank-transformed PCB concentrations between presence and absence of clay for sediment containing all clay

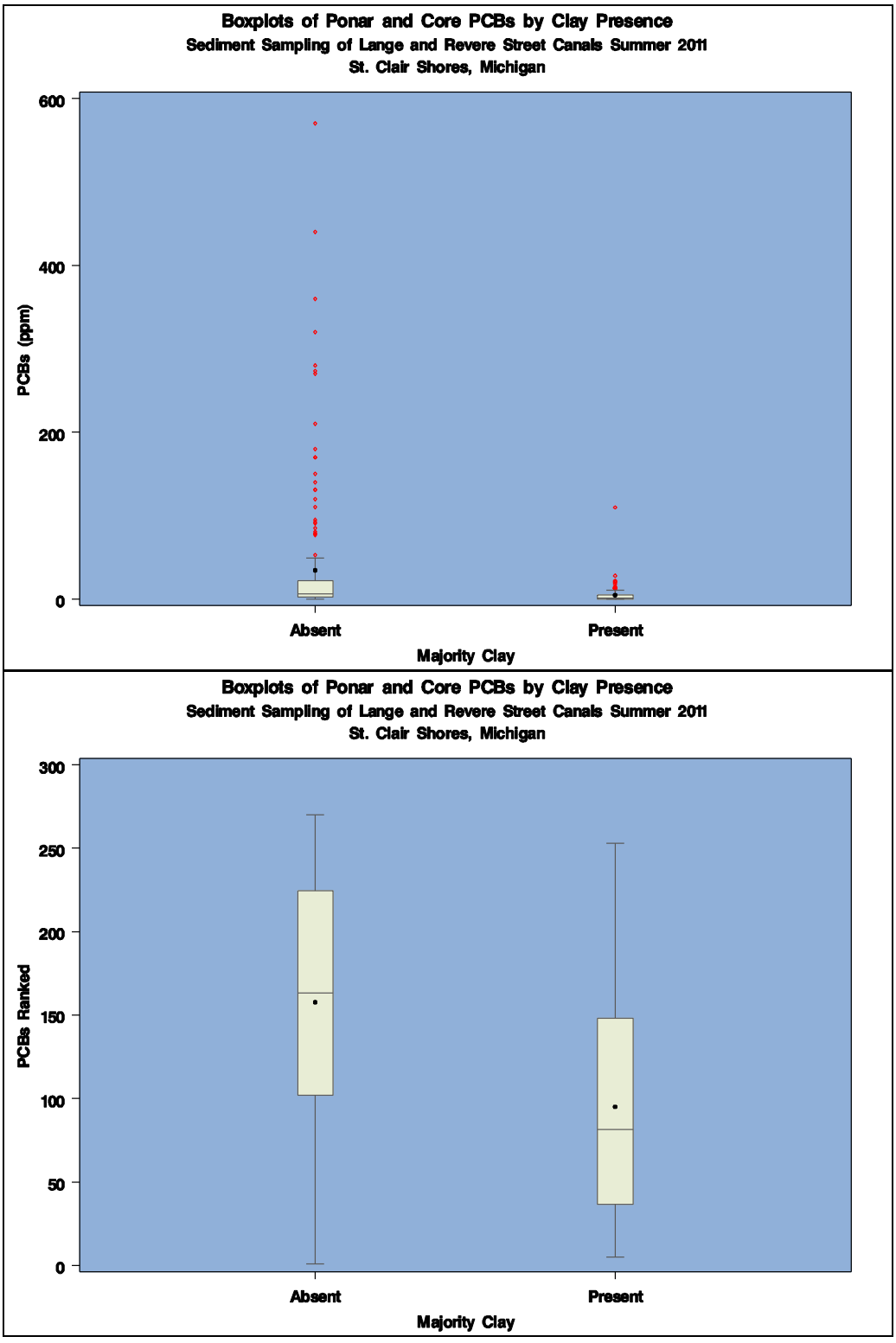


Figure A-14: Boxplots of ponar and core PCB results by presence and absence of clay for sediment containing majority clay (untransformed PCB data top graph, rank-transformed PCB data bottom graph; red diamonds are extreme values, blue circle is the mean, and middle horizontal line is the median)

Analysis Variable : PCBs_ppm PCBs (ppm)								
Clay	N Obs	N	Mean	Median	Minimum	Maximum	Std Dev	Coeff of Variation
Absent	174	174	34.70	6.25	0.11	570.00	79.42	228.84
Present	96	96	4.99	1.40	0.14	110.00	12.25	245.56

Figure A-15: Descriptive statistics of ponar and core untransformed PCB results by presence and absence of clay for sediment containing majority clay

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Clay	1	242521.5881	242521.5881	46.51	<.0001

Figure A-16: One-way ANOVA test of significant differences of ponar and core mean rank-transformed PCB concentrations between presence and absence of clay for sediment containing majority clay

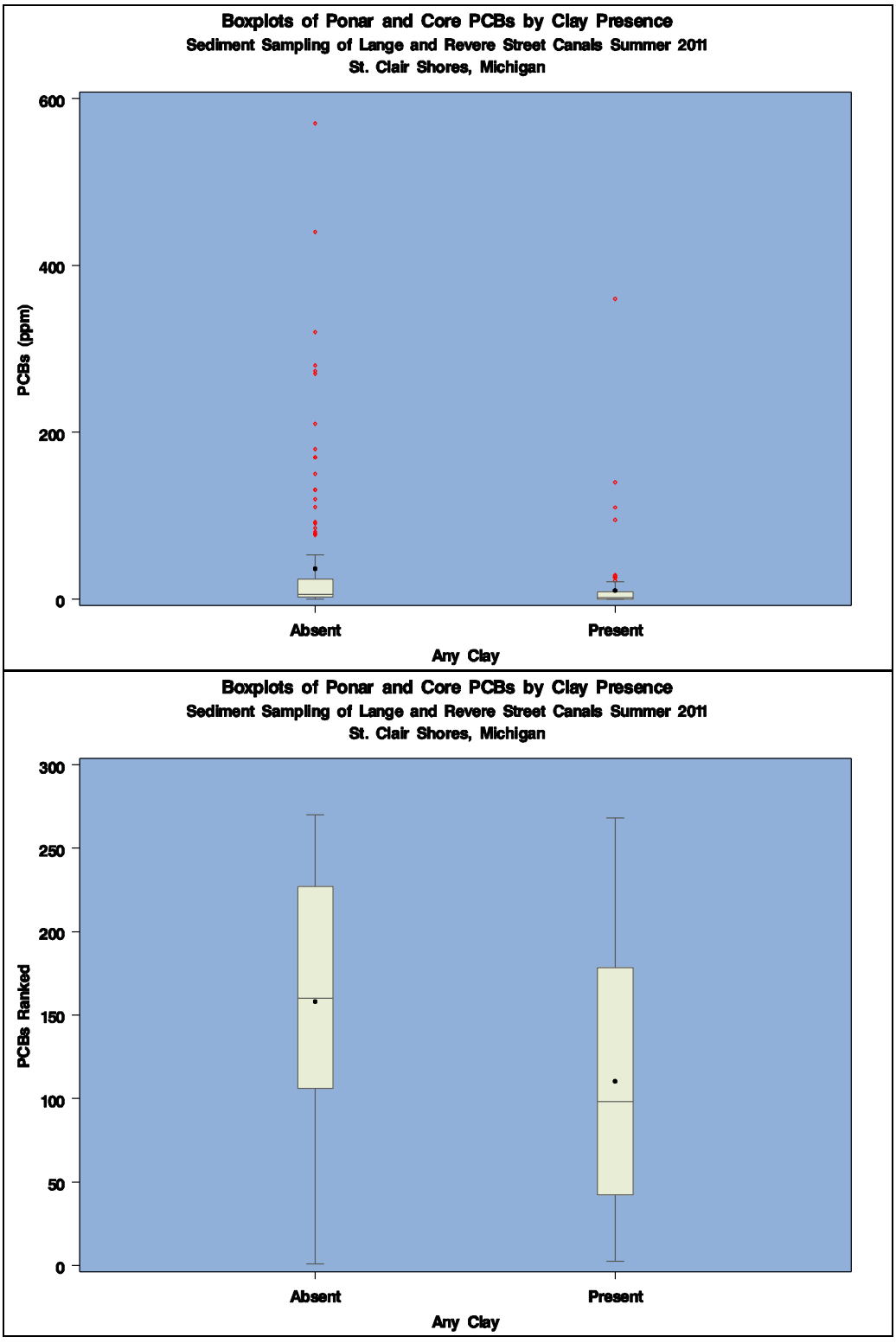


Figure A-17: Boxplots of ponar and core PCB results by presence and absence of clay for sediment containing any clay (untransformed PCB data top graph, rank-transformed PCB data bottom graph; red diamonds are extreme values, blue circle is the mean, and middle horizontal line is the median)

Analysis Variable : PCBs_ppm PCBs (ppm)								
Clay	N Obs	N	Mean	Median	Minimum	Maximum	Std Dev	Coeff of Variation
Absent	142	142	36.54	5.95	0.11	570.00	82.02	224.48
Present	128	128	10.38	2.05	0.12	360.00	36.08	347.51

Figure A-18: Descriptive statistics of ponar and core untransformed PCB results by presence and absence of clay for sediment containing any clay

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Clay	1	153637.6056	153637.6056	27.70	<.0001

Figure A-19: One-way ANOVA test of significant differences of ponar and core mean rank-transformed PCB concentrations between presence and absence of clay for sediment containing any clay

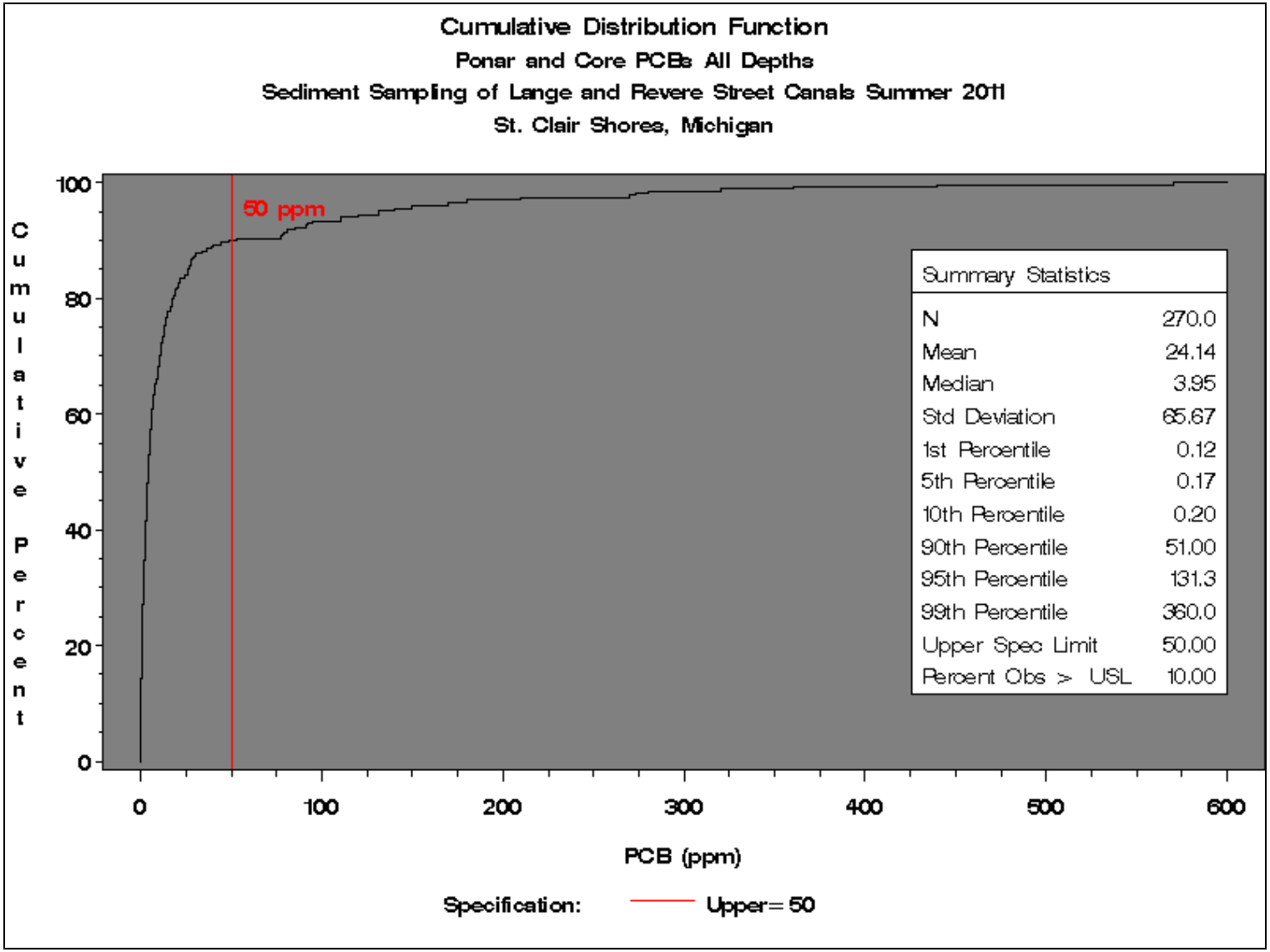


Figure A-20: Cumulative distribution function of ponar and core untransformed PCB values above 50 ppm for all depths

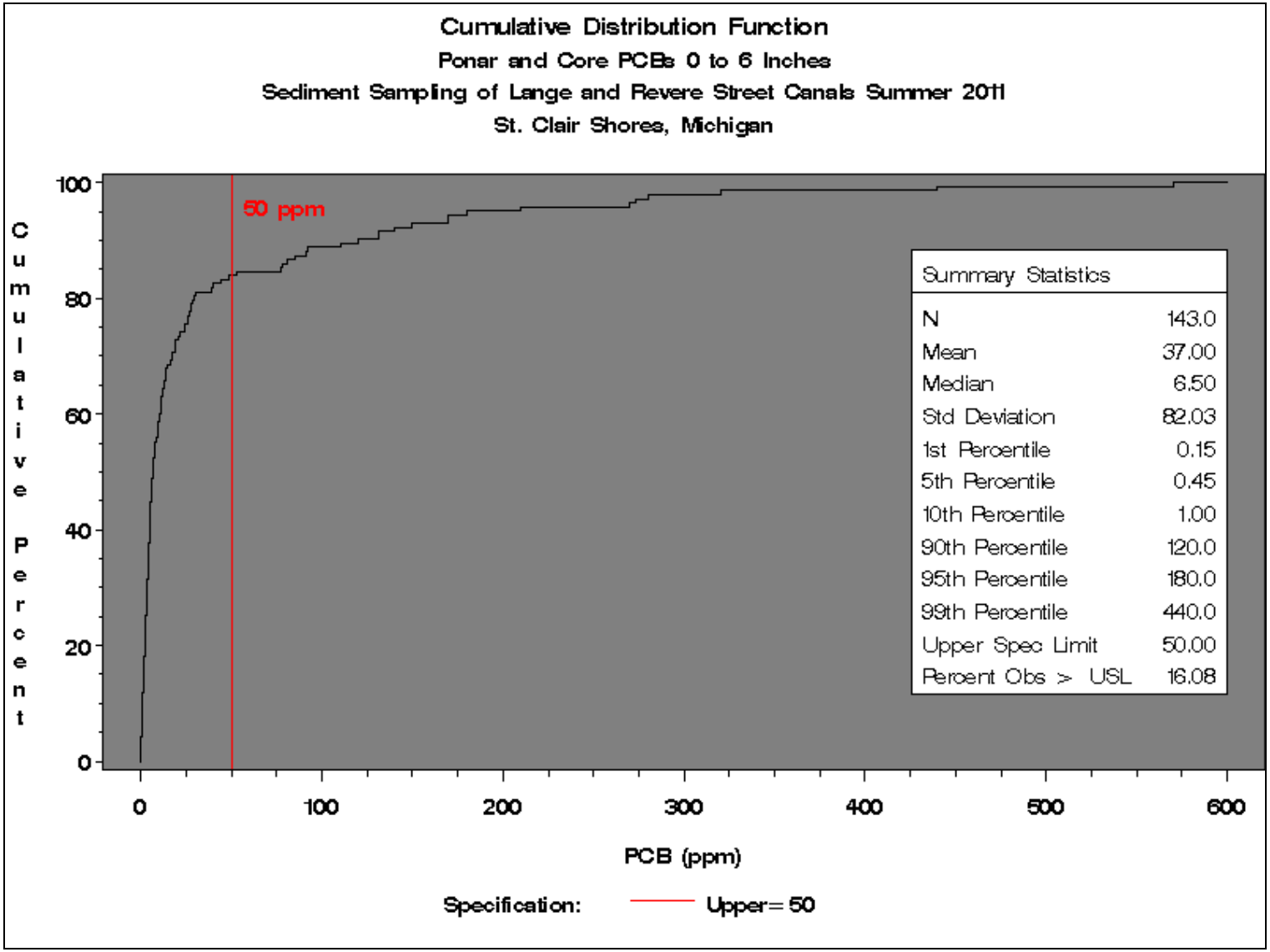


Figure A-21: Cumulative distribution function of ponar and core untransformed PCB values above 50 ppm for depth interval 0 to 6 inches

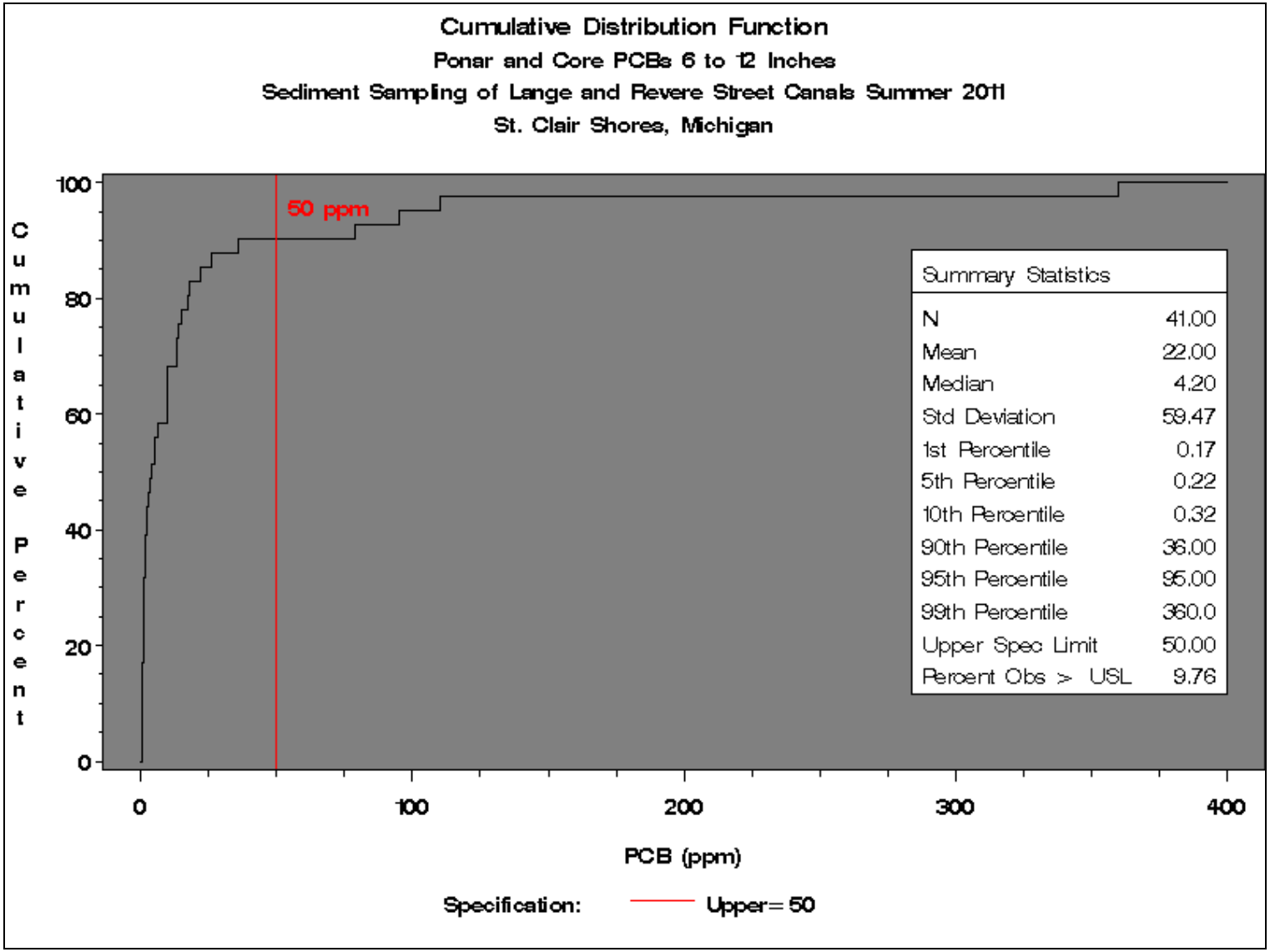


Figure A-22: Cumulative distribution function of ponar and core untransformed PCB values above 50 ppm for depth interval 6 to 12 inches

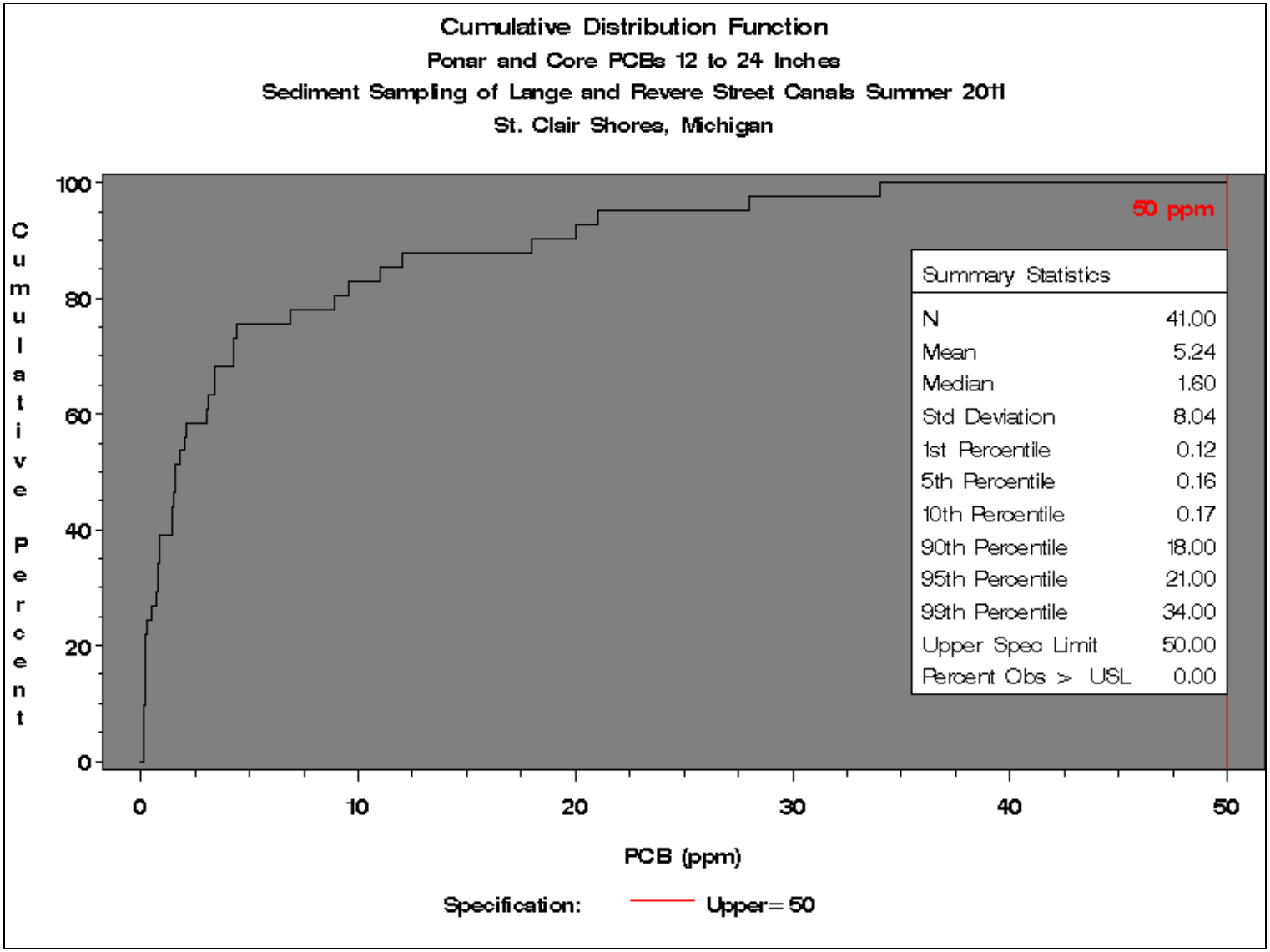


Figure A-23: Cumulative distribution function of ponar and core untransformed PCB values above 50 ppm for depth interval 12 to 24 inches

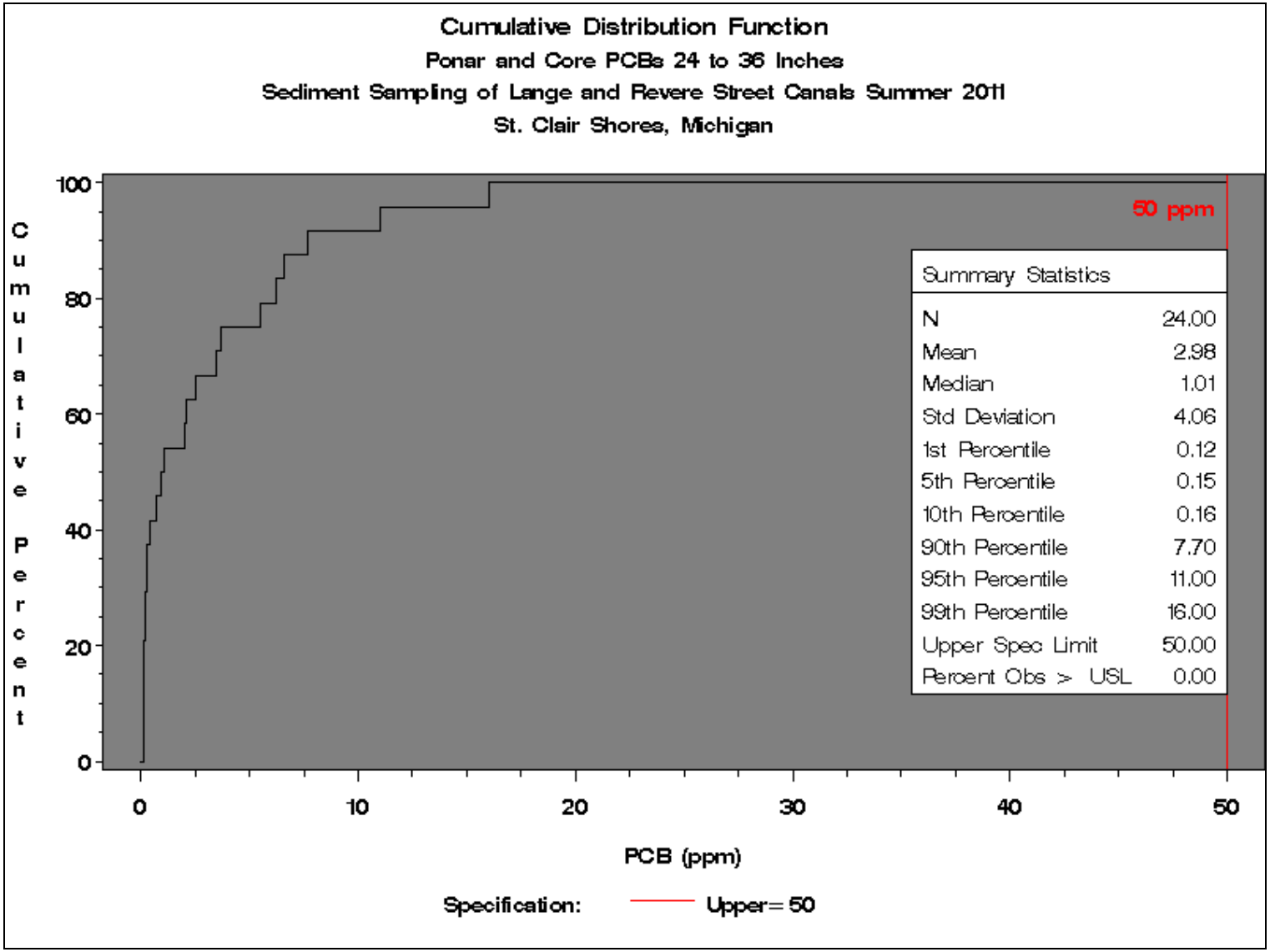


Figure A-24: Cumulative distribution function of ponar and core untransformed PCB values above 50 ppm for depth interval 24 to 36 inches

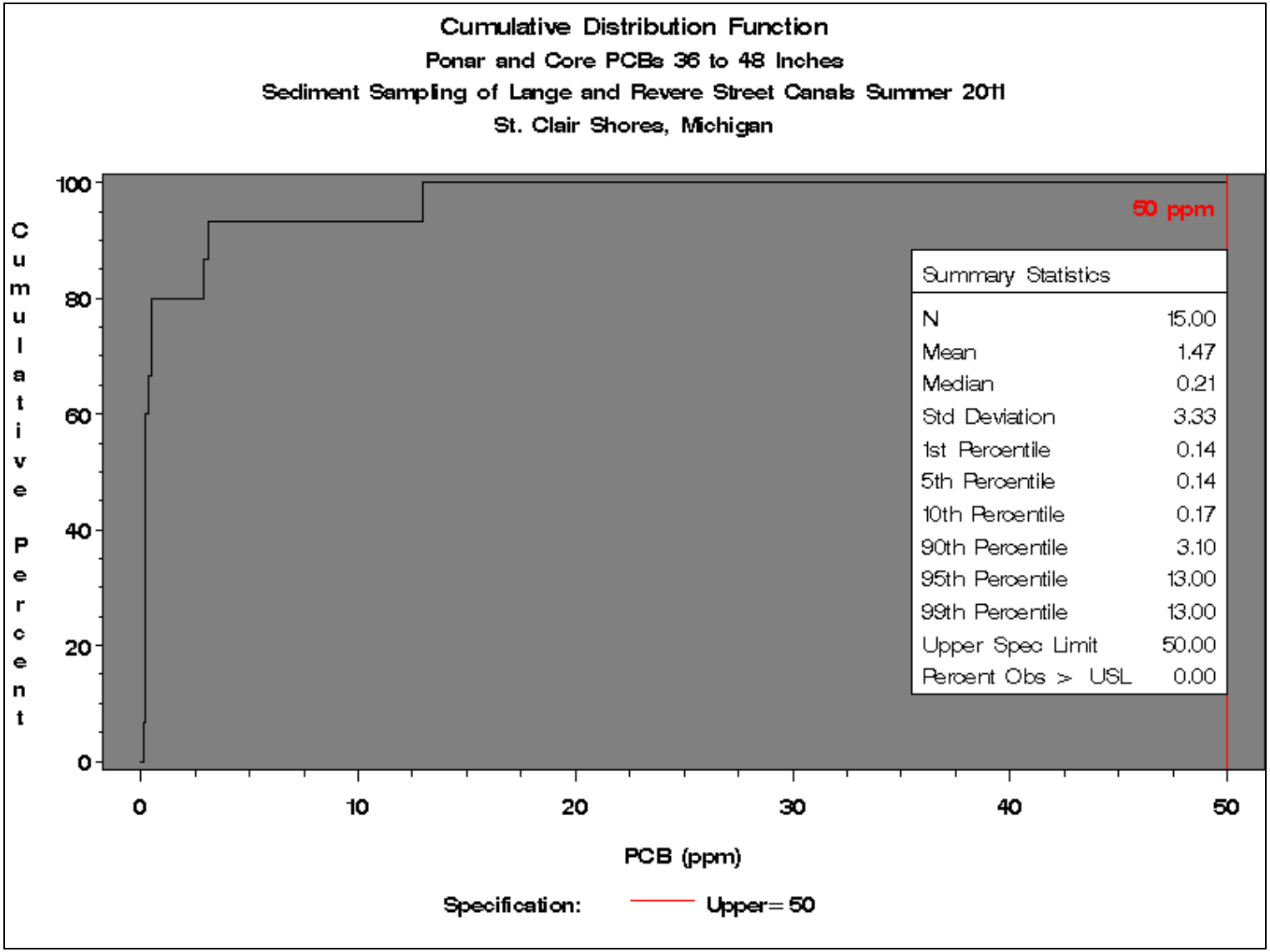


Figure A-25: Cumulative distribution function of ponar and core untransformed PCB values above 50 ppm for depth interval 36 to 48 inches

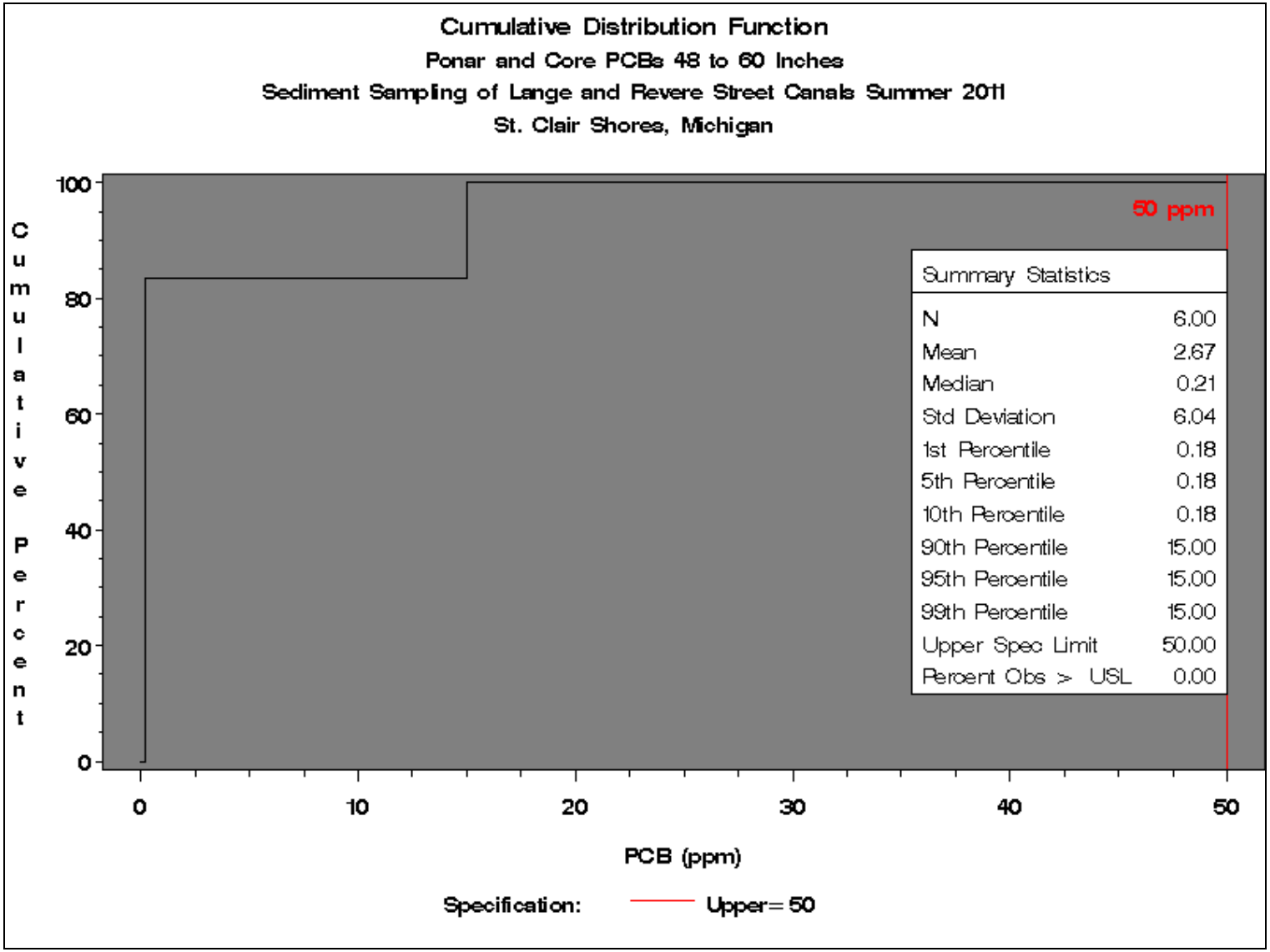


Figure A-26: Cumulative distribution function of ponar and core untransformed PCB values above 50 ppm for depth interval 48 to 60 inches

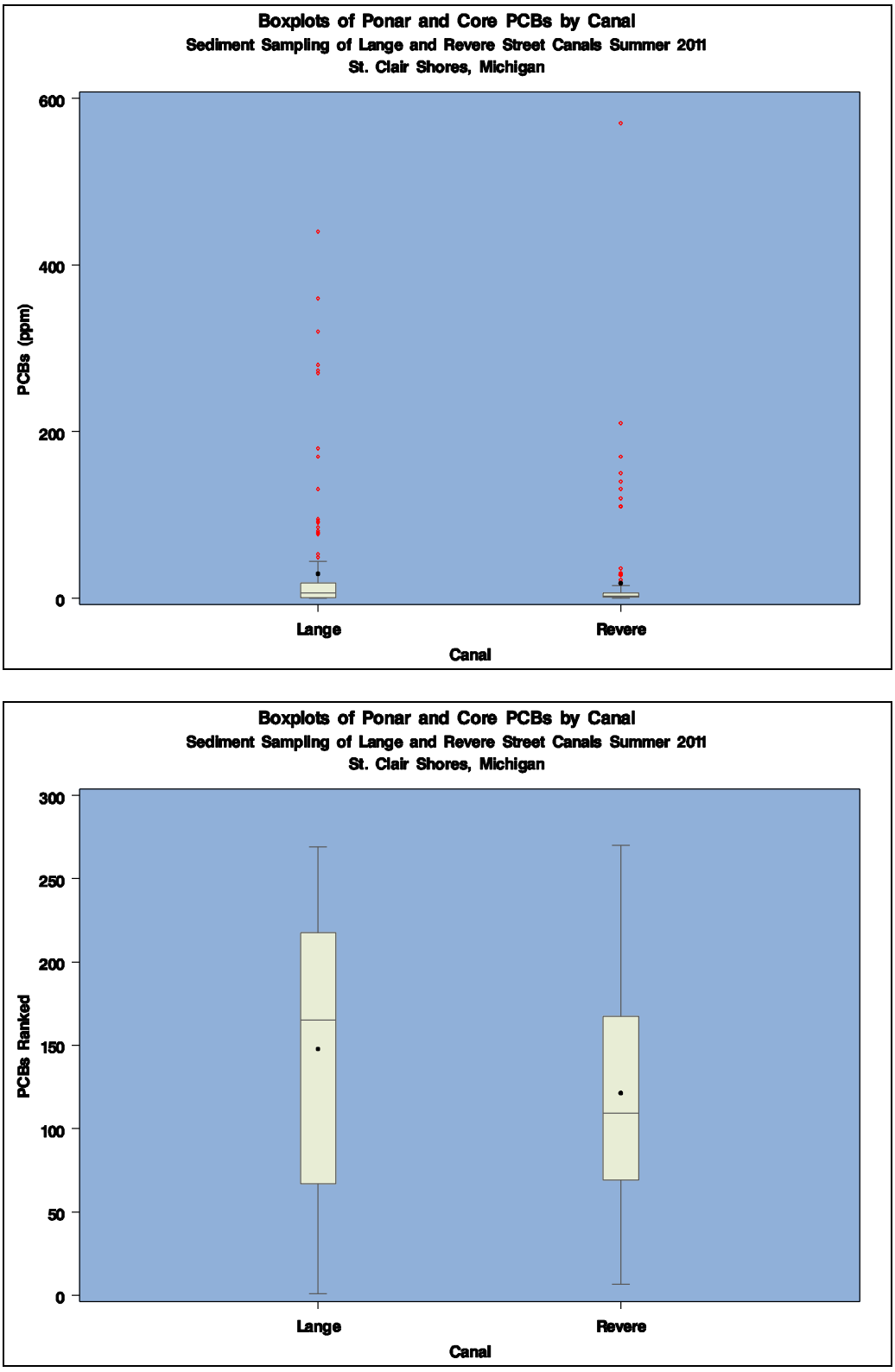


Figure A-27: Boxplots of ponar and core PCB results by canal (untransformed PCB data top graph, rank-transformed PCB data bottom graph; red diamonds are extreme values, blue circle is the mean, and middle horizontal line is the median)

Analysis Variable : PCBs_ppm PCBs (ppm)								
Canal	N Obs	N	Mean	Median	Minimum	Maximum	Std Dev	Coeff of Variation
Lange	144	144	29.39	6.40	0.11	440.00	69.38	236.05
Revere	126	126	18.14	2.65	0.15	570.00	60.87	335.63

Figure A-28: Descriptive statistics of ponar and core untransformed PCB results by canal

Welch's ANOVA for PCBs_ranked			
Source	DF	F Value	Pr > F
Canal	1.0000	8.08	0.0048
Error	267.7		

Figure A-29: Welch's ANOVA test of significant differences of ponar and core mean rank-transformed PCB concentrations between canals

Lange and Revere Street Canals
Appendix B of
Sediment Sampling Report

Ten-Mile Drain Site
St. Clair Shores, MI

Prepared by:
FIELDS Program, US EPA, Region V
Linda Jacobson, Brennan Pierce, John Canar, and Chuck Roth
June 2012

TABLE OF CONTENTS

I. Introduction 3

II. Data and Data Handling 3

III. Results and Discussion 3

IV. References 4

I. Introduction

Simple linear regression and regression diagnostics were used to find the "best fitting" linear relationship between the total PCBs measured in samples by the Mobile Laboratory (ML) and Central Regional Laboratory (CRL) using the SAS® software. This relationship is quantified into a model (equation) of ML measurements of total PCBs and its corresponding CRL measurement. The statistical methods employed were drawn from SAS® literature and three regression texts: Statistical Methods in Water Resources, 1992; and Applied Regression Analysis and Other Multivariate Methods, 1978 and 1988. (See "References" section for a complete list of regression resources.)

The steps used to perform simple linear regression were:

1. Plot the data;
2. Compute the least squares regression statistics;
3. Examine adherence to the assumptions of regression using residual plots; and
4. Employ regression diagnostics (Helsel and Hirsch, 1992).

II. Data and Data Handling

All 270 sediment samples were analyzed onsite for PCBs by the ML. Ten percent of the sediment samples were also analyzed for PCBs by CRL. A total of 27 sediment samples were analyzed by both the ML and CRL and were used in the below regression. Both laboratories analyzed for aroclors 1016, 1232, 1242, 1248, 1254, and 1260, and a total PCB value was calculated for each sample. For samples without any detected aroclor results, half the reporting limit of one of the aroclors (all aroclors within a sample had the same reporting limit) was used as the PCB concentration for the sample.

III. Results and Discussion

There was a statistically significant linear regression relationship between ML total PCB values and their corresponding CRL values (results not shown). However, regression diagnostics found that some of the assumptions of regression were violated. These violations included the lack of extreme residuals and normality for the residuals (see Figures B-1 and B-2, respectively). (The null hypothesis of each of these four tests in Figure B-2 is that the residuals are from a normal distribution. If using an alpha value of 0.05, one would reject the null hypothesis.) To overcome these violations, two observations with Studentized residual values greater than 2.5, a value used as a rule of thumb for extreme values, were removed from the data set. The new data set was regressed and the linear regression was significant (results not shown). Again, some of the assumptions of regression were violated: the lack of extreme residuals and normality of residuals (results not shown). One additional observation with extreme residuals was removed from the data set and the new data set was regressed. The regression results were significant but the assumptions of regression were violated (results not shown). Another two extreme residuals were removed from the data set. Although the regression results for the new data set were significant, the assumptions of regression were not met (results not shown). This process was repeated four additional times removing one, two, and one observation with extreme residuals,

respectively, until the model had no observations with extreme residuals. However, the assumption of normality of the residuals was violated in the final model. Given the inability to achieve these assumptions, the natural log of the ML total PCB values and their corresponding CRL values was taken.

The natural log of the ML and CRL total PCB values showed a statistically significant linear regression relationship (see Figure B-3). All assumptions of linear regression were also met in this model. Figure B-4 shows that the residuals were homoscedastic and none of the Studentized residuals were greater than 2.5. The White test also found that the variance of the residuals were homogenous (results not shown). Figure B-5 shows that the residuals are normally distributed. Normality of residuals is required in order to test the hypothesis that "the slope coefficient (β_1) is significantly different from zero" (Helsel and Hirsch, 1992). In other words, in order to demonstrate a linear relationship between the two variables, ML and CRL total PCB values, the slope coefficient must be significant. A visualization of the linear relationship between the natural log of ML total PCB and CRL values is shown in Figure B-6.

The parameters of the best linear fit equation for the relationship of natural log of ML total PCB and CRL values are:

Adjusted LN total PCB = 0.53136 + (1.01606)*(LN ML total PCB value)

However, as this equation is in natural log space, the antilog of the adjusted total PCB value must be taken. For example, for a ML total PCB value of 2 ppm (0.693 ppm in natural log space), the Adjusted LN ML total PCB value is 1.24 ppm. The antilog of this value is 3.44 ppm. Hence, a ML total PCB value of 2 ppm is equivalent to an adjusted ML total PCB value of 3.44 ppm. For 20 ppm, the adjusted value is 35.7 ppm; for 100 ppm, the adjusted value is 183.2 ppm.

IV. References

Chen, X., Ender, P., Mitchell, M. and Wells, C. (2003). Regression with SAS, from http://www.ats.ucla.edu/stat/sas/webbooks/reg/default.htm

Helsel, D.R. and Hirsch R.M., Statistical Methods in Water Resources, Elsevier, Amsterdam, 1992.

Kleinbaum, D.G. and Kupper, L.L., Applied Regression Analysis and Other Multivariate Methods, Duxbury Press, Boston, Massachusetts, 1978.

Kleinbaum, D.G., Kupper, L.L., and Muller, K.E., Applied Regression Analysis and Other Multivariate Methods, Second Edition. PWS-Kent Publishing Company, Boston, Massachusetts, 1988.

SAS Institute Inc., SAS/STAT® User's Guide, Version 8, Cary, NC: SAS Institute Inc., 1999. (Chapter 55, The REG Procedure)

SAS Institute Inc., SAS ® System for Regression, Second Edition, Cary, NC: SAS Institute Inc., 1991. 210pp.

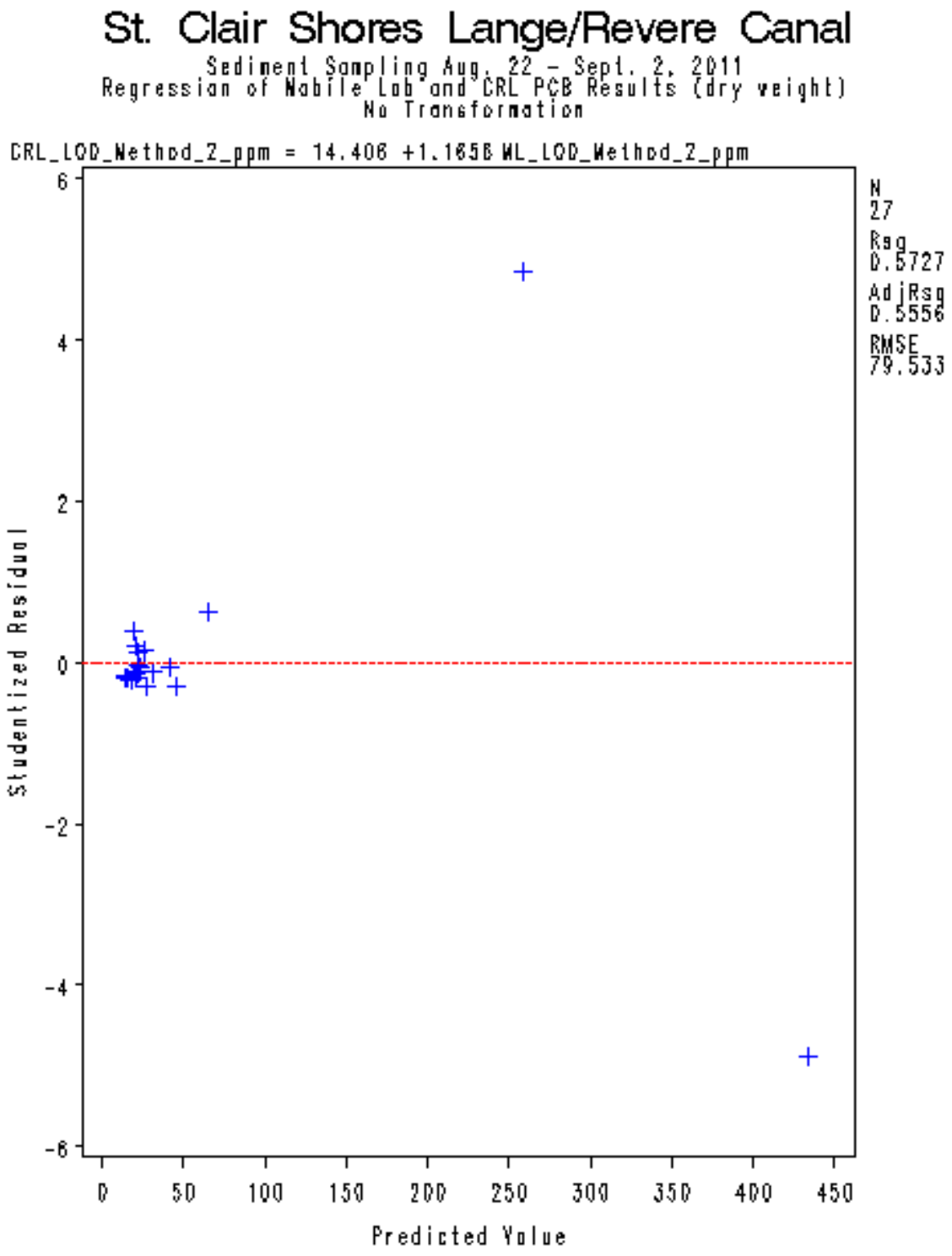


Figure B-1: Residual plot from the SAS software for total PCB ML and CRL values

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.513896	Pr < W	<0.0001
Kolmogorov-Smirnov	D	0.349131	Pr > D	<0.0100
Cramer-von Mises	W-Sq	1.068507	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	5.340949	Pr > A-Sq	<0.0050

Figure B-2: Tests of Normality from the SAS software for residuals from total PCB ML and CRL values

St. Clair Shores Lange/Revere Canal
Sediment Sampling Aug. 22 - Sept. 2, 2011
Regression of Mobile Lab and CRL PCB Results (dry weight)
Natural Log Transformation

The REG Procedure
Model: MODEL1
Dependent Variable: CRL_LOD_Method_2_ppm_ln

Number of Observations Read	27
Number of Observations Used	27

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	101.92680	101.92680	137.90	<.0001
Error	25	18.47883	0.73915		
Corrected Total	26	120.40562			

Root MSE	0.85974	R-Square	0.8465
Dependent Mean	2.05168	Adj R-Sq	0.8404
Coeff Var	41.90424		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	0.53136	0.21009	2.53	0.0181
ML_LOD_Method_2_ppm_ln	1	1.01606	0.08652	11.74	<.0001

Figure B-3: Simple linear regression output from the SAS software for the natural log of total PCB ML and CRL values

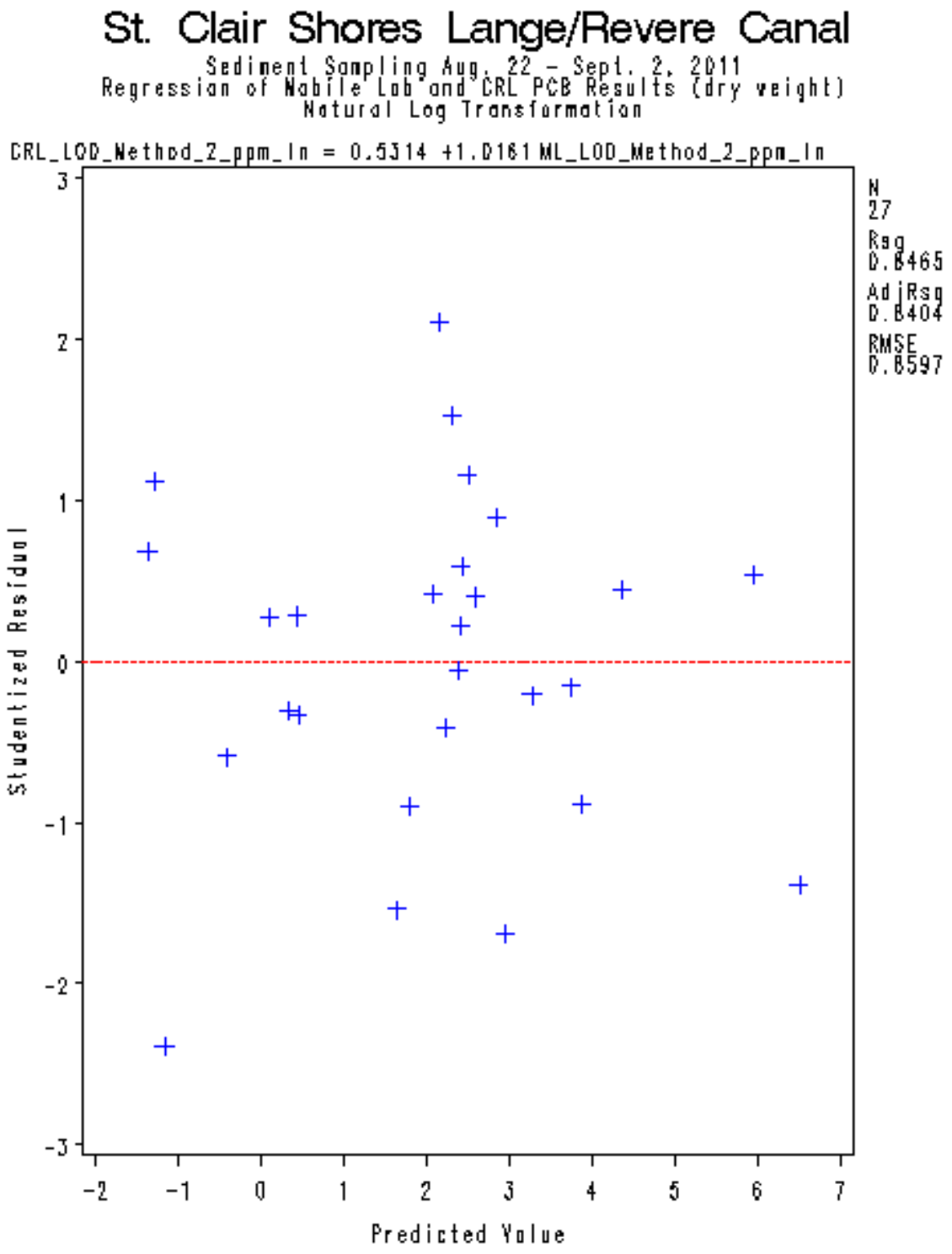


Figure B-4: Residual plot from the SAS software for the natural log of total PCB ML and CRL values

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.985859	Pr < W	0.9643
Kolmogorov-Smirnov	D	0.105573	Pr > D	>0.1500
Cramer-von Mises	W-Sq	0.039978	Pr > W-Sq	>0.2500
Anderson-Darling	A-Sq	0.225074	Pr > A-Sq	>0.2500

Figure B-5: Test of Normality from the SAS software for residuals from the natural log of total PCB ML and CRL values

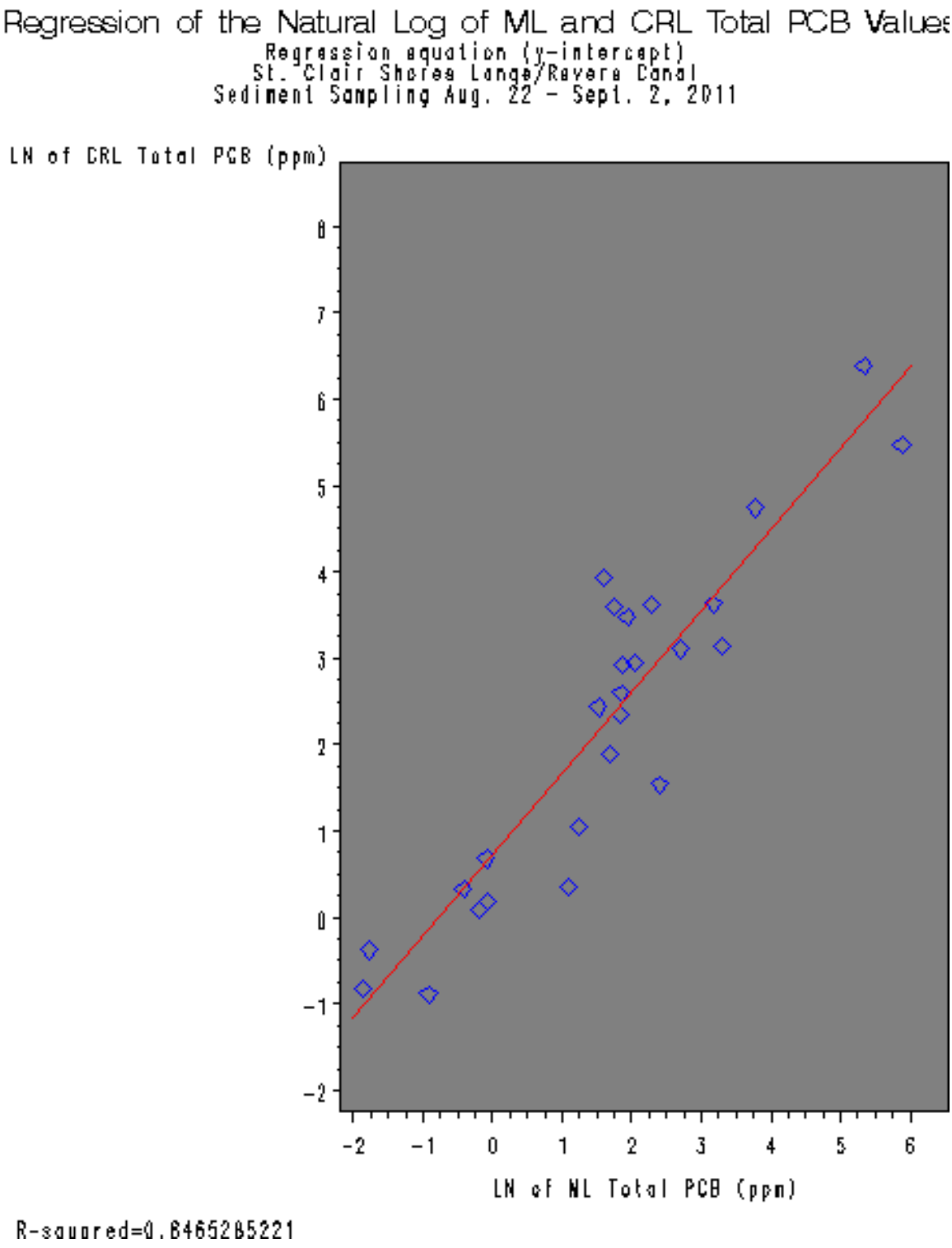


Figure B-6: Best-fit linear regression line from the SAS software for the natural log of total PCB ML and CRL values

Attachment G
Human Health Risk Assessment

REGION 5 RAC2

REMEDIAL ACTION CONTRACT FOR

Remedial, Enforcement Oversight, and
Non-Time Critical Removal Activities at Sites of Release
or Threatened Release of Hazardous Substances in Region 5

Human Health Risk Assessment
Ten-Mile Drain Superfund Site
St. Clair Shores, Macomb County, Michigan
Remedial Investigation/Feasibility Study

WA No. 165-RICO-B5BP/Contract No. EP-S5-06-01

February 2016

PREPARED FOR

U.S. Environmental Protection Agency

PREPARED BY

ch2m.

Ecology and Environment, Inc.
Environmental Design International, Inc.
Teska Associates, Inc.

FOR OFFICIAL USE ONLY

Human Health Risk Assessment
Ten-Mile Drain Superfund Site
St. Clair Shores, Macomb County, Michigan

WA No. 165-RICO-B5BP/Contract No. EP-S5-06-01

February 2016

Prepared by

ch2m

Contents

Acronyms and Abbreviations ..... **v**

1 Introduction **1-1**
1.1 Scope of the Risk Assessment 1-1
1.2 Potential Receptors 1-2

2 Data Evaluation **2-1**
2.1 Data Used in the Human Health Risk Assessment 2-1
2.1.1 Ten-Mile Drain Soil 2-1
2.1.2 Surface Water 2-2
2.1.3 Fish 2-3
2.1.4 Sediment 2-3
2.1.5 Storm Sewer 2-3
2.1.6 Martin Drain Soil 2-4
2.2 Data Evaluation 2-4
2.3 Screening-Level Comparison 2-4
2.3.1 Chemicals of Potential Concern 2-4
2.3.2 Screening Levels and Screening Approach 2-4
2.3.3 Results of Screening-Level Comparisons 2-5
2.3.4 Soil Hot Spot Evaluation 2-7

3 Exposure Assessment **3-1**
3.1 Exposure Pathways/Scenarios Quantified 3-1
3.2 Current (Only) Exposure Scenarios 3-1
3.3 Current/Future Exposure Scenarios 3-1
3.3.1 Future (Only) Exposure Scenarios 3-2
3.4 Exposure Point Concentrations 3-2
3.5 Intake Estimates 3-3

4 Toxicity Assessment **4-1**
4.1 Noncarcinogenic Toxicity Values 4-1
4.2 Carcinogenic Toxicity Values 4-1
4.3 Derivation of Dermal Toxicity Values 4-2

5 Risk Characterization **5-1**
5.1 Approach for Potential Noncarcinogenic Effects 5-1
5.2 Approach for Potential Carcinogenic Effects 5-2
5.3 Summary of Risk Estimates 5-2
5.4 Summary of Chemicals of Concern 5-4
5.5 Uncertainty Assessment 5-5
5.5.1 Data Evaluation 5-5
5.5.2 Exposure Assessment 5-5
5.5.3 Toxicity Assessment 5-6
5.5.4 Risk Characterization 5-7
5.5.5 Summary of Sources of Uncertainty 5-8

6 References **6-1**

Appendixes

A RAGS Data Tables
B Analytical Data
C FIELDS Group Replicate Calculations
D Analytical Summary Tables
E PRO UCL Calculations

Figures

1 Human Health Conceptual Site Model
2 Site Location and Investigation Areas Map
3 DPT Soil Boring Locations at Property 001
4 DPT Soil Boring Locations at Property 002
5 Bon Brae Street Residential Soil Sampling Locations
6 Lange Revere Street Canals
7 Lakeland Street Residential Soil Sampling Locations
8 Utility Corridors – Close up Area 1
9 Utility Corridors – Close up Area 2
10 Utility Corridors – Close up Area 3
11 Surface Water/Sediment Sample Locations
12 Manhole Locations
13 Former Martin Drain
14 Former Martin Drain
15 Former Martin Drain

Acronyms and Abbreviations

bgs	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CH2M	CH2M HILL
COC	chemical of concern
COPC	chemical of potential concern
CSF	cancer slope factor
CSM	conceptual site model
DL	detection limit
EC	exposure concentration
ELCR	excess lifetime cancer risk
EPA	U.S. Environmental Protection Agency
EPC	exposure point concentration
g/day	grams per day
HHEM	human health evaluation manual
HHRA	human health risk assessment
HI	hazard index
HQ	hazard quotient
IRIS	Integrated Risk Information System
IURs	inhalation unit risks
µg/m^3	microgram per cubic meter
MDEQ	Michigan Department of Environmental Quality
mg/kg	milligrams per kilograms
mg/kg-day	milligram per kilogram per day
PCB	polychlorinated biphenyl
PEF	particulate emission factor
RAGS	Risk Assessment Guidance for Superfund
RfC	reference concentration
RfD	reference dose
RI	remedial investigation
RME	reasonable maximum exposure
RSLs	regional screening levels
UCL	upper confidence limit
UFs	uncertainty factors
2,3,7,8-TCDD	2,3,7,8-Tetrachlorodibenzodioxin
TEQ	toxicity equivalents
TEF	toxicity equivalent factor
TCRA	time-critical removal action
TMD	Ten-Mile Drain

SECTION 1

Introduction

This baseline human health risk assessment (HHRA) was prepared for the Ten-Mile Drain (TMD) Site in St. Clair Shores, Macomb County, Michigan. The approach and assumptions presented herein are consistent with the Interim Deliverable for the *Human Health Risk Assessment—RAGS Part D tables—Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb Country, Michigan, WA No. 165-RICO-B5BP/Contract No. EP-S5-06-01* (CH2M HILL [CH2M] 2014), which incorporated the discussions with the U.S. Environmental Protection Agency (EPA) regarding the HHRA conceptual site model (CSM), data sets, and approach on February 26 and 28, 2014.

The HHRA provides an evaluation of the potential current and future risks to human health posed by polychlorinated biphenyl (PCBs) at the site, in accordance with EPA guidance for conducting HHRAs. The detailed scope and overall approach for the HHRA adheres to the following EPA guidance:

- *Risk Assessment Guidance for Superfund* [RAGS]*, Volume 1, Human Health Evaluation Manual* [HHEM], *Part A* (EPA 1989)
- *RAGS, Volume 1, HHEM*, *Part D* (EPA 2001)
- *Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites* (EPA 2002)
- *RAGS, Volume 1, HHEM*, *Part E* (EPA 2004)
- *RAGS, Volume 1, HHEM, Part F* (EPA 2009)

1.1 Scope of the Risk Assessment

The HHRA consists of the following components:

- **Data Evaluation—**Identification of the appropriate HHRA data set and selection of the chemicals of potential concern (COPCs). COPCs identified in this screening are the focus of the subsequent steps of the HHRA.
- **Exposure Assessment—**Identification of the potential pathways of human exposure, characterization of the potentially exposed populations, and estimation of the magnitude, frequency, and duration of exposures.
- **Toxicity Assessment—**Assessment of the potential adverse effects of the COPCs and compilation of the toxicity values used for developing numerical risk estimates.
- **Risk Characterization—**Integration of the results of the exposure assessment and toxicity assessment to develop numerical estimates of potential health risks.
- **Uncertainty Assessment—**Identification and discussion of sources of uncertainty associated with the data, methodology, and exposure and toxicity values used in the HHRA.

These components are described in the following sections. Risk calculation spreadsheets for the HHRA were prepared in accordance with *RAGS, Volume 1, HHEM, Part D* (EPA 2001) to screen for COPCs and to calculate risks estimates associated with the COPCs (Appendix A, Tables 1 through 10.10).

1.2 Potential Receptors

The human health CSM, presented in Appendix A Table 1, and illustrated on Figure 1, is used to qualitatively define the types of potential exposures to chemicals at or migrating from the site. The CSM describes potential sources and release mechanisms, affected environmental media, types of chemical fate and transport mechanisms that might be involved, potentially exposed receptor groups, and how each receptor group could contact chemicals in site media. The CSM is used to summarize existing site characterization data, including assumptions about land use, and to verify exposure pathway screening assumptions.

The TMD site is located northeast of the City of Detroit. The site is located in a mixed commercial/residential area in St. Clair Shores, Macomb County, Michigan (Figure 2). The majority of the TMD site encompasses a several-block area bounded by Bon Brae Street on the north, Harper Avenue on the west, Ten-Mile Road on the south, and Jefferson Avenue on the east, with the TMD outfall and the Lange and Revere Street canals. It includes a portion of the TMD storm sewer system, which consists of concrete sewer pipes and soil surrounding the pipes in a utility corridor extending to approximately 15 feet below ground surface (bgs). The storm sewer discharges into the Lange and Revere Street canals, which are connected to the western side of Lake St. Clair. The canals, which provide boating access to Lake St. Clair for approximately 125 homes, are private property and are used for recreational boating, jet-skiing, and fishing.

The suspected source area of the site (_____) is currently covered by buildings and asphalt parking lots. Historical surface runoff and tracking from the suspected source area impacted adjacent parkways (the right-of-way area between a sidewalk and curb), yards, and the TMD storm sewer system.

Based on current and reasonably foreseeable future site conditions, the following potential current and future human receptors were identified and evaluated in the HHRA for the TMD:

- **Current/Future Residents—**Adult and child residents who may contact soil in residential yards and parkways.
- **Current/Future Commercial Workers—**Commercial workers who may contact soil on commercial properties and parkways.
- **Current/Future Recreational Users—**Adult and child recreational users who may contact surface water at the storm sewer outfall and in Lange Street Canal and Revere Street Canals.
- **Current/Future Recreational Anglers—**Adult and child anglers who may consume fish caught in the Lange Street and Revere Street Canals.
- **Current/Future Utility Workers—**Utility workers who may contact soil during repair or maintenance activities in utility corridors, including those along residential and commercial parkways.

Martin Drain (an open drain) had formerly flowed through the TMD investigation area and discharged at the Rio Vista canal (northeast of the project site) (Macomb County Drain Commission 1962). There is no record of the presence of the Martin Drain after construction of the Ten-Mile Drain. Seven transects of the former Martin Drain were sampled to determine whether PCB contamination is present within the relic drainage channel (long since backfilled), and evaluate if the former Martin Drain is responsible for PCB contamination previously detected within the Lakeland and Rio Vista canals (Michigan Department of Environmental Quality [MDEQ] 2009). Sample transects were located one on either side of Bon Brae Street, two on the west side and one on the east side of B Street, and one on either side of Jefferson Avenue.

Based on current and reasonably foreseeable future site conditions, the following potential current and future human receptors were identified and evaluated in the HHRA for the Martin Drain areas:

- **Current/Future Residents—**Adult and child residents who may contact soil in residential yards and parkways.
- **Current/Future Utility Workers—**Utility workers who may contact soil during repair or maintenance activities in utility corridors, which include residential parkways.

SECTION 2

Data Evaluation

2.1 Data Used in the Human Health Risk Assessment

Analytical results for soil (surface and subsurface), surface water, and fish fillet samples collected during multiple investigations from 2008 to 2013 were used in the HHRA for TMD. Sediment samples were not evaluated in the HHRA. A list of the samples used in the HHRA for soil, surface water, and fish are provided in Appendix B, Tables 1 through 3, respectively. The analytical data associated with the samples used in the HHRA and their associated data groupings are presented Appendix B, Table 4. A discussion of data groupings for each exposure medium is provided in the following subsections. Samples collected on commercial properties are depicted on Figures 3 and 4; samples collected on residential properties are depicted on Figures 5 through 7; and samples collected from utility corridors are depicted on Figures 8 through 10. Surface water sampling locations, with the exception of the outfall samples, are depicted on Figure 11. The location of the outfall is shown on Figure 12.

Analytical results for soil (surface and subsurface) samples collected in August 2015 were used in the HHRA for Martin Drain. A list of the samples used in the HHRA and the analytical data are included in Appendix B, Tables 5 and 6, respectively. Sample transects located on both sides of Bon Brae Street are depicted on Figure 13, transects on both sides of B Street are depicted on Figure 14, and the transects on both sides of Jefferson Avenue are depicted on Figure 15.

PCBs are the only COPCs assessed at the TMD site. Soil, surface water, and fillet samples were collected and analyzed for various PCB analytical parameters, as follows: Aroclor mixtures, total PCBs, and/or specific PCB congeners.

Aroclor-specific data were available for soil and some surface water samples. PCB results for some surface water samples were reported as total PCBs, with no Aroclor-specific or Congener-specific data provided. To provide a consistent presentation of PCB analytical results between the data reported as Aroclor mixture and total PCBs, for all samples where Aroclor data were available, Aroclor data were converted into total PCBs on a sample-by-sample basis.

2.1.1 Ten-Mile Drain Soil

Soil samples collected from 0 to 10 feet bgs in April and May 2011 and April, May, June, and September 2013 during the remedial investigation (RI) (CH2M 2012) were used in the HHRA. The soil data were divided into groupings based on their location (Residential Yards, Residential Parkways, Commercial Yards, Commercial Parkways, and Utility Corridors) and then subdivided into specific exposure depths as described in the following subsections.

A time-critical removal action (TCRA) was completed in July 2014 for soils exceeding PCB concentrations of 22 milligrams per kilograms (mg/kg) at a commercial property (Property 002) and several residences (Property 076 [backyard], Property 048 [parkway], Property 069 [parkway], Property 065 [parkway], Property 053 [parkway], and Property 055 [parkway]). The TCRA locations were not included in the HHRA since the soil no longer remains onsite. Documentation of the TCRA will be provided by EPA.

When calculating total PCB concentrations, nondetected concentrations of individual Aroclors were assumed to equal 0 for individual Aroclors that were detected infrequently (in five or less soil samples). For those individual Aroclors detected in more than five soil samples, one-half the detection limit (DL) was used for nondetected concentrations in the total PCB summation as indicated below. An arbitrary number of

five detections was used as a cutoff level, representing approximately 0.5 percent of the total number of soil samples analyzed for Aroclor mixtures.

The following approach was used when calculating total PCB concentrations:

- PCB-1016 (1 detection)—used 0 for nondetects
- PCB-1232 (0 detection)—used 0 for nondetects
- PCB-1242 (3 detections)—used 0 for nondetects
- PCB-1248 (more than 200 detections)—used one-half DL for nondetects
- PCB-1254 (39 detections)—used one-half DL for nondetects
- PCB-1260 (0 detections)—used 0 for nondetects

2.1.1.1 Residential Yards and Parkways

Under current land use, residents could be exposed to COPCs in surface soil (0 to 2 feet bgs) in their yards or in parkways. Typically, parkways are used for utilities such as natural gas. Because the soil samples from residential yards and parkways were collected using a sample composite approach, the yards and parkways were evaluated separately for residents. Composite samples collected at two residential properties (Property 047 and Property 046) consisted of soil from both the yard and parkway at the given property, and the samples were grouped with the residential yard data set. Under future land use, residents could be exposed to COPCs in surface and subsurface soil situated at 0 to 10 feet bgs (termed total soil) in the yards. Because there are digging restrictions in the parkway to prevent damage to utilities, exposures are limited to surface soil in the parkways.

Three soil data groupings were created for residential yard and parkway samples. The residential yard and parkway surface soil (0 to 2 feet bgs) data sets consist of 166 and 27 samples, respectively. The residential yard total soil (0 to 3 feet bgs) data set consists of 242 samples.

2.1.1.2 Commercial Yards and Parkways

Under current land use, commercial workers could be exposed to COPCs in surface soil (0 to 2 feet bgs) in their work place yards or parkways. The yards and parkways were evaluated separately. Under future land use, commercial workers could be exposed to COPCs in total soil situated at 0 to 10 feet bgs in the commercial yards. Because there are digging restrictions in the parkway, exposures are limited to surface soil in the parkways.

Three soil data groupings were created for commercial yard and parkway samples. The commercial yard and parkway surface soil data sets consist of 12 and 15 samples, respectively. The commercial yard total soil (0 to 10 feet bgs) data set consists of 25 samples.

2.1.1.3 Utility Corridors and Parkways

Under current and future land use, utility workers could be exposed to COPCs in total soil (0 to 10 feet bgs) in utility corridors and along residential and commercial parkways where utility corridors are present. The utility corridor/parkway total soil data set consists of 401 samples. The utility corridor/parkway samples were grouped by street, creating the following five soil data groupings: Harper – 119 samples, Bon Brae – 52 samples, Frazho – 10 samples, Lakeland – 46 samples, and the TMD utility corridor – 175 samples.

2.1.2 Surface Water

The surface water data set used in the HHRA consists of samples collected from the storm sewer outfall, Lange Street Canal, Revere Canal, other downstream canals, and St. Claire Lake. The canal and lake samples were collected in July 2008 (MDEQ 2009), and the storm sewer outfall samples were collected in May and November 2010 and February, June, and August 2011. In the HHRA, surface water samples were divided into the following four groupings: storm sewer outfall and Lange Street Canal (since the outfall discharges into Lange Street Canal); Revere Canal; two other canals (Rio Vista and Lakecrest); and St. Claire Lake.

Under current and future land uses, adult and child recreators could be exposed to COPCs in surface water. The surface water groupings consist of six surface water samples collected from the storm sewer outfall and Lange Street Canal, one from Revere Street Canal, two from other canals, and three from St. Claire Lake.

2.1.3 Fish

Fillet samples collected from fish in St. Clair Lake within the vicinity of the TMD canals (Lange Street and Revere Street canals) in April 2010 by MDEQ were used in the HHRA. Fish fillets were collected from bottom-feeding fish (carp) and suspended-feeding fish (largemouth bass, black crappie, and pumpkinseed). Under current and future land uses, adult and child recreational anglers could ingest fish fillets containing COPCs. The fish fillet results were grouped into one data set consisting of 38 samples.

Congener-specific PCB data were available for fish samples. Because certain PCB Congeners have toxic characteristics similar to those of 2,3,7,8-tetrachlorodibenzodioxin (2,3,7,8-TCDD), the Congeners (referred to as "dioxin-like PCBs") are evaluated separately using a toxicity equivalent factor (TEF) approach. Congener-specific dioxin-like PCB data were converted into 2,3,7,8-TCDD toxicity equivalents (TEQs) using the 2,3,7,8-TCDD TEFs listed in *Regional Screening Levels* [RSLs] *for Chemical Contaminants at Superfund Sites* (EPA 2015), as recommended by EPA (2010). The PCB TEQs for each dioxin-like PCB Congener were summed on a sample-by-sample basis. Non-dioxin-like congener-specific PCB data were summed and evaluated as non-dioxin-like PCBs.

Dioxin-like PCBs:

$$TEQ_{2,3,7,8-TCDD} = \sum PCB\ concentration_{congener-specific} \times TEF_{2,3,7,8-TCDD}$$

Non-dioxin-like PCBs:

$$Non-dioxin-like\ PCB = \sum PCB\ concentration_{congener-specific}$$

In instances where Congener-specific data were reported as a Congener range (for example, Cong126-178), the result was included in the non-dioxin-like PCB total. The Congener-specific PCB data, including the summation of PCB TEQs and non-dioxin-like PCBs, are provided in Appendix B, Tables 7 and 8.

2.1.4 Sediment

Sediment samples were collected from the Lange Street Canal and the Revere Street Canal in August and September 2011 by EPA (2012). As indicated in the work plan (CH2M 2012), sediment samples collected only in areas where water is less than 3 feet deep were to be used to evaluate potential direct-contact exposures. A depth limit of 3 feet was identified based on professional judgment, with the assumption that when water is more than 3 feet deep, a person becomes buoyant and does not consistently step on sediment. The depth of water above the sediment ranges from 4.25 to 12.25 feet, with the greatest water depths located mostly in the Lange Street Canal (EPA 2012). Although recreational activities such as boating are conducted in the canals, swimming does not occur. Therefore, exposure to sediment will not be evaluated in the HHRA.

2.1.5 Storm Sewer

Storm sewer wipe samples were not addressed in the HHRA because storm sewers are confined spaces. Utility workers entering the sewers are required to use Occupational Safety and Health Administration confined-space entry training and appropriate personal protective equipment. Therefore, potential exposures to storm sewer residues were not addressed quantitatively in the HHRA.

2.1.6 Martin Drain Soil

Samples taken from soil cores collected from 0 to 10 feet bgs in August 2015 were used in the HHRA. The soil data were divided into groupings based on their location (Residential Yards, Residential Parkways/ Utility Corridors) and then subdivided into specific exposure depths as described in the following subsections.

2.1.6.1 Residential Yards and Parkways

Under current land use, residents could be exposed to COPCs in surface soil (0 to 2 feet bgs) in their yards or in parkways. Under future land use, residents could be exposed to COPCs in surface and subsurface soil situated at 0 up to 10 feet bgs (termed total soil) in the yards. Because there are digging restrictions in the parkway to prevent damage to utilities, exposures are limited to surface soil in the parkways.

Two soil data groupings were created for residential yard samples. The residential yard surface soil (0 to 2 feet bgs) data sets consist of 4 samples. The residential yard total soil (0 to 7 feet bgs) data set consists of 21 samples.

2.1.6.2 Utility Corridors/Parkways

Under current and future land use, utility workers could be exposed to COPCs in total soil (0 to 10 feet bgs) in residential parkways where utility corridors are present. The utility corridor/parkway total soil data set consists of 50 samples. The utility corridor/parkway samples were grouped by street, creating the following three soil data groupings: Bon Brae Street – 9 samples, B Street – 24 samples, and Jefferson Avenue – 17 samples.

2.2 Data Evaluation

The data from historical investigations and the sitewide RI were evaluated using the following procedures:

- A value reported as estimated (“J” qualified) was included in the HHRA if it was the only value provided for a sample, or if it was the highest reported result from a set of reported values from dilutions and/or reanalysis, given the two conditions.
- For sample locations where a duplicate sample was also collected, the greater of the “normal” or duplicate sample result was used.
- For sample locations where a split sample was also collected, the greater of the “normal” or split result was used.
- For fish fillet samples, “K” qualified results were treated as nondetected values.

2.3 Screening-Level Comparison

2.3.1 Chemicals of Potential Concern

PCBs are the only COPCs being assessed at the TMD site. The maximum detected concentration of each PCB parameter (as total PCBs, Aroclors, PCB Congeners, or PCB TEQ) was compared to its screening level. If the maximum detected concentration exceeded its screening level, then it was retained as a COPC and was evaluated further in the HHRA.

2.3.2 Screening Levels and Screening Approach

The screening levels for each environmental medium are identified in the following subsections.

2.3.2.1 Soil

Soil data were screened in two ways: (1) by data group described in Section 2.1.1 and (2) by each property and sample.

For the screening by data group, soil samples were divided into groups based on sample location and depth. The descriptive statistics were generated for each data group, and the maximum detected concentrations of total PCBs and individual Aroclors (as available) were compared to screening values in the November 2015 version of EPA's RSLs for Chemical Contaminants at Superfund Sites (EPA 2015). The RSLs are based on a noncarcinogenic hazard quotient (HQ) of 1 and a target excess lifetime cancer risk (ELCR) of 1×10^{-6}. For those PCB parameters with more than one RSL (carcinogenic and noncarcinogenic endpoint-based RSL), the lower value of the two was selected as the final RSL for that parameter. RSLs for residential soil were used for data groupings created for soil collected at residential properties, while RSLs for industrial soil were used for screening of samples collected from commercial properties and utility corridors and parkways due to the types of receptors at these exposure points.

In the screening by property and sample, soil data (only those reported as total PCBs) were compared to the MDEQ PCB cleanup levels on a sample-by-sample basis. The MDEQ PCB cleanup level for residential land use (4 mg/kg) was used for soil samples collected at residential properties, while the MDEQ PCB cleanup level for nonresidential land use (16 mg/kg) was used for screening of samples collected from commercial properties, utility corridors, and parkways. Soil samples were analyzed in a field laboratory and, for some locations, EPA submitted split samples to a fixed laboratory. Statistical analysis was used to quantify the sampling distribution variance and to develop a 99 percent upper confidence limit (UCL) based on the calculated variance. A "critical value" was determined based on the calculated variance and was used to determine if a sample is likely to be at or above the MDEQ Residential cleanup level for total PCBs. The "critical value" of 3.4 mg/kg was calculated by the EPA FIELDS Team. The value provides a conservatively adjusted criterion value based on a 99 percent confidence interval that accounts for sampling distribution variance. Based on the calculation, and assuming the data are normally distributed, there is 99 percent confidence that samples with sample concentrations below 3.4 mg/kg are below the MDEQ Residential cleanup level (4 mg/kg) (see documentation in Appendix C).

2.3.2.2 Surface Water

Surface water data collected from the outfall, the canals, and lake were screened for direct contact exposures by recreational users using the tap water RSLs (EPA 2015). The RSLs are based on a noncarcinogenic HQ of 1 and a target ELCR of 1×10^{-6}. For PCB parameters with more than one RSL (carcinogenic and noncarcinogenic endpoint-based RSL), the lower value of the two was selected as the final RSL for that parameter. The storm sewer outfall and Lange Street Canal were grouped and screened together, while the Revere Street Canal, other canals (Rio Vista and Lakecrest), and St. Claire Lake were screened separately.

2.3.2.3 Fish Fillet

Fish fillet data collected from the Lange Street and Revere Street Canals were screened against the screening levels calculated using the EPA RSL derivation methodology (EPA 2015) for fish tissue. All fish fillet data were screened as one data grouping. For fish fillets, PCB Congeners were assessed as PCB TEQ (dioxin-like PCBs), total PCBs (non-dioxin-like PCBs), and individual congeners in the screening process.

2.3.3 Results of Screening-Level Comparisons

The results of the screening-level comparison for soil, surface water, and fish fillets are presented in Appendix A, Tables 2.1 through 2.17. The results of the comparison of individual soil, sediment, and fish samples to the MDEQ PCB cleanup levels are presented in Appendix D, Tables 1 through 16.

2.3.3.1 Soil—TMD

- **Surface Soil (Residential Yards)—**Aroclor-1248, Aroclor-1254, and total PCBs exceeded their respective RSLs (Appendix A, Table 2.1). Total PCB concentrations exceeded the MDEQ PCB cleanup level at five residential properties, and exceedances were in seven samples (Appendix D, Table 1).
- **Total Soil (Residential Yards)—**Aroclor-1248, Aroclor-1254, and total PCBs exceeded their respective RSLs (Appendix A, Table 2.2). Total PCB concentrations exceeded the MDEQ PCB cleanup level at six residential properties, and exceedances were in nine samples (Appendix D, Table 2).
- **Surface Soil (Residential Parkways)—**Aroclor-1248, Aroclor-1254, and total PCBs exceeded their respective RSLs (Appendix A, Table 2.3). Total PCB concentrations exceeded the MDEQ PCB cleanup level at seven residential properties, and exceedances were in nine samples (Appendix D, Table 3).
- **Surface Soil (Commercial Yards)—**Aroclor-1248 and total PCBs exceeded their respective RSLs (Appendix A, Table 2.4). Total PCB concentrations exceeded the MDEQ PCB cleanup level at one commercial property, and exceedances were in nine samples (Appendix D, Table 4).
- **Total Soil (Commercial Yards)—**Aroclor-1248 and total PCBs exceeded their respective RSLs (Appendix A, Table 2.5). Total PCB concentrations exceeded the MDEQ PCB cleanup level at one commercial property, and exceedances were in nine samples (Appendix D, Table 5).
- **Surface Soil (Commercial Parkways)—**Aroclor-1248 and total PCBs exceeded their respective RSLs (Appendix A, Table 2.6). Total PCB concentrations did not exceeded the MDEQ PCB cleanup level (Appendix D, Table 6).
- **Total Soil (Utility Corridor along Harper Avenue)—**Aroclor-1248 and total PCBs exceeded their respective RSLs (Appendix A, Table 2.7). Total PCB concentrations did not exceeded the MDEQ PCB cleanup level (Appendix D, Table 7).
- **Total Soil (Utility Corridor along Bon Brae Street)—**Aroclor-1248 and total PCBs exceeded their respective RSLs (Appendix A, Table 2.8). Total PCB concentrations exceeded the MDEQ PCB cleanup level at two locations along Bon Brae Street, and exceedances were in four samples (Appendix D, Table 8).
- **Total Soil (Utility Corridor along Frazho Street)—**Total PCBs exceeded its RSL (Appendix A, Table 2.9). No Total PCB concentrations exceeded the MDEQ PCB cleanup level along Frazho Street (Appendix D, Table 9).
- **Total Soil (Utility Corridor along Lakeland Street)—**Aroclor-1248, Aroclor-1254, and total PCBs exceeded their respective RSLs (Appendix A, Table 2.10). Total PCB concentrations exceeded the MDEQ PCB cleanup level at one location along Lakeland Street, and exceedances were in two samples (Appendix D, Table 10).
- **Total Soil (Utility Corridor along the Ten-Mile Drain)—**Aroclor-1248 and total PCBs exceeded their respective RSLs (Appendix A, Table 2.11). Total PCB concentrations exceeded the MDEQ PCB cleanup level at five locations along the TMD, and exceedances were in five samples (Appendix D, Table 11).

2.3.3.2 Surface Water

- **Storm Sewer and Lange Street Canal—**Aroclor-1248, Aroclor-1254, and total PCB concentrations exceeded their respective RSLs in surface water (Appendix A, Table 2.12).
- **Revere Canal, Other Canals (Rio Vista** and **Lakecrest), and St. Clair Lake—**No PCBs were detected in these surface water samples.

2.3.3.3 Fish Fillets

- Concentrations of PCB TEQ, total PCBs (non-dioxin-like), and five PCB congener (105, 114, 118, 156, and 167) exceeded the RSLs in fish fillets (Appendix A, Table 2.13). The Congener-specific PCB data, including the summation of PCB TEQs and non-dioxin-like PCBs, are provided in Appendix B, Tables 2 and 3.

2.3.3.4 Soil—Martin Drain

- **Surface Soil (Residential Yards)—**PCBs were not detected in surface soil in the Martin Drain transects (Appendix D, Table 11).
- **Total Soil (Residential Yards)—**Aroclor-1248 and total PCBs exceeded their respective RSLs (Appendix A, Table 2.14). Total PCB concentrations exceeded the MDEQ PCB cleanup level at one residential property, and exceedances were in one sample (Appendix D, Table 13).
- **Total Soil (Utility Corridor along B Street)—**No PCBs exceeded their respective RSLs (Appendix A, Table 2.15 and Appendix D, Table 14).
- **Total Soil (Utility Corridor along Bon Brae Street)—**Aroclor-1248 and total PCBs exceeded their respective RSLs (Appendix A, Table 2.16). Total PCB concentrations exceeded the MDEQ PCB cleanup level at one location along Bon Brae Street, and exceedances were in one sample (Appendix D, Table 15).
- **Total Soil (Utility Corridor along Jefferson Avenue)—**No PCBs exceeded their respective RSLs (Appendix A, Table 2.17 and Appendix D, Table 16).

2.3.4 Soil Hot Spot Evaluation

A review of site soil data was conducted to assess whether potential hot spots are present that may require a separate exposure evaluation in the HHRA. The total PCB concentrations were compared to 100 times the MDEQ Soil Cleanup Criteria (that is, 4 mg/kg for residential soil and 16 mg/kg for commercial properties and utility corridors) to identify the presence of discrete areas, if any, where concentrations are considerably higher than those present in the surrounding area. No total PCB concentrations exceeded 100 times the cleanup criteria; therefore, no separate exposure evaluation is needed for soil at commercial or residential properties.

SECTION 3

Exposure Assessment

The exposure assessment consists of the following three main steps:

1. Evaluation of exposure pathways and identification of receptors
2. Estimation of exposure point concentrations (EPCs)
3. Estimation of human intake

3.1 Exposure Pathways/Scenarios Quantified

An exposure pathway can be described as the physical course that a COPC takes from the point of release (or source) to a receptor. To be complete, an exposure pathway must have all of the following components:

- A source (such as constituent residues in an environmental medium)
- A mechanism for chemical release and migration (such as surface runoff)
- An environmental transport medium (such as ambient air)
- A point of potential human contact (exposure point, such as surface soil)
- A route of intake (such as ingestion, dermal contact, or inhalation)

In the absence of any one of these components, an exposure pathway is considered incomplete and, by definition, there is no risk or hazard. In some cases, a receptor might contact a source directly, thus eliminating the release and transport pathways. The potential exposure pathways for the site are identified in Appendix A, Table 1, and illustrated on Figure 1. The potentially complete exposure pathways quantified for each receptor group and the exposure media are presented in the following subsections.

3.2 Current (Only) Exposure Scenarios

- **Residents—**The following potential exposure pathways were quantified for current residents (adult and child):
  - ***Surface Soil—***Ingestion and dermal contact exposures to total PCBs in residential yard and parkway surface soil (0 to 2 feet) were quantified for residents.
  - ***Ambient Air—***Inhalation exposures to total PCBs emitted from surface soil (0 to 2 feet) were quantified for residents.
- **Commercial Workers—**The following potential exposure pathways were quantified for current commercial workers:
  - ***Surface Soil—***Ingestion and dermal contact exposures to total PCBs in commercial yard and parkway surface soil (0 to 2 feet) were quantified for commercial workers.
  - ***Ambient Air—***Inhalation exposures to total PCBs emitted from surface soil (0 to 2 feet) were quantified for residents.

3.3 Current/Future Exposure Scenarios

- **Recreational Users—**Incidental ingestion and dermal contact exposures to total PCBs in surface water were quantified for recreational users (adult and child).
- **Recreational Angler—**Ingestion exposures to fish caught in Lange Street and Revere Street canals were quantified for recreational anglers (adult and child).

- **Utility Workers—**The following exposure pathways were quantified for utility workers:
  - ***Total Soil—***Ingestion and dermal contact exposures to total PCBs in total soil (0 to 10 feet) in utility corridors (and parkways) along Harper Avenue, Bon Brae Street, Lakeland Street, and TMD were quantified for utility workers.
  - ***Ambient Air—***Inhalation exposures to total PCBs emitted from total soil (0 to 10 feet) in utility corridors (and parkways) were quantified for utility workers.

3.3.1 Future (Only) Exposure Scenarios

- **Adult and Child Residents—**The following exposure pathways were quantified for future residents (adult and child):
  - ***Total Soil—***Ingestion and dermal contact exposures to total PCBs in total soil (0 to 3 feet) of residential yards were quantified for residents.
  - ***Ambient Air—***Inhalation exposures to total PCBs emitted from total soil (0 to 10 feet) were quantified for residents.
- **Commercial Workers—**The following exposure pathways were quantified for commercial workers:
  - ***Total Soil—***Ingestion and dermal contact exposures to total PCBs in total soil (0 to 10 feet) of commercial yards were quantified for commercial workers.
  - ***Ambient Air—***Inhalation exposures to total PCBs total soil (0 to 10 feet) were quantified for commercial workers.

3.4 Exposure Point Concentrations

EPCs were identified based on measured COPC concentrations in utility corridor/parkway soil, surface water, and fish fillet, while modeled EPCs were used to estimate air concentrations for potential air exposures (from soil through particulate emissions).

For soil in utility corridors, surface water, and fish fillet, the UCL of the mean concentration was calculated for each COPC where at least eight samples were available. The sample size of eight was used as a cutoff level of sufficient sample size to calculate a UCL. The maximum detected concentration was used in place of the UCL as the EPC when (1) the calculated UCL was greater than the maximum detected concentration, or (2) the number of samples was less than eight. In the case of surface water, there were less than eight samples in the data set; therefore, the maximum calculated total PCB concentration was used as the EPC.

EPCs were estimated following the most recent parametric (distributional) and nonparametric EPA recommendations in ProUCL Version 5.0.00 (EPA 2013). ProUCL provides approaches for calculating UCLs of the mean, particularly when nondetected concentrations are present. The approaches consider a large variety of inputs, including the perceived distribution of the detected results (if no perceived distribution is acceptable, nonparametric alternatives are provided), sample size, variability, and skewness.

For residential properties, a total PCB EPC for surface soil and total soil equal to the residential MDEQ cleanup level of 4 mg/kg was used to evaluate potential risk associated with the MDEQ residential cleanup level. For commercial properties, a total PCB EPC for surface soil and total soil equal to the non-residential MDEQ cleanup level of 16 mg/kg was used to evaluate potential risk associated with the non-residential MDEQ cleanup level.

The estimated EPCs are summarized in Appendix A, Tables 3.1 through 3.10, and the ProUCL output is provided in Appendix E.

3.5 Intake Estimates

A reasonable maximum exposure (RME) scenario was quantified for potential receptors under current and future land use scenarios (EPA 1989). The exposure factors used in the intake calculations are presented in Appendix A, Tables 4.1 through 4.4. The primary references for exposure factors are the standard default exposure factors presented in EPA guidance (EPA 2002, 2004, 2014a). The chemical-specific dermal absorption factor for PCBs in soil is 0.14 (EPA 2004).

A region-specific particulate emission factor (PEF) was calculated for use in estimation of ambient air concentrations of soil COPCs through fugitive dust emissions (Appendix A, Table 3.1a Supplemental). A PEF was calculated for residents, commercial workers, and utility workers using Equation 4-5 and Exhibit D-2 from the *Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites* (EPA 2002). Data associated with Climate Zone 7 (based on Cleveland, Ohio) and data for a 0.5-acre aerial extent of site contamination (EPA's default value) were used in the region-specific PEF calculations.

A dermal exposure frequency of 245 days per year was used in the HHRA for adult and child residents. This value is used in the calculation of MDEQ cleanup criteria for soil (MDEQ 2013) based on the climate in Michigan. An ingestion and inhalation exposure frequency of 350 days per year was used for adult and child residents (MDEQ 2013) (EPA 2014a).

The exposure frequency for recreational users is based on professional judgment. The exposure frequency of 52 days for recreational users was based on the assumption that during the warmest half of the year (26 weeks), recreational users may spend every weekend (2 days per week) outdoors and access Lange Street Canal and Revere Street Canal.

A conservative RME fish ingestion rate of 45 grams per day (g/day) was used in the HHRA for the adult angler. This value was the mean intake rate calculated by Murray and Burmaster for anglers who reported eating self-caught fish participating in a 1988 Michigan Statewide Survey to derive distributions of consumption rates for survey respondents (Murray and Burmaster 1994). The child fish ingestion rate under an RME scenario is assumed to be one-third of the adult value (15 g/day). For the purpose of developing a conservative RME, it is assumed that 100 percent of the total consumed sport-caught fish are harvested from the Lange Street and Revere Street canals. The local angler at the site is assumed to be a recreational rather than a subsistence fisher since subsistence fishers are not known to be present in the vicinity of the site.

SECTION 4

Toxicity Assessment

The toxicity assessment describes the relationship between the magnitude of exposure to a constituent and the possible severity of adverse effects, and weighs the quality of available toxicological evidence. This assessment provides, where possible, a numerical estimate of the increased likelihood and/or severity of adverse effects associated with chemical exposure (EPA 1989).

The toxicity assessment identifies the toxicity values for the COPCs used to estimate potential health effects. Health effects are divided into two broad groups–noncarcinogenic and carcinogenic. This division of classification is used because health risks are calculated differently for carcinogenic and noncarcinogenic effects, and separate toxicity values are available for carcinogenic and noncarcinogenic effects. Data from toxicity studies with laboratory animals or epidemiological studies of human populations are used to develop these toxicity values. In the risk characterization step, toxicity values were combined with exposure intakes to develop numerical estimates of carcinogenic health risks and estimates of non-cancer hazards.

The oral toxicity values (cancer slope factors [CSFs] and reference doses [RfD]) and inhalation toxicity values (inhalation unit risks [IURs] and reference concentrations [RfC]) used in the HHRA were obtained from the EPA standard hierarchy of toxicity value sources (EPA 2003), as follows:

- Tier 1 Source—Integrated Risk Information System (IRIS) (EPA 2014b)
- Tier 2 Source—EPA Provisional Peer-Reviewed Toxicity Values
- Tier 3 Sources—Other peer-reviewed federal and state toxicity values
  - California EPA toxicity database (California EPA 2012)

4.1 Noncarcinogenic Toxicity Values

Noncarcinogenic hazards typically are quantified by comparing intakes or exposures to either RfDs or RfCs. The RfD is a health-based dose, expressed as a constituent intake rate in units of milligram per kilogram per day (mg/kg-day), used in evaluating noncarcinogenic effects. The RfD is based on the assumption that thresholds exist for certain toxic effects such as liver or kidney damage, but may not exist for other toxic effects such as carcinogenicity. In general, the RfD and RfC are estimates (with uncertainty spanning perhaps an order of magnitude) of daily exposures to the human population (including sensitive subgroups) that are likely to be without an appreciable risk of deleterious effects during a lifetime of exposure (EPA 1989). The oral RfD is used to estimate adverse effects from the oral route of exposure, and the RfC is used to estimate adverse effects from inhalation exposure.

IRIS provides a non-cancer oral toxicity value for Aroclor-1254, the predominant PCB Aroclor detected in site soil. Therefore, the oral non-cancer toxicity data for Aroclor-1254 was used for non-dioxin-like PCBs and total PCBs. An inhalation RfC was not available for PCBs. Chronic oral toxicity data for potential noncarcinogenic effects of COPCs in soil, surface water, and fish fillet are presented in Appendix A, Tables 5.1 and 5.2.

4.2 Carcinogenic Toxicity Values

Potential carcinogenic risks were quantified using oral CSFs and IURs. The CSF and IUR is defined as a plausible upper-bound estimate of the probability of developing cancer per unit intake of a constituent over a lifetime (EPA 1989). In general, CSFs and IURs can be derived from the results of chronic animal bioassays, human epidemiological studies, or both. CSFs and IURs were used to estimate upper-bound lifetime

statistical probabilities of current and future receptors developing cancer as a result of exposure to COPCs in soil, surface water, and fish fillets.

The 2,3,7,8-TCDD toxicity values (the "upper-bound" dioxin slope factor) were used for PCB TEQ. IRIS provides cancer toxicity data for "High Risk and Persistence" PCBs, and indicates the use of these values for food chain exposures (such as fish fillet ingestion) and soil exposures (ingestion, inhalation, and dermal exposure if an absorption factor has been applied). IRIS also provides cancer toxicity data for "Low Risk and Persistence" PCBs, and indicates the use of these values for ingestion of water-soluble congeners (that is, surface water ingestion).

As a conservative approach, toxicity data for "High Risk and Persistence" PCBs were used to estimate carcinogenic risk from all exposure scenarios for non-dioxin-like PCBs and total PCBs. Toxicity data for potential carcinogenic effects are presented in Appendix A, Tables 6.1 and 6.2.

4.3 Derivation of Dermal Toxicity Values

Currently, the toxicity information sources listed above provide no RfDs or CSFs specific to the dermal contact exposure pathway. Following EPA's recommendation, dermal RfDs and CSFs are typically estimated based on oral RfDs and CSFs and gastrointestinal absorption factor, using the following equations:

$$Dermal\ RfD = Oral\ RfD\ \times ABS_{GI}$$

Or

$$Dermal\ CSF = Oral\ CSF / ABS_{GI}$$

However, such a conversion is performed only when a chemical is considered poorly absorbed within the gastrointestinal system (that is, a gastrointestinal absorption factor of less than 50 percent). In the case of PCBs, gastrointestinal absorption is expected to be high (80 to 96 percent) (EPA 2004); therefore, the oral RfD (or oral CSF) was used as the dermal RfD (or dermal CSF) without adjustment.

SECTION 5

Risk Characterization

Risk characterization involves estimating the magnitude of potential adverse health effects from exposure to COPCs. This estimation combines the estimated intakes (exposure levels) and toxicity factors to provide numerical estimates of potential carcinogenic risks and semi-quantitative estimates of noncarcinogenic hazards. Risk characterization also considers the nature and weight of evidence supporting these estimates, as well as the magnitude of uncertainty surrounding the estimates.

The risk estimates are intended to provide the basis for management decisions and do not predict actual health outcomes. The estimates are based on conservative (health-protective) assumptions, and thus, actual risks are likely to be less than these estimates. Potential human health risks are discussed separately for carcinogenic and noncarcinogenic effects because of the different toxicological endpoints, relevant exposure durations, and methods used to estimate risk and hazards.

5.1 Approach for Potential Noncarcinogenic Effects

The HHRA evaluated the potential for noncarcinogenic effects by comparing exposure intakes of each COPC over a specified time period (that is, chronic) with RfDs derived for similar exposure periods. In EPA methodology, this ratio of exposure to toxicity is referred to as an HQ. The HQ assumes that there is a level of exposure below which it is unlikely for even sensitive populations to experience adverse health effects. If the exposure level exceeds the threshold, then there is the potential for non-cancer health effects to occur. The HQ is calculated as follows:

$$HQ = \frac{Intake}{RfD}$$

Intake and RfD are expressed in the same units (mg/kg-da) and represent the same exposure period (chronic or subchronic). An HQ that exceeds 1 (that is, intake exceeds the RfD) indicates that there is a potential for adverse health effects associated with exposure to that COPC.

To assess the potential for noncarcinogenic health effects posed by exposure to multiple COPCs and exposure routes, a hazard index (HI) approach was used (EPA 1989). The approach assumes that noncarcinogenic hazards associated with exposure to more than one COPC and exposure route are additive. Synergistic or antagonistic interactions between COPCs are not quantified. The HI may exceed 1, even if all of the individual HQs are less than 1. The HI is equal to the sum of the HQs and is calculated as follows:

$$HI = \frac{I_1}{RfD_1} + \frac{I_2}{RfD_2} + \ldots \frac{I_i}{RfD_i}$$

Where:

I = Intake level (mg/kg-day)
RfD = Reference dose (mg/kg-day)
I_i = Intake level for the "*i*"th constituent
RfD_i = Reference dose for the "*i*"th constituent

Noncarcinogenic HIs were calculated by summing all HQs for a receptor, and target-organ-specific HIs were calculated for each potential receptor by target organ (or critical effect or target system). If a target organ specific HI exceeds 1, then there is a potential for adverse noncarcinogenic effects on that target

organ/system or critical effect. If the HI for each target organ/effect is 1 or less, then it is concluded that potential noncarcinogenic hazards do not exceed EPA's target level. Consistent with EPA guidance (EPA 1991), estimated HIs are presented with one significant figure for comparison with the HI threshold (1), and the HHRA conclusions are based on comparison of these two values.

5.2 Approach for Potential Carcinogenic Effects

The potential for carcinogenic effects due to exposure to site media was evaluated by estimating the ELCR. The ELCR is the incremental increase in the probability of developing cancer during one's lifetime (as a result of exposure to site media) above the probability of developing cancer from non-site exposures.

Potential ELCRs associated with exposure to COPCs were calculated using CSFs and chronic daily intakes for oral and dermal contact exposures and IURs and exposure concentrations (ECs) for inhalation exposures. The linear low-dose equation was used to estimate the incremental probability of an individual developing cancer over a lifetime as a result of exposure to COPCs. Estimated ELCRs are calculated by multiplying the intake by the CSF or EC by the IUR:

$$ELCR = I \times CSF \quad \text{or} \quad ELCR = EC \times IUR$$

Where:

ELCR = unitless probability of developing cancer
I = intake level (mg/kg-day)
CSF = cancer slope factor $(mg/kg\text{-}day)^{-1}$
EC = exposure concentration (microgram per cubic meter [$\mu g/m^3$])
IUR = inhalation unit risk $(\mu g/m^3)^{-1}$

The theoretical probability of developing cancer as a consequence of potential exposure to COPCs through ingestion, dermal contact, and inhalation was calculated by summing the risk estimates for each exposure route in the appropriate scenarios using the following equation:

$$Total\ ELCR = \left(I_i \times CSF_o \right) + \left(I_d \times CSF_d \right) + \left(EC \times IUR \right)$$

Where:

I_i = Intake level through ingestion (mg/kg-day)
I_d = Intake level through dermal contact (mg/kg-day)
CSF_o = Oral cancer slope factor $(mg/kg\text{-}day)^{-1}$
CSF_d = Dermal cancer slope factor $(mg/kg\text{-}day)^{-1}$
EC = Exposure concentration $(\mu g/m^3)$
IUR = Inhalation unit risk $(\mu g/m^3)^{-1}$

EPA's target range for carcinogenic risk associated with Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) sites is 1 in 10,000 (1×10^{-4}) to 1 in 1 million (1×10^{-6}). That is, the risk associated with the site should not exceed this target range.

5.3 Summary of Risk Estimates

Potential exposures to PCBs through various exposure pathways were quantified for the RME scenarios identified below. The estimated ELCRs are presented in Appendix A, Tables 7.1 through 7.16, and summarized in Appendix A, Tables 9.1 through 9.16.

The estimated total ELCRs and HIs from potential exposures to COPC are as follows:

Ten-Mile Drain

- Residential Adult/Child—Current and Future Exposure Scenarios
  - Surface Soil (0 to 2 feet) and Total Soil (0 to 3 feet)—Ingestion, dermal contact, and inhalation
    - Adult: HI ≤ 1 (Appendix A, Table 7.1 RME, summarized in Table 9.1 RME)
    - Child: HI > 1 (target organ: finger nail and eyes [HI = 3]) (Appendix A, Table 7.2 RME, summarized in Table 9.2 RME)
    - Adult/Child Aggregate: ELCR = 1 x 10^{-5} (Appendix A, Table 7.3 RME, summarized in Table 9.3 RME)
- Commercial Worker—Current and Future Exposure Scenarios
  - Surface Soil (0 to 2 feet) and Total Soil (0 to 10 feet)—Ingestion, dermal contact, and inhalation
    - HI ≤ 1 and ELCR = 2 x10^{-5} (Appendix A, Table 7.4 RME, summarized in Table 9.4 RME)
- Recreational User—Current/Future Exposure Scenario
  - Surface Water—Ingestion and dermal
    - Adult: HI > 1 (target organ: finger nail and eyes [HI = 69]) and ELCR = 8 x10^{-4} (Appendix A, Table 7.5 RME, summarized in Table 9.5 RME)
    - Child: HI > 1 (target organ: finger nail and eyes [HI = 112]) and ELCR = 4 x10^{-4} (Appendix A, Table 7.6 RME, summarized in Table 9.6 RME)
- Recreational Angler—Current/Future Exposure Scenario
  - Fish Fillet—Ingestion
    - Adult: HI > 1 (target organ: finger nail and eyes [HI = 1802]; developmental [HI = 25]) and ELCR = 2 x 10^{-2} (Appendix A, Table 7.7 RME, summarized in Table 9.7 RME)
    - Child: HI > 1 (target organ: finger nail and eyes [HI = 3204]; developmental [HI = 45]) and ELCR = 1 x10^{-2} (Appendix A, Table 7.8 RME, summarized in Table 9.8 RME)
- Utility Worker—Current and Future Exposure Scenarios
  - Total Soil (Utility Corridors along Harper Avenue)—Ingestion, dermal contact, and inhalation
    - HI ≤ 1 and ELCR = 2 x 10^{-8} (Appendix A, Table 7.9 RME, summarized in Table 9.9 RME)
  - Total Soil (Utility Corridors along Bon Brae Street—Ingestion, dermal contact, and inhalation
    - HI > 1 (target organ: finger nail and eyes [HI = 15]) and ELCR = 2 x10^{-6} (Appendix A, Table 7.10 RME, summarized in Table 9.10 RME)
  - Total Soil (Utility Corridors along Lakeland Street)—Ingestion, dermal contact, and inhalation
    - HI > 1 (target organ: finger nail and eyes [HI = 4]) and ELCR = 5 x 10^{-7} (Appendix A, Table 7.11 RME, summarized in Table 9.11 RME)
  - Total Soil (Utility Corridors along Ten-Mile Drain)—Ingestion, dermal contact, and inhalation
    - HI > 1 (target organ: finger nail and eyes [HI = 4]) and ELCR = 5 x 10^{-7} (Appendix A, Table 7.12 RME, summarized in Table 9.12 RME)

Martin Drain

- Residential Adult/Child—Current and Future Exposure Scenarios

  - Total Soil (0 to 7 feet)—Ingestion, dermal contact, and inhalation
    - Adult: HI ≤ 1 (Appendix A, Table 7.13 RME, summarized in Table 9.13 RME)
    - Child: HI > 1 (target organ: finger nail and eyes [HI = 3]) (Appendix A, Table 7.14 RME, summarized in Table 9.14 RME)
    - Adult/Child Aggregate: ELCR = 1 x 10^{-5} (Appendix A, Table 7.15 RME, summarized in Table 9.15 RME)

- Utility Worker—Current and Future Exposure Scenarios
  - Total Soil (Utility Corridors along Bon Brae Street)—Ingestion, dermal contact, and inhalation
    - HI > 1 (target organ: finger nail and eyes [HI = 34])and ELCR = 5 x 10^{-6} (Appendix A, Table 7.16 RME, summarized in Table 9.16 RME)

5.4 Summary of Chemicals of Concern

In general, chemicals of concern (COCs) are identified when the potential ELCR for a receptor group exceeds the upper end of EPA's target range (a total ELCR of 1 x 10^{-4}) for ELCR associated with CERCLA sites, which is 1 in 10,000 (1 x 10^{-4}) to 1 in 1 million (1 × 10^{-6}) or EPA's threshold HI of 1. A total ELCR or noncancer HI above the target risk range or HI threshold indicates that the site may warrant further action to reduce risks to acceptable levels. The estimated ELCR and HI for the COC are presented in Appendix A, Tables 10.1 through 10.10. A summary of the HHRA, including the COCs, is presented in Appendix D, Table 17.

Ten-Mile Drain

- Residential Soil—The estimated HI based on MDEQ's PCB cleanup level for residential land use of 4 mg/kg exceeded the HI threshold of 1 for the child resident exposure scenario, although the estimated HI for the adult resident exposure scenario and estimated ELCR for adult/child aggregate scenario were below the HI threshold and within EPA's acceptable risk range. Therefore, total PCBs were identified as a COC in residential soil.
- Commercial Soil—The commercial worker exposure scenario estimates based on MDEQ's PCB cleanup level for nonresidential land use (16 mg/kg) were within EPA's target risk range and did not exceed the HI threshold.
- Surface Water—The HI and ELCR estimates for surface water exposures exceeded the HI threshold and target risk range under both adult and child recreational exposure scenarios. Therefore, total PCBs were identified as a COC in surface water.
- Fish Fillets—HI and ELCR estimates for fish consumption exposures by recreational anglers exceeded the HI threshold and target risk range for both adult and child receptors. Therefore, both dioxin-like PCBs and non-dioxin-like PCBs were identified as COCs in fish fillets.
- Utility Corridor Soil—The estimated HIs for utility workers exceeded EPA's HI threshold in three of four exposure areas evaluated in the HHRA (Bon Brae Street, Lakeland Street, and TMD). However, the ELCRs were below or within EPA's target range. The utility-worker scenario evaluated for the data collected from utility corridors along Harper Avenue is the only exposure scenario whose estimated HI and ELCR were below EPA's HI threshold and target risk range. Therefore, total PCBs were identified as a COC in utility corridor soil.

Martin Drain

- Residential Soil—The estimated HI based on MDEQ's PCB cleanup level for residential land use of 4 mg/kg exceeded the HI threshold of 1 for the child resident exposure scenario, although the estimated HI for the adult resident exposure scenario and estimated ELCR for adult/child aggregate scenario were

below the HI threshold and within EPA's acceptable risk range. Therefore, total PCBs were identified as a COC in residential soil.

- Utility Corridor Soil—The estimated HIs for utility workers exceeded EPA's HI threshold in one of three exposure areas evaluated in the HHRA (Bon Brae Street). However, the ELCRs were below or within EPA's target range. Therefore, total PCBs were identified as a COC in utility corridor soil along Bon Brae Street.

5.5 Uncertainty Assessment

Section 5.5 presents a discussion of the assumptions and procedures that introduce the greatest amount of uncertainty in the HHRA, as well as their effect on the estimates of potential risk. The discussion of their effect is qualitative because in many instances not enough information exists to quantify the magnitude of these uncertainties.

Calculated RME ELCRs and HIs presented in Section 5.3 are estimates of potential upper-bound risks and hazards that are useful in regulatory decision-making. It is improper to consider these potential risks and hazards as representative of the actual risk and hazard to potentially exposed individuals because they were estimated by making numerous conservative assumptions (that is, assumptions that overestimate potential exposure and potential risk). Thus, they have uncertainty associated with them. Some of the assumptions have a firm scientific basis, while others do not.

Some level of uncertainty is introduced into the risk assessment process every time an assumption is made. In regulatory risk assessment, the methodology dictates that assumptions err on the side of overestimating potential exposure and risk. The effect of using numerous assumptions that overestimate potential risk is to exaggerate estimates of potential risk. Such estimates do not provide a realistic estimate of the potential health impacts associated with a site.

This uncertainty analysis is divided into subsections that correspond to the four steps in the HHRA process described by EPA.

5.5.1 Data Evaluation

Uncertainty with respect to data evaluation can arise from many sources, such as the quality of the data used to characterize the site and the process used to select data included in the risk assessment.

The data set for soil at the site represents a compilation of several sampling events. The subsets consist of samples that were collected at various times for different investigations. Combining the data sets introduces some uncertainty in the HHRA. The degree of potential overestimation or underestimation of risk resulting from combining all of the data is unknown but is not expected to be significant since all data were validated prior to use.

The sampling that was conducted at the site generally focused on areas of known or suspected impact from historical release, based on previous sampling information and observations during previous construction activities. Therefore, the uncertainty in sampling and the possibility of missing a location impacted by site constituents is expected to be minimal. The uncertainty associated with the data analysis is minimal because the data were fully validated before use in the HHRA.

5.5.2 Exposure Assessment

An exposure assessment consists of two basic elements—estimation of potential EPCs and estimation of potential intakes. The following subsections discuss important sources of uncertainty associated with these two elements.

5.5.2.1 Exposure Point Concentrations

The HHRA assumed that soil, surface water, and fish fillet EPCs remain constant throughout the exposure period within the exposure area. This assumption results in an over-estimation of risk since, because of the lack of a continuous release source, concentrations of PCBs will decrease over the exposure durations used in the HHRA. In accordance with EPA guidance (EPA 1992), the 95-percent UCL of the arithmetic mean chemical concentration was used as the EPC for each COPC in soil and groundwater. This approach likely will lead to an overestimation of actual exposure because receptors are assumed to be exposed to the 95 percent UCL concentration for the entire exposure duration.

5.5.2.2 Estimated Intakes

Significant uncertainty exists in assumptions used to calculate chemical intake from exposure to media (rate of ingestion, frequency and duration of exposure, absorption efficiency). The exposure factors used for estimating potential exposures were conservative and reflect upper-bound assumptions on exposure. The reliability of the values chosen for the exposure factors also contributes substantially to the uncertainty of the resulting risk estimates. Because most of the exposure factors are upper-bound assumptions, the resulting risks likely overestimate the actual risk. This HHRA follows EPA guidance and estimates ELCRs for a theoretical RME individual. For example, the industrial worker is assumed to dermally contact soil for 250 days per year for 25 years. Actual risks are likely to be less than the potential risks presented in this HHRA.

The future soil exposure scenario introduces additional conservatism by assuming that the subsurface soil will become surface soil during future construction activities, and that future receptors may come in contact with the soil currently situated 0 to 10 feet bgs. During many construction projects, clean fill material such as topsoil is placed over the soil that is disturbed during excavation. The topsoil material generally is needed to support growth of grass and other landscape plants. If clean fill material is used, potential future soil exposures by utility workers were overestimated.

5.5.3 Toxicity Assessment

Accepted practice divides potential health effects of interest into two general categories—noncarcinogenic effects (effects with a threshold) and carcinogenic (non-threshold) effects. In the following subsection, uncertainty associated with toxicity assessment and derivations of toxicity values (for example, RfDs and CSFs) are presented.

Significant uncertainties exist in estimated toxicity values. The uncertainties are due to experimental and epidemiological variability of the study on which the toxicological information is based, and from extrapolation from animal toxicity to humans and from high to low doses. The selection of a study (data set) and extrapolation from animal dose to an equivalent human dose are two critical factors in assessing the validity of the estimated toxicity values.

5.5.3.1 Study Selection

Study selection involves identifying a data set that provides sufficient, well-documented dose-response information to enable a valid extrapolation. In developing an oral toxicity value, all available studies examining the toxicity of a chemical following oral exposure are judged for scientific merit, and an overall evaluation is reached. Occasionally, studies based on other exposure routes (inhalation) are considered. If adequate human data are available, the data are used as the basis for the toxicity value; otherwise, animal study data are used. In these cases, professional judgments are made, including an assessment of the relevance and scientific quality of the experimental studies. In the absence of a species that is clearly the most relevant, EPA assumes that humans are at least as sensitive to the chemical as the most sensitive animal species tested. Therefore, the study on the most sensitive species (the species showing a toxic effect at the lowest administered dose) is selected as the critical study for the basis of the toxicity value (EPA 1989).

Cancer incidence data should allow for determining statistically significant elevations in the occurrence of tumors at specific target organ sites. When multiple valid studies are available, EPA typically bases the CSFs on the one study and tumor site that shows the most significant tumor incidence with increasing dose. In some cases, this selection is done in spite of total tumor incidence showing significant decreases with increasing doses or tests of the same chemical in other animal species that do not indicate a significant increase in tumor incidence. Consequently, the current study selection criteria might lead to an overestimation of potential risks in humans.

5.5.3.2 Dose Conversion

Determining human equivalent doses by conversion of doses administered to experimental animals requires that humans and animals are equally sensitive to the toxic effects of a chemical, if the same dose per unit body surface area is absorbed by each species. Further assumptions for dose conversion involve standardized scaling factors to account for differences between humans and experimental animals with respect to life span, body size, breathing rates, and other physiologic parameters. In addition, evaluation of risks with one route of administration (inhalation) when tests in animals involved a different route (ingestion) requires additional assumptions and corresponding uncertainty.

5.5.3.3 Non-cancer Toxicity

Significant uncertainties exist in estimated noncarcinogenic toxicity values. Noncarcinogenic toxicity effects are effects with a threshold. For many noncarcinogenic effects, protective mechanisms, which must be overcome before an adverse effect is manifest, are believed to exist in the human body. As a result, humans can tolerate chemical exposures ranging from zero to a certain point (threshold) without expressing adverse effects.

Several uncertainty factors (UFs) are applied to non-cancer toxicity values by EPA to account for uncertainties associated with toxicity study, database, and the derived numerical toxicity values. These UFs range between 1 and 3,000. The oral RfD for Aroclor-1254, which was used as the toxicity value for total PCBs and non-dioxin-like PCBs, has a UF of 300 due to application of the toxicity value to sensitive individuals and inter-species extrapolation (from rhesus monkeys to humans). EPA categorized the confidence of the RfD as “medium,” indicating a degree of uncertainty with this RfD value.

5.5.3.4 Carcinogenic Toxicity

The chemical concentrations to which people potentially are exposed in an environmental setting are usually much lower than the levels used in the studies from which dose-response relationships are developed. Therefore, estimating potential health effects from environmental exposure requires the use of models that allow the extrapolation of health effects.

The lack of a demonstrated threshold in dose-response relationships for carcinogens implies a finite risk of cancer even for low doses of carcinogenic chemicals (EPA 1989). EPA CSFs typically are derived using the 95 percent UCL of the slope predicted by the linearized multistage model. The multistage model assumes that carcinogenesis results from a series of interactions between the carcinogenic chemical and deoxyribonucleic acid (DNA), with the rate of interactions linearly related to dose. EPA recognizes that this method produces conservative risk estimates and that other mathematical models exist. Several other dose-response models are available for low-dose extrapolation. These include the probit (the one-hit), logit, and Weibull models (EPA 1989). There currently is not enough understanding of the biological mechanisms involved in cancer induction to suggest that any one of these models is able to predict more accurately than another model. Because each model is based on different assumptions, the estimates that are derived can differ by several orders of magnitude.

5.5.4 Risk Characterization

The potential risk of adverse health effects is characterized based on potential exposures and potential dose-response relationships. An important additional source of uncertainty is introduced in this phase of the

HHRA—the combination of upper-bound intake estimates with upper-bound toxicity estimates. Generally, the goal of a baseline HHRA is to estimate an upper-bound, but reasonable, potential risk. Such an upper-bound estimate can be derived in several ways, depending on how conservative one wants the final estimate to be. HHRAs combine several upper-bound assumptions to estimate potential risk. Most of the assumptions about exposure and toxicity used in this HHRA are representative of statistical upper-bounds for each parameter. The result of combining several such upper-bound assumptions is that the final estimate of potential exposure or potential risk is conservative.

5.5.5 Summary of Sources of Uncertainty

The large number of assumptions made in the risk calculations potentially could introduce a great deal of uncertainty. Although it is theoretically possible that this approach leads to the underestimation of potential risk, the use of numerous upper-bound assumptions almost certainly results in overestimates of potential risks. Any one individual's potential exposure and subsequent potential risk are influenced by their individual exposure and toxicity parameters and will vary on a case-by-case basis. Despite inevitable uncertainties associated with the steps used to estimate potential risks, the use of numerous health-protective assumptions will most likely lead to an overestimate of potential risks associated with site exposures.

SECTION 6

References

CH2M (CH2M HILL). 2012. *Work Plan for Ten-Mile Drain Site, St. Clair Shores, Macomb County, Michigan.* Remedial Investigation/Feasibility Study. September.

CH2M (CH2M HILL). 2014*. Interim Deliverable for the Human Health Risk Assessment – RAGS Part D Tables – Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan, WA No. 165-RICO-B5BP/Contract No. EP-S5-06-01*. April.

California EPA. 2012. Toxicity Criteria Database. Office of Environmental Health Hazard Assessment. [Online]. Available: http://www.oehha.ca.gov/risk/ChemicalDB/index.asp.

Macomb County Drain Commission. 1962. – Maps

Michigan Department of Environmental Quality (MDEQ). 2009. *Site Inspection Report for the St. Clair Shores Drain.* St. Clair Shores, Michigan. U.S. EPA ID No. MID000510063. December.

Michigan Department of Environmental Quality (MDEQ). 2013. Cleanup Criteria Requirements for Response Activity. R 299.18 - Cleanup criteria for soil generally.

Murray, D.M. and Burmaster, D. E. (Murray and Burmaster). 1994. Estimated distribution for average daily consumption of total and self-caught fish for adults in Michigan angler households. Risk Analysis 14(4): 513-9.

U.S. Environmental Protection Agency (EPA). 1989. *Risk Assessment Guidance for Superfund, Volume 1, Human Health Evaluation Manual (Part A)*. EPA/540/1-89/002.

U.S. Environmental Protection Agency (EPA). 1991. *RAGS: Volume 1—HHEM Supplemental Guidance. Standard Default Exposure Factors.* Interim Final. Office of Solid Waste and Emergency Response. OSWER Directive 9285.6-03.

U.S. Environmental Protection Agency (EPA). 1992. *Supplemental Guidance to RAGS: Calculating the Concentration Term*. Office of Solid Waste and Emergency Response, Washington, DC. OSWER Directive 9285.7-081.5.

U.S. Environmental Protection Agency (EPA). 2001. *Risk Assessment Guidance for Superfund: Volume I. Human Health Evaluation Manual (Part D, Standardized Planning, Reporting, and Review of Superfund Risk Assessments).* Final. Office of Emergency and Remedial Response. 9285.7-47. December.

U.S. Environmental Protection Agency (EPA). 2002. *Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites.* OSWER 9355.4-24.

U.S. Environmental Protection Agency (EPA). 2003. *Human Health Toxicity Values in Superfund Risk Assessments*. OSWER Directive 9285.7-53. December 5.

U.S. Environmental Protection Agency (EPA). 2004. *Risk Assessment Guidance for Superfund (RAGS), Volume 1—Human Health Evaluation Manual (HHEM) (Part E) Supplemental Guidance for Dermal Risk Assessment*. EPA/540/R/99/005. Final. Office of Emergency and Remedial Response. July.

U.S. Environmental Protection Agency (EPA). 2009. R*isk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part F, Supplemental Guidance for Inhalation Risk Assessment).* EPA-540-R-070-002. OSWER 9285.7.82. January.

U.S. Environmental Protection Agency (EPA). 2010. *Recommended Toxicity Equivalence Factors (TEFs) for Human Health Risk Assessments of 2,3,7,8-Tetrachlorodibenzo-p-dioxin and Dioxin-Like Compounds.* EPA/100/R 10/005. December.

U.S. Environmental Protection Agency (EPA). 2012. *Lange and Revere Street Canals Sediment Sampling Report*. Region V. FIELDS Program. June.

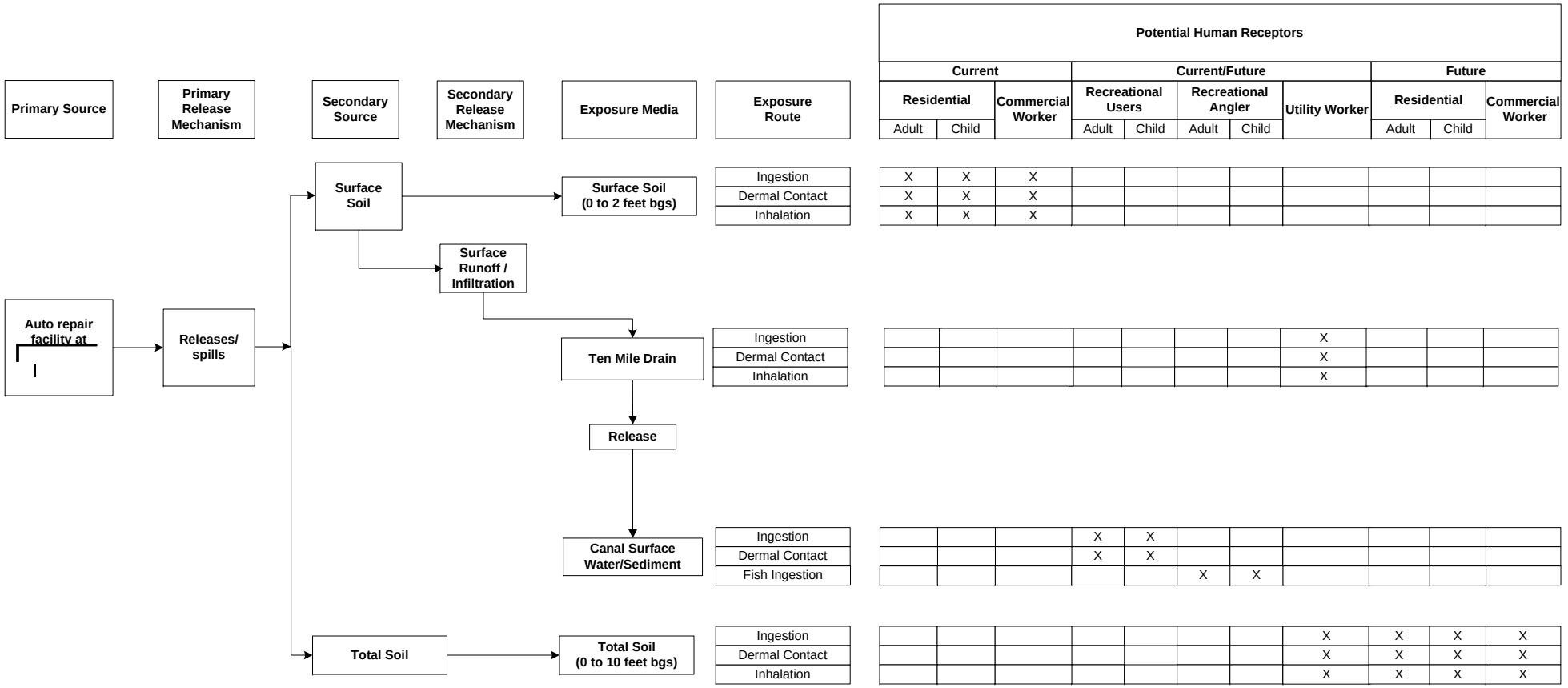
U.S. Environmental Protection Agency (EPA). 2013. ProUCL, Version 5.0.00. Prepared by Lockheed Martin Environmental Services. September.

U.S. Environmental Protection Agency (EPA). 2014a. *Human Health Evaluation Manual, Supplemental Guidance: Update of Standard Default Exposure Factors.* OSWER Directive 9200.1-120. February.

U.S. Environmental Protection Agency (EPA). 2014b. *Integrated Risk Information System (IRIS) Database*. http://www.epa.gov/iris/index.html.

U.S. Environmental Protection Agency (EPA). 2015. *Regional Screening Levels for Chemical Contaminants at Superfund Sites*. November.

Figures



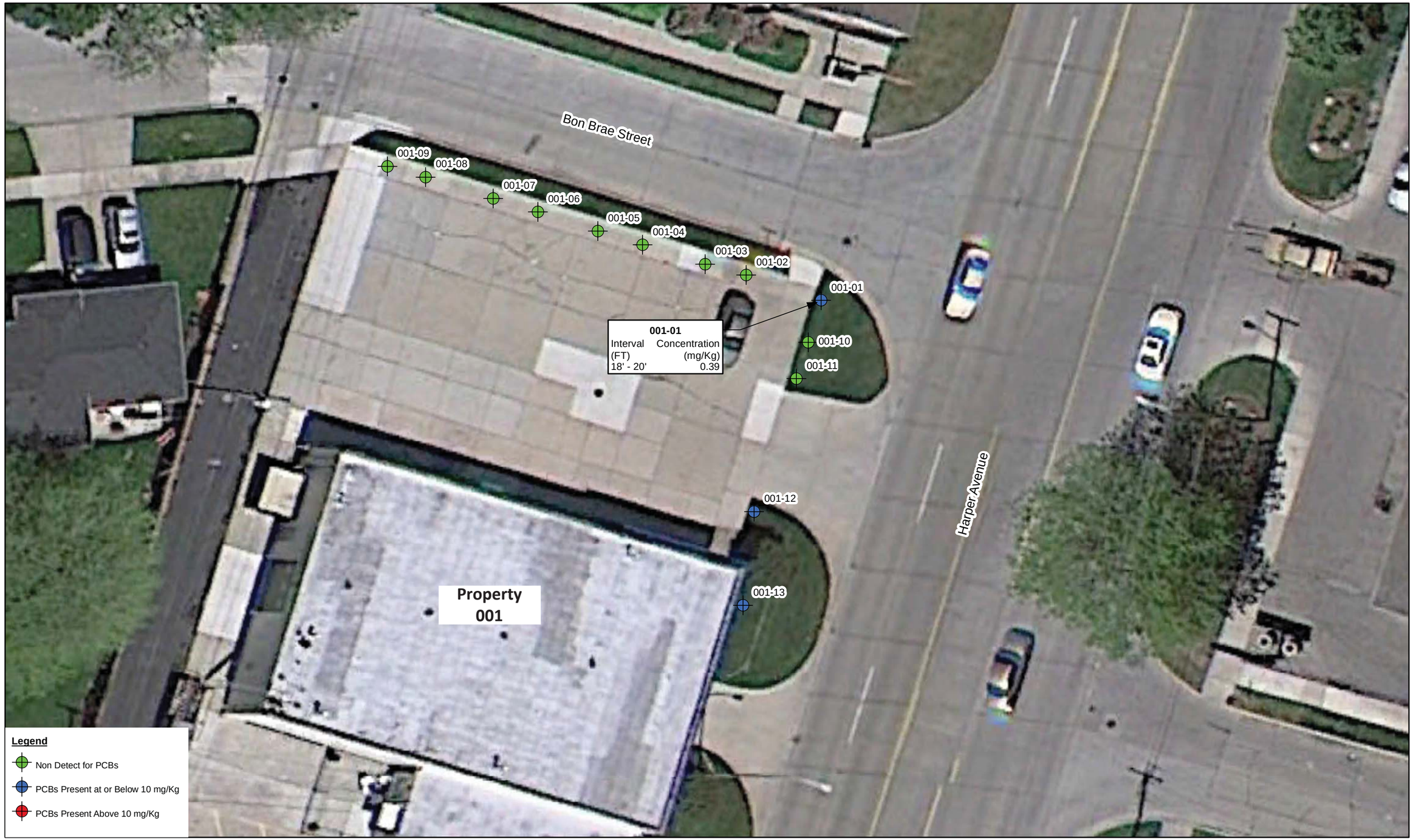
Legend
X – Potentially complete exposure pathways identified
1 – Sediment exposure is considered insignificant and is not evaluated

Figure 1
Human Health Conceptual Site Model
Ten Mile Drain, St. Clair Shores, Michigan

Note:
©2013 Google Aerial Dated May 9, 2010

FIGURE 2
Site Location and Investigation Areas Map
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

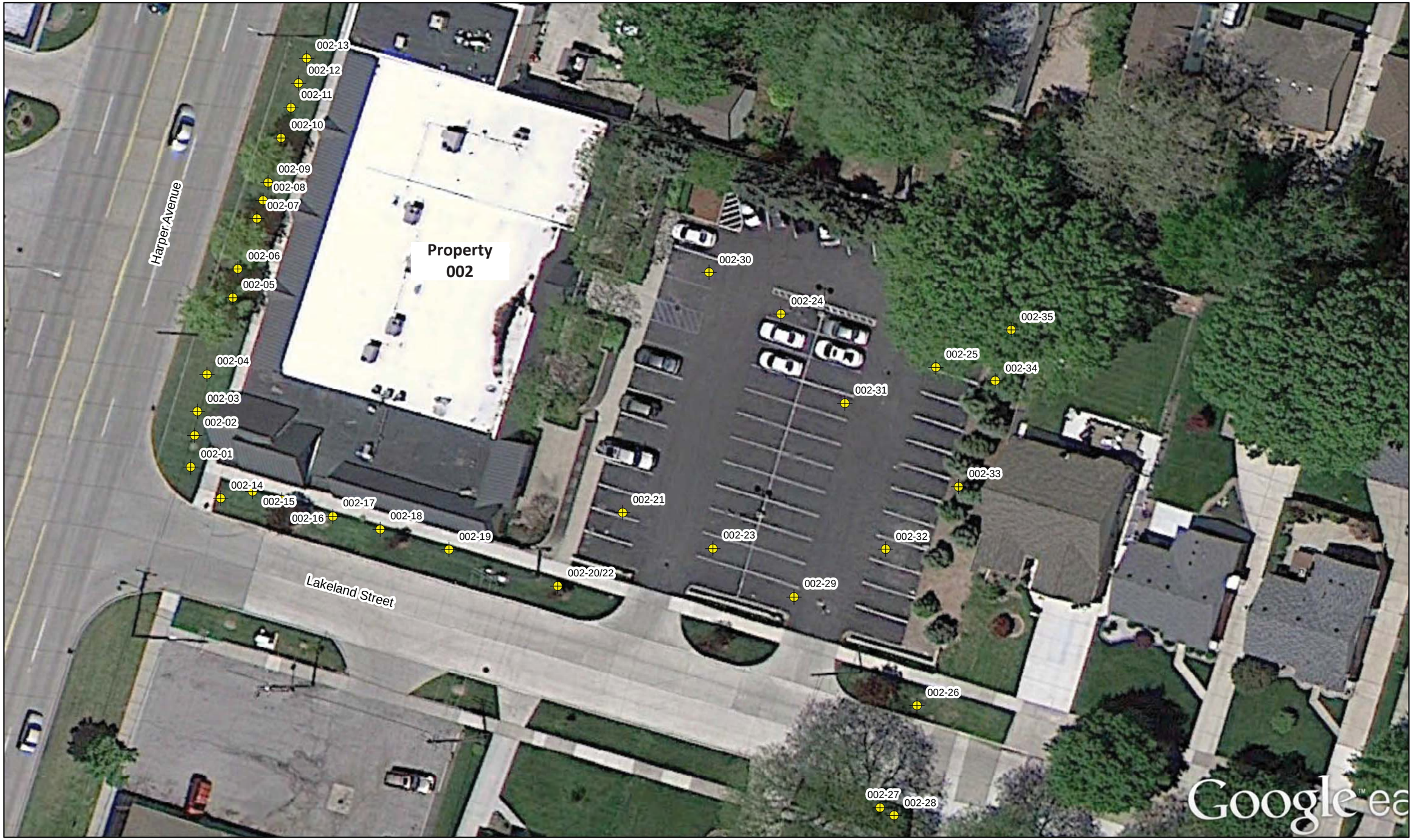
CH2MHILL



Note:

1. ©Google Aerial Dated May 9, 2010
2. All Samples Soil Borings Locations Begin with th prefix "TMD-SO-".
3. Soil borings are color coded based upon the greatest concentration detected within the boring. Except where noted, the greatest concentration of PCBs in a boring occurred within the 0 to 1 foot interval.

FIGURE 3
DPT Soil Boring Locations at Property 001
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan



N

0 30 60 Feet

Note:

1. ©Google Aerial Dated May 9, 2010
2. All Samples Soil Borings Locations Begin with the prefix "TMD-SO-".

FIGURE 4
DPT Soil Boring Locations at Property 002
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

Legend

Figure, Name

- Front Yard
- Parkway
- Back Yard
- Commercial Property

N

0 25 50

Approximate scale in feet

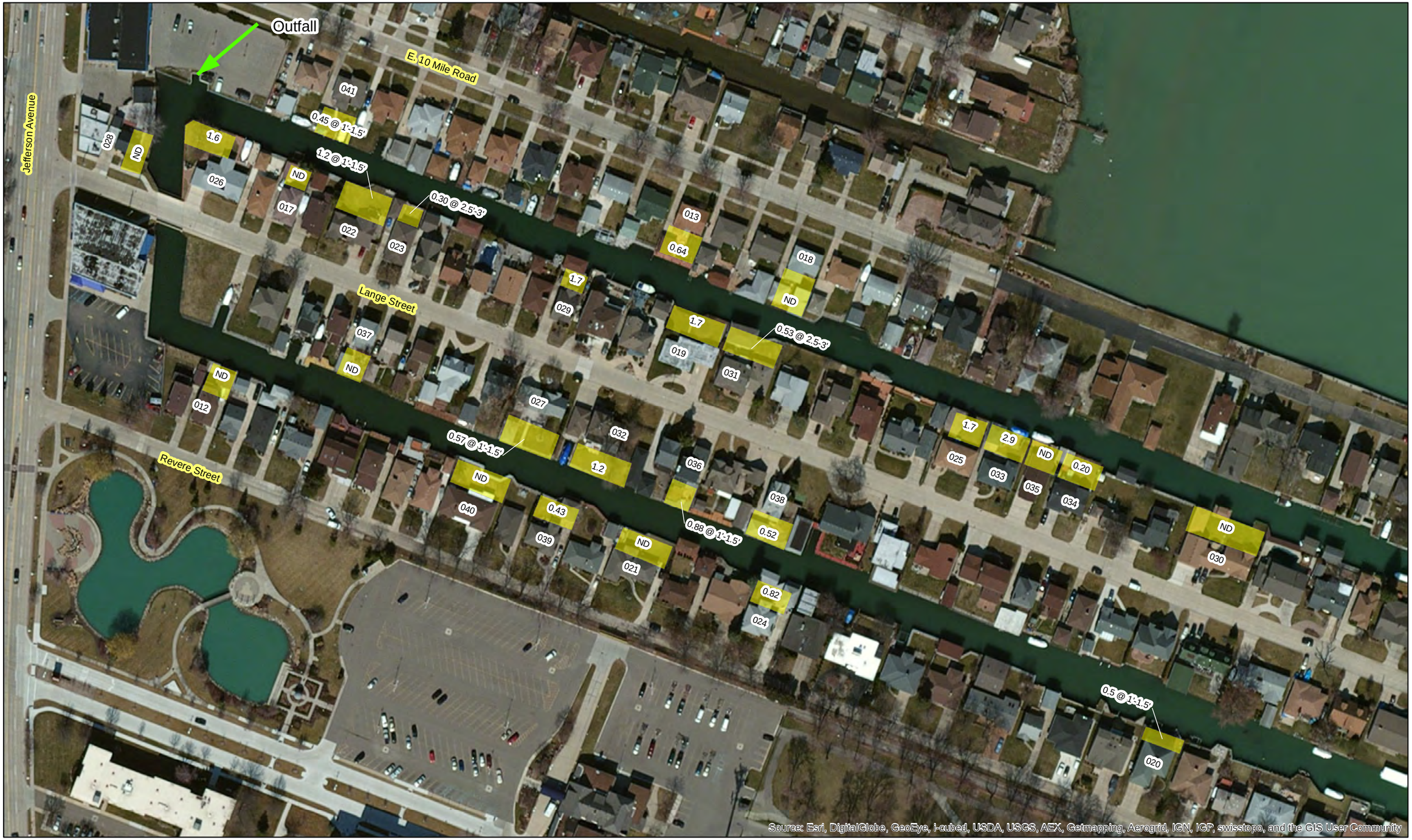
Notes:

1. ©Google Aerial Dated May 9, 2010

FIGURE 5
Bon Brae Street Residential Soil Sampling Locations
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

CH2MHILL

\\cypress\proj\Army Corp\St Clair Shores\mcds\Remedial Investigation\Figure Renumber\TenMileDrain_Figure4_RI_June2014.mxd 06/30/2014



N

0 75 150

Approximate scale in feet

Legend

Back Yard

ND Non Detect for PCBs

Notes:

1. Hightest Concentrations for yard area are reported.
2. Highest concentrations occurred in the 0'-0.5' interval unless otherwise noted.

FIGURE 6
Lange Revere Street Canals
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

\\cypress\proj\Army Corp\St Clair Shores\MXDs\Remedial Investigation\Figure Renumber\TenMileDrain_Figure5_RI_June2014.mxd 06/30/2014

CH2MHILL

N

0 40 80

Approximate scale in feet

Legend

- Front Yard
- Parkway
- Back Yard
- Commercial Property

Notes:

1. ©Google Aerial Dated May 9, 2010
2. 2.2 @ 21606 Lakeland is combined parkway and yard results.
3. Sample collected from 0-6 inch interval unless otherwise specified.
4. All resuls in mg/kg (parts per million).
5. 0XX indicates property location ID.
6. Red = Above 4 ppm, Blue = Below 4 ppm

Figure 7
Lakeland Street Residential Soil Sampling Locations
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

CH2MHILL

\\cypress\proj\Army Corp\St Clair Shores\MXDs\Remedial Investigation\Figure Renumber\TenMileDrain_Figure6_RI_June2014.mxd 06/30/2014

N

0 50 100

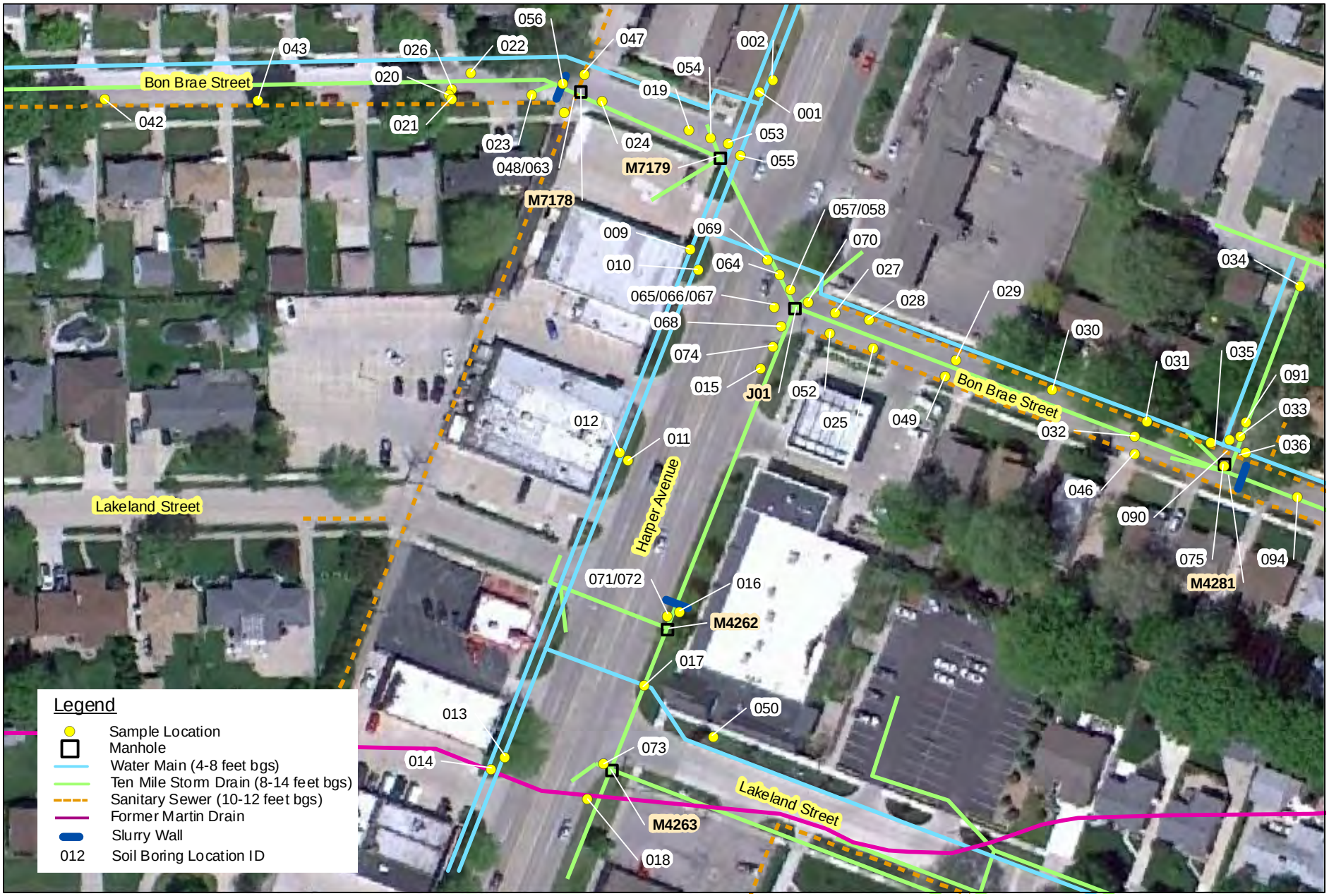
Approximate scale in feet

Note:

1. Imagery Date - May 9, 2010
2. bgs = below ground surface

FIGURE 8
Sample Locations Closeup Area 1
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL



N

0 50 100

Approximate scale in feet

Note:

1. Imagery Date - May 9, 2010
2. bgs = below ground surface

FIGURE 9
Sample Locations Closeup Area 2
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

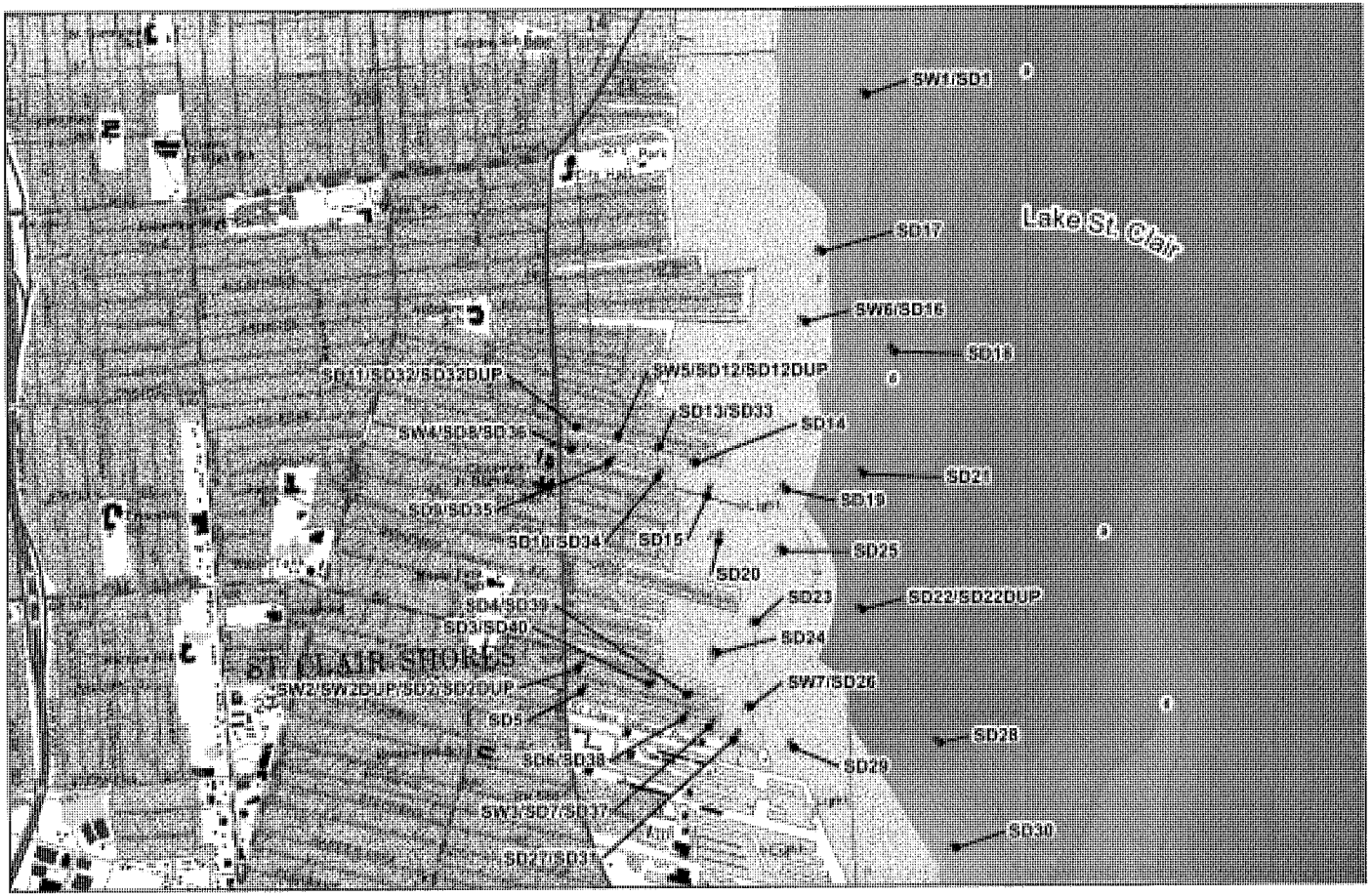
CH2MHILL

Note:

1. Imagery Date - May 9, 2010
2. bgs = below ground surface

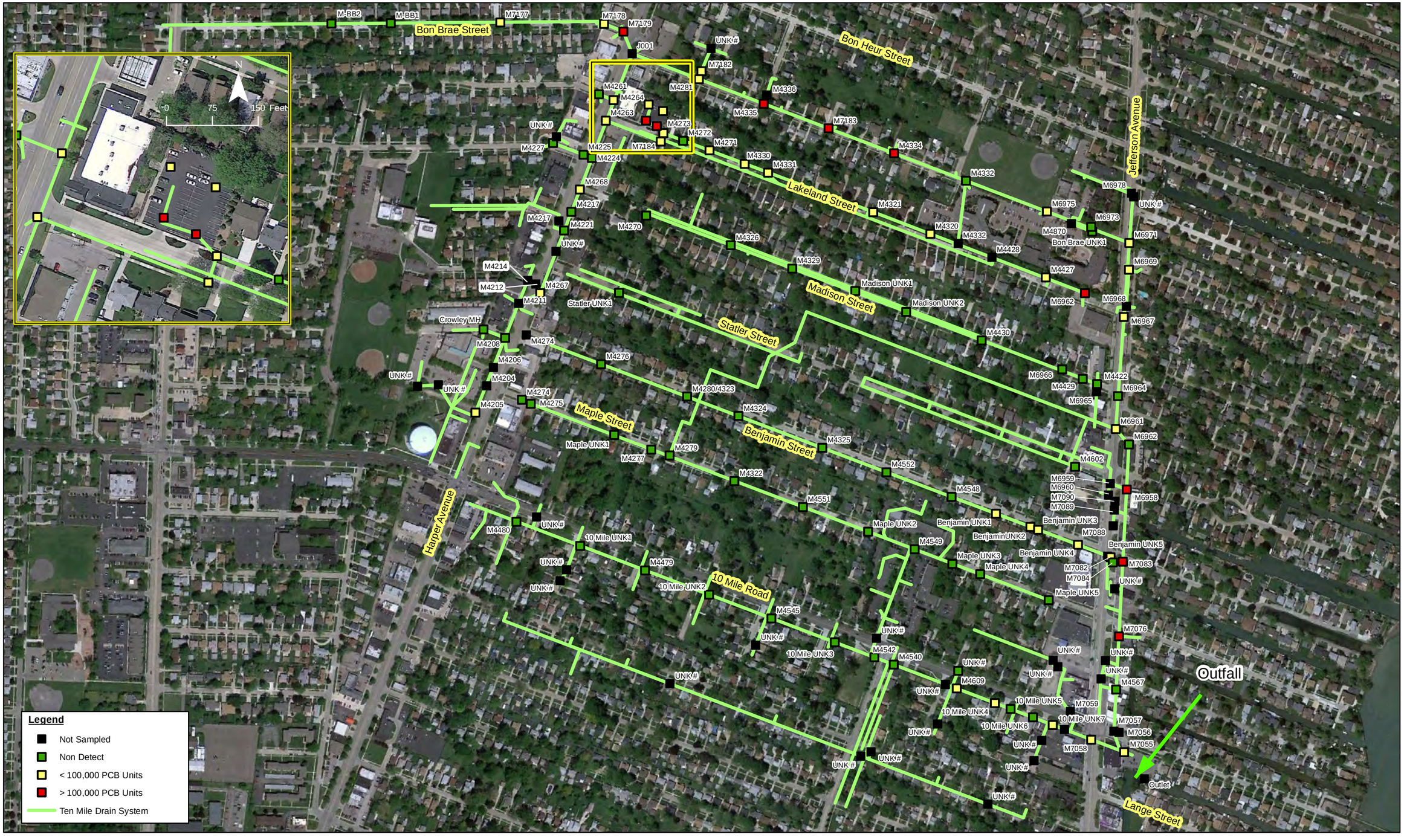
FIGURE 10
Sample Locations Closeup Area 3
Ten-Mile Drain Source Area Investigation
Saint Clair Shores, Michigan

CH2MHILL



Sources: MDEQ 2008 (sample locations), MDIT 2009 (topographic map, lake bathymetry), Weston 2007 (site location)

Figure 11
Surface Water/Sediment Sample Locations
(Source: Michigan Department of Environmental Quality (MDEQ). 2009. Site Inspection Report for the St. Clair Shores Drain)



N

0 195 390

Approximate scale in feet

Note:
©Google Aerial May 9, 2010

FIGURE 12
Manhole Locations
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

N

0 30 60 Feet

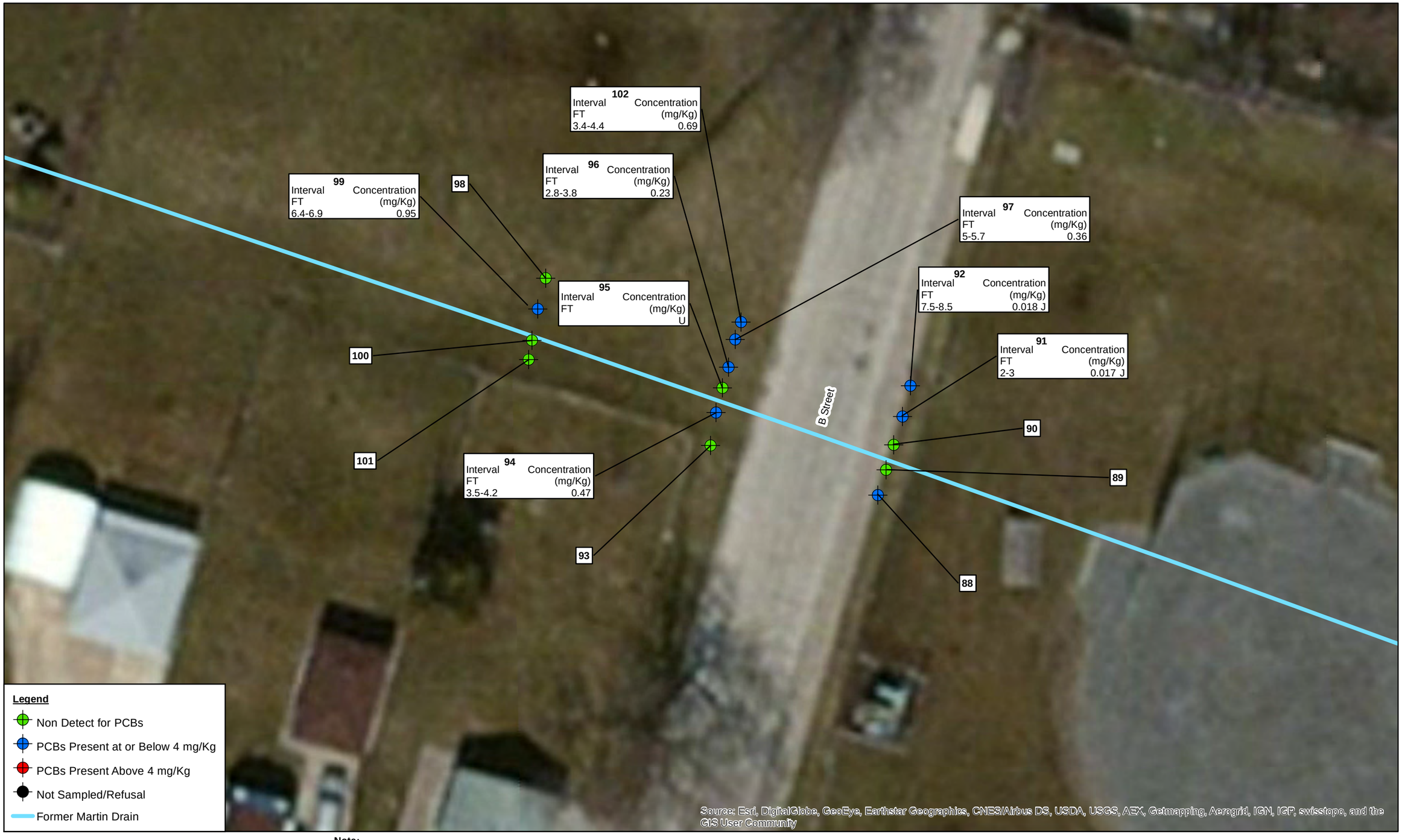
Note:

1. ©Google Aerial Dated May 9, 2010
2. All soil boring locations begin with the prefix "TMD-SO-".
3. Soil borings are color coded based upon the greatest concentration detected within the boring.

FIGURE 13
Former Martin Drain Soil Sampling
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

CH2MHILL

\\cypress\proj\army corp\Saint Clair Shores\MXDs\Remedial Investigation\Figure Renumber\TenMileDrain_Figure9_RI.mxd



N

0 20 40 Feet

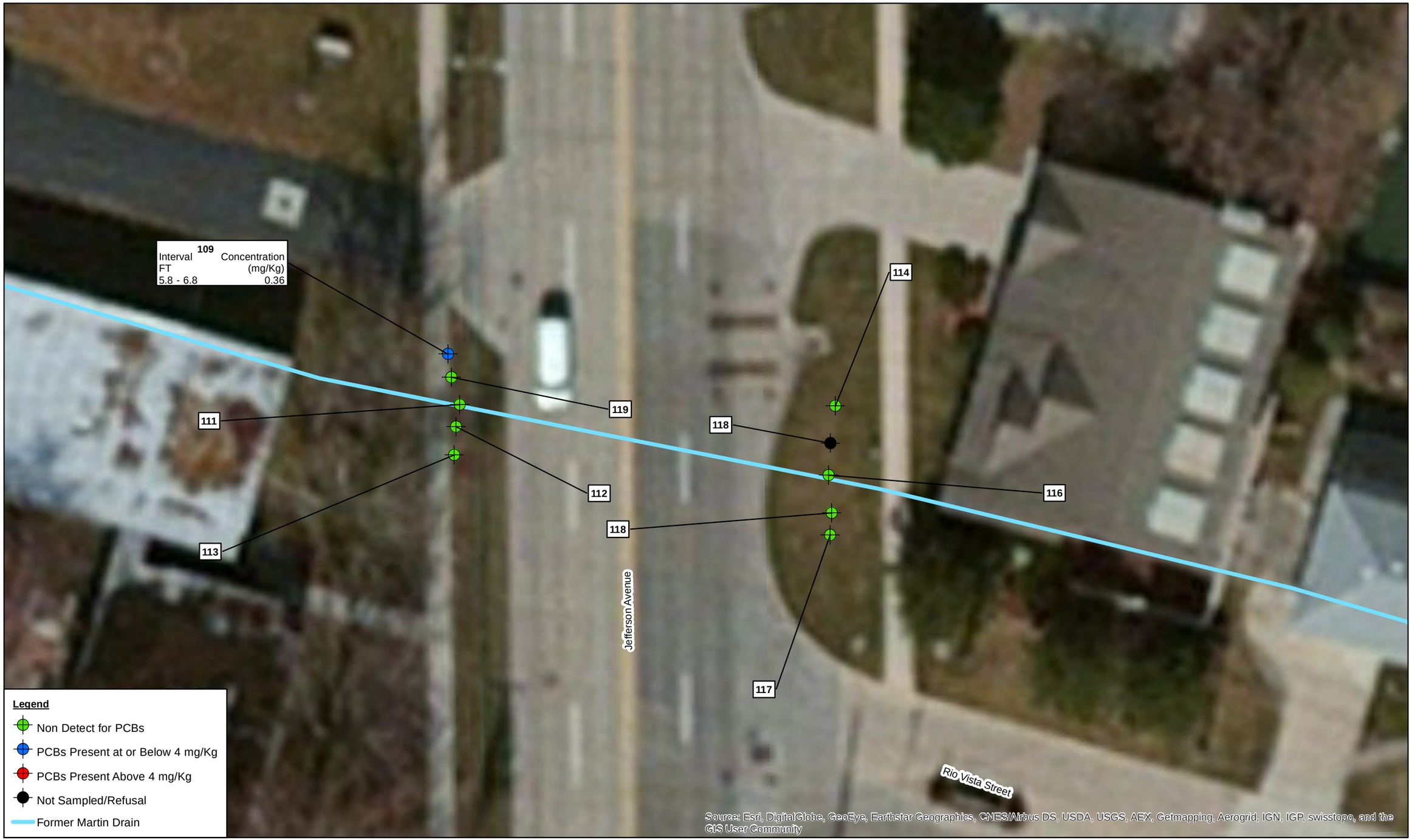
Note:

1. ©Google Aerial Dated May 9, 2010
2. All soil boring locations begin with the prefix "TMD-SO-".
3. Soil borings are color coded based upon the greatest concentration detected within the boring.

FIGURE 14
Former Martin Drain Soil Sampling
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

CH2MHILL

\\cypress\proj\army corp\Saint Clair Shores\MXDs\Remedial Investigation\Figure Renumber\TenMileDrain_Figure10_RI.mxd



N

0 20 40 Feet

Note:

1. ©Google Aerial Dated May 9, 2010
2. All soil boring locations begin with the prefix "TMD-SO-".
3. Soil borings are color coded based upon the greatest concentration detected within the boring.

FIGURE 15
Former Martin Drain Soil Sampling
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

Appendix A
RAGS Data Tables

TABLE 1
SELECTION OF EXPOSURE PATHWAYS
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	On-Site/ Off-Site	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
Current	Soil	Surface Soil (0-2 ft)	Ten Mile Drain and Martin Drain Surface Soil (1) (0 - 2 ft)	Residents	Adult, Child	Dermal, Ingestion	On-site	Quant	Residents may contact surface soil on residential properties (yards and parkways).
				Commercial Workers	Adult	Dermal, Ingestion	On-site	Quant	Commercial workers may contact surface soil on non-residential properties (yards and parkways).
		Ambient Air	Ten Mile Drain and Martin Drain Emissions from Surface Soil (1)	Residents	Adult, Child	Inhalation	On-site	Quant	Residents may inhale dusts impacted by surface soil constituents.
				Commercial Workers	Adult	Inhalation	On-site	Quant	Commercial workers may inhale dusts impacted by surface soil constituents.
Current/Future	Soil	Total Soil (0-10 ft)	Ten Mile Drain and Marin Drain Total Soil (1, 4, 5) (0 - 10 ft)	Utility Workers	Adult	Dermal, Ingestion	On-site	Quant	Utility workers may contact total soil in utility corridors and parkways.
		Ambient Air	Ten Mile Drain and Martin Drain Emissions from Total Soil (1, 4, 5)	Utility Workers	Adult	Inhalation	On-site	Quant	Utility workers may inhale dusts impacted by soil constituents.
	Surface Water	Surface Water	Storm Sewer Outfall & Lange Street Canal, and Revere Street Canal (2)	Recreational User	Adult, Child	Dermal, Ingestion	On-site	Quant	Recreators may contact surface water at the outfall and in the canals during recreational use (jet-skiing, boating, or irrigation); swimming does not occur.
	Sediment	Sediment	Storm Sewer Outfall & Lange Street Canal, and Revere Street Canal	Recreational User	Adult, Child	Dermal, Ingestion	On-site	Qual	There are no locations in the canals where water depth is <3 ft deep; therefore, exposures to sediment are considered negligible.
	Fish	Fish Tissue	Lange Street Canal and Revere Street Canal Fish Fillets (3)	Recreational Angler	Adult, Child	Ingestion	On-site	Quant	Recreators may consume fish caught from the Lange Street Canal and Revere Street Canal.
Future	Soil	Total Soil (0-10 ft)	Ten Mile Drain and Martin Drain Total Soil (1, 4, 5) (0 - 10 ft)	Residents	Adult, Child	Dermal, Ingestion	On-site	Quant	Residents may contact total soil on residential properties (yards).
				Commercial Workers	Adult	Dermal, Ingestion	On-site	Quant	Commercial workers may contact surface soil on non-residential properties (yards).
		Ambient Air	Ten Mile Drain and Martin Drain Emissions from Total Soil (1, 4, 5)	Residents	Adult, Child	Inhalation	On-site	Quant	Residents may inhale dusts impacted by soil constituents.
				Commercial Workers	Adult	Inhalation	On-site	Quant	Commercial workers may inhale dusts impacted by soil constituents.

Notes:
(1) Analytical results from the residential and commercial properties are evaluated separately in the HHRA. Ten Mile Drain and Martin Drain areas are evaluated separately.
Risk estimates for PCBs will be calculated based on the following scenarios: 1) 4 mg/kg in residential parkway, 2) 4 mg/kg in residential yard; 3) 16 mg/kg in commercial parkway, 4) 16 mg/kg in commercial yard, 5) calculated exposure point concentrations in ut
(2) Surface water in Storm Sewer Outfall & Lange Street Canal will be evaluated together; surface water in Revere Street Canal will be evaluated separately.
(3) Fish fillet data will be used to assess ingestion of fish. Fish caught from the Lange Street Canal and the Revere Street Canal will be grouped and evaluated as one exposure area.
(4) For future exposures, it is assumed that future invasive activities may disturb soil in the shallow subsurface (0 to 10 feet bgs) and bring current subsurface soil to the ground surface where contact may occur.
(5) Residents and commercial workers are restricted from digging in parkways; therefore, only total soil in residential and commercial yards are evaluated for these receptors.

PCB - Polychlorinated biphenyl
mg/kg - milligram/kilogram
Quant - Quantitative
Qual - Qualitative

TABLE 2.1.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current
Medium: Surface Soil (Residential Yards)
Exposure Medium: Surface Soil (Residential Yards)

Exposure Point	CAS Number	Chemical	Minimum Concentration Qualifier	Maximum Concentration Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
Surface Soil (0 -2 ft) Residential Yards	PCB-1248	Aroclor-1248	1.16E-01	8.00E+00	mg/Kg	TMD-043	88 / 166	0.019 - 0.42	8.00E+00	NA	2.3E-01	ca	NA	NA	Yes	ASL (4)
	PCB-1254	Aroclor-1254	2.20E-01 J	4.60E+00	mg/Kg	TMD-077	26 / 166	0.019 - 0.43	4.60E+00	NA	2.4E-01	ca	NA	NA	Yes	ASL (4)
	TOTPCB	Total PCBs	1.26E-01	9.40E+00	mg/Kg	TMD-077	92 / 166	0.019 - 0.42	9.40E+00	NA	2.4E-01	ca	4.00E+00	MDEQ	Yes	ASL

(1) Maximum detected concentration is used for screening.

Total PCBs = Total PCBs were calculated for all samples by summing Aroclors. Individual Aroclors are displayed when they are available.

(2) Regional Screening Levels (RSLs) for residential soil (November 2015), based on a risk level of 1 x 10^{-6} and an HQ = 1.

(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

(4) Aroclor data were evaluated using Total PCBs.

COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered
MDEQ = The Michigan Department of Environmental Quality residential cleanup criteria of 4 mg/kg.
ca = Carcinogenic
nc = Noncarcinogenic
NA = Not available
RSL = Regional Screening Level
HQ = Hazard Quotient
J = Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
PCB = Polychlorinated Biphenyl

TABLE 2.2.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Future
Medium: Total Soil (Residential Yards)
Exposure Medium: Total Soil (Residential Yards)

Exposure Point	CAS Number	Chemical	Minimum Concentration Qualifier	Maximum Concentration Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
Total Soil (0 -3 ft) Residential Yards	PCB-1248	Aroclor-1248	1.16E-01	8.00E+00	mg/Kg	TMD-043	110 / 242	0.019 - 0.44	8.00E+00	NA	2.3E-01	ca	NA	NA	Yes	ASL (4)
	PCB-1254	Aroclor-1254	9.15E-02 J	4.60E+00	mg/Kg	TMD-077	27 / 242	0.019 - 0.44	4.60E+00	NA	2.4E-01	ca	NA	NA	Yes	ASL (4)
	TOTPCB	Total PCBs	1.26E-01	9.40E+00	mg/Kg	TMD-077	114 / 242	0.019 - 0.44	9.40E+00	NA	2.4E-01	ca	4.00E+00	MDEQ	Yes	ASL

(1) Maximum detected concentration is used for screening.

Total PCBs = Total PCBs were calculated for all samples by summing Aroclors. Individual Aroclors are displayed when they are available.

(2) Regional Screening Levels (RSLs) for residential soil (November 2015), based on a risk level of 1 x 10^{-6} and an HQ = 1.

(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

(4) Aroclor data were evaluated using Total PCBs.

COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered
MDEQ = The Michigan Department of Environmental Quality residential cleanup criteria of 4 mg/kg.
ca = Carcinogenic
nc = Noncarcinogenic
NA = Not available
RSL = Regional Screening Level
HQ = Hazard Quotient
J = Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
PCB = Polychlorinated Biphenyl

TABLE 2.3.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current
Medium: Surface Soil (Residential Parkways)
Exposure Medium: Surface Soil (Residential Parkways)

Exposure Point	CAS Number	Chemical	Minimum Concentration Qualifier	Maximum Concentration Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
Surface Soil (0 -2 ft) Residential Parkways	PCB-1248	Aroclor-1248	2.00E-01 J	8.90E+01	mg/Kg	TMD-002-27	20 / 27	0.0192 - 0.39	8.90E+01	NA	2.3E-01	ca	NA	NA	Yes	ASL (4)
	PCB-1254	Aroclor-1254	1.90E-01	4.60E+00	mg/Kg	TMD-053	10 / 27	0.0192 - 0.39	4.60E+00	NA	2.4E-01	ca	NA	NA	Yes	ASL (4)
	TOTPCB	Total PCBs	2.44E-01	8.92E+01	mg/Kg	TMD-002-27	21 / 27	0.0192 - 0.39	8.92E+01	NA	2.4E-01	ca	4.00E+00	MDEQ	Yes	ASL

(1) Maximum detected concentration is used for screening.

Total PCBs = Total PCBs were calculated for all samples by summing Aroclors. Individual Aroclors are displayed when they are available.

(2) Regional Screening Levels (RSLs) for residential soil (November 2015), based on a risk level of 1 x 10^{-6} and an HQ = 1.

(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

(4) Aroclor data were evaluated using Total PCBs.

COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered
MDEQ = The Michigan Department of Environmental Quality residential cleanup criteria of 4 mg/kg.
ca = Carcinogenic
nc = Noncarcinogenic
NA = Not available
RSL = Regional Screening Level
HQ = Hazard Quotient
J = Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
PCB = Polychlorinated Biphenyl

TABLE 2.4.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current
Medium: Surface Soil (Commercial Yards)
Exposure Medium: Surface Soil (Commercial Yards)

Exposure Point	CAS Number	Chemical	Minimum Concentration Qualifier	Maximum Concentration Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
Surface Soil (0 -2 ft) Commercial Yards	PCB-1248	Aroclor-1248	6.10E-01	5.30E+02	mg/Kg	TMD-002-30	12 / 12	-	5.30E+02	NA	9.5E-01	ca	NA	NA	Yes	ASL (4)
	PCB-1254	Aroclor-1254	2.08E-01	2.08E-01	mg/Kg	TMD-002-23	1 / 12	0.33 - 0.42	2.08E-01	NA	9.7E-01	ca	NA	NA	No	BSL
	TOTPCB	Total PCBs	8.00E-01	5.30E+02	mg/Kg	TMD-002-30	12 / 12	-	5.30E+02	NA	9.7E-01	ca	1.60E+01	MDEQ	Yes	ASL

(1) Maximum detected concentration is used for screening.

Total PCBs = Total PCBs were calculated for all samples by summing Aroclors. Individual Aroclors are displayed when they are available.

(2) Regional Screening Levels (RSLs) for industrial soil (November 2015), based on a risk level of 1 x 10^{-6} and an HQ = 1.

(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

(4) Aroclor data were evaluated using Total PCBs.

COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered
MDEQ = The Michigan Department of Environmental Quality non-residential cleanup criteria of 16 mg/kg.
ca = Carcinogenic
nc = Noncarcinogenic
NA = Not available
RSL = Regional Screening Level
HQ = Hazard Quotient
PCB = Polychlorinated Biphenyl

TABLE 2.5.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Future
Medium: Total Soil (Commercial Yards)
Exposure Medium: Total Soil (Commercial Yards)

Exposure Point	CAS Number	Chemical	Minimum Concentration Qualifier	Maximum Concentration Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
Total Soil (0 -10 ft) Commercial Yards	PCB-1248	Aroclor-1248	1.70E-01 J	5.30E+02	mg/Kg	TMD-002-30	19 / 25	0.34 - 0.41	5.30E+02	NA	9.5E-01	ca	NA	NA	Yes	ASL (4)
	PCB-1254	Aroclor-1254	2.08E-01	2.08E-01	mg/Kg	TMD-002-23	1 / 25	0.33 - 0.42	2.08E-01	NA	9.7E-01	ca	NA	NA	No	BSL
	TOTPCB	Total PCBs	3.45E-01	5.30E+02	mg/Kg	TMD-002-30	19 / 25	0.34 - 0.41	5.30E+02	NA	9.7E-01	ca	1.60E+01	MDEQ	Yes	ASL

(1) Maximum detected concentration is used for screening.

Total PCBs = Total PCBs were calculated for all samples by summing Aroclors. Individual Aroclors are displayed when they are available.

(2) Regional Screening Levels (RSLs) for industrial soil (November 2015), based on a risk level of 1 x 10^{-6} and an HQ = 1.

(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

(4) Aroclor data were evaluated using Total PCBs.

COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered
MDEQ = The Michigan Department of Environmental Quality non-residential cleanup criteria of 16 mg/kg.
ca = Carcinogenic
nc = Noncarcinogenic
NA = Not available
RSL = Regional Screening Level
HQ = Hazard Quotient
J = Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
PCB = Polychlorinated Biphenyl

TABLE 2.6.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current
Medium: Surface Soil (Commercial Parkways)
Exposure Medium: Surface Soil (Commercial Parkways)

Exposure Point	CAS Number	Chemical	Minimum Concentration Qualifier	Maximum Concentration Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
Surface Soil (0 -2 ft) Commercial Parkways	PCB-1248	Aroclor-1248	9.07E-01	8.20E+00	mg/Kg	TMD-001-13	6 / 16	0.38 - 0.41	8.20E+00	NA	9.5E-01	ca	NA	NA	Yes	ASL (4)
	PCB-1254	Aroclor-1254	6.18E-01	6.18E-01	mg/Kg	TMD-001-10	1 / 16	0.31 - 0.41	6.18E-01	NA	9.7E-01	ca	NA	NA	No	BSL (4)
	TOTPCB	Total PCBs	1.29E+00	8.40E+00	mg/Kg	TMD-001-13	6 / 16	0.38 - 0.41	8.40E+00	NA	9.7E-01	ca	1.60E+01	MDEQ	Yes	ASL

(1) Maximum detected concentration is used for screening.

Total PCBs = Total PCBs were calculated for all samples by summing Aroclors. Individual Aroclors are displayed when they are available.

(2) Regional Screening Levels (RSLs) for industrial soil (November 2015), based on a risk level of 1 x 10^{-6} and an HQ = 1.

(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

(4) Aroclor data were evaluated using Total PCBs.

COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered
MDEQ = The Michigan Department of Environmental Quality non-residential cleanup criteria of 16 mg/kg.
ca = Carcinogenic
nc = Noncarcinogenic
NA = Not available
RSL = Regional Screening Level
HQ = Hazard Quotient
PCB = Polychlorinated Biphenyl

TABLE 2.7.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (Utility Corridor along Harper Avenue)
Exposure Medium: Total Soil (Utility Corridor along Harper Avenue)

Exposure Point	CAS Number	Chemical	Minimum Concentration Qualifier	Maximum Concentration Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
Total Soil	PCB-1248	Aroclor-1248	1.80E-01 J	8.20E+00	mg/Kg	TMD-001-13	15 / 119	0.0188 - 0.42	8.20E+00	NA	9.5E-01	ca	NA	NA	Yes	ASL (4)
(0 -10 ft)	PCB-1254	Aroclor-1254	6.18E-01	6.18E-01	mg/Kg	TMD-001-10	1 / 119	0.0188 - 0.42	6.18E-01	NA	9.7E-01	ca	NA	NA	No	BSL (4)
(Harper Avenue)	TOTPCB	Total PCBs	3.20E-01	8.40E+00	mg/Kg	TMD-001-13	15 / 119	0.0188 - 0.42	8.40E+00	NA	9.7E-01	ca	1.60E+01	MDEQ	Yes	ASL

(1) Maximum detected concentration is used for screening.

Total PCBs = Total PCBs were calculated for all samples by summing Aroclors. Individual Aroclors are displayed when they are available.

(2) Regional Screening Levels (RSLs) for industrial soil (November 2015), based on a risk level of 1 x 10^{-6} and an HQ = 1.

(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

(4) Aroclor data were evaluated using Total PCBs.

COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/
To Be Considered
MDEQ = The Michigan Department of Environmental Quality non-residential cleanup criteria of 16 mg/kg.
ca = Carcinogenic
nc = Noncarcinogenic
NA = Not available
RSL = Regional Screening Level
HQ = Hazard Quotient
J = Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
PCB = Polychlorinated Biphenyl

TABLE 2.8.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (Utility Corridor along Bon Brae)
Exposure Medium: Total Soil (Utility Corridor along Bon Brae)

Exposure Point	CAS Number	Chemical	Minimum Concentration Qualifier	Maximum Concentration Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
Total Soil																
(0 -10 ft)	PCB-1248	Aroclor-1248	3.10E-01	3.00E+02	mg/Kg	TMD-025_2011	17 / 52	0.24 - 0.42	3.00E+02	NA	9.5E-01	ca	NA	NA	Yes	ASL (4)
(Bon Brae Street)	TOTPCB	Total PCBs	4.65E-01	3.00E+02	mg/Kg	TMD-025_2011	17 / 52	0.24 - 0.42	3.00E+02	NA	9.7E-01	ca	1.60E+01	MDEQ	Yes	ASL

(1) Maximum detected concentration is used for screening.

Total PCBs = Total PCBs were calculated for all samples by summing Aroclors. Individual Aroclors are displayed when they are available.

(2) Regional Screening Levels (RSLs) for industrial soil (November 2015), based on a risk level of 1 x 10^{-6} and an HQ = 1.

(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

(4) Aroclor data were evaluated using Total PCBs.

COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered
MDEQ = The Michigan Department of Environmental Quality non-residential cleanup criteria of 16 mg/kg.
ca = Carcinogenic
nc = Noncarcinogenic
NA = Not available
RSL = Regional Screening Level
HQ = Hazard Quotient
PCB = Polychlorinated Biphenyl

TABLE 2.9.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (Utility Corridor along Frazho Street)
Exposure Medium: Total Soil (Utility Corridor along Frazho Street)

Exposure Point	CAS Number	Chemical	Minimum Concentration Qualifier	Maximum Concentration Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
Total Soil																
(0 -10 ft)	PCB-1248	Aroclor-1248	6.20E-01	6.20E-01	mg/Kg	TMD-051_2011	1 / 10	0.26 - 0.4	6.20E-01	NA	9.5E-01	ca	NA	NA	No	BSL (4)
(Frazho Street)	TOTPCB	Total PCBs	8.00E-01	8.00E-01	mg/Kg	TMD-051_2011	1 / 10	0.26 - 0.4	8.00E-01	NA	9.7E-01	ca	1.60E+01	MDEQ	No	BSL

(1) Maximum detected concentration is used for screening.

Total PCBs = Total PCBs were calculated for all samples by summing Aroclors. Individual Aroclors are displayed when they are available.

(2) Regional Screening Levels (RSLs) for industrial soil (November 2015), based on a risk level of 1 x 10^{-6} and an HQ = 1.

(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

(4) Aroclor data were evaluated using Total PCBs.

COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered
MDEQ = The Michigan Department of Environmental Quality non-residential cleanup criteria of 16 mg/kg.
ca = Carcinogenic
nc = Noncarcinogenic
NA = Not available
RSL = Regional Screening Level
HQ = Hazard Quotient
PCB = Polychlorinated Biphenyl

TABLE 2.10.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (Utility Corridor along Lakeland Street)
Exposure Medium: Total Soil (Utility Corridor along Lakeland Street)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Qualifier	Maximum Concentration	Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
Total Soil (0 -10 ft) (Lakeland Street)	PCB-1248	Aroclor-1248	4.35E-02	J	8.90E+01		mg/Kg	TMD-002-27	29 / 46	0.0192 - 0.4	8.90E+01	NA	9.5E-01	ca	NA	NA	Yes	ASL (4)
	PCB-1254	Aroclor-1254	1.90E-01		4.60E+00		mg/Kg	TMD-053	11 / 46	0.0181 - 0.4	4.60E+00	NA	9.7E-01	ca	NA	NA	Yes	ASL (4)
	TOTPCB	Total PCBs	5.26E-02		8.92E+01		mg/Kg	TMD-002-27	30 / 46	0.0192 - 0.4	8.92E+01	NA	9.7E-01	ca	1.60E+01	MDEQ	Yes	ASL

(1) Maximum detected concentration is used for screening.

Total PCBs = Total PCBs were calculated for all samples by summing Aroclors. Individual Aroclors are displayed when they are available.

(2) Regional Screening Levels (RSLs) for industrial soil (November 2015), based on a risk level of 1 x 10^{-6} and an HQ = 1.

(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

(4) Aroclor data were evaluated using Total PCBs.

COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered
MDEQ = The Michigan Department of Environmental Quality non-residential cleanup criteria of 16 mg/kg.
ca = Carcinogenic
nc = Noncarcinogenic
NA = Not available
RSL = Regional Screening Level
HQ = Hazard Quotient
J = Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
PCB = Polychlorinated Biphenyl

TABLE 2.11.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (Utility Corridor along Ten-Mile Drain)
Exposure Medium: Total Soil (Utility Corridor along Ten-Mile Drain)

Exposure Point	CAS Number	Chemical	Minimum Concentration Qualifier	Maximum Concentration Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
Total Soil																
(0 - 10 ft)	PCB-1248	Aroclor-1248	1.70E-01 J	4.50E+02	mg/Kg	TMD-070_2011	66 / 175	0.21 - 0.39	4.50E+02	NA	9.5E-01	ca	NA	NA	Yes	ASL (4)
(Ten-Mile Drain)	TOTPCB	Total PCBs	3.05E-01	4.57E+02	mg/Kg	TMD-070_2011	66 / 175	0.21 - 0.39	4.57E+02	NA	9.7E-01	ca	1.60E+01	MDEQ	Yes	ASL

(1) Maximum detected concentration is used for screening.

Total PCBs = Total PCBs were calculated for all samples by summing Aroclors. Individual Aroclors are displayed when they are available.

(2) Regional Screening Levels (RSLs) for industrial soil (November 2015), based on a risk level of 1 x 10^{-6} and an HQ = 1.

(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

(4) Aroclor data were evaluated using Total PCBs.

COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered
MDEQ = The Michigan Department of Environmental Quality non-residential cleanup criteria of 16 mg/kg.
ca = Carcinogenic
nc = Noncarcinogenic
NA = Not available
RSL = Regional Screening Level
HQ = Hazard Quotient
J = Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
PCB = Polychlorinated Biphenyl

TABLE 2.12.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water (Storm Sewer Outfall & Lange Street Canal)

Exposure Point	CAS Number	Chemical	Minimum Concentration Qualifier	Maximum Concentration Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
Storm Sewer Outfall and Lange Street Canal Surface Water	PCB-1248	Aroclor-1248	4.90E+00 J	4.90E+00 J	ug/L	SW2	1 / 1	-	4.90E+00	NA	7.80E-03	ca	NA	NA	Yes	ASL (4)
	PCB-1260	Aroclor-1260	3.50E-01 J	3.50E-01 J	ug/L	SW2	1 / 1	-	3.50E-01	NA	7.80E-03	ca	NA	NA	Yes	ASL (4)
	TOTPCB	Total PCBs	6.90E-01	8.20E+00	ug/L	Outfall	6 / 6	-	8.20E+00	NA	7.80E-03	ca	NA	NA	Yes	ASL

(1) Maximum detected concentration is used for screening.

Total PCBs = Total PCBs were calculated for all samples. Individual Aroclors are displayed when they are available. Historic samples for locations were not analyzed for individual Aroclors and were reported as "Total PCB". These samples are included in the "Total PCB" data.

(2) Regional Screening Levels (RSLs) for Tap Water (November 2015), based on a risk level of 1 x 10^{-6} and an HQ = 1.

The carcinogenic SL for Aroclor-1254 was used as the RSL for Total PCBs.

(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

(4) Aroclor data were evaluated using Total PCBs.

COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/
To Be Considered

ca = Carcinogenic
nc = Noncarcinogenic
NA = Not available
RSL = Regional Screening Level
HQ = Hazard Quotient
J = Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
PCB = Polychlorinated Biphenyl

TABLE 2.13.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Fish
Exposure Medium: Fish Tissue

Exposure Point	CAS Number	Chemical	Minimum Concentration Qualifier	Maximum Concentration Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
Lange Street Canal and Revere Street Canal Fish Fillets	TotCongPCB_A	PCB TEQ (Dioxin-like PCBs)	6.60E-08	1.21E-04	mg/Kg	10 Mile Canal	38 / 38	-	1.21E-04	NA	3.20E-08 ca	NA	NA	Yes	ASL
	TotCongPCB_B	Total PCBs (Non-dioxin-like)	3.10E-01	1.98E+02	mg/Kg	10 Mile Canal	38 / 38	-	1.98E+02	NA	2.08E-03 ca	NA	NA	Yes	ASL
	Cong01	Cong01	1.27E-02	9.92E-01	mg/Kg	10 Mile Canal	22 / 32	0.00248 - 0.0333	9.92E-01	NA	NA	NA	NA	No	NTX (4)
	Cong03	Cong03	4.37E-02	1.11E+01 J	mg/Kg	10 Mile Canal	36 / 36	-	1.11E+01	NA	NA	NA	NA	No	NTX (4)
	Cong08	Cong08	1.60E-03	2.85E-01	mg/Kg	10 Mile Canal	31 / 38	0.00124 - 0.0166	2.85E-01	NA	NA	NA	NA	No	NTX (4)
	Cong100	Cong100	5.00E-04	0.216	mg/Kg	10 Mile Canal	34 / 37	0.000495 - 0.00248	2.16E-01	NA	NA	NA	NA	No	NTX (4)
	Cong105a	Cong105a	5.00E-04 J	6.44E-01	mg/Kg	10 Mile Canal	37 / 38	0.00124 - 0.00124	6.44E-01	NA	1.07E-03	NA	NA	Yes	ASL (4)
	Cong11-27	Cong11-27	2.64E-02 J	2.70E+01	mg/Kg	10 Mile Canal	38 / 38	-	2.70E+01	NA	NA	NA	NA	No	NTX (4)
	Cong114	Cong114	3.00E-04 J	7.62E-02	mg/Kg	10 Mile Canal	33 / 38	0.000249 - 0.00124	7.62E-02	NA	1.07E-03	NA	NA	Yes	ASL (4)
	Cong118a	Cong118a	9.00E-04 J	1.91E+00	mg/Kg	10 Mile Canal	38 / 38	-	1.91E+00	NA	1.07E-03	NA	NA	Yes	ASL (4)
	Cong123a149	Cong123a149	9.00E-04 J	7.39E-01	mg/Kg	10 Mile Canal	36 / 38	0.000498 - 0.00248	7.39E-01	NA	NA	NA	NA	No	NTX (4)
	Cong126-178	Cong126-178	8.00E-04 J	8.11E-02	mg/Kg	10 Mile Canal	26 / 38	0.000744 - 0.00373	8.11E-02	NA	NA	NA	NA	No	NTX (4)
	Cong128	Cong128	2.00E-04 J	1.82E-01	mg/Kg	10 Mile Canal	37 / 38	0.000619 - 0.000619	1.82E-01	NA	NA	NA	NA	No	NTX (4)
	Cong130	Cong130	3.00E-04	5.81E-02	mg/Kg	10 Mile Canal	28 / 36	0.000249 - 0.00124	5.81E-02	NA	NA	NA	NA	No	NTX (4)
	Cong132	Cong132	5.00E-04	2.77E-01	mg/Kg	10 Mile Canal	33 / 38	0.000248 - 0.00124	2.77E-01	NA	NA	NA	NA	No	NTX (4)
	Cong134	Cong134	3.00E-04	4.83E-02	mg/Kg	10 Mile Canal	28 / 38	0.000248 - 0.00124	4.83E-02	NA	NA	NA	NA	No	NTX (4)
	Cong135-144	Cong135-144	5.00E-04 J	1.16E-01	mg/Kg	10 Mile Canal	30 / 37	0.000497 - 0.00248	1.16E-01	NA	NA	NA	NA	No	NTX (4)
	Cong136	Cong136	6.00E-04	8.02E-02	mg/Kg	10 Mile Canal	27 / 35	0.000495 - 0.00249	8.02E-02	NA	NA	NA	NA	No	NTX (4)
	Cong137	Cong137	2.00E-04	2.38E-02	mg/Kg	10 Mile Canal	30 / 38	0.000124 - 0.000621	2.38E-02	NA	NA	NA	NA	No	NTX (4)
	Cong138a-163	Cong138a-163	8.00E-04 J	1.33E+00	mg/Kg	10 Mile Canal	38 / 38	-	1.33E+00	NA	NA	NA	NA	No	NTX (4)
	Cong141	Cong141	4.00E-04	8.13E-02	mg/Kg	10 Mile Canal	34 / 38	0.000249 - 0.00124	8.13E-02	NA	NA	NA	NA	No	NTX (4)
	Cong146	Cong146	3.00E-04	3.84E-01	mg/Kg	10 Mile Canal	36 / 38	0.000249 - 0.00124	3.84E-01	NA	NA	NA	NA	No	NTX (4)
	Cong151	Cong151	4.00E-04	4.15E-01	mg/Kg	10 Mile Canal	36 / 38	0.000249 - 0.00124	4.15E-01	NA	NA	NA	NA	No	NTX (4)
	Cong153	Cong153	9.00E-04 J	1.05E+00	mg/Kg	10 Mile Canal	38 / 38	-	1.05E+00	NA	NA	NA	NA	No	NTX (4)
	Cong156	Cong156	2.00E-04 J	1.12E-01	mg/Kg	10 Mile Canal	33 / 38	0.000124 - 0.000621	1.12E-01	NA	1.07E-03	NA	NA	Yes	ASL (4)
	Cong157a_200	Cong157a_200	2.00E-04	1.37E-02	mg/Kg	10 Mile Canal	18 / 37	0.000124 - 0.000623	1.37E-02	NA	NA	NA	NA	No	NTX (4)
	Cong158-160	Cong158-160	5.00E-04 J	4.71E-02	mg/Kg	10 Mile Canal	24 / 38	0.000373 - 0.00188	4.71E-02	NA	NA	NA	NA	No	NTX (4)
	Cong1632	Cong1632	2.68E-02 J	1.94E+01	mg/Kg	10 Mile Canal	38 / 38	-	1.94E+01	NA	NA	NA	NA	No	NTX (4)
	Cong167	Cong167	3.00E-04 J	2.82E-02	mg/Kg	10 Mile Canal	26 / 38	0.000249 - 0.00125	2.82E-02	NA	1.07E-03	NA	NA	Yes	ASL (4)
	Cong17	Cong17	1.79E-02	9.48E+00 J	mg/Kg	10 Mile Canal	38 / 38	-	9.48E+00	NA	NA	NA	NA	No	NTX (4)
	Cong170	Cong170	2.00E-04 J	3.22E-01	mg/Kg	10 Mile Canal	37 / 38	0.000619 - 0.000619	3.22E-01	NA	NA	NA	NA	No	NTX (4)
	Cong171	Cong171	4.00E-04	3.64E-02	mg/Kg	10 Mile Canal	27 / 38	0.000249 - 0.00124	3.64E-02	NA	NA	NA	NA	No	NTX (4)
	Cong172	Cong172	2.00E-04 J	3.52E-02	mg/Kg	10 Mile Canal	27 / 38	0.000124 - 0.000621	3.52E-02	NA	NA	NA	NA	No	NTX (4)
	Cong174	Cong174	3.00E-04	9.63E-02	mg/Kg	10 Mile Canal	36 / 37	0.00124 - 0.00124	9.63E-02	NA	NA	NA	NA	No	NTX (4)
	Cong175	Cong175	3.00E-04	1.07E-02	mg/Kg	10 Mile Canal	13 / 36	0.000124 - 0.000621	1.07E-02	NA	NA	NA	NA	No	NTX (4)
	Cong177	Cong177	3.00E-04	7.84E-02	mg/Kg	10 Mile Canal	33 / 38	0.000249 - 0.00124	7.84E-02	NA	NA	NA	NA	No	NTX (4)
	Cong179	Cong179	2.00E-04 J	1.29E-01	mg/Kg	10 Mile Canal	26 / 38	0.000124 - 0.000621	1.29E-01	NA	NA	NA	NA	No	NTX (4)
	Cong18	Cong18	1.71E-02 J	8.88E+00 J	mg/Kg	10 Mile Canal	38 / 38	-	8.88E+00	NA	NA	NA	NA	No	NTX (4)
	Cong180	Cong180	3.00E-04	5.67E-01	mg/Kg	10 Mile Canal	38 / 38	-	5.67E-01	NA	NA	NA	NA	No	NTX (4)
	Cong182-187	Cong182-187	7.00E-04 J	1.03E+00	mg/Kg	10 Mile Canal	35 / 38	0.000374 - 0.00186	1.03E+00	NA	NA	NA	NA	No	NTX (4)
	Cong183	Cong183	2.00E-04	2.83E-01	mg/Kg	10 Mile Canal	35 / 38	0.000125 - 0.000619	2.83E-01	NA	NA	NA	NA	No	NTX (4)
	Cong185	Cong185	2.00E-04	1.58E-02	mg/Kg	10 Mile Canal	19 / 38	0.000124 - 0.000621	1.58E-02	NA	NA	NA	NA	No	NTX (4)
	Cong190	Cong190	1.10E-03	1.82E-02	mg/Kg	10 Mile Canal	10 / 38	0.000124 - 0.000623	1.82E-02	NA	NA	NA	NA	No	NTX (4)
	Cong193	Cong193	2.00E-04	2.26E-02	mg/Kg	10 Mile Canal	27 / 38	0.000124 - 0.000621	2.26E-02	NA	NA	NA	NA	No	NTX (4)
	Cong194	Cong194	2.00E-04	1.17E-01	mg/Kg	10 Mile Canal	27 / 38	0.000124 - 0.000621	1.17E-01	NA	NA	NA	NA	No	NTX (4)
	Cong195	Cong195	2.00E-04 J	3.12E-02	mg/Kg	10 Mile Canal	28 / 38	0.000124 - 0.000621	3.12E-02	NA	NA	NA	NA	No	NTX (4)
	Cong196-203	Cong196-203	3.00E-04 J	1.35E-01	mg/Kg	10 Mile Canal	21 / 38	0.000248 - 0.00124	1.35E-01	NA	NA	NA	NA	No	NTX (4)
	Cong198	Cong198	5.00E-04	5.40E-03	mg/Kg	10 Mile Canal	10 / 38	0.000124 - 0.000623	5.40E-03	NA	NA	NA	NA	No	NTX (4)
	Cong199	Cong199	2.00E-04	1.26E-02	mg/Kg	10 Mile Canal	14 / 38	0.000124 - 0.000623	1.26E-02	NA	NA	NA	NA	No	NTX (4)
	Cong201	Cong201	2.00E-04	1.67E-01	mg/Kg	10 Mile Canal	35 / 38	0.000125 - 0.000156	1.67E-01	NA	NA	NA	NA	No	NTX (4)
	Cong205	Cong205	2.00E-04	2.20E-03 J	mg/Kg	10 Mile Canal	11 / 36	0.000124 - 0.00166	2.20E-03	NA	NA	NA	NA	No	NTX (4)

TABLE 2.13.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Fish
Exposure Medium: Fish Tissue

Exposure Point	CAS Number	Chemical	Minimum Concentration Qualifier	Maximum Concentration Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
	Cong206	Cong206	6.00E-04	4.05E-02	mg/Kg	10 Mile Canal	15 / 38	0.000124 - 0.000621	4.05E-02	NA	NA	NA	NA	No	NTX (4)
	Cong207	Cong207	2.00E-04	1.24E-02	mg/Kg	10 Mile Canal	11 / 38	0.000124 - 0.000623	1.24E-02	NA	NA	NA	NA	No	NTX (4)
	Cong22	Cong22	5.30E-03	2.69E+00 J	mg/Kg	10 Mile Canal	38 / 38	-	2.69E+00	NA	NA	NA	NA	No	NTX (4)
	Cong25	Cong25	9.40E-03 J	3.10E+00 J	mg/Kg	10 Mile Canal	38 / 38	-	3.10E+00	NA	NA	NA	NA	No	NTX (4)
	Cong26	Cong26	1.23E-02 J	7.03E+00	mg/Kg	10 Mile Canal	38 / 38	-	7.03E+00	NA	NA	NA	NA	No	NTX (4)
	Cong28	Cong28	2.08E-02	1.40E+01	mg/Kg	10 Mile Canal	38 / 38	-	1.40E+01	NA	NA	NA	NA	No	NTX (4)
	Cong31	Cong31	1.62E-02	9.89E+00	mg/Kg	10 Mile Canal	38 / 38	-	9.89E+00	NA	NA	NA	NA	No	NTX (4)
	Cong33	Cong33	1.39E-02 J	2.80E+00 J	mg/Kg	10 Mile Canal	38 / 38	-	2.80E+00	NA	NA	NA	NA	No	NTX (4)
	Cong37-42	Cong37-42	6.30E-03 J	5.33E+00	mg/Kg	10 Mile Canal	38 / 38	-	5.33E+00	NA	NA	NA	NA	No	NTX (4)
	Cong40	Cong40	1.60E-03	1.24E+00	mg/Kg	10 Mile Canal	38 / 38	-	1.24E+00	NA	NA	NA	NA	No	NTX (4)
	Cong44	Cong44	9.90E-03 J	6.56E+00	mg/Kg	10 Mile Canal	38 / 38	-	6.56E+00	NA	NA	NA	NA	No	NTX (4)
	Cong45	Cong45	2.20E-03 J	6.62E+00	mg/Kg	10 Mile Canal	38 / 38	-	6.62E+00	NA	NA	NA	NA	No	NTX (4)
	Cong48	Cong48	1.50E-03 J	3.10E+00	mg/Kg	10 Mile Canal	37 / 37	-	3.10E+00	NA	NA	NA	NA	No	NTX (4)
	Cong49	Cong49	9.70E-03 J	1.37E+01	mg/Kg	10 Mile Canal	38 / 38	-	1.37E+01	NA	NA	NA	NA	No	NTX (4)
	Cong52	Cong52	1.31E-02 J	1.48E+01	mg/Kg	10 Mile Canal	38 / 38	-	1.48E+01	NA	NA	NA	NA	No	NTX (4)
	Cong56-60	Cong56-60	2.70E-03 J	1.91E+00 J	mg/Kg	10 Mile Canal	38 / 38	-	1.91E+00	NA	NA	NA	NA	No	NTX (4)
	Cong63	Cong63	3.00E-04 J	7.62E-01	mg/Kg	10 Mile Canal	38 / 38	-	7.62E-01	NA	NA	NA	NA	No	NTX (4)
	Cong64	Cong64	4.10E-03 J	2.99E+00	mg/Kg	10 Mile Canal	37 / 38	0.000249 - 0.000249	2.99E+00	NA	NA	NA	NA	No	NTX (4)
	Cong66-95	Cong66-95	4.90E-03 J	6.59E+00	mg/Kg	10 Mile Canal	37 / 37	-	6.59E+00	NA	NA	NA	NA	No	NTX (4)
	Cong70	Cong70	4.70E-03 J	3.66E+00	mg/Kg	10 Mile Canal	38 / 38	-	3.66E+00	NA	NA	NA	NA	No	NTX (4)
	Cong71	Cong71	3.00E-03 J	3.67E+00	mg/Kg	10 Mile Canal	38 / 38	-	3.67E+00	NA	NA	NA	NA	No	NTX (4)
	Cong74	Cong74	2.10E-03 J	2.81E+00	mg/Kg	10 Mile Canal	38 / 38	-	2.81E+00	NA	NA	NA	NA	No	NTX (4)
	Cong77a-110	Cong77a-110	2.30E-03 J	3.31E+00	mg/Kg	10 Mile Canal	38 / 38	-	3.31E+00	NA	NA	NA	NA	No	NTX (4)
	Cong81-87	Cong81-87	9.00E-04 J	1.46E+00	mg/Kg	10 Mile Canal	38 / 38	-	1.46E+00	NA	NA	NA	NA	No	NTX (4)
	Cong82	Cong82	5.00E-04 J	2.78E-01	mg/Kg	10 Mile Canal	37 / 38	0.000249 - 0.000249	2.78E-01	NA	NA	NA	NA	No	NTX (4)
	Cong83	Cong83	6.00E-04	4.52E-01	mg/Kg	10 Mile Canal	36 / 38	0.000249 - 0.00124	4.52E-01	NA	NA	NA	NA	No	NTX (4)
	Cong84	Cong84	6.00E-04 J	1.03E+00	mg/Kg	10 Mile Canal	38 / 38	-	1.03E+00	NA	NA	NA	NA	No	NTX (4)
	Cong90-101	Cong90-101	1.40E-03 J	2.85E+00	mg/Kg	10 Mile Canal	38 / 38	-	2.85E+00	NA	NA	NA	NA	No	NTX (4)
	Cong91	Cong91	1.30E-03	1.35E+00	mg/Kg	10 Mile Canal	37 / 38	0.000498 - 0.000498	1.35E+00	NA	NA	NA	NA	No	NTX (4)
	Cong92	Cong92	1.50E-03	1.19E+00	mg/Kg	10 Mile Canal	37 / 38	0.000498 - 0.000498	1.19E+00	NA	NA	NA	NA	No	NTX (4)
	Cong97	Cong97	5.00E-04 J	8.82E-01	mg/Kg	10 Mile Canal	38 / 38	-	8.82E-01	NA	NA	NA	NA	No	NTX (4)
	Cong99	Cong99	8.00E-04 J	1.87E+00	mg/Kg	10 Mile Canal	38 / 38	-	1.87E+00	NA	NA	NA	NA	No	NTX (4)

Notes:

(1) Maximum concentration is used for screening.

PCB TEQ = 2,3,7,8-TCDD toxic equivalent concentration; calculated for detected dioxin-like PCB congeners only and is sum of the products [concentration multiplied by TEF per congener].

Non-dioxin-like PCBs = Sum of all PCB congener concentrations - Sum of dioxin-like PCB congener concentrations

(2) Regional Screening Levels (RSLs) for Fish (calculated using the RSL calculator). See Table 2.13.RME Supplement A
Concentrations based on non-carcinogenic health effects are adjusted using HQ=0.1

The SL for 2,3,7,8-TCDD was used as the SL for PCB TEQ.
The SL for Aroclor-1254 was used as the SL for Total PCBs (non-dioxin-like-PCBs).

(3) Rationale Codes

Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)
No Toxicity Information (NTX)

(4) Congener data will be evaluated using PCB TEQ and Non-dioxin-like PCBs.

COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered
ca = Carcinogenic
nc = Noncarcinogenic
NA = Not available
RSL = Regional Screening Level
mg/kg = milligram per kilogram
PCB = Polychlorinated Biphenyl
PCB TEQ = Polychlorinated Biphenyl Toxicity Equivalent
HQ = Hazard Quotient
TEF = Toxicity Equivalent Factor

TABLE 2.13.RME Supplement A
Fish Risk-Based Screening Levels (RSLs) for Fish
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Default
Fish Equation Inputs for Fish

Variable	Value
TR (target cancer risk) unitless	0.000001
AT (averaging time)	365
EF_r (exposure frequency) days/yr	350
ED_r (exposure duration) yr	26
LT (lifetime) yr	70
BW_a (body weight) kg	80
IRF_a (fish consumption rate) mg/day	54000

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Chronic RfD (mg/kg-day)	RfD Ref	Ingestion of Fish SL - TR=1.0E-6 (mg/kg)	Ingestion of Fish SL - HQ=1 (mg/kg)	Fish Tissue Regional Screening Level (RSL) (mg/kg)	Q	Surrogate
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	No	Yes	3.90E+00	W	2.33E-05	W	1.07E-03	3.60E-02	1.07E-03	ca	
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	No	Yes	3.90E+00	W	2.33E-05	W	1.07E-03	3.60E-02	1.07E-03	ca	
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	No	Yes	3.90E+00	W	2.33E-05	W	1.07E-03	3.60E-02	1.07E-03	ca	
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	No	Yes	3.90E+00	W	2.33E-05	W	1.07E-03	3.60E-02	1.07E-03	ca	
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	No	Yes	3.90E+00	W	2.33E-05	W	1.07E-03	3.60E-02	1.07E-03	ca	
PCB (Non-dioxin-like PCBs)	NA	No	Yes	2.00E+00	S	2.00E-05	I	2.08E-03	3.09E-02	2.08E-03	ca	Aroclor 1254
PCB TEQ (Dioxin-like PCBs)	NA	No	Yes	1.30E+05	C	7.00E-10	I	3.20E-08	1.08E-06	3.20E-08	ca	TCDD, 2,3,7,8-

ca=Cancer, nc=Noncancer

Output generated 05JAN2016

TABLE 2.14.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Future
Medium: Total Soil (Residential Yards - Martin Drain)
Exposure Medium: Total Soil (Residential Yards - Martin Drain)

Exposure Point	CAS Number	Chemical	Minimum Concentration Qualifier	Maximum Concentration Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
Total Soil (0 -7 ft) Residential Yards	PCB-1248	PCB-1248	1.14E-01	8.59E+00	mg/Kg	TMD-SO-121	110 / 242	0.019 - 0.44	8.59E+00	NA	2.3E-01	ca	NA	NA	Yes	ASL (4)
	TOTPCB	Total PCBs	1.14E-01 J	8.59E+00	mg/Kg	TMD-SO-121	27 / 242	0.019 - 0.44	8.59E+00	NA	2.4E-01	ca	4.00E+00	MDEQ	Yes	ASL

(1) Maximum detected concentration is used for screening.

Total PCBs = Total PCBs were calculated for all samples by summing Aroclors. Individual Aroclors are displayed when they are available.

(2) Regional Screening Levels (RSLs) for residential soil (November 2015), based on a risk level of 1×10^{-6} and an HQ = 1.

(3) Rationale Codes — Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

(4) Aroclor data were evaluated using Total PCBs.

COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered
MDEQ = The Michigan Department of Environmental Quality residential cleanup criteria of 4 mg/kg.
ca = Carcinogenic
nc = Noncarcinogenic
NA = Not available
RSL = Regional Screening Level
HQ = Hazard Quotient
J = Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
PCB = Polychlorinated Biphenyl

TABLE 2.15.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (Utility Corridor along B Street - Martin Drain)
Exposure Medium: Total Soil (Utility Corridor along B Street - Martin Drain)

Exposure Point	CAS Number	Chemical	Minimum Concentration Qualifier	Maximum Concentration Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
Total Soil																
(0 -10 ft)	PCB-1248	Aroclor-1248	9.85E-02	6.94E-01	mg/Kg	TMD-SO-102	7 / 24	0.0801 - 0.125	6.94E-01	NA	9.5E-01	ca	NA	NA	No	BSL (4)
(Lakeland Street)	PCB-1254	Aroclor-1254	1.69E-01	3.55E-01	mg/Kg	TMD-SO-97	2 / 24	0.0775 - 0.111	3.55E-01	NA	9.7E-01	ca	NA	NA	No	BSL (4)
(Martin Drain)	TOTPCB	Total PCBs	9.85E-02	6.94E-01	mg/Kg	TMD-SO-102	9 / 24	0.04005 - 0.0555	6.94E-01	NA	9.7E-01	ca	1.60E+01	MDEQ	No	BSL

(1) Maximum detected concentration is used for screening.

Total PCBs = Total PCBs were calculated for all samples by summing Aroclors. Individual Aroclors are displayed when they are available.

(2) Regional Screening Levels (RSLs) for industrial soil (November 2015), based on a risk level of 1 x 10^{-6} and an HQ = 1.

(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

(4) Aroclor data were evaluated using Total PCBs.

COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered
MDEQ = The Michigan Department of Environmental Quality non-residential cleanup criteria of 16 mg/kg.
ca = Carcinogenic
nc = Noncarcinogenic
NA = Not available
RSL = Regional Screening Level
HQ = Hazard Quotient
J = Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
PCB = Polychlorinated Biphenyl

TABLE 2.16.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (Utility Corridor along Bon Brae Street - Martin Drain)
Exposure Medium: Total Soil (Utility Corridor along Bon Brae Street - Martin Drain)

Exposure Point	CAS Number	Chemical	Minimum Concentration Qualifier	Maximum Concentration Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
Total Soil																
(0 -10 ft)	PCB-1248	Aroclor-1248	9.41E-02	1.69E+02	mg/Kg	TMD-SO-105	5 / 9	0.0863 - 0.105	1.69E+02	NA	9.5E-01	ca	NA	NA	Yes	ASL (4)
(Bon Brae Street)	TOTPCB	Total PCBs	9.41E-02	1.69E+02	mg/Kg	TMD-SO-105	5 / 9	0.04315 - 0.0525	1.69E+02	NA	9.7E-01	ca	1.60E+01	MDEQ	Yes	ASL
(Martin Drain)																

(1) Maximum detected concentration is used for screening.

Total PCBs = Total PCBs were calculated for all samples by summing Aroclors. Individual Aroclors are displayed when they are available.

(2) Regional Screening Levels (RSLs) for industrial soil (November 2015), based on a risk level of 1 x 10^{-6} and an HQ = 1.

(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

(4) Aroclor data were evaluated using Total PCBs.

COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered
MDEQ = The Michigan Department of Environmental Quality non-residential cleanup criteria of 16 mg/kg.
ca = Carcinogenic
nc = Noncarcinogenic
NA = Not available
RSL = Regional Screening Level
HQ = Hazard Quotient
J = Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
PCB = Polychlorinated Biphenyl

TABLE 2.17.RME
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (Utility Corridor along Jefferson Street - Martin Drain)
Exposure Medium: Total Soil (Utility Corridor along Jefferson Street - Martin Drain)

Exposure Point	CAS Number	Chemical	Minimum Concentration Qualifier	Maximum Concentration Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (2)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Selection or Deletion (3)
Total Soil																
(0 -10 ft)	PCB-1248	Aroclor-1248	3.60E-01	3.60E-01	mg/Kg	TMD-SO-109	1 / 17	0.074 - 0.113	3.60E-01	NA	9.5E-01	ca	NA	NA	No	BSL (4)
(Jefferson Street)	TOTPCB	Total PCBs	3.60E-01	3.60E-01	mg/Kg	TMD-SO-109	1 / 17	0.037 - 0.0565	3.60E-01	NA	9.7E-01	ca	1.60E+01	MDEQ	No	BSL
(Martin Drain)																

(1) Maximum detected concentration is used for screening.

Total PCBs = Total PCBs were calculated for all samples by summing Aroclors. Individual Aroclors are displayed when they are available.

(2) Regional Screening Levels (RSLs) for industrial soil (November 2015), based on a risk level of 1 x 10^{-6} and an HQ = 1.

(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

(4) Aroclor data were evaluated using Total PCBs.

COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered
MDEQ = The Michigan Department of Environmental Quality non-residential cleanup criteria of 16 mg/kg.
ca = Carcinogenic
nc = Noncarcinogenic
NA = Not available
RSL = Regional Screening Level
HQ = Hazard Quotient
J = Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
PCB = Polychlorinated Biphenyl

TABLE 3.1
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Medium: Surface Soil (0 - 2 ft) and Total Soil (0 - 3 ft) (Resident)
Exposure Medium: Surface Soil (Yard and Parkway) and Total Soil (Yard)

Exposure Point Location	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Concentration Qualifier	Exposure Point Concentration			
						Value	Units	Statistic	Rationale
Surface Soil and Total Soil	Total PCBs	mg/kg	NA	NA	NA	4.0E+00	mg/kg	NA	(1)

Notes:
(1) The exposure point concentration for all residential properties is assumed to be equal to the residential MDEQ cleanup level of 4 ppm.

mg/kg = milligrams/kilogram
NA = not applicable
ppm = parts per million
PCBs = Polychlorinated Biphenyls
MDEQ = Michigan Department of Environmental Quality

TABLE 3.1a
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Medium: Surface Soil (0 - 2 ft) and Total Soil (0 - 3 ft) (Resident)
Exposure Medium: Ambient Air (Yard and Parkway)

Exposure Point	Chemical of Potential Concern	Exposure Point Concentration in Surface Soil (0-2 ft) and Total Soil (0-10 ft)		Exposure Point Concentration in Ambient Air	
		Value (1)	Units	Value (2)	Units
Emissions from Surface Soil and Total Soil	Total PCBs	4.0E+00	mg/kg	2.96E-09	mg/m^3

Notes:

(1) Selection of exposure point concentration presented on Table 3.1.

(2) Ambient air exposure point concentration calculated using a Particulate Emission Factor (PEF) of 1.35×10^9 m^3/kg as shown below. Derivation of PEF is presented in Table 3.1a Supplemental.

Concentration in ambient air (mg/m^3) = Concentration in soil (mg/kg) x [1/PEF (m^3/kg)]

mg/kg = milligrams/kilogram
mg/m^3 = milligram per cubic meter
PCBs = Polychlorinated Biphenyls

TABLE 3.1a Supplemental
PARTICULATE EMISSION FACTOR - RESIDENT, COMMERCIAL WORKER, AND UTILITY WORKER
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

PEF Equations:

$$Q/C_{wind} = A \times \exp\left[\frac{(\ln A_{site} - B)^2}{C}\right]$$

Exhibit D-2 (EPA, 2002)

$$PEF = Q/C_{wind} \times \frac{3{,}600 \text{sec/hr}}{0.036 \times (1-V) \times \left(U_m/U_t\right)^3 \times F(x)}$$

Equation 4-5 (EPA, 2002)

PEF and Box Model Input Parameters

Parameter	Definition	Value	Units	Source
Q/C_{wind}	inverse ratio of the geometric mean air concentration to the emission flux at the center of a square source	**86**	m	calculated
A	Constant for Zone 7 (Cleveland, OH)	12.8612	unitless	Exhibit D-2 (EPA, 2002)
B	Constant for Zone 7 (Cleveland, OH)	20.5164	unitless	Exhibit D-2 (EPA, 2002)
C	Constant for Zone 7 (Cleveland, OH)	237.2798	unitless	Exhibit D-2 (EPA, 2002)
A_{site}	Areal extent of site contamination	0.5	acres	site-specific
PEF	particulate emission factor	**1.35E+09**	m^3/kg	calculated
V	fraction of vegetative cover	0.5	unitless	Default (Eqn. 4-5)
Um	mean annual windspeed	4.56	m/s	Note 1 - NOAA
Ut	equivalent threshold value of windspeed at 7 m	11.32	m/s	Default (Eqn. 4-5)
F(x)	function dependent on Um/Ut derived using Cowherd et al. (1985)	0.194	unitless	Default (Eqn. 4-5)

Sources:

Note 1 - Average windspeed for Detroit, Michigan. http://lwf.ncdc.noaa.gov/

EPA, 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, EPA Office of Solid Waste and Emergency Response. OSWER 9355.4-24. December.

TABLE 3.2
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Medium: Surface Soil (0 - 2 ft) and Total Soil (0 - 10 ft) (Commercial Worker)
Exposure Medium: Surface Soil (Yard and Parkway) and Total Soil (Yard)

Exposure Point Location	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Concentration Qualifier	Exposure Point Concentration			
						Value	Units	Statistic	Rationale
Surface Soil and Total Soil	Total PCBs	mg/kg	NA	NA	NA	1.6E+01	mg/kg	NA	(1)

Notes:
(1) The exposure point concentration for all commercial properties is assumed to be equal to the PCB nonresidential MDEQ cleanup level of 16 ppm.

mg/kg = milligrams/kilogram
NA = not applicable
ppm = parts per million
PCBs = Polychlorinated Biphenyls
MDEQ = Michigan Department of Environmental Quality

TABLE 3.2a
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Medium: Surface Soil (0 - 2 ft) and Total Soil (0 - 10 ft) (Commercial Worker)
Exposure Medium: Ambient Air (Yard and Parkway)

Exposure Point	Chemical of Potential Concern	Exposure Point Concentration in Surface Soil (0-2 ft) and Total Soil (0-10 ft)		Exposure Point Concentration in Ambient Air	
		Value (1)	Units	Value (2)	Units
Emissions from Surface Soil and Total Soil	Total PCBs	1.6E+01	mg/kg	1.18E-08	mg/m^3

Notes:

(1) Selection of exposure point concentration presented on Table 3.2.

(2) Ambient air exposure point concentration calculated using a Particulate Emission Factor (PEF) of 1.35×10^9 m^3/kg as shown below. Derivation of PEF is presented in Table 3.1a Supplemental.

Concentration in ambient air (mg/m^3) = Concentration in soil (mg/kg) x [1/PEF (m^3/kg)]

mg/kg = milligrams/kilogram
mg/m^3 = milligram per cubic meter
PCBs = Polychlorinated Biphenyls

TABLE 3.3
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Point	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic	Rationale
Surface Water Storm Sewer Outfall and Lange Street Canal	Total PCBs	ug/L	3.00E+00	NA	8.20E+00	8.20E+00	ug/L	Max	(1)

Notes:
(1) The maximum detected concentration (Max) was used as the exposure point concentration (EPC) because there were only 6 samples.

ug/L = Microgram per liter
NA = Not available or not applicable
PCB = Polychlorinated Biphenyl

TABLE 3.4
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Fish
Exposure Medium: Fish Tissue

Exposure Point	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic	Rationale
Lange Street Canal and Revere Street Canal Fish Fillets	PCB TEQ (Dioxin-like PCBs) Non-dioxin-like-PCBs	mg/Kg mg/Kg	1.3E-05 3.1E+01	3.2E-05 6.4E+01	1.2E-04 2.0E+02	3.2E-05 6.4E+01	mg/Kg mg/Kg	95% Cheb (mean) 95% Cheb (mean)	(1) (1)

Notes:
ProUCL, Version 5.0 used to determine distribution of data. ProUCL used to calculate RME EPC, following recommendations
based on distribution and standard deviation in users guide (USEPA. September, 2013. ProUCL, Version 5.0. Prepared by Lockheed Martin Environmental Services).
Options: 95% Chebyshev (Mean, Sd) UCL (95% Cheb (mean))

(1) Data do not fit lognormal, normal, or gamma distribution.

mg/kg = milligrams/kilogram
NA = not applicable
PCBs = Polychlorinated Biphenyls
TEQ = Toxicity Equivalent

TABLE 3.5
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (0 - 10 ft) (Utility Worker)
Exposure Medium: Total Soil (Utility Corridors along Harper Avenue)

Exposure Point Location	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Concentration Qualifier	Exposure Point Concentration			
						Value	Units	Statistic	Rationale
Total Soil (Harper Avenue)	Total PCBs	mg/kg	2.623	6.5E-01	8.4E+00	6.5E-01	mg/kg	95% KM-%bootstrap	(1)

ProUCL, Version 5.0 used to determine distribution of data. ProUCL used to calculate UCL, following recommendations based on distribution and standard deviation in users guide (USEPA. September, 2013. ProUCL, Version 5.0. Prepared by Lockheed Martin Environmental Services).
Options: 95% Kaplan-Meier (percentile bootstrap) UCL (95% KM-%bootstrap)

(1) Data do not fit lognormal, normal, or gamma distribution.

mg/kg = milligrams/kilogram
NA = not applicable
PCBs = Polychlorinated Biphenyls

TABLE 3.5a
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (0 - 10 ft) (Utility Worker)
Exposure Medium: Ambient Air (Utility Corridors along Harper Avenue)

Exposure Point	Chemical of Potential Concern	Exposure Point Concentration		Exposure Point Concentration in Ambient Air	
		Value (1)	Units	Value (2)	Units
Emissions from Total Soil	Total PCBs	6.5E-01	mg/kg	4.84E-10	mg/m^3

Notes:

(1) Selection of exposure point concentration presented on Table 3.5.

(2) Ambient air exposure point concentration calculated using a Particulate Emission Factor (PEF) of 1.35×10^9 m^3/kg as shown below. Derivation of PEF is presented in Table 3.1a Supplemental.

Concentration in ambient air (mg/m^3) = Concentration in soil (mg/kg) x [1/PEF (m^3/kg)]

mg/kg = milligrams/kilogram
mg/m^3 = milligram per cubic meter

TABLE 3.6
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (0 - 10 ft) (Utility Worker)
Exposure Medium: Total Soil (Utility Corridors along Bon Brae Street)

Exposure Point Location	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Concentration Qualifier	Exposure Point Concentration			
						Value	Units	Statistic	Rationale
Total Soil (Bon Brae Street)	Total PCBs	mg/kg	3.0E+01	7.1E+01	3.0E+02	7.1E+01	mg/kg	99% KM-cheb	(1)

ProUCL, Version 5.0 used to determine distribution of data. ProUCL used to calculate UCL, following recommendations based on distribution and standard deviation in users guide (USEPA. September, 2013. ProUCL, Version 5.0. Prepared by Lockheed Martin Environmental Services).
Options: 99% Kaplan-Meier (Chebyshev) UCL (99% KM-cheb)

(1) Data do not fit lognormal, normal, or gamma distribution.

mg/kg = milligrams/kilogram
NA = not applicable
PCBs = Polychlorinated Biphenyls

TABLE 3.6a
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (0 - 10 ft) (Utility Worker)
Exposure Medium: Ambient Air (Utility Corridors along Bon Brae Street)

Exposure Point	Chemical of Potential Concern	Exposure Point Concentration		Exposure Point Concentration in Ambient Air	
		Value (1)	Units	Value (2)	Units
Emissions from Total Soil	Total PCBs	7.1E+01	mg/kg	5.28E-08	mg/m^3

Notes:

(1) Selection of exposure point concentration presented on Table 3.6.

(2) Ambient air exposure point concentration calculated using a Particulate Emission Factor (PEF) of 1.35×10^9 m^3/kg as shown below. Derivation of PEF is presented in Table 3.1a Supplemental.

Concentration in ambient air (mg/m^3) = Concentration in soil (mg/kg) x [1/PEF (m^3/kg)]

mg/kg = milligrams/kilogram
mg/m^3 = milligram per cubic meter

TABLE 3.7
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (0 - 10 ft) (Utility Worker)
Exposure Medium: Total Soil (Utility Corridors along Lakeland Street)

Exposure Point Location	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Concentration Qualifier	Exposure Point Concentration			
						Value	Units	Statistic	Rationale
Total Soil (Lakeland Street)	Total PCBs	mg/kg	7.1E+00	1.8E+01	8.9E+01	1.8E+01	mg/kg	97.5% KM-cheb	(1)

ProUCL, Version 5.0 used to determine distribution of data. ProUCL used to calculate UCL, following recommendations based on distribution and standard deviation in users guide (USEPA. September, 2013. ProUCL, Version 5.0. Prepared by Lockheed Martin Environmental Services).
Options: 97.5% Kaplan-Meier (Chebyshev) UCL (97.5% KM-Cheb)

(1) Data do not fit lognormal, normal, or gamma distribution.

mg/kg = milligrams/kilogram
NA = not applicable
PCBs = Polychlorinated Biphenyls

TABLE 3.7a
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (0 - 10 ft) (Utility Worker)
Exposure Medium: Ambient Air (Utility Corridors along Lakeland Street)

Exposure Point	Chemical of Potential Concern	Exposure Point Concentration		Exposure Point Concentration in Ambient Air	
		Value (1)	Units	Value (2)	Units
Emissions from Total Soil	Total PCBs	1.8E+01	mg/kg	1.31E-08	mg/m^3

Notes:

(1) Selection of exposure point concentration presented on Table 3.7.

(2) Ambient air exposure point concentration calculated using a Particulate Emission Factor (PEF) of 1.35×10^9 m^3/kg as shown below. Derivation of PEF is presented in Table 3.1a Supplemental.

Concentration in ambient air (mg/m^3) = Concentration in soil (mg/kg) x [1/PEF (m^3/kg)]

mg/kg = milligrams/kilogram
mg/m^3 = milligram per cubic meter
PCBs = Polychlorinated Biphenyls

TABLE 3.8
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (0 - 10 ft) (Utility Worker)
Exposure Medium: Total Soil (Utility Corridor along Ten-Mile Drain)

Exposure Point Location	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Concentration Qualifier	Exposure Point Concentration			
						Value	Units	Statistic	Rationale
Total Soil (Ten-Mile Drain)	Total PCBs	mg/kg	1.4E+01	1.8E+01	4.6E+02	1.8E+01	mg/kg	95% KM-cheb	(1)

ProUCL, Version 5.0 used to determine distribution of data. ProUCL used to calculate UCL, following recommendations based on distribution and standard deviation in users guide (USEPA. September, 2013. ProUCL, Version 5.0. Prepared by Lockheed Martin Environmental Services).
Options: 95% Kaplan-Meier (Chebyshev) UCL (95% KM-Cheb)

(1) Data do not fit lognormal, normal, or gamma distribution.

mg/kg = milligrams/kilogram
NA = not applicable
PCBs = Polychlorinated Biphenyls

TABLE 3.8a
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (0 - 10 ft) (Utility Worker)
Exposure Medium: Ambient Air (Utility Corridor along Ten-Mile Drain)

Exposure Point	Chemical of Potential Concern	Exposure Point Concentration		Exposure Point Concentration in Ambient Air	
		Value (1)	Units	Value (2)	Units
Emissions from Total Soil	Total PCBs	1.8E+01	mg/kg	1.35E-08	mg/m^3

Notes:

(1) Selection of exposure point concentration presented on Table 3.8.

(2) Ambient air exposure point concentration calculated using a Particulate Emission Factor (PEF) of 1.35×10^9 m^3/kg as shown below. Derivation of PEF is presented in Table 3.1a Supplemental.

Concentration in ambient air (mg/m^3) = Concentration in soil (mg/kg) x [1/PEF (m^3/kg)]

mg/kg = milligrams/kilogram
mg/m^3 = milligram per cubic meter
PCBs = Polychlorinated Biphenyls

TABLE 3.9
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Medium: Total Soil (Residential Yards - Martin Drain)
Exposure Medium: Total Soil (Residential Yards - Martin Drain)

Exposure Point Location	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Concentration Qualifier	Exposure Point Concentration			
						Value	Units	Statistic	Rationale
Total Soil (Martin Drain)	Total PCBs	mg/kg	NA	NA	NA	4.0E+00	mg/kg	NA	(1)

Notes:
(1) The exposure point concentration for all residential properties is assumed to be equal to the residential MDEQ cleanup level of 4 ppm.

mg/kg = milligrams/kilogram
NA = not applicable
ppm = parts per million
PCBs = Polychlorinated Biphenyls
MDEQ = Michigan Department of Environmental Quality

TABLE 3.9a
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Medium: Total Soil (Residential Yards - Martin Drain)
Exposure Medium: Total Soil (Residential Yards - Martin Drain)

Exposure Point	Chemical of Potential Concern	Exposure Point Concentration in Surface Soil (0-2 ft) and Total Soil (0-10 ft)		Exposure Point Concentration in Ambient Air	
		Value (1)	Units	Value (2)	Units
Emissions from Total Soil (Martin Drain)	Total PCBs	4.0E+00	mg/kg	2.96E-09	mg/m^3

Notes:

(1) Selection of exposure point concentration presented on Table 3.1.

(2) Ambient air exposure point concentration calculated using a Particulate Emission Factor (PEF) of 1.35×10^9 m^3/kg as shown below. Derivation of PEF is presented in Table 3.1a Supplemental.

Concentration in ambient air (mg/m^3) = Concentration in soil (mg/kg) x [1/PEF (m^3/kg)]

mg/kg = milligrams/kilogram
mg/m^3 = milligram per cubic meter
PCBs = Polychlorinated Biphenyls

TABLE 3.10
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (0 - 10 ft) (Utility Worker)
Exposure Medium: Total Soil (Utility Corridors along Bon Brae Street - Martin Drain)

Exposure Point Location	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Concentration Qualifier	Exposure Point Concentration			
						Value	Units	Statistic	Rationale
Total Soil (Lakeland Street) (Martin Drain)	Total PCBs	mg/kg	3.7E+01	3.0E+02	1.7E+02	1.7E+02	mg/kg	Maximum	(1)

ProUCL, Version 5.0 used to determine distribution of data. ProUCL used to calculate UCL, following recommendations based on distribution and standard deviation in users guide (USEPA. September, 2013. ProUCL, Version 5.0. Prepared by Lockheed Martin Environmental Services).
Options: 97.5% Kaplan-Meier (Chebyshev) UCL (97.5% KM-Cheb)

(1) The maximum concentration was used since calculated UCL values were greater than the maximum detection.

mg/kg = milligrams/kilogram
NA = not applicable
PCBs = Polychlorinated Biphenyls

TABLE 3.10a
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Total Soil (0 - 10 ft) (Utility Worker)
Exposure Medium: Ambient Air (Utility Corridors along Bon Brae Street - Martin Drain)

Exposure Point	Chemical of Potential Concern	Exposure Point Concentration		Exposure Point Concentration in Ambient Air	
		Value (1)	Units	Value (2)	Units
Emissions from Total Soil	Total PCBs	1.7E+02	mg/kg	1.25E-07	mg/m^3

Notes:

(1) Selection of exposure point concentration presented on Table 3.10.

(2) Ambient air exposure point concentration calculated using a Particulate Emission Factor (PEF) of 1.35×10^9 m^3/kg as shown below. Derivation of PEF is presented in Table 3.1a Supplemental.

Concentration in ambient air (mg/m^3) = Concentration in soil (mg/kg) x [1/PEF (m^3/kg)]

mg/kg = milligrams/kilogram
mg/m^3 = milligram per cubic meter
PCBs = Polychlorinated Biphenyls

TABLE 4.1.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future and Future
Medium: Surface Soil and Total Soil
Exposure Medium: Surface Soil (0 - 2 ft); Total Soil (0 - 10 ft)

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Resident	Adult	Surface Soil (0 - 2 ft) TMD Yards and Parkways* Total Soil (0-3 ft) TMD and MD Yards*	CS IR-S EF ED CF BW AT-N	Chemical Concentration in Soil Ingestion Rate of Soil Exposure Frequency Exposure Duration Conversion Factor Body Weight Averaging Time (Non-Cancer)	See Table 3s.RME 100 350 20 0.000001 80 7,300	mg/kg mg/day days/year years kg/mg kg days	See Table 3s.RME USEPA, 2014 USEPA, 2014 USEPA, 2014 - - USEPA, 2014 (1)	Chronic Daily Intake (CDI) (mg/kg-day) = CS x IR-S x EF x ED x CF x 1/BW x 1/AT
		Child	Surface Soil (0 - 2 ft) TMD Yards and Parkways* Total Soil (0-3 ft) TMD and MD Yards*	CS IR-S EF ED CF BW AT-N	Chemical Concentration in Soil Ingestion Rate of Soil Exposure Frequency Exposure Duration Conversion Factor Body Weight Averaging Time (Non-Cancer)	See Table 3s.RME 200 350 6 0.000001 15 2,190	mg/kg mg/day days/year years kg/mg kg days	See Table 3s.RME USEPA, 2014 USEPA, 2014 USEPA, 2014 - - USEPA, 2014 (1)	CDI (mg/kg-day) = CS x IR-S x EF x ED x CF x 1/BW x 1/AT
		Child/Adult Aggregate	Surface Soil (0 - 2 ft) TMD Yards and Parkways* Total Soil (0-3 ft) TMD and MD Yards*	CS IR-S-Adj EF CF AT-C	Chemical Concentration in Soil Ingestion Rate of Soil, Age-adjusted Exposure Frequency Conversion Factor Averaging Time (Cancer)	See Table 3s.RME 105 350 0.000001 25,550	mg/kg mg-year/kg-day days/year kg/mg days	See Table 3s.RME calculated USEPA, 2014 - - (2)	CDI (mg/kg-day) = CS x IR-S-Adj x EF x CF x 1/AT IR-S-Adj (mg-year/kg-day) = (ED-C x IR-S-C / BW-C) + (ED-A x IR-S-A / BW-
	Commercial Worker	Adult	Surface Soil (0 - 2 ft) TMD Yards and Parkways* Total Soil (0-10 ft) TMD Yards*	CS IR-S EF ED CF BW AT-N AT-C	Chemical Concentration in Soil Ingestion Rate of Soil Exposure Frequency Exposure Duration Conversion Factor Body Weight Averaging Time (Non-Cancer) Averaging Time (Cancer)	See Table 3s.RME 100 250 25 0.000001 80 9,125 25,550	mg/kg mg/day days/year years kg/mg kg days days	See Table 3s.RME USEPA, 2014 USEPA, 2014 USEPA, 2014 - - USEPA, 2014 (1) (2)	CDI (mg/kg-day) = CS x IR-S x EF x ED x CF x 1/BW x 1/AT
	Utility Worker	Adult	Total Soil (0 - 10 ft) TMD and MD Utility Corridors and TMD Parkways	CS IR-S EF ED CF BW AT-N AT-C	Chemical Concentration in Soil Ingestion Rate of Soil Exposure Frequency Exposure Duration Conversion Factor Body Weight Averaging Time (Non-Cancer) Averaging Time (Cancer)	See Table 3s.RME 330 250 0.25 0.000001 80 91 25,550	mg/kg mg/day days/year years kg/mg kg days days	See Table 3s.RME USEPA, 2002 USEPA, 2002 (3) - - USEPA, 2014 (1) (2)	Subchronic Daily Intake (SDI) (mg/kg-day) = CS x IR-S x EF x ED x CF x 1/BW x 1/AT

TABLE 4.1.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future and Future
Medium: Surface Soil and Total Soil
Exposure Medium: Surface Soil (0 - 2 ft); Total Soil (0 - 10 ft)

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal	Resident	Adult	Surface Soil (0 - 2 ft) TMD Yards and Parkways* Total Soil (0-3 ft) TMD Yards*	CS	Chemical Concentration in Soil	See Table 3s.RME	mg/kg	See Table 3s.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	6,032	cm^2	USEPA, 2014 (4)	CS x SA x SSAF x DABS x CF x EF x
				SSAF	Soil to Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2014	ED x 1/BW x 1/AT
				DABS	Dermal Absorption Factor Solids	0.14	--	USEPA, 2004 (7)	
				CF	Conversion Factor	0.000001	kg/mg	- -	
				EF	Exposure Frequency	245	days/year	MDEQ, 2013	
				ED	Exposure Duration	20	years	USEPA, 2014	
				BW	Body Weight	80	kg	USEPA, 2014	
				AT-N	Averaging Time (Non-Cancer)	7,300	days	(1)	
		Child	Surface Soil (0 - 2 ft) TMD Yards and Parkways* Total Soil (0-3 ft) TMD Yards*	CS	Chemical Concentration in Soil	See Table 3s.RME	mg/kg	See Table 3s.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,690	cm^2	USEPA, 2014 (5)	CS x SA x SSAF x DABS x CF x EF x
				SSAF	Soil to Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2014	ED x 1/BW x 1/AT
				DABS	Dermal Absorption Factor Solids	0.14	--	USEPA, 2004 (7)	
				CF	Conversion Factor	0.000001	kg/mg	- -	
				EF	Exposure Frequency	245	days/year	MDEQ, 2013	
				ED	Exposure Duration	6	years	USEPA, 2014	
				BW	Body Weight	15	kg	USEPA, 2014	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	(1)	
		Child/Adult Aggregate	Surface Soil (0 - 2 ft) TMD Yards and Parkways* Total Soil (0-3 ft) TMD Yards*	CS	Chemical Concentration in Soil	See Table 3s.RME	mg/kg	See Table 3s.RME	CDI (mg/kg-day) =
				DA-Adj	Dermal Absorption, Age-adjusted	321	mg-year/kg-day	calculated	CS x DA-Adj x DABS x CF x EF x 1/AT
				DABS	Dermal Absorption Factor Solids	0.14	--	USEPA, 2004 (7)	
				CF	Conversion Factor	0.000001	kg/mg	- -	DA-Adj (mg-year/kg-day) =
				EF	Exposure Frequency	245	days/year	MDEQ, 2013	(ED-C x SA-C x SSAF-C / BW-C) + (ED-A x SA-A x SSAF-A / BW-A)
				AT-C	Averaging Time (Cancer)	25,550	days	(2)	
	Commercial Worker	Adult	Surface Soil (0 - 2 ft) TMD Yards and Parkways* Total Soil (0-10 ft) TMD Yards*	CS	Chemical Concentration in Soil	See Table 3s.RME	mg/kg	See Table 3s.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,470	cm^2	USEPA, 2014 (6)	CS x SA x SSAF x DABS x CF x EF x
				SSAF	Soil to Skin Adherence Factor	0.12	mg/cm^2-day	USEPA, 2014	ED x 1/BW x 1/AT
				DABS	Dermal Absorption Factor Solids	0.14	--	USEPA, 2004 (7)	
				CF	Conversion Factor	0.000001	kg/mg	- -	
				EF	Exposure Frequency	250	days/year	USEPA, 2014	
				ED	Exposure Duration	25	years	USEPA, 2014	
				BW	Body Weight	80	kg	USEPA, 2014	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	(1)	
				AT-C	Averaging Time (Cancer)	25,550	days	(2)	

TABLE 4.1.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future and Future
Medium: Surface Soil and Total Soil
Exposure Medium: Surface Soil (0 - 2 ft); Total Soil (0 - 10 ft)

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal (cont.)	Utility Worker	Adult	Total Soil (0 - 10 ft) TMD and MD Utility Corridors and TMD Parkways	CS	Chemical Concentration in Soil	See Table 3s.RME	mg/kg	See Table 3s.RME	SDI (mg/kg-day) = CS x SA x SSAF x DABS x CF x EF x ED x 1/BW x 1/AT
				SA	Skin Surface Area Available for Contact	3,470	cm^2	USEPA, 2014 (6)	
				SSAF	Soil to Skin Adherence Factor	0.3	mg/cm^2-day	USEPA, 2004	
				DABS	Dermal Absorption Factor Solids	0.14	--	USEPA, 2004 (7)	
				CF	Conversion Factor	0.000001	kg/mg	- -	
				EF	Exposure Frequency	250	days/year	USEPA, 2002	
				ED	Exposure Duration	0.25	years	(3)	
				BW	Body Weight	80	kg	USEPA, 2014	
				AT-N	Averaging Time (Non-Cancer)	91	days	(1)	
				AT-C	Averaging Time (Cancer)	25,550	days	(2)	

Notes:
*Residential and commercial properties are evaluated separately in the HHRA, as are yards and parkways.
(1) Calculated as the product of ED (years) x 365 days/year.
(2) Calculated as the product of 70 years assumed human lifetime (USEPA, 2014) x 365 days/year.
(3) Professional judgment - assumes utility worker activities occur 3 months a year.
(4) SA includes head, hands, forearms, and lower legs.
(5) SA includes head, hands, forearms, lower legs, and feet.
(6) SA includes head, hands, and forearms.
(7) Chemical-specific value for PCB.

Sources:
MDEQ, 2013. Cleanup Criteria Requirements for Response Activity. R 299.18 - Cleanup criteria for soil generally.
USEPA, 2002: Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, OSWER 9355.4-24, December, 2002.
USEPA, 2004: Risk Assessment Guidance for Superfund (RAGS) Volume I: Human Health Evaluation Manual. Part E Supplemental Guidance for Dermal Risk Assessment) Final.
USEPA, 2014: Human Health Evaluation Manual, Supplemental Guidance: Update of Standard Default Exposure Factors, OSWER Directive 9200.1-120, February 6, 2014.

MD = Martin Drain
TMD = Ten-Mile Drain

TABLE 4.2.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future and Future
Medium: Surface Soil and Total Soil
Exposure Medium: Ambient Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Inhalation	Resident	Adult	Emissions from Surface Soil (0 - 2 ft) TMD Yards and Parkways* Emissions from Total Soil (0-3 ft) TMD and MD Yards*	CS	Chemical Concentration in Soil	See Table 3s.RME	mg/kg	See Table 3s.RME	Exposure Concentration (EC) (mg/m^3) =
				CA	Chemical Concentration in Air	calculated	mg/m^3	calculated	CA x ET x EF x ED x CF x 1/AT
				PEF	Particulate Emission Factor	1.35E+09	m^3/kg	See Table 3.1a Supp	
				ET	Exposure Time	24	hr/day	USEPA, 2014	CA (mg/m^3) = CS (1/PEF)
				EF	Exposure Frequency	350	days/year	USEPA, 2014	
				ED	Exposure Duration	20	years	USEPA, 2014	
				CF	Conversion Factor	1/24	day/hr	- -	
				AT-N	Averaging Time (Non-Cancer)	7,300	days	(1)	
		Child	Emissions from Surface Soil (0 - 2 ft) TMD Yards and Parkways* Emissions from Total Soil (0-3 ft) TMD and MD Yards*	CS	Chemical Concentration in Soil	See Table 3s.RME	mg/kg	See Table 3s.RME	EC (mg/m^3) =
				CA	Chemical Concentration in Air	calculated	mg/m^3	calculated	CA x ET x EF x ED x CF x 1/AT
				PEF	Particulate Emission Factor	1.35E+09	m^3/kg	See Table 3.1a Supp	
				ET	Exposure Time	24	hr/day	USEPA, 2014	CA (mg/m^3) = CS (1/PEF)
				EF	Exposure Frequency	350	days/year	USEPA, 2014	
				ED	Exposure Duration	6	years	USEPA, 2014	
				CF	Conversion Factor	1/24	day/hr	- -	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	(1)	
		Child/Adult Aggregate	Emissions from Surface Soil (0 - 2 ft) TMD Yards and Parkways* Emissions from Total Soil (0-3 ft) TMD and MD Yards*	CS	Chemical Concentration in Soil	See Table 3s.RME	mg/kg	See Table 3s.RME	EC (mg/m^3) =
				CA	Chemical Concentration in Air	calculated	mg/m^3	calculated	CA x ET x EF x ED x CF x 1/AT
				PEF	Particulate Emission Factor	1.35E+09	m^3/kg	See Table 3.1a Supp	
				ET	Exposure Time	24	hr/day	USEPA, 2014	CA (mg/m^3) = CS (1/PEF)
				EF	Exposure Frequency	350	days/year	USEPA, 2014	
				ED	Exposure Duration	26	years	USEPA, 2014	
				CF	Conversion Factor	1/24	day/hr	- -	
				AT-C	Averaging Time (Cancer)	25,550	days	(2)	
	Commercial Worker	Adult	Emissions from Surface Soil (0 - 2 ft) TMD Yards and Parkways* Emissions from Total Soil (0-10 ft) TMD Yards*	CS	Chemical Concentration in Soil	See Table 3s.RME	mg/kg	See Table 3s.RME	EC (mg/m^3) =
				CA	Chemical Concentration in Air	calculated	mg/m^3	calculated	CA x ET x EF x ED x CF x 1/AT
				PEF	Particulate Emission Factor	1.35E+09	m^3/kg	See Table 3.1a Supp	
				ET	Exposure Time	8	hr/day	USEPA, 2014	CA (mg/m^3) = CS (1/PEF)
				EF	Exposure Frequency	250	days/year	USEPA, 2014	
				ED	Exposure Duration	25	years	USEPA, 2014	
				CF	Conversion Factor	1/24	day/hr	- -	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	(1)	
				AT-C	Averaging Time (Cancer)	25,550	days	(2)	

TABLE 4.2.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future and Future
Medium: Surface Soil and Total Soil
Exposure Medium: Ambient Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Inhalation (cont)	Utility Worker	Adult	Emissions from Total Soil (0 - 10 ft) TMD and MD Utility Corridors and TMD Parkways	CS	Chemical Concentration in Soil	See Table 3s.RME	mg/kg	See Table 3s.RME	EC (mg/m^3) =
				CA	Chemical Concentration in Air	calculated	mg/m^3	calculated	CA x ET x EF x ED x CF x 1/AT
				PEF	Particulate Emission Factor	1.35E+09	m^3/kg	See Table 3.1a Supp	
				ET	Exposure Time	8	hr/day	USEPA, 2014	CA (mg/m^3) = CS (1/PEF)
				EF	Exposure Frequency	250	days/year	USEPA, 2002	
				ED	Exposure Duration	0.25	years	(3)	
				CF	Conversion Factor	1/24	day/hr	- -	
				AT-N	Averaging Time (Non-Cancer)	91	days	(1)	
				AT-C	Averaging Time (Cancer)	25,550	days	(2)	

Notes:
Residential and commercial properties are evaluated separately in the HHRA.
(1) Calculated as the product of ED (years) x 365 days/year.
(2) Calculated as the product of 70 years assumed human lifetime (USEPA, 2014) x 365 days/year
(3) Professional judgment - assumes utility worker activities occur 3 months a year.

Sources:
USEPA, 2002: Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, OSWER 9355.4-24, December, 2002
USEPA, 2014: Human Health Evaluation Manual, Supplemental Guidance: Update of Standard Default Exposure Factors, OSWER Directive 9200.1-120, February 6, 2014

TMD = Ten-Mile Drain

TABLE 4.3.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Recreational User	Adult	Storm Sewere Outfall and Lange Street Canal; Revere Canal* Surface Water	C_{sw}	Chemical Concentration in Surface Water	See Table 3s.RME	µg/L	See Table 3s.RME	CDI (mg/kg-day) = CSW x IR-SW x ET x EF x ED x CF1 x 1/BW x 1/AT
				IR-SW	Ingestion Rate of Water	0.05	L/hr	USEPA, 1989 (1)	
				ET	Exposure Time	4	hr/day	(2)	
				EF	Exposure Frequency	52	days/year	(2)	
				ED	Exposure Duration	20	years	USEPA, 2014	
				CF1	Conversion Factor 1	0.001	mg/µg	- -	
				BW	Body Weight	80	kg	USEPA, 2014	
				AT-N	Averaging Time (Non-Cancer)	7,300	days	(3)	
		Child	Storm Sewere Outfall and Lange Street Canal; Revere Canal* Surface Water	C_{sw}	Chemical Concentration in Surface Water	See Table 3s.RME	µg/L	See Table 3s.RME	CDI (mg/kg-day) = CSW x IR-SW x ET x EF x ED x CF1 x 1/BW x 1/AT
				IR-SW	Ingestion Rate of Surface Water	0.05	L/hr	USEPA, 1989 (1)	
				ET	Exposure Time	4	hr/day	(2)	
				EF	Exposure Frequency	52	days/year	(2)	
				ED	Exposure Duration	6	years	USEPA, 2014	
				CF1	Conversion Factor 1	0.001	mg/µg	- -	
				BW	Body Weight	15	kg	USEPA, 2014	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	(3)	
Dermal	Recreational User	Adult	Storm Sewere Outfall and Lange Street Canal; Revere Canal* Surface Water	C_{sw}	Chemical Concentration in Surface Water	See Table 3s.RME	µg/L	See Table 3s.RME	CDI (mg/kg-day) = DAevent x SA x EV x EF x ED x 1/BW x 1/AT
				DAevent	Dermally Absorbed Dose per Event	calculated	mg/cm^2-event	Table 7.5. RME Supplement	
				SA	Skin Surface Area Available for Contact	20,900	cm^2	USEPA, 2014	
				EV	Event Frequency	1	events/day	USEPA, 2004	
				t_{event}	Event Duration	4	hr/event	(2)	
				EF	Exposure Frequency	52	days/year	(2)	
				ED	Exposure Duration	20	years	USEPA, 2014	
				BW	Body Weight	80	kg	USEPA, 2014	
				AT-N	Averaging Time (Non-Cancer)	7,300	days	(3)	

TABLE 4.3.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal (con't)		Child	Storm Sewere Outfall and Lange	C_{sw}	Chemical Concentration in Surface Water	See Table 3s.RME	µg/L	See Table 3s.RME	CDI (mg/kg-day) =
			Street Canal; Revere Canal*	DAevent	Dermally Absorbed Dose per Event	calculated	mg/cm^2-event	Table 7.5. RME Supplement	DAevent x SA x EV x EF x ED x 1/BW x 1/AT
			Surface Water	SA	Skin Surface Area Available for Contact	6,378	cm^2	USEPA, 2014	
				EV	Event Frequency	1	events/day	USEPA, 2004	
				t_{event}	Event Duration	4	hr/event	(2)	
				EF	Exposure Frequency	52	days/year	(2)	
				ED	Exposure Duration	6	years	USEPA, 2014	
				BW	Body Weight	15	kg	USEPA, 2014	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	(3)	

* Surface water in Storm Sewer Outfall & Lange Street Canal are evaluated together; surface water in Revere Street Canal are evaluated separately.
Notes:
(1) Best professional judgment - Outfall and canals are not used for swimming, but are used for activities such as jet-skiing, boating, or irrigation. Ingestion rate is assumed 20% of swimming value [0.05 L/hr (USEPA, 1989)].
(2) Values based on professional judgment assuming 4 hour per day and 2 days per week for 26 weeks per year.
(3) Calculated as the product of ED (years) x 365 days/year.

Sources:
USEPA, 1989: Risk Assessment Guidance for Superfund. Vol.1: Human Health Evaluation Manual, Part A. OERR. EPA/540/1-89/002.
USEPA, 2004: Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment (Final). EPA/540/R/99/005. July 2004.
USEPA, 2014: Human Health Evaluation Manual, Supplemental Guidance: Update of Standard Default Exposure Factors, OSWER Directive 9200.1-120, February 6, 2014.

TABLE 4.4.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Medium: Fish
Exposure Medium: Fish Tissue

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Recreational Angler	Adult	Lange Street Canal and Revere Street Canal Fish Fillets	CF	Chemical Concentration in Fish Tissue	See Table 3s.RME	mg/kg-fish	See Table 3s.RME	Chronic Daily Intake (CDI) (mg/kg-day) = CF x IR-F x EF x ED x 1/BW x 1/AT
				IR-F	Fish Ingestion Rate	0.045	kg/day	(1)	
				EF	Exposure Frequency	365	days/year	USEPA, 1997	
				ED	Exposure Duration	20	years	USEPA, 2014	
				BW	Body Weight	80	kg	USEPA, 2014	
				AT-N	Averaging Time (Non-Cancer)	7,300	days	(2)	
				AT-C	Averaging Time (Cancer)	25,550	days	(3)	
		Child	Lange Street Canal and Revere Street Canal Fish Fillets	CF	Chemical Concentration in Fish Tissue	See Table 3s.RME	mg/kg-fish	See Table 3s.RME	CDI (mg/kg-day) = CF x IR-F x EF x ED x 1/BW x 1/AT
				IR-F	Fish Ingestion Rate	0.015	kg/day	(1)	
				EF	Exposure Frequency	365	days/year	USEPA, 1997	
				ED	Exposure Duration	6	years	USEPA, 2014	
				BW	Body Weight	15	kg	USEPA, 2014	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	(2)	
				AT-C	Averaging Time (Cancer)	25,550	days	(3)	

Notes:

(1) Mean rate of consumption of self-caught fish reported by anglers. Murray and Burmaster (1994) calculated mean rates for non-avidity-biased consumption of Michigan sport-caught freshwater fish by anglers as 45.0 g/d for self-caught fish in general. Child ingestion rate is assumed to be one-third of the adult value.

(2) Calculated as the product of ED (years) x 365 days/year.

(3) Calculated as the product of 70 years assumed human lifetime (UAEPA, 2014) x 365 days/year.

Sources:

USEPA, 1997: Exposure Factors Handbook. EPA/ 600/P-95/Fa, Fb, and Fc.

USEPA, 2014: Human Health Evaluation Manual, Supplemental Guidance: Update of Standard Default Exposure Factors, OSWER Directive 9200.1-120, February 6, 2014.

Murray D.M. and Burmaster D.E. (1994). Estimated distribution for average daily consumption of total and self-caught fish for adults in Michigan angler households. Risk Analysis 14(4): 513-9.

TABLE 5.1
NON-CANCER TOXICITY DATA -- ORAL/DERMAL
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Chemical of Potential Concern	Chronic/ Subchronic	Oral RfD		Oral Absorption Efficiency for Dermal (1)	Absorbed RfD for Dermal (2)		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfD:Target Organ(s)	
		Value	Units		Value	Units			Source(s)	Date(s) (MM/DD/YYYY)
Non-dioxin-like PCBs (3)	Chronic	2.00E-05	mg/kg-day	80 - 96%	2.0E-05	mg/kg-day	Finger nails, Eyes	300	IRIS	7/23/2014
PCB TEQ (Dioxin-like PCBs) (4)	Chronic	7.00E-10	mg/kg-day	> 50%	7.0E-10	mg/kg-day	Testes, Developmental	30	IRIS	7/23/2014
Total PCBs (5)	Chronic	2.00E-05	mg/kg-day	80 - 96%	2.0E-05	mg/kg-day	Finger nails, Eyes	300	IRIS	7/23/2014

Note:
Aroclor-1254 will be used to represent total PCBs and non-dioxin-like PCBs.
2,3,7,8-TCDD will be used to represent PCB TEQ (dioxin-like PCBs).

(1) Source: Risk Assessment Guidance for Superfund. Volume 1: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Final. Section 4.2 and Exhibit 4-1. USEPA recommends that the oral RfD should not be adjusted to estimate the absorbed dose for compounds when the absorption efficiency is greater than 50%. Constituents that do not have oral absorption efficiencies reported on this table were assumed to have an oral absorption efficiency of >50%.

Definitions: IRIS = Integrated Risk Information System
PCB = Polychlorinated Biphenyl
PCB TEQ = Polychlorinated Biphenyl Toxicity Equivalent

(2) Adjusted based on RAGS Part E.
(3) Non-dioxin-like PCBs = Sum of all PCB congener concentrations - Sum of dioxin-like PCB congener concentrations.
(4) PCB TEQ = 2,3,7,8-TCDD toxic equivalent concentration; calculated for detected dioxin-like PCB congeners only and is sum of the products [concentration multiplied by TEF per congener].
(5) Total PCBs = Sum of individual Aroclor concentrations.

TABLE 5.2
NON-CANCER TOXICITY DATA -- INHALATION
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Chemical of Potential Concern	Chronic/ Subchronic	Inhalation RfC		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfC : Target Organ(s)	
		Value	Units			Source(s)	Date(s) (MM/DD/YYYY)
Total PCBs (1)	Chronic	NA	NA	NA	NA	NA	NA

Note:
(1) Total PCBs = Sum of individual Aroclor concentrations.

Definitions: NA = Not Available

TABLE 6.1
CANCER TOXICITY DATA -- ORAL/DERMAL
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Chemical of Potential Concern	Oral Cancer Slope Factor		Oral Absorption Efficiency for Dermal (1)	Absorbed Cancer Slope Factor for Dermal (2)		Weight of Evidence/ Cancer Guideline Description	Oral CSF	
	Value	Units		Value	Units		Source(s)	Date(s) (MM/DD/YYYY)
Non-dioxin-like PCBs (3)	2.0E+00	$(mg/kg\text{-}day)^{-1}$	80 - 96%	2.0E+00	(mg/kg-day)-1	B2	IRIS (RSL)	05/12/2013
PCB TEQ (Dioxin-like PCBs) (4)	1.3E+05	$(mg/kg\text{-}day)^{-1}$	> 50%	1.3E+05	$(mg/kg\text{-}day)^{-1}$	NA	Cal EPA (RSL)	05/12/2013
Total PCBs (5)	2.0E+00	$(mg/kg\text{-}day)^{-1}$	80 - 96%	2.0E+00	(mg/kg-day)-1	B2	IRIS (RSL)	05/12/2013

Note:
High Risk PCBs used to represent total PCBs and non-dioxin-like PCBs.
2,3,7,8-TCDD used to represent PCB TEQ.

(1) Source: Risk Assessment Guidance for Superfund. Volume 1: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Final. Section 4.2 and Exhibit 4-1. USEPA recommends that the oral slope factor should not be adjusted to estimate the absorbed dose for compounds when the absorption efficiency is greater than 50%. Constituents that do not have oral absorption efficiencies reported on this table were assumed to have an oral absorption efficiency of >50%.

Definitions:
NA = Not Available
Cal EPA = California Environmental Protection Agency
IRIS = Integrated Risk Information System
RSL = As cited in EPA Regional Screening Level Table
PCB = Polychlorinated Biphenyl
PCB TEQ = Polychlorinated Biphenyl Toxicity Equivalent

(2) Adjusted based on RAGS Part E.
(3) Non-dioxin-like PCBs = Sum of all PCB congener concentrations - Sum of dioxin-like PCB congener concentrations.
(4) PCB TEQ = 2,3,7,8-TCDD toxic equivalent concentration; calculated for detected dioxin-like PCB congeners only and is sum of the products [concentration multiplied by TEF per congener]
(5) Total PCBs = Sum of individual Aroclor concentrations.

Weight of Evidence definitions:
Group B2 chemicals (probable human carcinogens) are agents for which there is sufficient evidence of carcinogenicity in animals but inadequate or a lack of evidence in humans

TABLE 6.2
CANCER TOXICITY DATA -- INHALATION
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Chemical of Potential Concern	Unit Risk		Weight of Evidence/ Cancer Guideline Description	Unit Risk : Inhalation CSF	
	Value	Units		Source(s)	Date(s) (MM/DD/YYYY)
Total PCBs (1)	5.7E-04	$(ug/m^3)^{-1}$	B2	IRIS (RSL)	05/12/2013

Note:
(1) Total PCBs = Sum of individual Aroclor concentrations.

NA = Not Available
IRIS = Integrated Risk Information System
RSL = As cited in EPA Regional Screening Level Table

Weight of Evidence definitions:
Group B2 chemicals (probable human carcinogens) are agents for which there is sufficient evidence of carcinogenicity in animals but inadequate or a lack of evidence in humans.

TABLE 7.1. RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil (0 - 2 ft) and Total Soil (0 - 3 ft)	Surface Soil (Yard and Parkway) and Total Soil (Yard)	Surface Soil and Total Soil	Ingestion	Total PCBs	4.0E+00	mg/kg	NA	NA	NA	NA	NA	4.8E-06	mg/kg-day	2.0E-05	mg/kg-day	2.4E-01
			Exp. Route Total								0.0E+00					2.4E-01
Surface Soil (0 - 2 ft) and Total Soil (0 - 3 ft)	Surface Soil (Yard and Parkway) and Total Soil (Yard)	Surface Soil and Total Soil	Dermal	Total PCBs	4.0E+00	mg/kg	NA	NA	NA	NA	NA	2.0E-06	mg/kg-day	2.0E-05	mg/kg-day	9.9E-02
			Exp. Route Total								0.0E+00					9.9E-02
		Exposure Point Total									0.0E+00					3.4E-01
	Exposure Medium Total										0.0E+00					3.4E-01
Surface Soil (0 - 2 ft) and Total Soil (0 - 3 ft)	Ambient Air (Yard and Parkway)	Emissions from Surface Soil and Total Soil	Inhalation	Total PCBs	3.0E-09	mg/m^3	NA	NA	NA	NA	NA	2.8E-09	mg/m^3	NA	NA	NA
			Exp. Route Total								0.0E+00					0.0E+00
		Exposure Point Total									0.0E+00					0.0E+00
	Exposure Medium Total										0.0E+00					0.0E+00
Soil Total											0.0E+00					3.4E-01
Receptor Total											0.0E+00					3.4E-01

NA = Not applicable.

TABLE 7.2. RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil (0 - 2 ft) and Total Soil (0 - 3 ft)	Surface Soil (Yard and Parkway) and Total Soil (Yard)	Surface Soil and Total Soil	Ingestion	Total PCBs	4.0E+00	mg/kg	NA	NA	NA	NA	NA	5.1E-05	mg/kg-day	2.0E-05	mg/kg-day	2.6E+00
			Exp. Route Total								0.0E+00					2.6E+00
			Dermal	Total PCBs	4.0E+00	mg/kg	NA	NA	NA	NA	NA	1.3E-05	mg/kg-day	2.0E-05	mg/kg-day	6.7E-01
			Exp. Route Total								0.0E+00					6.7E-01
		Exposure Point Total									0.0E+00					3.2E+00
	Exposure Medium Total										0.0E+00					3.2E+00
Surface Soil (0 - 2 ft) and Total Soil (0 - 3 ft)	Ambient Air (Yard and Parkway)	Emissions from Surface Soil and Total Soil	Inhalation	Total PCBs	3.0E-09	mg/m^3	NA	NA	NA	NA	NA	2.8E-09	mg/m^3	NA	NA	NA
			Exp. Route Total								0.0E+00					0.0E+00
		Exposure Point Total									0.0E+00					0.0E+00
	Exposure Medium Total										0.0E+00					0.0E+00
Soil Total											0.0E+00					3.2E+00
Receptor Total											0.0E+00					3.2E+00

TABLE 7.3. RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Receptor Population: Resident
Receptor Age: Adult/Child Aggregate

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil (0 - 2 ft) and Total Soil (0 - 3 ft)	Surface Soil (Yard and Parkway) and Total Soil (Yard)	Surface Soil and Total Soil	Ingestion	Total PCBs	4.0E+00	mg/kg	5.8E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.2E-05	NA	NA	NA	NA	NA
			Exp. Route Total								1.2E-05					0.0E+00
Surface Soil (0 - 2 ft) and Total Soil (0 - 3 ft)	Surface Soil (Yard and Parkway) and Total Soil (Yard)	Surface Soil and Total Soil	Dermal	Total PCBs	4.0E+00	mg/kg	1.7E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	3.4E-06	NA	NA	NA	NA	NA
			Exp. Route Total								3.4E-06					0.0E+00
		Exposure Point Total									1.5E-05					0.0E+00
	Exposure Medium Total										1.5E-05					0.0E+00
Surface Soil (0 - 2 ft) and Total Soil (0 - 3 ft)	Ambient Air (Yard and Parkway)	Emissions from Surface Soil and Total Soil	Inhalation	Total PCBs	3.0E-09	mg/m^3	1.1E-09	mg/m^3	5.7E-04	$1/(ug/m^3)$	6.0E-10	NA	NA	NA	NA	NA
			Exp. Route Total								6.0E-10					0.0E+00
		Exposure Point Total									6.0E-10					0.0E+00
	Exposure Medium Total										6.0E-10					0.0E+00
Soil Total											1.5E-05					0.0E+00
Receptor Total											1.5E-05					0.0E+00

NA = Not applicable.

TABLE 7.4. RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil (0 - 2 ft) and Total Soil (0 - 10 ft)	Surface Soil (Yard and Parkway) and Total Soil (Yard)	Surface Soil and Total Soil	Ingestion	Total PCBs	1.6E+01	mg/kg	4.9E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	9.8E-06	1.4E-05	mg/kg-day	2.0E-05	mg/kg-day	6.8E-01
			Exp. Route Total								9.8E-06					6.8E-01
Surface Soil (0 - 2 ft) and Total Soil (0 - 10 ft)	Surface Soil (Yard and Parkway) and Total Soil (Yard)	Surface Soil and Total Soil	Dermal	Total PCBs	1.6E+01	mg/kg	2.9E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	5.7E-06	8.0E-06	mg/kg-day	2.0E-05	mg/kg-day	4.0E-01
			Exp. Route Total								5.7E-06					4.0E-01
		Exposure Point Total									1.5E-05					1.1E+00
	Exposure Medium Total										1.5E-05					1.1E+00
Surface Soil (0 - 2 ft) and Total Soil (0 - 10 ft)	Ambient Air (Yard and Parkway)	Emissions from Surface Soil and Total Soil	Inhalation	Total PCBs	1.2E-08	mg/m^3	9.7E-10	mg/m^3	5.7E-04	$1/(ug/m^3)$	5.5E-10	2.7E-09	mg/m^3	NA	NA	NA
			Exp. Route Total								5.5E-10					0.0E+00
		Exposure Point Total									5.5E-10					0.0E+00
	Exposure Medium Total										5.5E-10					0.0E+00
Soil Total											1.5E-05					1.1E+00
Receptor Total											1.5E-05					1.1E+00

NA = Not applicable.

TABLE 7.5. RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Surface Water	Surface Water Storm Sewer Outfall and Lange Street Canal	Ingestion	Total PCBs	8.2E+00	ug/L	8.3E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.7E-06	2.9E-06	mg/kg-day	2.0E-05	mg/kg-day	1.5E-01
			Exp. Route Total								1.7E-06					1.5E-01
Surface Water	Surface Water	Surface Water Storm Sewer Outfall and Lange Street Canal	Dermal	Total PCBs	8.2E+00	ug/L	3.9E-04	mg/kg-day	2.0E+00	1/(mg/kg-day)	7.8E-04	1.4E-03	mg/kg-day	2.0E-05	mg/kg-day	6.9E+01
			Exp. Route Total								7.8E-04					6.9E+01
		Exposure Point Total									7.9E-04					6.9E+01
	Exposure Medium Total										7.9E-04					6.9E+01
Surface Water Total											7.9E-04					6.9E+01
Receptor Total											7.9E-04					6.9E+01

TABLE 7.5.RME SUPPLEMENT
CALCULATION OF DAEVENT
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Chemical of Potential Concern	Water Concentration (CW) (ug/L)	Permeability Coefficient (Kp) (cm/hr)	B (dimensionless)	Lag Time (t_{event}) (hr)	t* (hr)	Fraction Absorbed Water (FA) (dimensionless)	Duration of Event (tevent) (hr)	DAevent (mg/cm^2-event)
Total PCBs	8.2E+00	5.5E-01	3.58E+00	4.54E+00	1.94E+01	7.0E-01	4.0	3.7E-05

Equation:

Since t_{event} (4 hours) is less than t* (19.4 hours), the equation below was used to calculate Daevent.

$$DA_{event}\ (mg/cm^2\text{-event}) = 2 \times FA \times Kp \times Cw \times (sqrt((6 \times t_{event} \times t_{event}) / (\pi))) \times CF1\ (0.001\ L/m^3) \times CF2\ (0.001\ mg/\mu g)$$

Notes:

Values for permeability constants, B, tau, t*, and FA are from EPA 2004, *Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment - Final).* EPA/540/R/99/005.

NA - Not applicable.

t* - Time to reach steady-state

B - Dimensionless ratio of the permeability coefficient of a compound through the stratum corneum relative to its permeability coefficient across the viable epidermis (dimensionless).

TABLE 7.6. RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Surface Water	Surface Water Storm Sewer Outfall and Lange Street Canal	Ingestion	Total PCBs	8.2E+00	ug/L	1.3E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.7E-06	1.6E-05	mg/kg-day	2.0E-05	mg/kg-day	7.8E-01
			Exp. Route Total								2.7E-06					7.8E-01
Surface Water	Surface Water	Surface Water Storm Sewer Outfall and Lange Street Canal	Dermal	Total PCBs	8.2E+00	ug/L	1.9E-04	mg/kg-day	2.0E+00	1/(mg/kg-day)	3.8E-04	2.2E-03	mg/kg-day	2.0E-05	mg/kg-day	1.1E+02
			Exp. Route Total								3.8E-04					1.1E+02
		Exposure Point Total									3.9E-04					1.1E+02
	Exposure Medium Total										3.9E-04					1.1E+02
Surface Water Total											3.9E-04					1.1E+02
Receptor Total											3.9E-04					1.1E+02

TABLE 7.7. RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Recreational Angler
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Fish	Fish Tissue	Lange Street Canal and Revere Street Canal Fish Fillets	Ingestion	PCB TEQ (Dioxin-like PCBs)	3.2E-05	mg/kg	5.1E-09	mg/kg-day	1.3E+05	1/(mg/kg-day)	6.6E-04	1.8E-08	mg/kg-day	7.0E-10	mg/kg-day	2.5E+01
				Non-dioxin-like-PCBs	6.4E+01	mg/kg	1.0E-02	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.1E-02	3.6E-02	mg/kg-day	2.0E-05	mg/kg-day	1.8E+03
			Exp. Route Total								2.1E-02					1.8E+03
Fish Total											2.1E-02					1.8E+03
Receptor Total											2.1E-02					1.8E+03

TABLE 7.8. RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Recreational Angler
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Fish	Fish Tissue	Lange Street Canal and Revere Street Canal Fish Fillets	Ingestion	PCB TEQ (Dioxin-like PCBs)	3.2E-05	mg/kg	2.7E-09	mg/kg-day	1.3E+05	1/(mg/kg-day)	3.5E-04	3.2E-08	mg/kg-day	7.0E-10	mg/kg-day	4.5E+01
				Non-dioxin-like-PCBs	6.4E+01	mg/kg	5.5E-03	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.1E-02	6.4E-02	mg/kg-day	2.0E-05	mg/kg-day	3.2E+03
			Exp. Route Total								1.1E-02					3.2E+03
Fish Total											1.1E-02					3.2E+03
Receptor Total											1.1E-02					3.2E+03

TABLE 7.9. RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Harper Avenue)	Total Soil (Harper Avenue)	Ingestion	Total PCBs	6.5E-01	mg/kg	6.6E-09	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.3E-08	1.8E-06	mg/kg-day	2.0E-05	mg/kg-day	9.2E-02
			Exp. Route Total								1.3E-08					9.2E-02
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Harper Avenue)	Total Soil (Harper Avenue)	Dermal	Total PCBs	6.5E-01	mg/kg	2.9E-09	mg/kg-day	2.0E+00	1/(mg/kg-day)	5.8E-09	8.2E-07	mg/kg-day	2.0E-05	mg/kg-day	4.1E-02
			Exp. Route Total								5.8E-09					4.1E-02
		Exposure Point Total									1.9E-08					1.3E-01
	Exposure Medium Total										1.9E-08					1.3E-01
Total Soil (0 - 10 ft)	Ambient Air (Utility Corridors along Harper Avenue)	Emissions from Total Soil	Inhalation	Total PCBs	4.8E-10	mg/m^3	3.9E-13	mg/m^3	5.7E-04	$1/(ug/m^3)$	2.3E-13	1.1E-10	mg/m^3	NA	NA	NA
			Exp. Route Total								2.3E-13					0.0E+00
		Exposure Point Total									2.3E-13					0.0E+00
	Exposure Medium Total										2.3E-13					0.0E+00
Soil Total											1.9E-08					1.3E-01
Receptor Total											1.9E-08					1.3E-01

NA = Not applicable.

TABLE 7.10. RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Bon Brae Street)	Total Soil (Bon Brae Street)	Ingestion	Total PCBs	7.1E+01	mg/kg	7.2E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.4E-06	2.0E-04	mg/kg-day	2.0E-05	mg/kg-day	1.0E+01
			Exp. Route Total								1.4E-06					1.0E+01
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Bon Brae Street)	Total Soil (Bon Brae Street)	Dermal	Total PCBs	7.1E+01	mg/kg	3.2E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	6.4E-07	8.9E-05	mg/kg-day	2.0E-05	mg/kg-day	4.4E+00
			Exp. Route Total								6.4E-07					4.4E+00
		Exposure Point Total									2.1E-06					1.5E+01
	Exposure Medium Total										2.1E-06					1.5E+01
Total Soil (0 - 10 ft)	Ambient Air (Utility Corridors along Bon Brae Street)	Emissions from Total Soil	Inhalation	Total PCBs	5.3E-08	mg/m^3	4.3E-11	mg/m^3	5.7E-04	$1/(ug/m^3)$	2.5E-11	1.2E-08	mg/m^3	NA	NA	NA
			Exp. Route Total								2.5E-11					0.0E+00
		Exposure Point Total									2.5E-11					0.0E+00
	Exposure Medium Total										2.5E-11					0.0E+00
Soil Total											2.1E-06					1.5E+01
Receptor Total											2.1E-06					1.5E+01

NA = Not applicable.

TABLE 7.11. RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Lakeland Street)	Total Soil (Lakeland Street)	Ingestion	Total PCBs	1.8E+01	mg/kg	1.8E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	3.6E-07	5.0E-05	mg/kg-day	2.0E-05	mg/kg-day	2.5E+00
			Exp. Route Total								3.6E-07					2.5E+00
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Lakeland Street)	Total Soil (Lakeland Street)	Dermal	Total PCBs	1.8E+01	mg/kg	7.9E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.6E-07	2.2E-05	mg/kg-day	2.0E-05	mg/kg-day	1.1E+00
			Exp. Route Total								1.6E-07					1.1E+00
		Exposure Point Total									5.2E-07					3.6E+00
	Exposure Medium Total										5.2E-07					3.6E+00
Total Soil (0 - 10 ft)	Ambient Air (Utility Corridors along Lakeland Street)	Emissions from Total Soil	Inhalation	Total PCBs	1.3E-08	mg/m^3	1.1E-11	mg/m^3	5.7E-04	$1/(ug/m^3)$	6.1E-12	3.0E-09	mg/m^3	NA	NA	NA
			Exp. Route Total								6.1E-12					0.0E+00
		Exposure Point Total									6.1E-12					0.0E+00
	Exposure Medium Total										6.1E-12					0.0E+00
Soil Total											5.2E-07					3.6E+00
Receptor Total											5.2E-07					3.6E+00

NA = Not applicable.

TABLE 7.12. RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Ten-Mile Drain	Total Soil (Ten-Mile Drain)	Ingestion	Total PCBs	1.8E+01	mg/kg	1.8E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	3.7E-07	5.1E-05	mg/kg-day	2.0E-05	mg/kg-day	2.6E+00
			Exp. Route Total								3.7E-07					2.6E+00
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Ten-Mile Drain	Total Soil (Ten-Mile Drain)	Dermal	Total PCBs	1.8E+01	mg/kg	8.1E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.6E-07	2.3E-05	mg/kg-day	2.0E-05	mg/kg-day	1.1E+00
			Exp. Route Total								1.6E-07					1.1E+00
		Exposure Point Total									5.3E-07					3.7E+00
	Exposure Medium Total										5.3E-07					3.7E+00
Total Soil (0 - 10 ft)	Ambient Air (Utility Corridors along Ten-Mile Drain	Emissions from Total Soil	Inhalation	Total PCBs	1.3E-08	mg/m^3	1.1E-11	mg/m^3	5.7E-04	1/(ug/m^3)	6.3E-12	3.1E-09	mg/m^3	NA	NA	NA
			Exp. Route Total								6.3E-12					0.0E+00
		Exposure Point Total									6.3E-12					0.0E+00
	Exposure Medium Total										6.3E-12					0.0E+00
Soil Total											5.3E-07					3.7E+00
Receptor Total											5.3E-07					3.7E+00

NA = Not applicable.

TABLE 7.13. RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Receptor Population: Resident (Martin Drain)
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Total Soil (0 - 7 ft)	Total Soil (Yard)	Total Soil	Ingestion	Total PCBs	4.0E+00	mg/kg	NA	NA	NA	NA	NA	4.8E-06	mg/kg-day	2.0E-05	mg/kg-day	2.4E-01
			Exp. Route Total								0.0E+00					2.4E-01
Total Soil (0 - 7 ft)	Total Soil (Yard)	Total Soil	Dermal	Total PCBs	4.0E+00	mg/kg	NA	NA	NA	NA	NA	2.0E-06	mg/kg-day	2.0E-05	mg/kg-day	9.9E-02
			Exp. Route Total								0.0E+00					9.9E-02
		Exposure Point Total									0.0E+00					3.4E-01
	Exposure Medium Total										0.0E+00					3.4E-01
Total Soil (0 - 7 ft)	Ambient Air (Yard)	Emissions from Total Soil	Inhalation	Total PCBs	3.0E-09	mg/m^3	NA	NA	NA	NA	NA	2.8E-09	mg/m^3	NA	NA	NA
			Exp. Route Total								0.0E+00					0.0E+00
		Exposure Point Total									0.0E+00					0.0E+00
	Exposure Medium Total										0.0E+00					0.0E+00
Soil Total											0.0E+00					3.4E-01
Receptor Total											0.0E+00					3.4E-01

NA = Not applicable.

TABLE 7.14. RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Receptor Population: Resident (Martin Drain)
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Total Soil (0 - 7 ft)	Total Soil (Yard)	Total Soil	Ingestion	Total PCBs	4.0E+00	mg/kg	NA	NA	NA	NA	NA	5.1E-05	mg/kg-day	2.0E-05	mg/kg-day	2.6E+00
			Exp. Route Total								0.0E+00					2.6E+00
Total Soil (0 - 7 ft)	Total Soil (Yard)	Total Soil	Dermal	Total PCBs	4.0E+00	mg/kg	NA	NA	NA	NA	NA	1.3E-05	mg/kg-day	2.0E-05	mg/kg-day	6.7E-01
			Exp. Route Total								0.0E+00					6.7E-01
		Exposure Point Total									0.0E+00					3.2E+00
	Exposure Medium Total										0.0E+00					3.2E+00
Total Soil (0 - 7 ft)	Ambient Air (Yard)	Emissions from Total Soil	Inhalation	Total PCBs	3.0E-09	mg/m^3	NA	NA	NA	NA	NA	2.8E-09	mg/m^3	NA	NA	NA
			Exp. Route Total								0.0E+00					0.0E+00
		Exposure Point Total									0.0E+00					0.0E+00
	Exposure Medium Total										0.0E+00					0.0E+00
Soil Total											0.0E+00					3.2E+00
Receptor Total											0.0E+00					3.2E+00

TABLE 7.15. RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Receptor Population: Resident (Martin Drain)
Receptor Age: Adult/Child Aggregate

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Total Soil (0 - 7 ft)	Total Soil (Yard)	Total Soil	Ingestion	Total PCBs	4.0E+00	mg/kg	5.8E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.2E-05	NA	NA	NA	NA	NA
			Exp. Route Total								1.2E-05					0.0E+00
Total Soil (0 - 7 ft)	Total Soil (Yard)	Total Soil	Dermal	Total PCBs	4.0E+00	mg/kg	1.7E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	3.4E-06	NA	NA	NA	NA	NA
			Exp. Route Total								3.4E-06					0.0E+00
		Exposure Point Total									1.5E-05					0.0E+00
	Exposure Medium Total										1.5E-05					0.0E+00
Total Soil (0 - 7 ft)	Ambient Air (Yard)	Emissions from Total Soil	Inhalation	Total PCBs	3.0E-09	mg/m^3	1.1E-09	mg/m^3	5.7E-04	$1/(ug/m^3)$	6.0E-10	NA	NA	NA	NA	NA
			Exp. Route Total								6.0E-10					0.0E+00
		Exposure Point Total									6.0E-10					0.0E+00
	Exposure Medium Total										6.0E-10					0.0E+00
Soil Total											1.5E-05					0.0E+00
Receptor Total											1.5E-05					0.0E+00

NA = Not applicable.

TABLE 7.16. RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Utility Worker (Martin Drain)
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Bon Brae Street (Martin Drain)	Total Soil (Bon Brae Street) (Martin Drain)	Ingestion	Total PCBs	1.7E+02	mg/kg	1.7E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	3.4E-06	4.8E-04	mg/kg-day	2.0E-05	mg/kg-day	2.4E+01
			Exp. Route Total								3.4E-06					2.4E+01
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Bon Brae Street (Martin Drain)	Total Soil (Bon Brae Street) (Martin Drain)	Dermal	Total PCBs	1.7E+02	mg/kg	7.5E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.5E-06	2.1E-04	mg/kg-day	2.0E-05	mg/kg-day	1.1E+01
			Exp. Route Total								1.5E-06					1.1E+01
		Exposure Point Total									4.9E-06					3.4E+01
	Exposure Medium Total										4.9E-06					3.4E+01
Total Soil (0 - 10 ft)	Ambient Air (Utility Corridors along Bon Brae Street (Martin Drain)	Emissions from Total Soil (Martin Drain)	Inhalation	Total PCBs	1.3E-07	mg/m^3	1.0E-10	mg/m^3	5.7E-04	$1/(ug/m^3)$	5.8E-11	2.9E-08	mg/m^3	NA	NA	NA
			Exp. Route Total								5.8E-11					0.0E+00
		Exposure Point Total									5.8E-11					0.0E+00
	Exposure Medium Total										5.8E-11					0.0E+00
Soil Total											4.9E-06					3.4E+01
Receptor Total											4.9E-06					3.4E+01

NA = Not applicable.

TABLE 9.1. RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil (0 - 2 ft) and Total Soil (0 - 3 ft)	Surface Soil (Yard and Parkway) and Total Soil (Yard)	Surface Soil and Total Soil	Total PCBs	NA	NA	NA	NA	Finger nails, Eyes	2E-01	NA	1E-01	3E-01
		Exposure Point Total		NA	NA	NA	NA		2E-01	NA	1E-01	3E-01
	Exposure Medium Total			NA	NA	NA	NA		2E-01	NA	1E-01	3E-01
	Ambient Air (Yard and Parkway)	Emissions from Surface Soil and Total Soil	Total PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Exposure Point Total		NA	NA	NA	NA		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	NA	NA	NA		NA	0E+00	NA	0E+00
		Exposure Point Total		NA	NA	NA	NA		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	NA	NA	NA		NA	0E+00	NA	0E+00
Medium Total				NA	NA	NA	NA		2E-01	0E+00	1E-01	3E-01
Receptor Total				NA	NA	NA	NA		2E-01	0E+00	1E-01	3E-01

NA = Not applicable or not available

Total Finger nails HI Across Media =	3E-01
Total Eyes HI Across Media =	3E-01

TABLE 9.2. RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil (0 - 2 ft) and Total Soil (0 - 3 ft)	Surface Soil (Yard and Parkway) and Total Soil (Yard)	Surface Soil and Total Soil	Total PCBs	NA	NA	NA	NA	Finger nails, Eyes	3E+00	NA	7E-01	3E+00
		Exposure Point Total		NA	NA	NA	NA		3E+00	NA	7E-01	3E+00
	Exposure Medium Total			NA	NA	NA	NA		3E+00	NA	7E-01	3E+00
	Ambient Air (Yard and Parkway)	Emissions from Surface Soil and Total Soil	Total PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Exposure Point Total		NA	NA	NA	NA		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	NA	NA	NA		NA	0E+00	NA	0E+00
		Exposure Point Total		NA	NA	NA	NA		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	NA	NA	NA		NA	0E+00	NA	0E+00
Medium Total				NA	NA	NA	NA		3E+00	0E+00	7E-01	3E+00
Receptor Total				NA	NA	NA	NA		3E+00	0E+00	7E-01	3E+00

NA = Not applicable or not available

Total Finger nails HI Across Media =	**3E+00**
Total Eyes HI Across Media =	**3E+00**

TABLE 9.3. RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Receptor Population: Resident
Receptor Age: Adult/Child Aggregate

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil (0 - 2 ft) and Total Soil (0 - 3 ft)	Surface Soil (Yard and Parkway) and Total Soil (Yard)	Surface Soil and Total Soil	Total PCBs	1E-05	NA	3E-06	1E-05	NA	NA	NA	NA	NA
		Exposure Point Total		1E-05	NA	3E-06	1E-05		NA	NA	NA	NA
	Exposure Medium Total			1E-05	NA	3E-06	1E-05		NA	NA	NA	NA
	Ambient Air (Yard and Parkway)	Emissions from Surface Soil and Total Soil	Total PCBs	NA	6E-10	NA	6E-10	NA	NA	NA	NA	NA
		Exposure Point Total		NA	6E-10	NA	6E-10		NA	NA	NA	NA
	Exposure Medium Total			NA	6E-10	NA	6E-10		NA	NA	NA	NA
	Exposure Medium Total	Exposure Point Total		NA	6E-10	NA	6E-10		NA	NA	NA	NA
Medium Total				1E-05	6E-10	3E-06	1E-05		NA	NA	NA	NA
Receptor Total				1E-05	6E-10	3E-06	1E-05		NA	NA	NA	NA

NA = Not applicable or not available

TABLE 9.4. RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil (0 - 2 ft) and Total Soil (0 - 10 ft)	Surface Soil (Yard and Parkway) and Total Soil (Yard)	Surface Soil and Total Soil	Total PCBs	1E-05	NA	6E-06	2E-05	Finger nails, Eyes	7E-01	NA	4E-01	1E+00
		Exposure Point Total		1E-05	NA	6E-06	2E-05		7E-01	NA	4E-01	1E+00
	Exposure Medium Total			1E-05	NA	6E-06	2E-05		7E-01	NA	4E-01	1E+00
	Ambient Air (Yard and Parkway)	Emissions from Surface Soil and Total Soil	Total PCBs	NA	6E-10	NA	6E-10	NA	NA	NA	NA	NA
		Exposure Point Total		NA	6E-10	NA	6E-10		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	6E-10	NA	6E-10		NA	0E+00	NA	0E+00
	Exposure Medium Total	Exposure Point Total		NA	6E-10	NA	6E-10		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	6E-10	NA	6E-10		NA	0E+00	NA	0E+00
Medium Total				1E-05	6E-10	6E-06	2E-05		7E-01	0E+00	4E-01	1E+00
Receptor Total				1E-05	6E-10	6E-06	2E-05		7E-01	0E+00	4E-01	1E+00

NA = Not applicable or not available

Total Finger nails HI Across Media = **1E+00**
Total Eyes HI Across Media = **1E+00**

TABLE 9.5. RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Surface Water	Total PCBs	2E-06	NA	8E-04	8E-04	Finger nails, Eyes	1E-01	NA	7E+01	7E+01
		Exposure Point Total		2E-06	NA	8E-04	8E-04		1E-01	NA	7E+01	7E+01
	Exposure Medium Total			2E-06	NA	8E-04	8E-04		1E-01	NA	7E+01	7E+01
Medium Total				2E-06	NA	8E-04	8E-04		1E-01	NA	7E+01	7E+01
Receptor Total				2E-06	NA	8E-04	8E-04		1E-01	NA	7E+01	7E+01

NA = Not applicable or not available

Total Finger nails HI Across Media =	**7E+01**
Total Eyes HI Across Media =	**7E+01**

TABLE 9.6. RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Surface Water	Total PCBs	3E-06	NA	4E-04	4E-04	Finger nails, Eyes	8E-01	NA	1E+02	1E+02
		Exposure Point Total		3E-06	NA	4E-04	4E-04		8E-01	NA	1E+02	1E+02
	Exposure Medium Total			3E-06	NA	4E-04	4E-04		8E-01	NA	1E+02	1E+02
Medium Total				3E-06	NA	4E-04	4E-04		8E-01	NA	1E+02	1E+02
Receptor Total				3E-06	NA	4E-04	4E-04		8E-01	NA	1E+02	1E+02

NA = Not applicable or not available

Total Finger nails HI Across Media =	**1E+02**
Total Eyes HI Across Media =	**1E+02**

TABLE 9.7. RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Recreational Angler
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Fish	Fish Tissue	Lange Street Canal and	PCB TEQ (Dioxin-like PCBs)	7E-04	NA	NA	7E-04	Developmental	3E+01	NA	NA	3E+01
			Non-dioxin-like-PCBs	2E-02	NA	NA	2E-02	Finger nails, Eyes	2E+03	NA	NA	2E+03
		Exposure Point Total		2E-02	NA	NA	2E-02		2E+03	NA	NA	2E+03
	Exposure Medium Total			2E-02	NA	NA	2E-02		2E+03	NA	NA	2E+03
Medium Total				2E-02	NA	NA	2E-02		2E+03	NA	NA	2E+03
Receptor Total				2E-02	NA	NA	2E-02		2E+03	NA	NA	2E+03

NA = Not applicable or not available

Total Finger nails HI Across Media =	**2E+03**
Total Eyes HI Across Media =	**2E+03**
Total Developmental HI Across Media =	**3E+01**

TABLE 9.8. RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Recreational Angler
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Fish	Fish Tissue	Lange Street Canal and Revere Street Canal	PCB TEQ (Dioxin-like PCBs) Non-dioxin-like-PCBs	4E-04 1E-02	NA NA	NA NA	4E-04 1E-02	Developmental Finger nails, Eyes	5E+01 3E+03	NA NA	NA NA	5E+01 3E+03
		Exposure Point Total		1E-02	NA	NA	1E-02		3E+03	NA	NA	3E+03
	Exposure Medium Total			1E-02	NA	NA	1E-02		3E+03	NA	NA	3E+03
Medium Total				1E-02	NA	NA	1E-02		3E+03	NA	NA	3E+03
Receptor Total				1E-02	NA	NA	1E-02		3E+03	NA	NA	3E+03

NA = Not applicable or not available

Total Finger nails HI Across Media =	**3E+03**
Total Eyes HI Across Media =	**3E+03**
Total Developmental HI Across Media =	**5E+01**

TABLE 9.9. RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Harper Avenue)	Total Soil	Total PCBs	1E-08	NA	6E-09	2E-08	Finger nails, Eyes	9E-02	NA	4E-02	1E-01
		Exposure Point Total		1E-08	NA	6E-09	2E-08		9E-02	NA	4E-02	1E-01
	Exposure Medium Total			1E-08	NA	6E-09	2E-08		9E-02	NA	4E-02	1E-01
	Ambient Air (Utility Corridors along Harper Avenue)	Emissions from Total Soil	Total PCBs	NA	2E-13	NA	2E-13	NA	NA	NA	NA	NA
		Exposure Point Total		NA	2E-13	NA	2E-13		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	2E-13	NA	2E-13		NA	0E+00	NA	0E+00
	Exposure Point Total			NA	2E-13	NA	2E-13		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	2E-13	NA	2E-13		NA	0E+00	NA	0E+00
Medium Total				1E-08	2E-13	6E-09	2E-08		9E-02	0E+00	4E-02	1E-01
Receptor Total				1E-08	2E-13	6E-09	2E-08		9E-02	0E+00	4E-02	1E-01

NA = Not applicable or not available

Total Finger nails HI Across Media =	1E-01
Total Eyes HI Across Media =	1E-01

TABLE 9.10. RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Bon Brae Street)	Total Soil	Total PCBs	1E-06	NA	6E-07	2E-06	Finger nails, Eyes	1E+01	NA	4E+00	1E+01
		Exposure Point Total		1E-06	NA	6E-07	2E-06		1E+01	NA	4E+00	1E+01
	Exposure Medium Total			1E-06	NA	6E-07	2E-06		1E+01	NA	4E+00	1E+01
	Ambient Air (Utility Corridors along Bon Brae Street)	Emissions from Total Soil	Total PCBs	NA	2E-11	NA	2E-11	NA	NA	NA	NA	NA
		Exposure Point Total		NA	2E-11	NA	2E-11		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	2E-11	NA	2E-11		NA	0E+00	NA	0E+00
	Exposure Point Total			NA	2E-11	NA	2E-11		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	2E-11	NA	2E-11		NA	0E+00	NA	0E+00
Medium Total				1E-06	2E-11	6E-07	2E-06		1E+01	0E+00	4E+00	1E+01
Receptor Total				1E-06	2E-11	6E-07	2E-06		1E+01	0E+00	4E+00	1E+01

NA = Not applicable or not available

Total Finger nails HI Across Media =	**1E+01**
Total Eyes HI Across Media =	**1E+01**

TABLE 9.11. RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Lakeland Street)	Total Soil	Total PCBs	4E-07	NA	2E-07	5E-07	Finger nails, Eyes	3E+00	NA	1E+00	4E+00
		Exposure Point Total		4E-07	NA	2E-07	5E-07		3E+00	NA	1E+00	4E+00
	Exposure Medium Total			4E-07	NA	2E-07	5E-07		3E+00	NA	1E+00	4E+00
	Ambient Air (Utility Corridors along Lakeland Street)	Emissions from Total Soil	Total PCBs	NA	6E-12	NA	6E-12	NA	NA	NA	NA	NA
		Exposure Point Total		NA	6E-12	NA	6E-12		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	6E-12	NA	6E-12		NA	0E+00	NA	0E+00
	Exposure Medium Total	Exposure Point Total		NA	6E-12	NA	6E-12		NA	0E+00	NA	0E+00
Medium Total				4E-07	6E-12	2E-07	5E-07		3E+00	0E+00	1E+00	4E+00
Receptor Total				4E-07	6E-12	2E-07	5E-07		3E+00	0E+00	1E+00	4E+00

NA = Not applicable or not available

Total Finger nails HI Across Media =	**4E+00**
Total Eyes HI Across Media =	**4E+00**

TABLE 9.12. RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Ten-Mile Drain)	Total Soil	Total PCBs	4E-07	NA	2E-07	5E-07	Finger nails, Eyes	3E+00	NA	1E+00	4E+00
		Exposure Point Total		4E-07	NA	2E-07	5E-07		3E+00	NA	1E+00	4E+00
	Exposure Medium Total			4E-07	NA	2E-07	5E-07		3E+00	NA	1E+00	4E+00
	Ambient Air (Utility Corridors along Ten-Mile Drain)	Emissions from Total Soil	Total PCBs	NA	6E-12	NA	6E-12	NA	NA	NA	NA	NA
		Exposure Point Total		NA	6E-12	NA	6E-12		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	6E-12	NA	6E-12		NA	0E+00	NA	0E+00
	Exposure Point Total			NA	6E-12	NA	6E-12		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	6E-12	NA	6E-12		NA	0E+00	NA	0E+00
Medium Total				4E-07	6E-12	2E-07	5E-07		3E+00	0E+00	1E+00	4E+00
Receptor Total				4E-07	6E-12	2E-07	5E-07		3E+00	0E+00	1E+00	4E+00

NA = Not applicable or not available

Total Finger nails HI Across Media =	**4E+00**
Total Eyes HI Across Media =	**4E+00**

TABLE 9.13. RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Receptor Population: Resident (Martin Drain)
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil (0 - 7 ft)	Total Soil (Yard)	Total Soil	Total PCBs	NA	NA	NA	NA	Finger nails, Eyes	2E-01	NA	1E-01	3E-01
		Exposure Point Total		NA	NA	NA	NA		2E-01	NA	1E-01	3E-01
	Exposure Medium Total			NA	NA	NA	NA		2E-01	NA	1E-01	3E-01
	Ambient Air (Yard)	Emissions from Total Soil	Total PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Exposure Point Total		NA	NA	NA	NA		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	NA	NA	NA		NA	0E+00	NA	0E+00
Medium Total				NA	NA	NA	NA		2E-01	0E+00	1E-01	3E-01
Receptor Total				NA	NA	NA	NA		2E-01	0E+00	1E-01	3E-01

NA = Not applicable or not available

Total Finger nails HI Across Media =	3E-01
Total Eyes HI Across Media =	3E-01

TABLE 9.14. RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Receptor Population: Resident (Martin Drain)
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil (0 - 7 ft)	Total Soil (Yard)	Total Soil	Total PCBs	NA	NA	NA	NA	Finger nails, Eyes	3E+00	NA	7E-01	3E+00
		Exposure Point Total		NA	NA	NA	NA		3E+00	NA	7E-01	3E+00
	Exposure Medium Total			NA	NA	NA	NA		3E+00	NA	7E-01	3E+00
	Ambient Air (Yard)	Emissions from Total Soil	Total PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Exposure Point Total		NA	NA	NA	NA		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	NA	NA	NA		NA	0E+00	NA	0E+00
Medium Total				NA	NA	NA	NA		3E+00	0E+00	7E-01	3E+00
	Exposure Medium Total			NA	NA	NA	NA		NA	0E+00	NA	0E+00
Medium Total				NA	NA	NA	NA		3E+00	0E+00	7E-01	3E+00
Receptor Total				NA	NA	NA	NA		3E+00	0E+00	7E-01	3E+00

NA = Not applicable or not available

Total Finger nails HI Across Media = **3E+00**
Total Eyes HI Across Media = **3E+00**

TABLE 9.15. RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Receptor Population: Resident (Martin Drain)
Receptor Age: Adult/Child Aggregate

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil (0 - 2 ft) and	Total Soil (Yard)	Total Soil	Total PCBs	1E-05	NA	3E-06	1E-05	NA	NA	NA	NA	NA
		Exposure Point Total		1E-05	NA	3E-06	1E-05		NA	NA	NA	NA
	Exposure Medium Total			1E-05	NA	3E-06	1E-05		NA	NA	NA	NA
	Ambient Air (Yard)	Emissions from Total Soil	Total PCBs	NA	6E-10	NA	6E-10	NA	NA	NA	NA	NA
		Exposure Point Total		NA	6E-10	NA	6E-10		NA	NA	NA	NA
	Exposure Medium Total			NA	6E-10	NA	6E-10		NA	NA	NA	NA
Medium Total				1E-05	6E-10	3E-06	1E-05		NA	NA	NA	NA
Receptor Total				1E-05	6E-10	3E-06	1E-05		NA	NA	NA	NA

NA = Not applicable or not available

TABLE 9.16. RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Utility Worker (Martin Drain)
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Bon Brae Street)	Total Soil	Total PCBs	3E-06	NA	2E-06	5E-06	Finger nails, Eyes	2E+01	NA	1E+01	3E+01
		Exposure Point Total		3E-06	NA	2E-06	5E-06		2E+01	NA	1E+01	3E+01
	Exposure Medium Total			3E-06	NA	2E-06	5E-06		2E+01	NA	1E+01	3E+01
	Ambient Air (Utility Corridors along Bon Brae Street)	Emissions from Total Soil	Total PCBs	NA	6E-11	NA	6E-11	NA	NA	NA	NA	NA
		Exposure Point Total		NA	6E-11	NA	6E-11		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	6E-11	NA	6E-11		NA	0E+00	NA	0E+00
	Exposure Point Total			NA	6E-11	NA	6E-11		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	6E-11	NA	6E-11		NA	0E+00	NA	0E+00
Medium Total				3E-06	6E-11	2E-06	5E-06		2E+01	0E+00	1E+01	3E+01
Receptor Total				3E-06	6E-11	2E-06	5E-06		2E+01	0E+00	1E+01	3E+01

NA = Not applicable or not available

Total Finger nails HI Across Media =	**3E+01**
Total Eyes HI Across Media =	**3E+01**

TABLE 10.1. RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil (0 - 2 ft) and Total Soil (0 - 3 ft)	Surface Soil (Yard and Parkway) and Total Soil (Yard)	Surface Soil and Total Soil	Total PCBs	NA	NA	NA	NA	Finger nails, Eyes	3E+00	NA	7E-01	3E+00
		Exposure Point Total		NA	NA	NA	NA		3E+00	NA	7E-01	3E+00
	Exposure Medium Total			NA	NA	NA	NA		3E+00	NA	7E-01	3E+00
Medium Total				NA	NA	NA	NA		3E+00	0E+00	7E-01	3E+00
Receptor Total				NA	NA	NA	NA		3E+00	0E+00	7E-01	3E+00

NA = Not applicable or not available

Total Finger nails HI Across Media = **3E+00**
Total Eyes HI Across Media = **3E+00**

TABLE 10.2. RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Surface Water	Total PCBs	2E-06	NA	8E-04	8E-04	Finger nails, Eyes	1E-01	NA	7E+01	7E+01
		Exposure Point Total		2E-06	NA	8E-04	8E-04		1E-01	NA	7E+01	7E+01
	Exposure Medium Total			2E-06	NA	8E-04	8E-04		1E-01	NA	7E+01	7E+01
Medium Total				2E-06	NA	8E-04	8E-04		1E-01	NA	7E+01	7E+01
Receptor Total				2E-06	NA	8E-04	8E-04		1E-01	NA	7E+01	7E+01

NA = Not applicable or not available

Total Finger nails HI Across Media =	**7E+01**
Total Eyes HI Across Media =	**7E+01**

TABLE 10.3. RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Surface Water	Total PCBs	3E-06	NA	4E-04	4E-04	Finger nails, Eyes	8E-01	NA	1E+02	1E+02
		Exposure Point Total		3E-06	NA	4E-04	4E-04		8E-01	NA	1E+02	1E+02
	Exposure Medium Total			3E-06	NA	4E-04	4E-04		8E-01	NA	1E+02	1E+02
Medium Total				3E-06	NA	4E-04	4E-04		8E-01	NA	1E+02	1E+02
Receptor Total				3E-06	NA	4E-04	4E-04		8E-01	NA	1E+02	1E+02

NA = Not applicable or not available

Total Finger nails HI Across Media =	**1E+02**
Total Eyes HI Across Media =	**1E+02**

TABLE 10.4. RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Recreational Angler
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Fish	Fish Tissue	Lange Street Canal and	PCB TEQ (Dioxin-like PCBs) Non-dioxin-like-PCBs	7E-04 2E-02	NA NA	NA NA	7E-04 2E-02	Developmental Finger nails, Eyes	3E+01 2E+03	NA NA	NA NA	3E+01 2E+03
		Exposure Point Total		2E-02	NA	NA	2E-02		2E+03	NA	NA	2E+03
	Exposure Medium Total			2E-02	NA	NA	2E-02		2E+03	NA	NA	2E+03
Medium Total				2E-02	NA	NA	2E-02		2E+03	NA	NA	2E+03
Receptor Total				2E-02	NA	NA	2E-02		2E+03	NA	NA	2E+03

NA = Not applicable or not available

Total Finger nails HI Across Media =	**2E+03**
Total Eyes HI Across Media =	**2E+03**
Total Developmental HI Across Media =	**3E+01**

TABLE 10.5. RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Recreational Angler
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Fish	Fish Tissue	Lange Street Canal and Revere Street Canal	PCB TEQ (Dioxin-like PCBs) Non-dioxin-like-PCBs	4E-04 1E-02	NA NA	NA NA	4E-04 1E-02	Developmental Finger nails, Eyes	5E+01 3E+03	NA NA	NA NA	5E+01 3E+03
		Exposure Point Total		1E-02	NA	NA	1E-02		3E+03	NA	NA	3E+03
	Exposure Medium Total			1E-02	NA	NA	1E-02		3E+03	NA	NA	3E+03
Medium Total				1E-02	NA	NA	1E-02		3E+03	NA	NA	3E+03
Receptor Total				1E-02	NA	NA	1E-02		3E+03	NA	NA	3E+03

NA = Not applicable or not available

Total Finger nails HI Across Media =	**3E+03**
Total Eyes HI Across Media =	**3E+03**
Total Developmental HI Across Media =	**5E+01**

TABLE 10.6. RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Bon Brae Street)	Total Soil	Total PCBs	1E-06	NA	6E-07	2E-06	Finger nails, Eyes	1E+01	NA	4E+00	1E+01
		Exposure Point Total		1E-06	NA	6E-07	2E-06		1E+01	NA	4E+00	1E+01
	Exposure Medium Total			1E-06	NA	6E-07	2E-06		1E+01	NA	4E+00	1E+01
Medium Total				1E-06	2E-11	6E-07	2E-06		1E+01	0E+00	4E+00	1E+01
Receptor Total				1E-06	2E-11	6E-07	2E-06		1E+01	0E+00	4E+00	1E+01

NA = Not applicable or not available

Total Finger nails HI Across Media =	**1E+01**
Total Eyes HI Across Media =	**1E+01**

TABLE 10.7. RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Lakeland Street)	Total Soil	Total PCBs	4E-07	NA	2E-07	5E-07	Finger nails, Eyes	3E+00	NA	1E+00	4E+00
		Exposure Point Total		4E-07	NA	2E-07	5E-07		3E+00	NA	1E+00	4E+00
	Exposure Medium Total			4E-07	NA	2E-07	5E-07		3E+00	NA	1E+00	4E+00
Medium Total				4E-07	6E-12	2E-07	5E-07		3E+00	0E+00	1E+00	4E+00
Receptor Total				4E-07	6E-12	2E-07	5E-07		3E+00	0E+00	1E+00	4E+00

NA = Not applicable or not available

Total Finger nails HI Across Media =	**4E+00**
Total Eyes HI Across Media =	**4E+00**

TABLE 10.8. RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Ten-Mile Drain)	Total Soil	Total PCBs	4E-07	NA	2E-07	5E-07	Finger nails, Eyes	3E+00	NA	1E+00	4E+00
		Exposure Point Total		4E-07	NA	2E-07	5E-07		3E+00	NA	1E+00	4E+00
	Exposure Medium Total			4E-07	NA	2E-07	5E-07		3E+00	NA	1E+00	4E+00
	Ambient Air (Utility Corridors along Ten-Mile Drain)	Emissions from Total Soil	Total PCBs	NA	6E-12	NA	6E-12	NA	NA	NA	NA	NA
		Exposure Point Total		NA	6E-12	NA	6E-12		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	6E-12	NA	6E-12		NA	0E+00	NA	0E+00
	Exposure Point Total			NA	6E-12	NA	6E-12		NA	0E+00	NA	0E+00
	Exposure Medium Total			NA	6E-12	NA	6E-12		NA	0E+00	NA	0E+00
Medium Total				4E-07	6E-12	2E-07	5E-07		3E+00	0E+00	1E+00	4E+00
Receptor Total				4E-07	6E-12	2E-07	5E-07		3E+00	0E+00	1E+00	4E+00

NA = Not applicable or not available

Total Finger nails HI Across Media =	**4E+00**
Total Eyes HI Across Media =	**4E+00**

TABLE 10.9. RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current and Future
Receptor Population: Resident (Martin Drain)
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil (0 - 7 ft)	Total Soil (Yard)	Total Soil	Total PCBs	NA	NA	NA	NA	Finger nails, Eyes	3E+00	NA	7E-01	3E+00
		Exposure Point Total		NA	NA	NA	NA		3E+00	NA	7E-01	3E+00
	Exposure Medium Total			NA	NA	NA	NA		3E+00	NA	7E-01	3E+00
Medium Total				NA	NA	NA	NA		3E+00	0E+00	7E-01	3E+00
Receptor Total				NA	NA	NA	NA		3E+00	0E+00	7E-01	3E+00

NA = Not applicable or not available

Total Finger nails HI Across Media =	**3E+00**
Total Eyes HI Across Media =	**3E+00**

TABLE 10.10. RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Scenario Timeframe: Current/Future
Receptor Population: Utility Worker (Martin Drain)
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil (0 - 10 ft)	Total Soil (Utility Corridors along Bon Brae Street)	Total Soil	Total PCBs	3E-06	NA	2E-06	5E-06	Finger nails, Eyes	2E+01	NA	1E+01	3E+01
		Exposure Point Total		3E-06	NA	2E-06	5E-06		2E+01	NA	1E+01	3E+01
	Exposure Medium Total			3E-06	NA	2E-06	5E-06		2E+01	NA	1E+01	3E+01
Medium Total				3E-06	2E-11	2E-06	5E-06		2E+01	0E+00	1E+01	3E+01
Receptor Total				3E-06	2E-11	2E-06	5E-06		2E+01	0E+00	1E+01	3E+01

NA = Not applicable or not available

Total Finger nails HI Across Media =	**3E+01**
Total Eyes HI Across Media =	**3E+01**

Appendix B
Analytical Data

TABLE 1

Soil Samples Used in the HHRA

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Sample ID	Station ID	Upper Depth (feet)	Lower Depth (feet)	Date Collected	Property Location ID	Yard/Parkway/ Utility Corridor	Surface Soil	Total Soil	Residential Yards	Residential Parkways	Commercial Yards	Commercial Parkways	Utility Corridors
TMD-SO-012-0/0.5	TMD-012	0	0.5	5/8/2013	012	Back Yard	X	X	X				
TMD-SO-012-1/1.5	TMD-012	1	1.5	5/8/2013	012	Back Yard	X	X	X				
TMD-SO-012-2.5/3	TMD-012	2.5	3	5/8/2013	012	Back Yard		X	X				
TMD-SO-013-0/0.5	TMD-013	0	0.5	5/8/2013	013	Back Yard	X	X	X				
TMD-SO-013-1/1.5	TMD-013	1	1.5	5/9/2013	013	Back Yard	X	X	X				
TMD-SO-013-2.5/3	TMD-013	2.5	3	5/9/2013	013	Back Yard		X	X				
TMD-SO-017-0/0.5	TMD-017	0	0.5	5/10/2013	017	Back Yard	X	X	X				
TMD-SO-017-1/1.5	TMD-017	1	1.5	5/10/2013	017	Back Yard	X	X	X				
TMD-SO-017-2.5/3	TMD-017	1	1.5	5/10/2013	017	Back Yard	X	X	X				
TMD-SO-018-1/1.5	TMD-018	1	1.5	5/13/2013	018	Back Yard	X	X	X				
TMD-SO-018-0/0.5	TMD-018	2.5	3	5/10/2013	018	Back Yard		X	X				
TMD-SO-018-2.5/3	TMD-018	2.5	3	5/13/2013	018	Back Yard		X	X				
TMD-SO-019-0/0.5R1	TMD-019	0	0.5	5/13/2013	019	Back Yard	X	X	X				
TMD-SO-019-0/0.5R2	TMD-019	0	0.5	5/13/2013	019	Back Yard	X	X	X				
TMD-SO-019-0/0.5R3	TMD-019	0	0.5	5/13/2013	019	Back Yard	X	X	X				
TMD-SO-019-1/1.5R1	TMD-019	1	1.5	5/13/2013	019	Back Yard	X	X	X				
TMD-SO-019-1/1.5R2	TMD-019	1	1.5	5/13/2013	019	Back Yard	X	X	X				
TMD-SO-019-1/1.5R3	TMD-019	1	1.5	5/13/2013	019	Back Yard	X	X	X				
TMD-SO-019-2.5/3R2	TMD-019	2.5	3	5/13/2013	019	Back Yard		X	X				
TMD-SO-019-2.5/3R3	TMD-019	2.5	3	5/13/2013	019	Back Yard		X	X				
TMD-SO-020-0/0.5	TMD-020	0	0.5	5/13/2013	020	Back Yard	X	X	X				
TMD-SO-020-1/1.5	TMD-020	1	1.5	5/13/2013	020	Back Yard	X	X	X				
TMD-SO-020-2.5/3	TMD-020	2.5	3	5/14/2013	020	Back Yard		X	X				
TMD-SO-020-2.5/3R1	TMD-020	2.5	3	5/13/2013	020	Back Yard		X	X				
TMD-SO-021-0/0.5	TMD-021	0	0.5	5/14/2013	021	Back Yard	X	X	X				
TMD-SO-021-1/1.5	TMD-021	1	1.5	5/15/2013	021	Back Yard	X	X	X				
TMD-SO-021-2.5/3	TMD-021	2.5	3	5/15/2013	021	Back Yard		X	X				
TMD-SO-022-0/0.5	TMD-022	0	0.5	5/15/2013	022	Back Yard	X	X	X				
TMD-SO-022-1/1.5	TMD-022	1	1.5	5/15/2013	022	Back Yard	X	X	X				
TMD-SO-022-2.5/3	TMD-022	2.5	3	5/15/2013	022	Back Yard		X	X				
TMD-SO-023-0/0.5	TMD-023	0	0.5	5/15/2013	023	Back Yard	X	X	X				
TMD-SO-023-1/1.5	TMD-023	1	1.5	5/15/2013	023	Back Yard	X	X	X				
TMD-SO-023-2.5/3	TMD-023	2.5	3	5/15/2013	023	Back Yard		X	X				
TMD-SO-024-0/0.5	TMD-024	0	0.5	5/16/2013	024	Back Yard	X	X	X				
TMD-SO-024-1/1.5	TMD-024	1	1.5	5/16/2013	024	Back Yard	X	X	X				
TMD-SO-024-2.5/3	TMD-024	2.5	3	5/16/2013	024	Back Yard		X	X				
TMD-SO-025-0/0.5	TMD-025	0	0.5	5/16/2013	025	Back Yard	X	X	X				
TMD-SO-025-1/1.5	TMD-025	1	1.5	5/16/2013	025	Back Yard	X	X	X				
TMD-SO-025-2.5/3	TMD-025	2.5	3	5/16/2013	025	Back Yard		X	X				
TMD-SO-026-0/0.5	TMD-026	0	0.5	5/16/2013	026	Back Yard	X	X	X				
TMD-SO-026-1/1.5	TMD-026	1	1.5	5/16/2013	026	Back Yard	X	X	X				
TMD-SO-026-2.5/3	TMD-026	2.5	3	5/16/2013	026	Back Yard		X	X				
TMD-SO-027-0/0.5	TMD-027	0	0.5	5/16/2013	027	Back Yard	X	X	X				
TMD-SO-027-1/1.5	TMD-027	1	1.5	5/16/2013	027	Back Yard	X	X	X				
TMD-SO-027-2.5/3	TMD-027	2.5	3	5/16/2013	027	Back Yard		X	X				
TMD-SO-028-0/0.5R1	TMD-028	0	0.5	5/16/2013	028	Back Yard	X	X	X				
TMD-SO-028-0/0.5R2	TMD-028	0	0.5	5/17/2013	028	Back Yard	X	X	X				

TABLE 1

Soil Samples Used in the HHRA

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Sample ID	Station ID	Upper Depth (feet)	Lower Depth (feet)	Date Collected	Property Location ID	Yard/Parkway/ Utility Corridor	Surface Soil	Total Soil	Residential Yards	Residential Parkways	Commercial Yards	Commercial Parkways	Utility Corridors
TMD-SO-028-0/0.5R3	TMD-028	0	0.5	5/17/2013	028	Back Yard	X	X	X				
TMD-SO-028-1/1.5R1	TMD-028	1	1.5	5/16/2013	028	Back Yard	X	X	X				
TMD-SO-028-1/1.5R2	TMD-028	1	1.5	5/17/2013	028	Back Yard	X	X	X				
TMD-SO-028-1/1.5R3	TMD-028	1	1.5	5/17/2013	028	Back Yard	X	X	X				
TMD-SO-028-2.5/3R1	TMD-028	2.5	3	5/17/2013	028	Back Yard		X	X				
TMD-SO-028-2.5/3R2	TMD-028	2.5	3	5/17/2013	028	Back Yard		X	X				
TMD-SO-028-2.5/3R3	TMD-028	2.5	3	5/17/2013	028	Back Yard		X	X				
TMD-SO-029-0/0.5	TMD-029	0	0.5	5/16/2013	029	Back Yard	X	X	X				
TMD-SO-029-1/1.5	TMD-029	1	1.5	5/16/2013	029	Back Yard	X	X	X				
TMD-SO-029-2.5/3	TMD-029	2.5	3	5/16/2013	029	Back Yard		X	X				
TMD-SO-030-0/0.5	TMD-030	0	0.5	5/17/2013	030	Back Yard	X	X	X				
TMD-SO-030-1/1.5	TMD-030	1	1.5	5/17/2013	030	Back Yard	X	X	X				
TMD-SO-030-2.5/3	TMD-030	2.5	3	5/20/2013	030	Back Yard		X	X				
TMD-SO-031-0/0.5	TMD-031	0	3.5	5/20/2013	031	Back Yard		X	X				
TMD-SO-031-1/1.5	TMD-031	1	1.5	5/20/2013	031	Back Yard	X	X	X				
TMD-SO-031-2.5/3	TMD-031	2.5	3	5/20/2013	031	Back Yard		X	X				
TMD-SO-032-0/0.5	TMD-032	0	0.5	5/20/2013	032	Back Yard	X	X	X				
TMD-SO-032-1/1.5	TMD-032	1	1.5	5/20/2013	032	Back Yard	X	X	X				
TMD-SO-032-2.5/3	TMD-032	2.5	3	5/20/2013	032	Back Yard		X	X				
TMD-SO-033-0/0.5	TMD-033	0	0.5	5/20/2013	033	Back Yard	X	X	X				
TMD-SO-033-0.5/1	TMD-033	0.5	1	5/21/2013	033	Back Yard	X	X	X				
TMD-SO-033-1/1.5	TMD-033	1	1.5	5/20/2013	033	Back Yard	X	X	X				
TMD-SO-033-2.5/3	TMD-033	2.5	3	5/20/2013	033	Back Yard		X	X				
TMD-SO-034-0/0.5	TMD-034	0	0.5	5/20/2013	034	Back Yard	X	X	X				
TMD-SO-034-1/1.5	TMD-034	1	1.5	5/20/2013	034	Back Yard	X	X	X				
TMD-SO-034-2.5/3	TMD-034	2.5	3	5/20/2013	034	Back Yard		X	X				
TMD-SO-035-0/0.5	TMD-035	0	0.5	5/21/2013	035	Back Yard	X	X	X				
TMD-SO-035-1/1.5	TMD-035	1	1.5	5/21/2013	035	Back Yard	X	X	X				
TMD-SO-035-2.5/3	TMD-035	2.5	3	5/21/2013	035	Back Yard		X	X				
TMD-SO-036-0/0.5	TMD-036	0	0.5	5/21/2013	036	Back Yard	X	X	X				
TMD-SO-036-1/1.5	TMD-036	1	1.5	5/21/2013	036	Back Yard	X	X	X				
TMD-SO-036-2.5/3	TMD-036	2.5	3	5/21/2013	036	Back Yard		X	X				
TMD-SO-037-0/0.5	TMD-037	0	0.5	5/21/2013	037	Back Yard	X	X	X				
TMD-SO-037-1/1.5	TMD-037	1	1.5	5/21/2013	037	Back Yard	X	X	X				
TMD-SO-037-2.5/3	TMD-037	2.5	3	5/21/2013	037	Back Yard		X	X				
TMD-SO-038-0/0.5	TMD-038	0	0.5	5/21/2013	038	Back Yard	X	X	X				
TMD-SO-038-1/1.5	TMD-038	1	1.5	5/21/2013	038	Back Yard	X	X	X				
TMD-SO-038-2.5/3	TMD-038	2.5	3	5/21/2013	038	Back Yard		X	X				
TMD-SO-039-0/0.5	TMD-039	0	0.5	5/21/2013	039	Back Yard	X	X	X				
TMD-SO-039-1/1.5	TMD-039	1	1.5	5/22/2013	039	Back Yard	X	X	X				
TMD-SO-039-2.5/3	TMD-039	2.5	3	5/22/2013	039	Back Yard		X	X				
TMD-SO-040-0/0.5R1	TMD-040	0	0.5	5/22/2013	040	Back Yard	X	X	X				
TMD-SO-040-0/0.5R2	TMD-040	0	0.5	5/22/2013	040	Back Yard	X	X	X				
TMD-SO-040-0/0.5R3	TMD-040	0	0.5	5/22/2013	040	Back Yard	X	X	X				
TMD-SO-040-1/1.5R1	TMD-040	1	1.5	5/22/2013	040	Back Yard	X	X	X				
TMD-SO-040-1/1.5R2	TMD-040	1	1.5	5/22/2013	040	Back Yard	X	X	X				
TMD-SO-040-1/1.5R3	TMD-040	1	1.5	5/22/2013	040	Back Yard	X	X	X				

TABLE 1
Soil Samples Used in the HHRA
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Sample ID	Station ID	Upper Depth (feet)	Lower Depth (feet)	Date Collected	Property Location ID	Yard/Parkway/ Utility Corridor	Surface Soil	Total Soil	Residential Yards	Residential Parkways	Commercial Yards	Commercial Parkways	Utility Corridors
TMD-SO-040-2.5/3R1	TMD-040	2.5	3	5/22/2013	040	Back Yard		X	X				
TMD-SO-040-2.5/3R2	TMD-040	2.5	3	5/22/2013	040	Back Yard		X	X				
TMD-SO-040-2.5/3R3	TMD-040	2.5	3	5/22/2013	040	Back Yard		X	X				
TMD-SO-041-0/0.5R1	TMD-041	0	0.5	5/22/2013	041	Back Yard	X	X	X				
TMD-SO-041-0/0.5R2	TMD-041	0	0.5	5/22/2013	041	Back Yard	X	X	X				
TMD-SO-041-0/0.5R3	TMD-041	0	0.5	5/23/2013	041	Back Yard	X	X	X				
TMD-SO-041-1/1.5R1	TMD-041	1	1.5	5/22/2013	041	Back Yard	X	X	X				
TMD-SO-041-1/1.5R2	TMD-041	1	1.5	5/23/2013	041	Back Yard	X	X	X				
TMD-SO-041-1/1.5R3	TMD-041	1	1.5	5/23/2013	041	Back Yard	X	X	X				
TMD-SO-041-2.5/3R1	TMD-041	2.5	3	5/22/2013	041	Back Yard		X	X				
TMD-SO-041-2.5/3R2	TMD-041	2.5	3	5/22/2013	041	Back Yard		X	X				
TMD-SO-041-2.5/3R3	TMD-041	2.5	3	5/23/2013	041	Back Yard		X	X				
TMD-SO-067-0/0.5	TMD-067	0	0.5	9/12/2013	067	Back Yard	X	X	X				
TMD-SO-067-1/1.5	TMD-067	1	1.5	9/12/2013	067	Back Yard	X	X	X				
TMD-SO-067-2.5/3	TMD-067	2.5	3	9/12/2013	067	Back Yard		X	X				
TMD-SO-074-0/0.5R1	TMD-074	0	0.5	9/16/2013	074	Back Yard	X	X	X				
TMD-SO-074-0/0.5R2	TMD-074	0	0.5	9/16/2013	074	Back Yard	X	X	X				
TMD-SO-074-0/0.5R3	TMD-074	0	0.5	9/17/2013	074	Back Yard	X	X	X				
TMD-SO-074-1/1.5R1	TMD-074	1	1.5	9/16/2013	074	Back Yard	X	X	X				
TMD-SO-074-1/1.5R2	TMD-074	1	1.5	9/16/2013	074	Back Yard	X	X	X				
TMD-SO-074-1/1.5R3	TMD-074	1	1.5	9/17/2013	074	Back Yard	X	X	X				
TMD-SO-074-2.5/3R1	TMD-074	2.5	3	9/16/2013	074	Back Yard		X	X				
TMD-SO-074-2.5/3R2	TMD-074	2.5	3	9/16/2013	074	Back Yard		X	X				
TMD-SO-074-2.5/3R3	TMD-074	2.5	3	9/17/2013	074	Back Yard		X	X				
TMD-SO-075-0/0.5	TMD-075	0	0.5	9/17/2013	075	Back Yard	X	X	X				
TMD-SO-075-1/1.5	TMD-075	1	1.5	9/17/2013	075	Back Yard	X	X	X				
TMD-SO-077-0/0.5	TMD-077	0	0.5	9/17/2013	077	Back Yard	X	X	X				
TMD-SO-077-1/1.5	TMD-077	1	1.5	9/17/2013	077	Back Yard	X	X	X				
TMD-SO-077-2.5/3	TMD-077	2.5	3	9/17/2013	077	Back Yard		X	X				
TMD-SO-078-0/0.5R1	TMD-078	0	0.5	9/17/2013	078	Back Yard	X	X	X				
TMD-SO-078-0/0.5R2	TMD-078	0	0.5	9/17/2013	078	Back Yard	X	X	X				
TMD-SO-078-0/0.5R3	TMD-078	0	0.5	9/17/2013	078	Back Yard	X	X	X				
TMD-SO-078-1/1.5R1	TMD-078	1	1.5	9/17/2013	078	Back Yard	X	X	X				
TMD-SO-078-1/1.5R2	TMD-078	1	1.5	9/17/2013	078	Back Yard	X	X	X				
TMD-SO-078-1/1.5R3	TMD-078	1	1.5	9/17/2013	078	Back Yard	X	X	X				
TMD-SO-078-2.5/3R1	TMD-078	2.5	3	9/17/2013	078	Back Yard		X	X				
TMD-SO-078-2.5/3R2	TMD-078	2.5	3	9/17/2013	078	Back Yard		X	X				
TMD-SO-078-2.5/3R3	TMD-078	2.5	3	9/17/2013	078	Back Yard		X	X				
TMD-SO-003-0/0.5	TMD-003	0	0.5	4/30/2013	003	Front Yard	X	X	X				
TMD-SO-003-1/1.5	TMD-003	1	1.5	4/30/2013	003	Front Yard	X	X	X				
TMD-SO-003-2.5/3	TMD-003	2.5	3	4/30/2013	003	Front Yard		X	X				
TMD-SO-004-0/0.5	TMD-004	0	0.5	4/30/2013	004	Front Yard	X	X	X				
TMD-SO-004-1/1.5	TMD-004	1	1.5	4/30/2013	004	Front Yard	X	X	X				
TMD-SO-004-2.5/3	TMD-004	2.5	3	4/30/2013	004	Front Yard		X	X				
TMD-SO-005-0/0.5	TMD-005	0	0.5	4/30/2013	005	Front Yard	X	X	X				
TMD-SO-005-0.5/1	TMD-005	0.5	1	5/2/2013	005	Front Yard	X	X	X				
TMD-SO-005-1/1.5	TMD-005	1	1.5	4/30/2013	005	Front Yard	X	X	X				

TABLE 1

Soil Samples Used in the HHRA

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Sample ID	Station ID	Upper Depth (feet)	Lower Depth (feet)	Date Collected	Property Location ID	Yard/Parkway/ Utility Corridor	Surface Soil	Total Soil	Residential Yards	Residential Parkways	Commercial Yards	Commercial Parkways	Utility Corridors
TMD-SO-005-2.5/3	TMD-005	2.5	3	4/30/2013	005	Front Yard		X	X				
TMD-SO-006-0/0.5	TMD-006	0	0.5	5/1/2013	006	Front Yard	X	X	X				
TMD-SO-006-1/1.5	TMD-006	1	1.5	5/1/2013	006	Front Yard	X	X	X				
TMD-SO-006-2.5/3	TMD-006	2.5	3	5/1/2013	006	Front Yard		X	X				
TMD-SO-007-0/0.5	TMD-007	0	0.5	5/1/2013	007	Front Yard	X	X	X				
TMD-SO-007-1/1.5	TMD-007	1	1.5	5/1/2013	007	Front Yard	X	X	X				
TMD-SO-007-2.5/3	TMD-007	2.5	3	5/1/2013	007	Front Yard		X	X				
TMD-SO-008-0/0.5	TMD-008	0	0.5	5/1/2013	008	Front Yard	X	X	X				
TMD-SO-008-1/1.5	TMD-008	1	1.5	5/1/2013	008	Front Yard	X	X	X				
TMD-SO-008-2.5/3	TMD-008	2.5	3	5/1/2013	008	Front Yard		X	X				
TMD-SO-009-0/0.5	TMD-009	0	0.5	5/2/2013	009	Front Yard	X	X	X				
TMD-SO-009-1/1.5	TMD-009	1	1.5	5/2/2013	009	Front Yard	X	X	X				
TMD-SO-009-2.5/3	TMD-009	2.5	3	5/2/2013	009	Front Yard		X	X				
TMD-SO-010-0/0.5R1	TMD-010	0	0.5	5/2/2013	010	Front Yard	X	X	X				
TMD-SO-010-0/0.5R2	TMD-010	0	0.5	5/2/2013	010	Front Yard	X	X	X				
TMD-SO-010-0/0.5R3	TMD-010	0	0.5	5/2/2013	010	Front Yard	X	X	X				
TMD-SO-010-1/1.5R1	TMD-010	1	1.5	5/2/2013	010	Front Yard	X	X	X				
TMD-SO-010-1/1.5R2	TMD-010	1	1.5	5/3/2013	010	Front Yard	X	X	X				
TMD-SO-010-1/1.5R3	TMD-010	1	1.5	5/3/2013	010	Front Yard	X	X	X				
TMD-SO-010-2/2.5-R3	TMD-010	2	2.5	5/6/2013	010	Front Yard		X	X				
TMD-SO-010-2.5/3R1	TMD-010	2.5	3	5/3/2013	010	Front Yard		X	X				
TMD-SO-010-2.5/3R2	TMD-010	2.5	3	5/6/2013	010	Front Yard		X	X				
TMD-SO-010-2.5/3R3	TMD-010	2.5	3	5/9/2013	010	Front Yard		X	X				
TMD-SO-011-0/0.5/R3	TMD-011	0	0.5	5/6/2013	011	Front Yard	X	X	X				
TMD-SO-011-0/0.5R1	TMD-011	0	0.5	5/6/2013	011	Front Yard	X	X	X				
TMD-SO-011-0/0.5R2	TMD-011	0	0.5	5/6/2013	011	Front Yard	X	X	X				
TMD-SO-011-0.5/1	TMD-011	0.5	1	5/15/2013	011	Front Yard	X	X	X				
TMD-SO-011-0.5/1R2	TMD-011	0.5	1	5/15/2013	011	Front Yard	X	X	X				
TMD-SO-011-0.5/1R3	TMD-011	0.5	1	5/15/2013	011	Front Yard	X	X	X				
TMD-SO-011-1/1.5R1	TMD-011	1	1.5	5/6/2013	011	Front Yard	X	X	X				
TMD-SO-011-1/1.5R2	TMD-011	1	1.5	5/6/2013	011	Front Yard	X	X	X				
TMD-SO-011-1/1.5R3	TMD-011	1	1.5	5/6/2013	011	Front Yard	X	X	X				
TMD-SO-011-2.5/3R1	TMD-011	2.5	3	5/6/2013	011	Front Yard		X	X				
TMD-SO-011-2.5/3R2	TMD-011	2.5	3	5/8/2013	011	Front Yard		X	X				
TMD-SO-011-2.5/3R3	TMD-011	2.5	3	5/6/2013	011	Front Yard		X	X				
TMD-SO-014-0/0.5	TMD-014	0	0.5	5/9/2013	014	Front Yard	X	X	X				
TMD-SO-014-1/1.5	TMD-014	1	1.5	5/9/2013	014	Front Yard	X	X	X				
TMD-SO-014-2.5/3	TMD-014	2.5	3	5/9/2013	014	Front Yard		X	X				
TMD-SO-015-0/0.5	TMD-015	0	0.5	5/9/2013	015	Front Yard	X	X	X				
TMD-SO-015-1/1.5	TMD-015	1	1.5	5/9/2013	015	Front Yard	X	X	X				
TMD-SO-015-2.5/3	TMD-015	2.5	3	5/9/2013	015	Front Yard		X	X				
TMD-SO-016-0/0.5	TMD-016	0	0.5	5/9/2013	016	Front Yard	X	X	X				
TMD-SO-016-1/1.5	TMD-016	1	1.5	5/9/2013	016	Front Yard	X	X	X				
TMD-SO-016-1.5/2	TMD-016	1.5	2	5/15/2013	016	Front Yard	X	X	X				
TMD-SO-016-2.5/3	TMD-016	2.5	3	5/9/2013	016	Front Yard		X	X				
TMD-SO-058-0/0.5	TMD-058	0	0.5	9/10/2013	058	Front Yard	X	X	X				
TMD-SO-058-1/1.5	TMD-058	1	1.5	9/10/2013	058	Front Yard	X	X	X				

TABLE 1
Soil Samples Used in the HHRA
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Sample ID	Station ID	Upper Depth (feet)	Lower Depth (feet)	Date Collected	Property Location ID	Yard/Parkway/ Utility Corridor	Surface Soil	Total Soil	Residential Yards	Residential Parkways	Commercial Yards	Commercial Parkways	Utility Corridors
TMD-SO-058-2.5/3	TMD-058	2.5	3	9/10/2013	058	Front Yard		X	X				
TMD-SO-060-0/0.5R1	TMD-060	0	0.5	9/10/2013	060	Front Yard	X	X	X				
TMD-SO-060-0/0.5R2	TMD-060	0	0.5	9/10/2013	060	Front Yard	X	X	X				
TMD-SO-060-0/0.5R3	TMD-060	0	0.5	9/10/2013	060	Front Yard	X	X	X				
TMD-SO-060-1/1.5R1	TMD-060	1	1.5	9/10/2013	060	Front Yard	X	X	X				
TMD-SO-060-1/1.5R2	TMD-060	1	1.5	9/10/2013	060	Front Yard	X	X	X				
TMD-SO-060-1/1.5R3	TMD-060	1	1.5	9/11/2013	060	Front Yard	X	X	X				
TMD-SO-060-2.5/3R1	TMD-060	2.5	3	9/10/2013	060	Front Yard		X	X				
TMD-SO-060-2.5/3R2	TMD-060	2.5	3	9/10/2013	060	Front Yard		X	X				
TMD-SO-060-2.5/3R3	TMD-060	2.5	3	9/11/2013	060	Front Yard		X	X				
TMD-SO-062-0/0.5	TMD-062	0	0.5	9/11/2013	062	Front Yard	X	X	X				
TMD-SO-062-1/1.5	TMD-062	1	1.5	9/11/2013	062	Front Yard	X	X	X				
TMD-SO-062-2.5/3	TMD-062	2.5	3	9/11/2013	062	Front Yard		X	X				
TMD-SO-064-0/0.5	TMD-064	0	0.5	9/11/2013	064	Front Yard	X	X	X				
TMD-SO-064-1/1.5	TMD-064	1	1.5	9/11/2013	064	Front Yard	X	X	X				
TMD-SO-064-2.5/3	TMD-064	2.5	3	9/11/2013	064	Front Yard		X	X				
TMD-SO-066-0/0.5	TMD-066	0	0.5	9/12/2013	066	Front Yard	X	X	X				
TMD-SO-066-1/1.5	TMD-066	1	1.5	9/12/2013	066	Front Yard	X	X	X				
TMD-SO-066-2.5/3	TMD-066	2.5	3	9/12/2013	066	Front Yard		X	X				
TMD-SO-070-0/0.5	TMD-070	0	0.5	9/12/2013	070	Front Yard	X	X	X				
TMD-SO-070-1/1.5	TMD-070	1	1.5	9/13/2013	070	Front Yard	X	X	X				
TMD-SO-070-2.5/3	TMD-070	2.5	3	9/13/2013	070	Front Yard		X	X				
TMD-SO-072-0/0.5	TMD-072	0	0.5	9/13/2013	072	Front Yard	X	X	X				
TMD-SO-072-1/1.5	TMD-072	1	1.5	9/13/2013	072	Front Yard	X	X	X				
TMD-SO-072-2.5/3	TMD-072	2.5	3	9/13/2013	072	Front Yard		X	X				
TMD-SO-073-0/0.5	TMD-073	0	0.5	9/13/2013	073	Front Yard	X	X	X				
TMD-SO-073-1/1.5	TMD-073	1	1.5	9/13/2013	073	Front Yard	X	X	X				
TMD-SO-073-2.5/3	TMD-073	2.5	3	9/13/2013	073	Front Yard		X	X				
TMD-SO-080-0/0.5	TMD-080	0	0.5	9/19/2013	080	Front Yard	X	X	X				
TMD-SO-080-1/1.5	TMD-080	1	1.5	9/19/2013	080	Front Yard	X	X	X				
TMD-SO-082-0/0.5	TMD-082	0	0.5	9/19/2013	082	Front Yard	X	X	X				
TMD-SO-082-1/1.5	TMD-082	1	1.5	9/19/2013	082	Front Yard	X	X	X				
TMD-SO-084-0/0.5	TMD-084	0	0.5	9/19/2013	084	Front Yard	X	X	X				
TMD-SO-084-1/1.5	TMD-084	1	1.5	9/19/2013	084	Front Yard	X	X	X				
TMD-SO-001-01-0/1.0	TMD-001-01	0	1	4/29/2013	001	Parkway	X	X				X	X
TMD-SO-001-01-5/7	TMD-001-01	5	7	4/29/2013	001	Parkway		X					X
TMD-SO-001-02-0.5/1	TMD-001-02	0.5	1	4/29/2013	001	Parkway	X	X				X	X
TMD-SO-001-02-5/7	TMD-001-02	5	7	4/29/2013	001	Parkway		X					X
TMD-SO-001-03-0.5/1.0	TMD-001-03	0.5	1	4/29/2013	001	Parkway	X	X				X	X
TMD-SO-001-03-5/7	TMD-001-03	5	7	4/29/2013	001	Parkway		X					X
TMD-SO-001-04-0.5/1.0	TMD-001-04	0.5	1	4/29/2013	001	Parkway	X	X				X	X
TMD-SO-001-04-5/7	TMD-001-04	5	7	4/29/2013	001	Parkway		X					X
TMD-SO-001-05-0.5/1	TMD-001-05	0.5	1	4/29/2013	001	Parkway	X	X				X	X
TMD-SO-001-05-5/7	TMD-001-05	5	7	4/29/2013	001	Parkway		X					X
TMD-SO-001-06-0.5/1	TMD-001-06	0.5	1	4/29/2013	001	Parkway	X	X				X	X
TMD-SO-001-06-5/7	TMD-001-06	5	7	4/29/2013	001	Parkway		X					X
TMD-SO-001-07-0.5/1	TMD-001-07	0.5	1	4/30/2013	001	Parkway	X	X				X	X

TABLE 1

Soil Samples Used in the HHRA

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Sample ID	Station ID	Upper Depth (feet)	Lower Depth (feet)	Date Collected	Property Location ID	Yard/Parkway/ Utility Corridor	Surface Soil	Total Soil	Residential Yards	Residential Parkways	Commercial Yards	Commercial Parkways	Utility Corridors
TMD-SO-001-07-5/7	TMD-001-07	5	7	4/30/2013	001	Parkway		X					X
TMD-SO-001-08-0.5/1	TMD-001-08	0.5	1	4/30/2013	001	Parkway	X	X				X	X
TMD-SO-001-08-5/7	TMD-001-08	5	7	4/30/2013	001	Parkway		X					X
TMD-SO-001-09-0.5/1	TMD-001-09	0.5	1	4/30/2013	001	Parkway	X	X				X	X
TMD-SO-001-09-0.5/1R	TMD-001-09	0.5	1	4/30/2013	001	Parkway	X	X				X	X
TMD-SO-001-09-5/7	TMD-001-09	5	7	4/30/2013	001	Parkway		X					X
TMD-SO-001-10-0/1	TMD-001-10	0	1	4/30/2013	001	Parkway	X	X				X	X
TMD-SO-001-10-5/7	TMD-001-10	5	7	4/30/2013	001	Parkway		X					X
TMD-SO-001-11-0/1	TMD-001-11	0	1	4/30/2013	001	Parkway	X	X				X	X
TMD-SO-001-11-5/7	TMD-001-11	5	7	4/30/2013	001	Parkway		X					X
TMD-SO-001-12-0/1	TMD-001-12	0	1	4/30/2013	001	Parkway	X	X				X	X
TMD-SO-001-12-5/7	TMD-001-12	5	7	4/30/2013	001	Parkway		X					X
TMD-SO-001-13-0/1	TMD-001-13	0	1	4/30/2013	001	Parkway	X	X				X	X
TMD-SO-001-13-0/1R	TMD-001-13	0	1	4/30/2013	001	Parkway	X	X				X	X
TMD-SO-001-13-5/7	TMD-001-13	5	7	4/30/2013	001	Parkway		X					X
TMD-SO-002-01-5/7	TMD-002-01	5	7	5/1/2013	002	Parkway		X					X
TMD-SO-002-02-5/7	TMD-002-02	5	7	5/1/2013	002	Parkway		X					X
TMD-SO-002-03-5/7	TMD-002-03	5	7	5/1/2013	002	Parkway		X					X
TMD-SO-002-04-5/7	TMD-002-04	5	7	5/1/2013	002	Parkway		X					X
TMD-SO-002-05-5/7	TMD-002-05	5	7	5/1/2013	002	Parkway		X					X
TMD-SO-002-06-5/7	TMD-002-06	5	7	5/1/2013	002	Parkway		X					X
TMD-SO-002-07-5/7	TMD-002-07	5	7	5/2/2013	002	Parkway		X					X
TMD-SO-002-08-3/4.5	TMD-002-08	3	4.5	5/2/2013	002	Parkway		X					X
TMD-SO-002-08-5/7	TMD-002-08	5	7	5/2/2013	002	Parkway		X					X
TMD-SO-002-09-2.3/2.6	TMD-002-09	2.3	2.6	5/2/2013	002	Parkway		X					X
TMD-SO-002-09-5/7	TMD-002-09	5	7	5/2/2013	002	Parkway		X					X
TMD-SO-002-10-5/7	TMD-002-10	5	7	5/3/2013	002	Parkway		X					X
TMD-SO-002-11-5/7	TMD-002-11	5	7	5/2/2013	002	Parkway		X					X
TMD-SO-002-12-5/7	TMD-002-12	5	7	5/2/2013	002	Parkway		X					X
TMD-SO-002-13-5/7	TMD-002-13	5	7	5/2/2013	002	Parkway		X					X
TMD-SO-002-14-5/7	TMD-002-14	5	7	5/3/2013	002	Parkway		X					X
TMD-SO-002-15-5/7	TMD-002-15	5	7	5/6/2013	002	Parkway		X					X
TMD-SO-002-15-5/7R	TMD-002-15	5	7	5/6/2013	002	Parkway		X					X
TMD-SO-002-16-5/7	TMD-002-16	5	7	5/6/2013	002	Parkway		X					X
TMD-SO-002-17-5/7	TMD-002-17	5	7	5/6/2013	002	Parkway		X					X
TMD-SO-002-18-5/7	TMD-002-18	5	7	5/6/2013	002	Parkway		X					X
TMD-SO-002-19-5/7	TMD-002-19	5	7	5/6/2013	002	Parkway		X					X
TMD-SO-002-20-5/7	TMD-002-20	5	7	5/6/2013	002	Parkway		X					X
TMD-SO-002-26-5/7	TMD-002-26	5	7	5/7/2013	002	Parkway		X					X
TMD-SO-002-26-8/10	TMD-002-26	8	10	5/7/2013	002	Parkway		X					X
TMD-SO-002-27-0/1	TMD-002-27	0	1	5/7/2013	002	Parkway	X	X		X			X
TMD-SO-002-28-0/1	TMD-002-28	0	1	5/7/2013	002	Parkway	X	X		X			X
TMD-SO-042-0/1	TMD-042	0	1	5/22/2013	042	Parkway	X	X					X
TMD-SO-042-2/3	TMD-042	2	3	5/22/2013	042	Parkway		X					X
TMD-SO-044-0/0.5	TMD-044	0	0.5	6/5/2013	044	Parkway	X	X		X			X
TMD-SO-044-1/1.5	TMD-044	1	1.5	6/5/2013	044	Parkway	X	X		X			X
TMD-SO-044-1.5/2	TMD-044	1.5	2	6/6/2013	044	Parkway	X	X		X			X

TABLE 1
Soil Samples Used in the HHRA
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Sample ID	Station ID	Upper Depth (feet)	Lower Depth (feet)	Date Collected	Property Location ID	Yard/Parkway/ Utility Corridor	Surface Soil	Total Soil	Residential Yards	Residential Parkways	Commercial Yards	Commercial Parkways	Utility Corridors
TMD-SO-050-0/0.5	TMD-050	0	0.5	6/4/2013	050	Parkway	X	X		X			X
TMD-SO-050-1/1.5	TMD-050	1	1.5	6/4/2013	050	Parkway	X	X		X			X
TMD-SO-050-1.5/2	TMD-050	1.5	2	6/5/2013	050	Parkway	X	X		X			X
TMD-SO-051-0/0.5	TMD-051	0	0.5	6/6/2013	051	Parkway	X	X		X			X
TMD-SO-051-1/1.5	TMD-051	1	1.5	6/6/2013	051	Parkway	X	X		X			X
TMD-SO-051-1.5/2	TMD-051	1.5	2	6/7/2013	051	Parkway	X	X		X			X
TMD-SO-053-1.5/2	TMD-053	1.5	2	6/7/2013	053	Parkway	X	X		X			
TMD-SO-057-2.5/3	TMD-057	2.5	3	9/9/2013	057	Parkway		X					X
TMD-SO-059-0/0.5	TMD-059	0	0.5	9/10/2013	059	Parkway	X	X		X			X
TMD-SO-059-1/1.5	TMD-059	1	1.5	9/10/2013	059	Parkway	X	X		X			X
TMD-SO-059-2.5/3	TMD-059	2.5	3	9/10/2013	059	Parkway		X					X
TMD-SO-061-0/0.5	TMD-061	0	0.5	9/11/2013	061	Parkway	X	X		X			X
TMD-SO-061-1/1.5	TMD-061	1	1.5	9/11/2013	061	Parkway	X	X		X			X
TMD-SO-061-2.5/3	TMD-061	2.5	3	9/11/2013	061	Parkway		X					X
TMD-SO-063-2.5/3	TMD-063	2.5	3	9/11/2013	063	Parkway		X					X
TMD-SO-065-2.5/3	TMD-065	2.5	3	9/12/2013	065	Parkway		X					X
TMD-SO-068-2.5/3	TMD-068	2.5	3	9/12/2013	068	Parkway		X					X
TMD-SO-069-2.5/3	TMD-069	2.5	3	9/13/2013	069	Parkway		X					X
TMD-SO-071-0/0.5	TMD-071	0	0.5	9/13/2013	071	Parkway	X	X		X			X
TMD-SO-071-1/1.5	TMD-071	1	1.5	9/13/2013	071	Parkway	X	X		X			X
TMD-SO-071-2.5/3	TMD-071	2.5	3	9/13/2013	071	Parkway		X					X
TMD-SO-079-0/0.5	TMD-079	0	0.5	9/19/2013	079	Parkway	X	X		X			X
TMD-SO-079-1/1.5	TMD-079	1	1.5	9/19/2013	079	Parkway	X	X		X			X
TMD-SO-081-0/0.5	TMD-081	0	0.5	9/19/2013	081	Parkway	X	X		X			X
TMD-SO-081-1/1.5	TMD-081	1	1.5	9/19/2013	081	Parkway	X	X		X			X
TMD-SO-083-0/0.5	TMD-083	0	0.5	9/19/2013	083	Parkway	X	X		X			X
TMD-SO-083-1/1.5	TMD-083	1	1.5	9/19/2013	083	Parkway	X	X		X			X
TMD-SO-085-0/0.5	TMD-085	0	0.5	9/19/2013	085	Parkway	X	X		X			X
TMD-SO-086-0/0.5	TMD-086	0	0.5	9/19/2013	086	Parkway	X	X		X			X
TMD-SO-087-0/0.5	TMD-087	0	0.5	9/19/2013	087	Parkway	X	X		X			X
TMD-SO-015/4-5	TMD-015	4	5	4/14/2011	015	TMD		X					X
TMD-SO-015/5-6	TMD-015	5	6	4/14/2011	015	TMD		X					X
TMD-SO-015/6-7	TMD-015	6	7	4/14/2011	015	TMD		X					X
TMD-SO-016/0-1	TMD-016	0	1	4/14/2011	016	TMD		X					X
TMD-SO-016/2-3	TMD-016	2	3	4/14/2011	016	TMD		X					X
TMD-SO-016/6-7	TMD-016	6	7	4/14/2011	016	TMD		X					X
TMD-SO-017/0-1	TMD-017	0	1	4/14/2011	017	TMD		X					X
TMD-SO-017/2-3	TMD-017	2	3	4/14/2011	017	TMD		X					X
TMD-SO-017/6-7	TMD-017	6	7	4/14/2011	017	TMD		X					X
TMD-SO-018/0-1	TMD-018	0	1	4/14/2011	018	TMD		X					X
TMD-SO-018/2-3	TMD-018	2	3	4/14/2011	018	TMD		X					X
TMD-SO-018/6-7	TMD-018	6	7	4/14/2011	018	TMD		X					X
TMD-SO-019/0-1	TMD-019	0	1	4/15/2011	019	TMD		X					X
TMD-SO-019/2-3	TMD-019	2	3	4/15/2011	019	TMD		X					X
TMD-SO-019/7-8	TMD-019	7	8	4/15/2011	019	TMD		X					X
TMD-SO-020/1-2	TMD-020	1	2	4/15/2011	020	TMD		X					X
TMD-SO-020/2-3	TMD-020	2	3	4/15/2011	020	TMD		X					X

TABLE 1

Soil Samples Used in the HHRA

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Sample ID	Station ID	Upper Depth (feet)	Lower Depth (feet)	Date Collected	Property Location ID	Yard/Parkway/ Utility Corridor	Surface Soil	Total Soil	Residential Yards	Residential Parkways	Commercial Yards	Commercial Parkways	Utility Corridors
TMD-SO-020/6-7	TMD-020	6	7	4/15/2011	020	TMD		X					X
TMD-SO-023/1-2	TMD-023	1	2	4/15/2011	023	TMD		X					X
TMD-SO-023/2-3	TMD-023	2	3	4/15/2011	023	TMD		X					X
TMD-SO-023/6-7	TMD-023	6	7	4/15/2011	023	TMD		X					X
TMD-SO-024/1-2	TMD-024	1	2	4/15/2011	024	TMD		X					X
TMD-SO-024/2-3	TMD-024	2	3	4/15/2011	024	TMD		X					X
TMD-SO-024/6-7	TMD-024	6	7	4/15/2011	024	TMD		X					X
TMD-SO-026/1-2	TMD-026	1	2	4/16/2011	026	TMD		X					X
TMD-SO-026/2-3	TMD-026	2	3	4/16/2011	026	TMD		X					X
TMD-SO-026/6-7	TMD-026	6	7	4/16/2011	026	TMD		X					X
TMD-SO-027/1-2	TMD-027	1	2	4/16/2011	027	TMD		X					X
TMD-SO-027/2-3	TMD-027	2	3	4/16/2011	027	TMD		X					X
TMD-SO-027/6-7	TMD-027	6	7	4/16/2011	027	TMD		X					X
TMD-SO-029/1-2	TMD-029	1	2	4/16/2011	029	TMD		X					X
TMD-SO-029/2-3	TMD-029	2	3	4/16/2011	029	TMD		X					X
TMD-SO-029/6-7	TMD-029	6	7	4/16/2011	029	TMD		X					X
TMD-SO-030/1-2	TMD-030	1	2	4/17/2011	030	TMD		X					X
TMD-SO-030/2-3	TMD-030	2	3	4/17/2011	030	TMD		X					X
TMD-SO-030/5-6	TMD-030	5	6	4/17/2011	030	TMD		X					X
TMD-SO-030/6-7	TMD-030	6	7	4/17/2011	030	TMD		X					X
TMD-SO-032/1-2	TMD-032	1	2	4/17/2011	032	TMD		X					X
TMD-SO-032/2-3	TMD-032	2	3	4/17/2011	032	TMD		X					X
TMD-SO-032/5-6	TMD-032	5	6	4/17/2011	032	TMD		X					X
TMD-SO-032/6-7	TMD-032	6	7	4/17/2011	032	TMD		X					X
TMD-SO-033/1-2	TMD-033	1	2	4/17/2011	033	TMD		X					X
TMD-SO-033/2-3	TMD-033	2	3	4/17/2011	033	TMD		X					X
TMD-SO-033/6.9-7.9	TMD-033	6.9	7.9	4/17/2011	033	TMD		X					X
TMD-SO-033/7.9-8.9	TMD-033	7.9	8.9	4/17/2011	033	TMD		X					X
TMD-SO-034/1-2	TMD-034	1	2	4/17/2011	034	TMD		X					X
TMD-SO-034/2-3	TMD-034	2	3	4/17/2011	034	TMD		X					X
TMD-SO-035/1-2	TMD-035	1	2	4/18/2011	035	TMD		X					X
TMD-SO-035/2-3	TMD-035	2	3	4/18/2011	035	TMD		X					X
TMD-SO-035/5-6	TMD-035	5	6	4/18/2011	035	TMD		X					X
TMD-SO-035/6-7	TMD-035	6	7	4/18/2011	035	TMD		X					X
TMD-SO-036/1-2	TMD-036	1	2	4/18/2011	036	TMD		X					X
TMD-SO-036/2-3	TMD-036	2	3	4/18/2011	036	TMD		X					X
TMD-SO-036/5-5.5	TMD-036	5	5.5	4/18/2011	036	TMD		X					X
TMD-SO-037/1-2	TMD-037	1	2	4/18/2011	037	TMD		X					X
TMD-SO-037/2-3	TMD-037	2	3	4/18/2011	037	TMD		X					X
TMD-SO-037/5-5.9	TMD-037	5	5.9	4/18/2011	037	TMD		X					X
TMD-SO-037/7.3-8	TMD-037	7.3	8	4/18/2011	037	TMD		X					X
TMD-SO-038/1-2	TMD-038	1	2	4/18/2011	038	TMD		X					X
TMD-SO-038/2.5-3.5	TMD-038	2.5	3.5	4/18/2011	038	TMD		X					X
TMD-SO-038/5-6	TMD-038	5	6	4/18/2011	038	TMD		X					X
TMD-SO-039/1-2	TMD-039	1	2	4/18/2011	039	TMD		X					X
TMD-SO-039/2-3	TMD-039	2	3	4/18/2011	039	TMD		X					X
TMD-SO-039/3-4	TMD-039	3	4	4/18/2011	039	TMD		X					X

TABLE 1
Soil Samples Used in the HHRA
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Sample ID	Station ID	Upper Depth (feet)	Lower Depth (feet)	Date Collected	Property Location ID	Yard/Parkway/ Utility Corridor	Surface Soil	Total Soil	Residential Yards	Residential Parkways	Commercial Yards	Commercial Parkways	Utility Corridors
TMD-SO-039/4-5	TMD-039	4	5	4/18/2011	039	TMD		X					X
TMD-SO-039/5-6	TMD-039	5	6	4/18/2011	039	TMD		X					X
TMD-SO-040/1-2	TMD-040	1	2	4/19/2011	040	TMD		X					X
TMD-SO-040/2-3	TMD-040	2	3	4/19/2011	040	TMD		X					X
TMD-SO-040/5-6	TMD-040	5	6	4/19/2011	040	TMD		X					X
TMD-SO-040/11-12	TMD-040	11	12	4/19/2011	040	TMD		X					X
TMD-SO-040/12.1-13.1	TMD-040	12.1	13.1	4/19/2011	040	TMD		X					X
TMD-SO-042/1-2	TMD-042	1	2	4/19/2011	042	TMD		X					X
TMD-SO-042/2-3	TMD-042	2	3	4/19/2011	042	TMD		X					X
TMD-SO-042/6-7	TMD-042	6	7	4/19/2011	042	TMD		X					X
TMD-SO-042/11.3-12.1	TMD-042	11.3	12.1	4/19/2011	042	TMD		X					X
TMD-SO-042/12.5-13.5	TMD-042	12.5	13.5	4/19/2011	042	TMD		X					X
TMD-SO-043/1-2	TMD-043	1	2	4/19/2011	043	TMD		X					X
TMD-SO-043/2-3	TMD-043	2	3	4/19/2011	043	TMD		X					X
TMD-SO-043/6-7	TMD-043	6	7	4/19/2011	043	TMD		X					X
TMD-SO-043/12.1-13.1	TMD-043	12.1	13.1	4/19/2011	043	TMD		X					X
TMD-SO-043/13.1-14.1	TMD-043	13.1	14.1	4/19/2011	043	TMD		X					X
TMD-SO-044/1-2	TMD-044	1	2	4/20/2011	044	TMD		X					X
TMD-SO-044/2-3	TMD-044	2	3	4/20/2011	044	TMD		X					X
TMD-SO-045/1-2	TMD-045	1	2	4/20/2011	045	TMD		X					X
TMD-SO-045/2-3	TMD-045	2	3	4/20/2011	045	TMD		X					X
TMD-SO-053/1-2	TMD-053	1	2	4/27/2011	053	TMD		X					X
TMD-SO-053/2-3	TMD-053	2	3	4/27/2011	053	TMD		X					X
TMD-SO-053/5-6	TMD-053	5	6	4/27/2011	053	TMD		X					X
TMD-SO-054/1-2	TMD-054	1	2	4/27/2011	054	TMD		X					X
TMD-SO-054/2-3	TMD-054	2	3	4/27/2011	054	TMD		X					X
TMD-SO-054/9-10	TMD-054	9	10	4/27/2011	054	TMD		X					X
TMD-SO-055/2-3	TMD-055	2	3	4/28/2011	055	TMD		X					X
TMD-SO-055/5-6	TMD-055	5	6	4/28/2011	055	TMD		X					X
TMD-SO-055/7-8	TMD-055	7	8	4/28/2011	055	TMD		X					X
TMD-SO-055/9-10	TMD-055	9	10	4/28/2011	055	TMD		X					X
TMD-SO-056/1-2	TMD-056	1	2	4/28/2011	056	TMD		X					X
TMD-SO-056/2-3	TMD-056	2	3	4/28/2011	056	TMD		X					X
TMD-SO-056/6-7	TMD-056	6	7	4/28/2011	056	TMD		X					X
TMD-SO-057/2-3	TMD-057	2	3	4/28/2011	057	TMD		X					X
TMD-SO-057/4-4.8	TMD-057	4	4.8	4/28/2011	057	TMD		X					X
TMD-SO-057/6-7	TMD-057	6	7	4/28/2011	057	TMD		X					X
TMD-SO-057/7-7.8	TMD-057	7	7.8	4/28/2011	057	TMD		X					X
TMD-SO-059/1-2	TMD-059	1	2	4/29/2011	059	TMD		X					X
TMD-SO-059/2-3	TMD-059	2	3	4/29/2011	059	TMD		X					X
TMD-SO-059/6-7	TMD-059	6	7	4/29/2011	059	TMD		X					X
TMD-SO-060/1-2	TMD-060	1	2	4/29/2011	060	TMD		X					X
TMD-SO-060/2-3	TMD-060	2	3	4/29/2011	060	TMD		X					X
TMD-SO-060/5-6	TMD-060	5	6	4/29/2011	060	TMD		X					X
TMD-SO-060/6-6.7	TMD-060	6	6.7	4/29/2011	060	TMD		X					X
TMD-SO-061/6-7	TMD-061	6	7	4/29/2011	061	TMD		X					X
TMD-SO-062/1-2	TMD-062	1	2	4/29/2011	062	TMD		X					X

TABLE 1

Soil Samples Used in the HHRA

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Sample ID	Station ID	Upper Depth (feet)	Lower Depth (feet)	Date Collected	Property Location ID	Yard/Parkway/ Utility Corridor	Surface Soil	Total Soil	Residential Yards	Residential Parkways	Commercial Yards	Commercial Parkways	Utility Corridors
TMD-SO-062/2-3	TMD-062	2	3	4/29/2011	062	TMD		X					X
TMD-SO-062/5-6	TMD-062	5	6	4/29/2011	062	TMD		X					X
TMD-SO-064/1-2	TMD-064	1	2	4/30/2011	064	TMD		X					X
TMD-SO-064/2-3	TMD-064	2	3	4/30/2011	064	TMD		X					X
TMD-SO-064/6-7	TMD-064	6	7	4/30/2011	064	TMD		X					X
TMD-SO-064/8-9	TMD-064	8	9	4/30/2011	064	TMD		X					X
TMD-SO-065/1.3-2	TMD-065	1.3	2	4/30/2011	065	TMD		X					X
TMD-SO-065/2-3	TMD-065	2	3	4/30/2011	065	TMD		X					X
TMD-SO-065/6-7	TMD-065	6	7	4/30/2011	065	TMD		X					X
TMD-SO-065/7-8	TMD-065	7	8	4/30/2011	065	TMD		X					X
TMD-SO-068/6-7	TMD-068	6	7	4/30/2011	068	TMD		X					X
TMD-SO-068/7-8	TMD-068	7	8	4/30/2011	068	TMD		X					X
TMD-SO-069/1-2	TMD-069	1	2	5/1/2011	069	TMD		X					X
TMD-SO-069/2-3	TMD-069	2	3	5/1/2011	069	TMD		X					X
TMD-SO-069/6-7	TMD-069	6	7	5/1/2011	069	TMD		X					X
TMD-SO-069/8-8.8	TMD-069	8	8.8	5/1/2011	069	TMD		X					X
TMD-SO-070/1-2	TMD-070	1	2	5/1/2011	070	TMD		X					X
TMD-SO-070/2-3	TMD-070	2	3	5/1/2011	070	TMD		X					X
TMD-SO-070/6-6.7	TMD-070	6	6.7	5/1/2011	070	TMD		X					X
TMD-SO-070/8-9	TMD-070	8	9	5/1/2011	070	TMD		X					X
TMD-SO-071/1-2	TMD-071	1	2	5/2/2011	071	TMD		X					X
TMD-SO-071/2-3	TMD-071	2	3	5/2/2011	071	TMD		X					X
TMD-SO-071/6-7	TMD-071	6	7	5/2/2011	071	TMD		X					X
TMD-SO-071/9-9.7	TMD-071	9	9.7	5/2/2011	071	TMD		X					X
TMD-SO-073/0-1	TMD-073	0	1	5/2/2011	073	TMD		X					X
TMD-SO-073/2-3	TMD-073	2	3	5/2/2011	073	TMD		X					X
TMD-SO-073/6-7	TMD-073	6	7	5/2/2011	073	TMD		X					X
TMD-SO-074/4-5	TMD-074	4	5	5/2/2011	074	TMD		X					X
TMD-SO-074/6-7	TMD-074	6	7	5/2/2011	074	TMD		X					X
TMD-SO-074/8-9	TMD-074	8	9	5/2/2011	074	TMD		X					X
TMD-SO-075/1-2	TMD-075	1	2	5/2/2011	075	TMD		X					X
TMD-SO-075/2-3	TMD-075	2	3	5/2/2011	075	TMD		X					X
TMD-SO-075/5.5-6.5	TMD-075	5.5	6.5	5/2/2011	075	TMD		X					X
TMD-SO-078/1-2	TMD-078	1	2	5/3/2011	078	TMD		X					X
TMD-SO-078/2-3	TMD-078	2	3	5/3/2011	078	TMD		X					X
TMD-SO-078/6-7	TMD-078	6	7	5/3/2011	078	TMD		X					X
TMD-SO-079/7-8	TMD-079	7	8	5/3/2011	079	TMD		X					X
TMD-SO-080/7.5-8.5	TMD-080	7.5	8.5	5/11/2011	080	TMD		X					X
TMD-SO-081/1-2	TMD-081	1	2	5/11/2011	081	TMD		X					X
TMD-SO-081/2-3	TMD-081	2	3	5/11/2011	081	TMD		X					X
TMD-SO-081/6-7	TMD-081	6	7	5/11/2011	081	TMD		X					X
TMD-SO-082/1-2	TMD-082	1	2	5/11/2011	082	TMD		X					X
TMD-SO-082/2-3	TMD-082	2	3	5/11/2011	082	TMD		X					X
TMD-SO-082/6-6.5	TMD-082	6	6.5	5/11/2011	082	TMD		X					X
TMD-SO-083/1-2	TMD-083	1	2	5/11/2011	083	TMD		X					X
TMD-SO-083/1-2DUP	TMD-083	1	2	5/11/2011	083	TMD		X					X
TMD-SO-083/2-3	TMD-083	2	3	5/11/2011	083	TMD		X					X

TABLE 1
Soil Samples Used in the HHRA
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Sample ID	Station ID	Upper Depth (feet)	Lower Depth (feet)	Date Collected	Property Location ID	Yard/Parkway/ Utility Corridor	Surface Soil	Total Soil	Residential Yards	Residential Parkways	Commercial Yards	Commercial Parkways	Utility Corridors
TMD-SO-083/5-6	TMD-083	5	6	5/11/2011	083	TMD		X					X
TMD-SO-084/1-2	TMD-084	1	2	5/11/2011	084	TMD		X					X
TMD-SO-084/2-3	TMD-084	2	3	5/11/2011	084	TMD		X					X
TMD-SO-084/2-3DUP	TMD-084	2	3	5/11/2011	084	TMD		X					X
TMD-SO-084/6-7	TMD-084	6	7	5/11/2011	084	TMD		X					X
TMD-SO-090/1-2	TMD-090	1	2	5/12/2011	090	TMD		X					X
TMD-SO-090/2-3	TMD-090	2	3	5/12/2011	090	TMD		X					X
TMD-SO-090/6-7	TMD-090	6	7	5/12/2011	090	TMD		X					X
TMD-SO-090/6-7DUP	TMD-090	6	7	5/12/2011	090	TMD		X					X
TMD-SO-092/4-5	TMD-092	4	5	5/13/2011	092	TMD		X					X
TMD-SO-092/5-6	TMD-092	5	6	5/13/2011	092	TMD		X					X
TMD-SO-093/1-2	TMD-093	1	2	5/13/2011	093	TMD		X					X
TMD-SO-093/2-3	TMD-093	2	3	5/13/2011	093	TMD		X					X
TMD-SO-093/6-7	TMD-093	6	7	5/13/2011	093	TMD		X					X
TMD-SO-094/1-2	TMD-094	1	2	5/13/2011	094	TMD		X					X
TMD-SO-094/2-3	TMD-094	2	3	5/13/2011	094	TMD		X					X
TMD-SO-094/5-6	TMD-094	5	6	5/13/2011	094	TMD		X					X
TMD-SO-002-27-1/2.5	TMD-002-27	1	2.5	5/7/2013	002	Utility Corridor		X					X
TMD-SO-002-27-1/2.5R	TMD-002-27	1	2.5	5/7/2013	002	Utility Corridor		X					X
TMD-SO-002-27-5/7	TMD-002-27	5	7	5/7/2013	002	Utility Corridor		X					X
TMD-SO-002-27-8/10	TMD-002-27	8	10	5/7/2013	002	Utility Corridor		X					X
TMD-SO-002-28-2/3.5	TMD-002-28	2	3.5	5/7/2013	002	Utility Corridor		X					X
TMD-SO-002-28-5/6	TMD-002-28	5	6	5/7/2013	002	Utility Corridor		X					X
TMD-SO-002-28-8/10	TMD-002-28	8	10	5/7/2013	002	Utility Corridor		X					X
TMD-SO-001/0-1	TMD-001	0	1	4/11/2011	001	Water/Sewer		X					X
TMD-SO-001/2-3	TMD-001	2	3	4/11/2011	001	Water/Sewer		X					X
TMD-SO-001/4-5	TMD-001	4	5	4/11/2011	001	Water/Sewer		X					X
TMD-SO-001/6-7	TMD-001	6	7	4/11/2011	001	Water/Sewer		X					X
TMD-SO-001/7-8	TMD-001	7	8	4/11/2011	001	Water/Sewer		X					X
TMD-SO-002/0-1	TMD-002	0	1	4/11/2011	002	Water/Sewer		X					X
TMD-SO-002/2-3	TMD-002	2	3	4/11/2011	002	Water/Sewer		X					X
TMD-SO-002/5-6	TMD-002	5	6	4/11/2011	002	Water/Sewer		X					X
TMD-SO-002/6-7	TMD-002	6	7	4/11/2011	002	Water/Sewer		X					X
TMD-SO-003/0-1	TMD-003	0	2	4/11/2011	003	Water/Sewer		X					X
TMD-SO-003/2-3	TMD-003	2	3	4/11/2011	003	Water/Sewer		X					X
TMD-SO-003/4-5	TMD-003	4	5	4/11/2011	003	Water/Sewer		X					X
TMD-SO-003/5-6	TMD-003	5	6	4/11/2011	003	Water/Sewer		X					X
TMD-SO-004/0-1	TMD-004	0	1	4/11/2011	004	Water/Sewer		X					X
TMD-SO-004/2-3	TMD-004	2	3	4/11/2011	004	Water/Sewer		X					X
TMD-SO-004/4-5	TMD-004	4	5	4/11/2011	004	Water/Sewer		X					X
TMD-SO-004/6-7	TMD-004	6	7	4/11/2011	004	Water/Sewer		X					X
TMD-SO-004/7-8	TMD-004	7	8	4/11/2011	004	Water/Sewer		X					X
TMD-SO-005/0-1	TMD-005	0	1	4/11/2011	005	Water/Sewer		X					X
TMD-SO-005/2-3	TMD-005	2	3	4/11/2011	005	Water/Sewer		X					X
TMD-SO-005/4-5	TMD-005	4	5	4/11/2011	005	Water/Sewer		X					X
TMD-SO-005/7.5-8.5	TMD-005	7.5	8.5	4/11/2011	005	Water/Sewer		X					X
TMD-SO-005/8.5-9.5	TMD-005	8.5	9.5	4/11/2011	005	Water/Sewer		X					X

TABLE 1
Soil Samples Used in the HHRA
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Sample ID	Station ID	Upper Depth (feet)	Lower Depth (feet)	Date Collected	Property Location ID	Yard/Parkway/ Utility Corridor	Surface Soil	Total Soil	Residential Yards	Residential Parkways	Commercial Yards	Commercial Parkways	Utility Corridors
TMD-SO-005/9.5-10	TMD-005	9.5	10	4/11/2011	005	Water/Sewer		X					X
TMD-SO-006/1-2	TMD-006	1	2	4/12/2011	006	Water/Sewer		X					X
TMD-SO-006/2-3	TMD-006	2	3	4/12/2011	006	Water/Sewer		X					X
TMD-SO-006/5-6	TMD-006	5	6	4/12/2011	006	Water/Sewer		X					X
TMD-SO-006/6-7	TMD-006	6	7	4/12/2011	006	Water/Sewer		X					X
TMD-SO-007/0-1	TMD-007	0	1	4/12/2011	007	Water/Sewer		X					X
TMD-SO-007/2-3	TMD-007	2	3	4/12/2011	007	Water/Sewer		X					X
TMD-SO-007/4-5	TMD-007	4	5	4/12/2011	007	Water/Sewer		X					X
TMD-SO-007/6-7	TMD-007	6	7	4/12/2011	007	Water/Sewer		X					X
TMD-SO-007/7-8	TMD-007	7	8	4/12/2011	007	Water/Sewer		X					X
TMD-SO-007/9-10	TMD-007	9	10	4/12/2011	007	Water/Sewer		X					X
TMD-SO-008/0-1	TMD-008	0	1	4/12/2011	008	Water/Sewer		X					X
TMD-SO-008/6-7	TMD-008	6	7	4/12/2011	008	Water/Sewer		X					X
TMD-SO-008/7-8	TMD-008	7	8	4/12/2011	008	Water/Sewer		X					X
TMD-SO-009/1-2	TMD-009	1	2	4/13/2011	009	Water/Sewer		X					X
TMD-SO-009/2-3	TMD-009	2	3	4/13/2011	009	Water/Sewer		X					X
TMD-SO-009/4-5	TMD-009	4	5	4/13/2011	009	Water/Sewer		X					X
TMD-SO-009/5-6	TMD-009	5	6	4/13/2011	009	Water/Sewer		X					X
TMD-SO-009/6-7	TMD-009	6	7	4/13/2011	009	Water/Sewer		X					X
TMD-SO-009/7-8	TMD-009	7	8	4/13/2011	009	Water/Sewer		X					X
TMD-SO-010/0-1	TMD-010	0	1	4/13/2011	010	Water/Sewer		X					X
TMD-SO-010/2-2.5	TMD-010	2	2.5	4/13/2011	010	Water/Sewer		X					X
TMD-SO-010/6-7	TMD-010	6	7	4/13/2011	010	Water/Sewer		X					X
TMD-SO-010/7-8	TMD-010	7	8	4/13/2011	010	Water/Sewer		X					X
TMD-SO-011/0-1	TMD-011	0	1	4/13/2011	011	Water/Sewer		X					X
TMD-SO-011/1-2	TMD-011	1	2	4/13/2011	011	Water/Sewer		X					X
TMD-SO-011/5-6	TMD-011	5	6	4/13/2011	011	Water/Sewer		X					X
TMD-SO-011/6-7	TMD-011	6	7	4/13/2011	011	Water/Sewer		X					X
TMD-SO-012/0-1	TMD-012	0	1	4/13/2011	012	Water/Sewer		X					X
TMD-SO-012/2-3	TMD-012	2	3	4/13/2011	012	Water/Sewer		X					X
TMD-SO-012/5-6	TMD-012	5	6	4/13/2011	012	Water/Sewer		X					X
TMD-SO-012/6-7	TMD-012	6	7	4/13/2011	012	Water/Sewer		X					X
TMD-SO-013/0-1	TMD-013	0	1	4/13/2011	013	Water/Sewer		X					X
TMD-SO-013/2-3	TMD-013	2	3	4/13/2011	013	Water/Sewer		X					X
TMD-SO-013/5-6	TMD-013	5	6	4/13/2011	013	Water/Sewer		X					X
TMD-SO-013/6-7	TMD-013	6	7	4/13/2011	013	Water/Sewer		X					X
TMD-SO-014/0-1	TMD-014	0	1	4/13/2011	014	Water/Sewer		X					X
TMD-SO-014/2-3	TMD-014	2	3	4/13/2011	014	Water/Sewer		X					X
TMD-SO-014/4-5	TMD-014	4	5	4/13/2011	014	Water/Sewer		X					X
TMD-SO-014/6-7	TMD-014	6	7	4/13/2011	014	Water/Sewer		X					X
TMD-SO-014/8-9	TMD-014	8	9	4/13/2011	014	Water/Sewer		X					X
TMD-SO-019/5-6	TMD-019	5	6	4/15/2011	019	Water/Sewer		X					X
TMD-SO-021/0-1	TMD-021	0	1	4/15/2011	021	Water/Sewer		X					X
TMD-SO-021/2-3	TMD-021	2	3	4/15/2011	021	Water/Sewer		X					X
TMD-SO-021/4-5	TMD-021	4	5	4/15/2011	021	Water/Sewer		X					X
TMD-SO-021/6-7	TMD-021	6	7	4/15/2011	021	Water/Sewer		X					X
TMD-SO-021/7-8	TMD-021	7	8	4/15/2011	021	Water/Sewer		X					X

TABLE 1
Soil Samples Used in the HHRA
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Sample ID	Station ID	Upper Depth (feet)	Lower Depth (feet)	Date Collected	Property Location ID	Yard/Parkway/ Utility Corridor	Surface Soil	Total Soil	Residential Yards	Residential Parkways	Commercial Yards	Commercial Parkways	Utility Corridors
TMD-SO-022/0-1	TMD-022	0	1	4/15/2011	022	Water/Sewer		X					X
TMD-SO-022/2-3	TMD-022	2	3	4/15/2011	022	Water/Sewer		X					X
TMD-SO-022/5-6	TMD-022	5	6	4/15/2011	022	Water/Sewer		X					X
TMD-SO-022/6-7	TMD-022	6	7	4/15/2011	022	Water/Sewer		X					X
TMD-SO-025/1-2	TMD-025	1	2	4/16/2011	025	Water/Sewer		X					X
TMD-SO-025/2-3	TMD-025	2	3	4/16/2011	025	Water/Sewer		X					X
TMD-SO-025/6.3-7.3	TMD-025	6.3	7.3	4/16/2011	025	Water/Sewer		X					X
TMD-SO-025/7.3-8.3	TMD-025	7.3	8.3	4/16/2011	025	Water/Sewer		X					X
TMD-SO-028/1-2	TMD-028	1	2	4/16/2011	028	Water/Sewer		X					X
TMD-SO-028/2-3	TMD-028	2	3	4/16/2011	028	Water/Sewer		X					X
TMD-SO-028/6-7	TMD-028	6	7	4/16/2011	028	Water/Sewer		X					X
TMD-SO-031/1-2	TMD-031	1	2	4/17/2011	031	Water/Sewer		X					X
TMD-SO-031/2-3	TMD-031	2	3	4/17/2011	031	Water/Sewer		X					X
TMD-SO-031/4-5	TMD-031	4	5	4/17/2011	031	Water/Sewer		X					X
TMD-SO-031/5-6	TMD-031	5	6	4/17/2011	031	Water/Sewer		X					X
TMD-SO-041/1-2	TMD-041	1	2	4/19/2011	041	Water/Sewer		X					X
TMD-SO-041/2-3	TMD-041	2	3	4/19/2011	041	Water/Sewer		X					X
TMD-SO-041/4-5	TMD-041	4	5	4/19/2011	041	Water/Sewer		X					X
TMD-SO-041/6-7	TMD-041	6	7	4/19/2011	041	Water/Sewer		X					X
TMD-SO-041/7-8	TMD-041	7	8	4/19/2011	041	Water/Sewer		X					X
TMD-SO-041/8-9	TMD-041	8	9	4/19/2011	041	Water/Sewer		X					X
TMD-SO-041/9-10	TMD-041	9	10	4/19/2011	041	Water/Sewer		X					X
TMD-SO-046/1-2	TMD-046	1	2	4/20/2011	046	Water/Sewer		X					X
TMD-SO-046/2-3	TMD-046	2	3	4/20/2011	046	Water/Sewer		X					X
TMD-SO-046/4-4.8	TMD-046	4	4.8	4/20/2011	046	Water/Sewer		X					X
TMD-SO-046/6-7	TMD-046	6	7	4/20/2011	046	Water/Sewer		X					X
TMD-SO-046/8-9	TMD-046	8	9	4/20/2011	046	Water/Sewer		X					X
TMD-SO-046/10-11	TMD-046	10	11	4/20/2011	046	Water/Sewer		X					X
TMD-SO-047/1-2	TMD-047	1	2	4/20/2011	047	Water/Sewer		X					X
TMD-SO-047/2-3	TMD-047	2	3	4/20/2011	047	Water/Sewer		X					X
TMD-SO-047/4-5	TMD-047	4	5	4/20/2011	047	Water/Sewer		X					X
TMD-SO-047/6-7	TMD-047	6	7	4/20/2011	047	Water/Sewer		X					X
TMD-SO-049/1-2	TMD-049	1	2	4/26/2011	049	Water/Sewer		X					X
TMD-SO-049/2-3	TMD-049	2	3	4/26/2011	049	Water/Sewer		X					X
TMD-SO-049/5-6	TMD-049	5	6	4/26/2011	049	Water/Sewer		X					X
TMD-SO-049/10-11	TMD-049	10	11	4/26/2011	049	Water/Sewer		X					X
TMD-SO-049/11.5-12.5	TMD-049	11.5	12.5	4/26/2011	049	Water/Sewer		X					X
TMD-SO-050/0-1	TMD-050	0	1	4/26/2011	050	Water/Sewer		X					X
TMD-SO-050/2-2.4	TMD-050	2	2.4	4/26/2011	050	Water/Sewer		X					X
TMD-SO-050/6-7	TMD-050	6	7	4/26/2011	050	Water/Sewer		X					X
TMD-SO-050/7.5-8.5	TMD-050	7.5	8.5	4/26/2011	050	Water/Sewer		X					X
TMD-SO-051/1-2	TMD-051	1	2	4/26/2011	051	Water/Sewer		X					X
TMD-SO-051/2-3	TMD-051	2	3	4/26/2011	051	Water/Sewer		X					X
TMD-SO-051/5-6	TMD-051	5	6	4/26/2011	051	Water/Sewer		X					X
TMD-SO-051/7-8	TMD-051	7	8	4/26/2011	051	Water/Sewer		X					X
TMD-SO-051/8.5-9.5	TMD-051	8.5	9.5	4/26/2011	051	Water/Sewer		X					X
TMD-SO-052/1-2	TMD-052	1	2	4/26/2011	052	Water/Sewer		X					X

TABLE 1
Soil Samples Used in the HHRA
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

Sample ID	Station ID	Upper Depth (feet)	Lower Depth (feet)	Date Collected	Property Location ID	Yard/Parkway/ Utility Corridor	Surface Soil	Total Soil	Residential Yards	Residential Parkways	Commercial Yards	Commercial Parkways	Utility Corridors
TMD-SO-052/2-3	TMD-052	2	3	4/26/2011	052	Water/Sewer		X					X
TMD-SO-052/4-5	TMD-052	4	5	4/26/2011	052	Water/Sewer		X					X
TMD-SO-077/2-2.5	TMD-077	2	2.5	5/3/2011	077	Water/Sewer		X					X
TMD-SO-077/3-4	TMD-077	3	4	5/3/2011	077	Water/Sewer		X					X
TMD-SO-077/6-7	TMD-077	6	7	5/3/2011	077	Water/Sewer		X					X
TMD-SO-077/7-8	TMD-077	7	8	5/3/2011	077	Water/Sewer		X					X
TMD-SO-077/8-9	TMD-077	8	9	5/3/2011	077	Water/Sewer		X					X
TMD-SO-086/1-2	TMD-086	1	2	5/12/2011	086	Water/Sewer		X					X
TMD-SO-086/2-2.5	TMD-086	2	2.5	5/12/2011	086	Water/Sewer		X					X
TMD-SO-086/6-7	TMD-086	6	7	5/12/2011	086	Water/Sewer		X					X
TMD-SO-088/5.5-6	TMD-088	5.5	6	5/12/2011	088	Water/Sewer		X					X
TMD-SO-089/2-3	TMD-089	2	3	5/12/2011	089	Water/Sewer		X					X
TMD-SO-089/7-8	TMD-089	7	8	5/12/2011	089	Water/Sewer		X					X
TMD-SO-002-21-0.5/1	TMD-002-21	0.5	1	5/6/2013	002	Yard	X	X			X		
TMD-SO-002-21-5/7	TMD-002-21	5	7	5/6/2013	002	Yard		X			X		
TMD-SO-002-23-0.5/1	TMD-002-23	0.5	1	5/7/2013	002	Yard	X	X			X		
TMD-SO-002-23-1/1.5	TMD-002-23	1	1.5	5/7/2013	002	Yard	X	X			X		
TMD-SO-002-23-5/7	TMD-002-23	5	7	5/7/2013	002	Yard		X			X		
TMD-SO-002-23-5/7R	TMD-002-23	5	7	5/7/2013	002	Yard		X			X		
TMD-SO-002-24-0.5/1	TMD-002-24	0.5	1	5/7/2013	002	Yard	X	X			X		
TMD-SO-002-24-5/7	TMD-002-24	5	7	5/7/2013	002	Yard		X			X		
TMD-SO-002-25-0.5/1	TMD-002-25	0.5	1	5/7/2013	002	Yard	X	X			X		
TMD-SO-002-25-1.5/2	TMD-002-25	1.5	2	5/7/2013	002	Yard	X	X			X		
TMD-SO-002-25-2/3	TMD-002-25	2	3	5/7/2013	002	Yard		X			X		
TMD-SO-002-25-5/7	TMD-002-25	5	7	5/7/2013	002	Yard		X			X		
TMD-SO-002-29-0.5/1	TMD-002-29	0.5	1	5/7/2013	002	Yard	X	X			X		
TMD-SO-002-29-5/7	TMD-002-29	5	7	5/7/2013	002	Yard		X			X		
TMD-SO-002-30-0.5/1	TMD-002-30	0.5	1	5/7/2013	002	Yard	X	X			X		
TMD-SO-002-30-5/7	TMD-002-30	5	7	5/7/2013	002	Yard		X			X		
TMD-SO-002-31/1/2	TMD-002-31	1	2	5/8/2013	002	Yard	X	X			X		
TMD-SO-002-31-10/12	TMD-002-31	5	7	5/8/2013	002	Yard		X			X		
TMD-SO-002-32-1/2	TMD-002-32	1	2	5/8/2013	002	Yard	X	X			X		
TMD-SO-002-32-5/7	TMD-002-32	5	7	5/8/2013	002	Yard		X			X		
TMD-SO-002-33-0.5/1	TMD-002-33	0.5	1	5/8/2013	002	Yard	X	X			X		
TMD-SO-002-33-0.5/1R	TMD-002-33	0.5	1	5/8/2013	002	Yard	X	X			X		
TMD-SO-002-33-4/5	TMD-002-33	4	5	5/8/2013	002	Yard		X			X		
TMD-SO-002-34-4/5	TMD-002-34	4	5	5/8/2013	002	Yard		X			X		
TMD-SO-002-35-3.5/4.5	TMD-002-35	3.5	4.5	5/8/2013	002	Yard		X			X		
TMD-SO-043-0/0.5	TMD-043	0	0.5	6/4/2013	043	Yard	X	X	X				
TMD-SO-043-1/1.5	TMD-043	1	1.5	6/4/2013	043	Yard	X	X	X				
TMD-SO-043-1.5/2	TMD-043	1.5	2	6/5/2013	043	Yard	X	X	X				
TMD-SO-045-0/0.5	TMD-045	0	0.5	6/5/2013	045	Yard	X	X	X				
TMD-SO-045-1/1.5	TMD-045	1	1.5	6/5/2013	045	Yard	X	X	X				
TMD-SO-046-0/0.5	TMD-046	0	0.5	6/5/2013	046	Yard		X	X				
TMD-SO-046-1/1.5	TMD-046	1	1.5	6/5/2013	046	Yard		X	X				
TMD-SO-047-0/0.5	TMD-047	0	0.5	6/5/2013	047	Yard		X	X				
TMD-SO-047-1/1.5	TMD-047	1	1.5	6/5/2013	047	Yard		X	X				

TABLE 1

Soil Samples Used in the HHRA

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Sample ID	Station ID	Upper Depth (feet)	Lower Depth (feet)	Date Collected	Property Location ID	Yard/Parkway/ Utility Corridor	Surface Soil	Total Soil	Residential Yards	Residential Parkways	Commercial Yards	Commercial Parkways	Utility Corridors
TMD-SO-047-1.5/2	TMD-047	1.5	2	6/6/2013	047	Yard		X	X				
TMD-SO-049-0/0.5	TMD-049	0	0.5	6/6/2013	049	Yard	X	X	X				
TMD-SO-049-1/1.5	TMD-049	1	1.5	6/6/2013	049	Yard	X	X	X				
TMD-SO-049-1.5/2	TMD-049	1.5	2	6/7/2013	049	Yard	X	X	X				
TMD-SO-052-0/0.5	TMD-052	0	0.5	6/6/2013	052	Yard	X	X	X				
TMD-SO-052-1/1.5	TMD-052	1	1.5	6/6/2013	052	Yard	X	X	X				
TMD-SO-054-0/0.5	TMD-054	0	0.5	6/6/2013	054	Yard	X	X	X				
TMD-SO-054-1/1.5	TMD-054	1	1.5	6/6/2013	054	Yard	X	X	X				
TMD-SO-054-1.5/2	TMD-054	1.5	2	6/7/2013	054	Yard	X	X	X				
TMD-SO-056-0/0.5	TMD-056	0	0.5	6/6/2013	056	Yard	X	X	X				
TMD-SO-056-1/1.5	TMD-056	1	1.5	6/6/2013	056	Yard	X	X	X				

TMD = Ten-Mile Drain

TABLE 2

Surface Water Samples Used in the HHRA

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

SampleID	StationID	DateCollected	Street Canal	Revere Street Canal	Other Canals	Lake St. Clair
Outfall_022411	Outfall	2/24/2011	X			
Outfall_051910	Outfall	5/19/2010	X			
Outfall_062211	Outfall	6/22/2011	X			
Outfall_081811	Outfall	8/18/2011	X			
Outfall_111710	Outfall	11/17/2010	X			
SW2	SW2	7/28/2008	X			
SW3	SW3	7/28/2008		X		
SW4	SW4	7/28/2008			X	
SW5	SW5	7/28/2008			X	
SW1	SW1	7/28/2008				X
SW6	SW6	7/28/2008				X
SW7	SW7	7/28/2008				X

TABLE 3

Fish Tissue Samples Used in the HHRA

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

SampleID	StationID	Species	DateCollected
2010303-S01	10 Mile Canal	Pumpkinseed	4/28/2010
2010303-S02	10 Mile Canal	Pumpkinseed	4/28/2010
2010303-S03	10 Mile Canal	Pumpkinseed	4/28/2010
2010303-S04	10 Mile Canal	Pumpkinseed	4/28/2010
2010303-S05	10 Mile Canal	Pumpkinseed	4/28/2010
2010303-S06	10 Mile Canal	Black Crappie	4/28/2010
2010303-S07	10 Mile Canal	Black Crappie	4/28/2010
2010303-S08	10 Mile Canal	Black Crappie	4/28/2010
2010303-S09	10 Mile Canal	Black Crappie	4/28/2010
2010303-S10	10 Mile Canal	Black Crappie	4/28/2010
2010303-S11	10 Mile Canal	Black Crappie	4/28/2010
2010303-S12	10 Mile Canal	Black Crappie	4/28/2010
2010303-S13	10 Mile Canal	Black Crappie	4/28/2010
2010303-S14	10 Mile Canal	Largemouth Bass	4/28/2010
2010303-S15	10 Mile Canal	Largemouth Bass	4/28/2010
2010303-S16	10 Mile Canal	Largemouth Bass	4/28/2010
2010303-S17	10 Mile Canal	Largemouth Bass	4/28/2010
2010303-S18	10 Mile Canal	Largemouth Bass	4/28/2010
2010303-S19	10 Mile Canal	Largemouth Bass	4/28/2010
2010303-S20	10 Mile Canal	Largemouth Bass	4/28/2010
2010303-S21	10 Mile Canal	Largemouth Bass	4/28/2010
2010303-S22	10 Mile Canal	Largemouth Bass	4/28/2010
2010303-S23	10 Mile Canal	Largemouth Bass	4/28/2010
2010303-S24	10 Mile Canal	Largemouth Bass	4/28/2010
2010303-S25	10 Mile Canal	Largemouth Bass	4/28/2010
2010303-S26	10 Mile Canal	Largemouth Bass	4/28/2010
2010303-S27	10 Mile Canal	Carp	4/28/2010
2010303-S28	10 Mile Canal	Carp	4/28/2010
2010303-S29	10 Mile Canal	Carp	4/28/2010
2010303-S30	10 Mile Canal	Carp	4/28/2010
2010303-S31	10 Mile Canal	Carp	4/28/2010
2010303-S32	10 Mile Canal	Carp	4/28/2010
2010303-S33	10 Mile Canal	Carp	4/28/2010
2010303-S34	10 Mile Canal	Carp	4/28/2010
2010303-S35	10 Mile Canal	Carp	4/28/2010
2010303-S36	10 Mile Canal	Carp	4/28/2010
2010303-S37	10 Mile Canal	Carp	4/28/2010
2010303-S38	10 Mile Canal	Carp	4/28/2010

Note:

Fish were collected within the immediate vicinity of the Ten-Mile Drain canals (Lange and Revere Street Canals).

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Com_SS_Parkway	TMD-001-01	TMD-SO-001-01-0/1.0	0	1	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_SS_Parkway	TMD-001-01	TMD-SO-001-01-0/1.0	0	1	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_SS_Parkway	TMD-001-01	TMD-SO-001-01-0/1.0	0	1	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_SS_Parkway	TMD-001-01	TMD-SO-001-01-0/1.0	0	1	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_SS_Parkway	TMD-001-01	TMD-SO-001-01-0/1.0	0	1	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_SS_Parkway	TMD-001-01	TMD-SO-001-01-0/1.0	0	1	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_SS_Parkway	TMD-001-01	TMD-SO-001-01-0/1.0	0	1	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_Com_SS_Parkway	TMD-001-02	TMD-SO-001-02-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-02	TMD-SO-001-02-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-02	TMD-SO-001-02-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-02	TMD-SO-001-02-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-02	TMD-SO-001-02-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-02	TMD-SO-001-02-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-02	TMD-SO-001-02-0.5/1	0.5	1	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_Com_SS_Parkway	TMD-001-03	TMD-SO-001-03-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_SS_Parkway	TMD-001-03	TMD-SO-001-03-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_SS_Parkway	TMD-001-03	TMD-SO-001-03-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_SS_Parkway	TMD-001-03	TMD-SO-001-03-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_SS_Parkway	TMD-001-03	TMD-SO-001-03-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_SS_Parkway	TMD-001-03	TMD-SO-001-03-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_SS_Parkway	TMD-001-03	TMD-SO-001-03-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.41	U	mg/Kg			No
TMD_Com_SS_Parkway	TMD-001-04	TMD-SO-001-04-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-04	TMD-SO-001-04-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-04	TMD-SO-001-04-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-04	TMD-SO-001-04-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-04	TMD-SO-001-04-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-04	TMD-SO-001-04-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-04	TMD-SO-001-04-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_Com_SS_Parkway	TMD-001-05	TMD-SO-001-05-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-05	TMD-SO-001-05-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-05	TMD-SO-001-05-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-05	TMD-SO-001-05-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-05	TMD-SO-001-05-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-05	TMD-SO-001-05-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-05	TMD-SO-001-05-0.5/1	0.5	1	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Com_SS_Parkway	TMD-001-06	TMD-SO-001-06-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-06	TMD-SO-001-06-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-06	TMD-SO-001-06-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-06	TMD-SO-001-06-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-06	TMD-SO-001-06-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-06	TMD-SO-001-06-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-06	TMD-SO-001-06-0.5/1	0.5	1	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Com_SS_Parkway	TMD-001-07	TMD-SO-001-07-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_SS_Parkway	TMD-001-07	TMD-SO-001-07-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_SS_Parkway	TMD-001-07	TMD-SO-001-07-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_SS_Parkway	TMD-001-07	TMD-SO-001-07-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_SS_Parkway	TMD-001-07	TMD-SO-001-07-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_SS_Parkway	TMD-001-07	TMD-SO-001-07-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_SS_Parkway	TMD-001-07	TMD-SO-001-07-0.5/1	0.5	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_Com_SS_Parkway	TMD-001-08	TMD-SO-001-08-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-08	TMD-SO-001-08-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Com_SS_Parkway	TMD-001-08	TMD-SO-001-08-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-08	TMD-SO-001-08-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-08	TMD-SO-001-08-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-08	TMD-SO-001-08-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-08	TMD-SO-001-08-0.5/1	0.5	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_Com_SS_Parkway	TMD-001-09	TMD-SO-001-09-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-09	TMD-SO-001-09-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-09	TMD-SO-001-09-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-09	TMD-SO-001-09-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-09	TMD-SO-001-09-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-09	TMD-SO-001-09-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Parkway	TMD-001-09	TMD-SO-001-09-0.5/1	0.5	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_Com_SS_Parkway	TMD-001-09	TMD-SO-001-09-0.5/1R	0.5	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-09	TMD-SO-001-09-0.5/1R	0.5	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-09	TMD-SO-001-09-0.5/1R	0.5	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-09	TMD-SO-001-09-0.5/1R	0.5	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-09	TMD-SO-001-09-0.5/1R	0.5	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-09	TMD-SO-001-09-0.5/1R	0.5	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-09	TMD-SO-001-09-0.5/1R	0.5	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Com_SS_Parkway	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0225	U	mg/Kg	0.0225	0.132	No
TMD_Com_SS_Parkway	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0225	U	mg/Kg	0.0225	0.132	No
TMD_Com_SS_Parkway	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0225	U	mg/Kg	0.0225	0.132	No
TMD_Com_SS_Parkway	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0225	U	mg/Kg	0.0225	0.132	No
TMD_Com_SS_Parkway	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0225	U	mg/Kg	0.0225	0.132	No
TMD_Com_SS_Parkway	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0225	U	mg/Kg	0.0225	0.132	No
TMD_Com_SS_Parkway	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.907	=	mg/Kg	0.0225	0.132	Yes
TMD_Com_SS_Parkway	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.618	=	mg/Kg	0.0225	0.132	Yes
TMD_Com_SS_Parkway	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0225	U	mg/Kg	0.0225	0.132	No
TMD_Com_SS_Parkway	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0225	U	mg/Kg	0.0225	0.132	No
TMD_Com_SS_Parkway	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0225	U	mg/Kg	0.0225	0.132	No
TMD_Com_SS_Parkway	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	1.525	=	mg/Kg			Yes
TMD_Com_SS_Parkway	TMD-001-11	TMD-SO-001-11-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-11	TMD-SO-001-11-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-11	TMD-SO-001-11-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-11	TMD-SO-001-11-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	1.1	=	mg/Kg	0.38	0.38	Yes
TMD_Com_SS_Parkway	TMD-001-11	TMD-SO-001-11-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-11	TMD-SO-001-11-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Parkway	TMD-001-11	TMD-SO-001-11-0/1	0	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	1.29	=	mg/Kg			Yes
TMD_Com_SS_Parkway	TMD-001-12	TMD-SO-001-12-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_SS_Parkway	TMD-001-12	TMD-SO-001-12-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_SS_Parkway	TMD-001-12	TMD-SO-001-12-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_SS_Parkway	TMD-001-12	TMD-SO-001-12-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	2.8	=	mg/Kg	0.41	0.41	Yes
TMD_Com_SS_Parkway	TMD-001-12	TMD-SO-001-12-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_SS_Parkway	TMD-001-12	TMD-SO-001-12-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_SS_Parkway	TMD-001-12	TMD-SO-001-12-0/1	0	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	3.005	=	mg/Kg			Yes
TMD_Com_SS_Parkway	TMD-001-13	TMD-SO-001-13-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_SS_Parkway	TMD-001-13	TMD-SO-001-13-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_SS_Parkway	TMD-001-13	TMD-SO-001-13-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_SS_Parkway	TMD-001-13	TMD-SO-001-13-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	4.7	=	mg/Kg	0.41	0.41	Yes
TMD_Com_SS_Parkway	TMD-001-13	TMD-SO-001-13-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_SS_Parkway	TMD-001-13	TMD-SO-001-13-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_SS_Parkway	TMD-001-13	TMD-SO-001-13-0/1	0	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	4.905	=	mg/Kg			Yes
TMD_Com_SS_Parkway	TMD-001-13	TMD-SO-001-13-0/1R	0	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Com_SS_Parkway	TMD-001-13	TMD-SO-001-13-0/1R	0	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_SS_Parkway	TMD-001-13	TMD-SO-001-13-0/1R	0	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_SS_Parkway	TMD-001-13	TMD-SO-001-13-0/1R	0	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	8.2	=	mg/Kg	0.4	0.4	Yes
TMD_Com_SS_Parkway	TMD-001-13	TMD-SO-001-13-0/1R	0	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_SS_Parkway	TMD-001-13	TMD-SO-001-13-0/1R	0	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_SS_Parkway	TMD-001-13	TMD-SO-001-13-0/1R	0	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	8.4	=	mg/Kg			Yes
TMD_Com_SS_Yard	TMD-002-21	TMD-SO-002-21-0.5/1	0.5	1	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_SS_Yard	TMD-002-21	TMD-SO-002-21-0.5/1	0.5	1	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_SS_Yard	TMD-002-21	TMD-SO-002-21-0.5/1	0.5	1	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_SS_Yard	TMD-002-21	TMD-SO-002-21-0.5/1	0.5	1	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	99	J	mg/Kg	0.34	0.34	Yes
TMD_Com_SS_Yard	TMD-002-21	TMD-SO-002-21-0.5/1	0.5	1	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_SS_Yard	TMD-002-21	TMD-SO-002-21-0.5/1	0.5	1	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_SS_Yard	TMD-002-21	TMD-SO-002-21-0.5/1	0.5	1	5/6/2013	SO	PCB	Total PCBs	TOTPCB	99.17	=	mg/Kg			Yes
TMD_Com_SS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0186	U	mg/Kg	0.0186	0.109	No
TMD_Com_SS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0186	U	mg/Kg	0.0186	0.109	No
TMD_Com_SS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0186	U	mg/Kg	0.0186	0.109	No
TMD_Com_SS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0186	U	mg/Kg	0.0186	0.109	No
TMD_Com_SS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.75	=	mg/Kg	0.34	0.34	Yes
TMD_Com_SS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.208	=	mg/Kg	0.0186	0.109	Yes
TMD_Com_SS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0186	U	mg/Kg	0.0186	0.109	No
TMD_Com_SS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0186	U	mg/Kg	0.0186	0.109	No
TMD_Com_SS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0186	U	mg/Kg	0.0186	0.109	No
TMD_Com_SS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Total PCBs	TOTPCB	0.958	=	mg/Kg			Yes
TMD_Com_SS_Yard	TMD-002-23	TMD-SO-002-23-1/1.5	1	1.5	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_SS_Yard	TMD-002-23	TMD-SO-002-23-1/1.5	1	1.5	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_SS_Yard	TMD-002-23	TMD-SO-002-23-1/1.5	1	1.5	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_SS_Yard	TMD-002-23	TMD-SO-002-23-1/1.5	1	1.5	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	71	=	mg/Kg	0.34	0.34	Yes
TMD_Com_SS_Yard	TMD-002-23	TMD-SO-002-23-1/1.5	1	1.5	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_SS_Yard	TMD-002-23	TMD-SO-002-23-1/1.5	1	1.5	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_SS_Yard	TMD-002-23	TMD-SO-002-23-1/1.5	1	1.5	5/7/2013	SO	PCB	Total PCBs	TOTPCB	71.17	=	mg/Kg			Yes
TMD_Com_SS_Yard	TMD-002-24	TMD-SO-002-24-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Yard	TMD-002-24	TMD-SO-002-24-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Yard	TMD-002-24	TMD-SO-002-24-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Yard	TMD-002-24	TMD-SO-002-24-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	240	=	mg/Kg	0.39	0.39	Yes
TMD_Com_SS_Yard	TMD-002-24	TMD-SO-002-24-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Yard	TMD-002-24	TMD-SO-002-24-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Yard	TMD-002-24	TMD-SO-002-24-0.5/1	0.5	1	5/7/2013	SO	PCB	Total PCBs	TOTPCB	240.195	=	mg/Kg			Yes
TMD_Com_SS_Yard	TMD-002-25	TMD-SO-002-25-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Com_SS_Yard	TMD-002-25	TMD-SO-002-25-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Com_SS_Yard	TMD-002-25	TMD-SO-002-25-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Com_SS_Yard	TMD-002-25	TMD-SO-002-25-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	19	=	mg/Kg	0.33	0.33	Yes
TMD_Com_SS_Yard	TMD-002-25	TMD-SO-002-25-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Com_SS_Yard	TMD-002-25	TMD-SO-002-25-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Com_SS_Yard	TMD-002-25	TMD-SO-002-25-0.5/1	0.5	1	5/7/2013	SO	PCB	Total PCBs	TOTPCB	19.165	=	mg/Kg			Yes
TMD_Com_SS_Yard	TMD-002-25	TMD-SO-002-25-1.5/2	1.5	2	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Yard	TMD-002-25	TMD-SO-002-25-1.5/2	1.5	2	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Yard	TMD-002-25	TMD-SO-002-25-1.5/2	1.5	2	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Yard	TMD-002-25	TMD-SO-002-25-1.5/2	1.5	2	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	46	=	mg/Kg	0.38	0.38	Yes
TMD_Com_SS_Yard	TMD-002-25	TMD-SO-002-25-1.5/2	1.5	2	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Yard	TMD-002-25	TMD-SO-002-25-1.5/2	1.5	2	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Yard	TMD-002-25	TMD-SO-002-25-1.5/2	1.5	2	5/7/2013	SO	PCB	Total PCBs	TOTPCB	46.19	=	mg/Kg			Yes

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Com_SS_Yard	TMD-002-29	TMD-SO-002-29-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Com_SS_Yard	TMD-002-29	TMD-SO-002-29-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Com_SS_Yard	TMD-002-29	TMD-SO-002-29-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Com_SS_Yard	TMD-002-29	TMD-SO-002-29-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	7.3	=	mg/Kg	0.37	0.37	Yes
TMD_Com_SS_Yard	TMD-002-29	TMD-SO-002-29-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Com_SS_Yard	TMD-002-29	TMD-SO-002-29-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Com_SS_Yard	TMD-002-29	TMD-SO-002-29-0.5/1	0.5	1	5/7/2013	SO	PCB	Total PCBs	TOTPCB	7.485	=	mg/Kg			Yes
TMD_Com_SS_Yard	TMD-002-30	TMD-SO-002-30-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_SS_Yard	TMD-002-30	TMD-SO-002-30-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_SS_Yard	TMD-002-30	TMD-SO-002-30-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_SS_Yard	TMD-002-30	TMD-SO-002-30-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	530	=	mg/Kg	530	530	Yes
TMD_Com_SS_Yard	TMD-002-30	TMD-SO-002-30-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_SS_Yard	TMD-002-30	TMD-SO-002-30-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_SS_Yard	TMD-002-30	TMD-SO-002-30-0.5/1	0.5	1	5/7/2013	SO	PCB	Total PCBs	TOTPCB	530.18	=	mg/Kg			Yes
TMD_Com_SS_Yard	TMD-002-31	TMD-SO-002-31/1/2	1	2	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.42	U	mg/Kg	0.42	0.42	No
TMD_Com_SS_Yard	TMD-002-31	TMD-SO-002-31/1/2	1	2	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.42	U	mg/Kg	0.42	0.42	No
TMD_Com_SS_Yard	TMD-002-31	TMD-SO-002-31/1/2	1	2	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.42	U	mg/Kg	0.42	0.42	No
TMD_Com_SS_Yard	TMD-002-31	TMD-SO-002-31/1/2	1	2	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	60	=	mg/Kg	0.42	0.42	Yes
TMD_Com_SS_Yard	TMD-002-31	TMD-SO-002-31/1/2	1	2	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.42	U	mg/Kg	0.42	0.42	No
TMD_Com_SS_Yard	TMD-002-31	TMD-SO-002-31/1/2	1	2	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.42	U	mg/Kg	0.42	0.42	No
TMD_Com_SS_Yard	TMD-002-31	TMD-SO-002-31/1/2	1	2	5/8/2013	SO	PCB	Total PCBs	TOTPCB	60.21	=	mg/Kg			Yes
TMD_Com_SS_Yard	TMD-002-32	TMD-SO-002-32-1/2	1	2	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Yard	TMD-002-32	TMD-SO-002-32-1/2	1	2	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Yard	TMD-002-32	TMD-SO-002-32-1/2	1	2	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Yard	TMD-002-32	TMD-SO-002-32-1/2	1	2	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	0.61	=	mg/Kg	0.38	0.38	Yes
TMD_Com_SS_Yard	TMD-002-32	TMD-SO-002-32-1/2	1	2	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Yard	TMD-002-32	TMD-SO-002-32-1/2	1	2	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_SS_Yard	TMD-002-32	TMD-SO-002-32-1/2	1	2	5/8/2013	SO	PCB	Total PCBs	TOTPCB	0.8	=	mg/Kg			Yes
TMD_Com_SS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1	0.5	1	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_SS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1	0.5	1	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_SS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1	0.5	1	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_SS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1	0.5	1	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	140	=	mg/Kg	0.36	0.36	Yes
TMD_Com_SS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1	0.5	1	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_SS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1	0.5	1	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_SS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1	0.5	1	5/8/2013	SO	PCB	Total PCBs	TOTPCB	140.18	=	mg/Kg			Yes
TMD_Com_SS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1R	0.5	1	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1R	0.5	1	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1R	0.5	1	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1R	0.5	1	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	140	=	mg/Kg	0.39	0.39	Yes
TMD_Com_SS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1R	0.5	1	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1R	0.5	1	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_SS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1R	0.5	1	5/8/2013	SO	PCB	Total PCBs	TOTPCB	140.195	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-21	TMD-SO-002-21-0.5/1	0.5	1	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_TS_Yard	TMD-002-21	TMD-SO-002-21-0.5/1	0.5	1	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_TS_Yard	TMD-002-21	TMD-SO-002-21-0.5/1	0.5	1	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_TS_Yard	TMD-002-21	TMD-SO-002-21-0.5/1	0.5	1	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	99	J	mg/Kg	0.34	0.34	Yes
TMD_Com_TS_Yard	TMD-002-21	TMD-SO-002-21-0.5/1	0.5	1	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_TS_Yard	TMD-002-21	TMD-SO-002-21-0.5/1	0.5	1	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_TS_Yard	TMD-002-21	TMD-SO-002-21-0.5/1	0.5	1	5/6/2013	SO	PCB	Total PCBs	TOTPCB	99.17	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-21	TMD-SO-002-21-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Com_TS_Yard	TMD-002-21	TMD-SO-002-21-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Com_TS_Yard	TMD-002-21	TMD-SO-002-21-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Com_TS_Yard	TMD-002-21	TMD-SO-002-21-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_Com_TS_Yard	TMD-002-21	TMD-SO-002-21-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Com_TS_Yard	TMD-002-21	TMD-SO-002-21-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Com_TS_Yard	TMD-002-21	TMD-SO-002-21-5/7	5	7	5/6/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0186	U	mg/Kg	0.0186	0.109	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0186	U	mg/Kg	0.0186	0.109	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0186	U	mg/Kg	0.0186	0.109	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0186	U	mg/Kg	0.0186	0.109	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.75	=	mg/Kg	0.34	0.34	Yes
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.208	=	mg/Kg	0.0186	0.109	Yes
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0186	U	mg/Kg	0.0186	0.109	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0186	U	mg/Kg	0.0186	0.109	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0186	U	mg/Kg	0.0186	0.109	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-0.5/1	0.5	1	5/7/2013	SO	PCB	Total PCBs	TOTPCB	0.958	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-1/1.5	1	1.5	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-1/1.5	1	1.5	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-1/1.5	1	1.5	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-1/1.5	1	1.5	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	71	=	mg/Kg	0.34	0.34	Yes
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-1/1.5	1	1.5	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-1/1.5	1	1.5	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-1/1.5	1	1.5	5/7/2013	SO	PCB	Total PCBs	TOTPCB	71.17	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-5/7	5	7	5/7/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-5/7R	5	7	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-5/7R	5	7	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-5/7R	5	7	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-5/7R	5	7	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-5/7R	5	7	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-5/7R	5	7	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_Com_TS_Yard	TMD-002-23	TMD-SO-002-23-5/7R	5	7	5/7/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_Com_TS_Yard	TMD-002-24	TMD-SO-002-24-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-24	TMD-SO-002-24-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-24	TMD-SO-002-24-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-24	TMD-SO-002-24-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	240	=	mg/Kg	0.39	0.39	Yes
TMD_Com_TS_Yard	TMD-002-24	TMD-SO-002-24-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-24	TMD-SO-002-24-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-24	TMD-SO-002-24-0.5/1	0.5	1	5/7/2013	SO	PCB	Total PCBs	TOTPCB	240.195	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-24	TMD-SO-002-24-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_TS_Yard	TMD-002-24	TMD-SO-002-24-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_TS_Yard	TMD-002-24	TMD-SO-002-24-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_TS_Yard	TMD-002-24	TMD-SO-002-24-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_TS_Yard	TMD-002-24	TMD-SO-002-24-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_TS_Yard	TMD-002-24	TMD-SO-002-24-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Com_TS_Yard	TMD-002-24	TMD-SO-002-24-5/7	5	7	5/7/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	19	=	mg/Kg	0.33	0.33	Yes
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-0.5/1	0.5	1	5/7/2013	SO	PCB	Total PCBs	TOTPCB	19.165	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-1.5/2	1.5	2	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-1.5/2	1.5	2	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-1.5/2	1.5	2	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-1.5/2	1.5	2	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	46	=	mg/Kg	0.38	0.38	Yes
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-1.5/2	1.5	2	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-1.5/2	1.5	2	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-1.5/2	1.5	2	5/7/2013	SO	PCB	Total PCBs	TOTPCB	46.19	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-2/3	2	3	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-2/3	2	3	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-2/3	2	3	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-2/3	2	3	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	1.2	=	mg/Kg	0.41	0.41	Yes
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-2/3	2	3	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-2/3	2	3	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-2/3	2	3	5/7/2013	SO	PCB	Total PCBs	TOTPCB	1.405	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.17	J	mg/Kg	0.35	0.35	Yes
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Com_TS_Yard	TMD-002-25	TMD-SO-002-25-5/7	5	7	5/7/2013	SO	PCB	Total PCBs	TOTPCB	0.345	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-29	TMD-SO-002-29-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Com_TS_Yard	TMD-002-29	TMD-SO-002-29-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Com_TS_Yard	TMD-002-29	TMD-SO-002-29-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Com_TS_Yard	TMD-002-29	TMD-SO-002-29-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	7.3	=	mg/Kg	0.37	0.37	Yes
TMD_Com_TS_Yard	TMD-002-29	TMD-SO-002-29-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Com_TS_Yard	TMD-002-29	TMD-SO-002-29-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Com_TS_Yard	TMD-002-29	TMD-SO-002-29-0.5/1	0.5	1	5/7/2013	SO	PCB	Total PCBs	TOTPCB	7.485	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-29	TMD-SO-002-29-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.42	U	mg/Kg	0.42	0.42	No
TMD_Com_TS_Yard	TMD-002-29	TMD-SO-002-29-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.42	U	mg/Kg	0.42	0.42	No
TMD_Com_TS_Yard	TMD-002-29	TMD-SO-002-29-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.42	U	mg/Kg	0.42	0.42	No
TMD_Com_TS_Yard	TMD-002-29	TMD-SO-002-29-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.25	J	mg/Kg	0.42	0.42	Yes
TMD_Com_TS_Yard	TMD-002-29	TMD-SO-002-29-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.42	U	mg/Kg	0.42	0.42	No
TMD_Com_TS_Yard	TMD-002-29	TMD-SO-002-29-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.42	U	mg/Kg	0.42	0.42	No
TMD_Com_TS_Yard	TMD-002-29	TMD-SO-002-29-5/7	5	7	5/7/2013	SO	PCB	Total PCBs	TOTPCB	0.46	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-30	TMD-SO-002-30-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-30	TMD-SO-002-30-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-30	TMD-SO-002-30-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-30	TMD-SO-002-30-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	530	=	mg/Kg	530	530	Yes
TMD_Com_TS_Yard	TMD-002-30	TMD-SO-002-30-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-30	TMD-SO-002-30-0.5/1	0.5	1	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-30	TMD-SO-002-30-0.5/1	0.5	1	5/7/2013	SO	PCB	Total PCBs	TOTPCB	530.18	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-30	TMD-SO-002-30-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-30	TMD-SO-002-30-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-30	TMD-SO-002-30-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Com_TS_Yard	TMD-002-30	TMD-SO-002-30-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-30	TMD-SO-002-30-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-30	TMD-SO-002-30-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-30	TMD-SO-002-30-5/7	5	7	5/7/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Com_TS_Yard	TMD-002-31	TMD-SO-002-31/1/2	1	2	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.42	U	mg/Kg	0.42	0.42	No
TMD_Com_TS_Yard	TMD-002-31	TMD-SO-002-31/1/2	1	2	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.42	U	mg/Kg	0.42	0.42	No
TMD_Com_TS_Yard	TMD-002-31	TMD-SO-002-31/1/2	1	2	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.42	U	mg/Kg	0.42	0.42	No
TMD_Com_TS_Yard	TMD-002-31	TMD-SO-002-31/1/2	1	2	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	60	=	mg/Kg	0.42	0.42	Yes
TMD_Com_TS_Yard	TMD-002-31	TMD-SO-002-31/1/2	1	2	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.42	U	mg/Kg	0.42	0.42	No
TMD_Com_TS_Yard	TMD-002-31	TMD-SO-002-31/1/2	1	2	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.42	U	mg/Kg	0.42	0.42	No
TMD_Com_TS_Yard	TMD-002-31	TMD-SO-002-31/1/2	1	2	5/8/2013	SO	PCB	Total PCBs	TOTPCB	60.21	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-31	TMD-SO-002-31-10/12	5	7	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-31	TMD-SO-002-31-10/12	5	7	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-31	TMD-SO-002-31-10/12	5	7	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-31	TMD-SO-002-31-10/12	5	7	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	0.42	=	mg/Kg	0.39	0.39	Yes
TMD_Com_TS_Yard	TMD-002-31	TMD-SO-002-31-10/12	5	7	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-31	TMD-SO-002-31-10/12	5	7	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-31	TMD-SO-002-31-10/12	5	7	5/8/2013	SO	PCB	Total PCBs	TOTPCB	0.615	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-32	TMD-SO-002-32-1/2	1	2	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_TS_Yard	TMD-002-32	TMD-SO-002-32-1/2	1	2	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_TS_Yard	TMD-002-32	TMD-SO-002-32-1/2	1	2	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_TS_Yard	TMD-002-32	TMD-SO-002-32-1/2	1	2	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	0.61	=	mg/Kg	0.38	0.38	Yes
TMD_Com_TS_Yard	TMD-002-32	TMD-SO-002-32-1/2	1	2	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_TS_Yard	TMD-002-32	TMD-SO-002-32-1/2	1	2	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Com_TS_Yard	TMD-002-32	TMD-SO-002-32-1/2	1	2	5/8/2013	SO	PCB	Total PCBs	TOTPCB	0.8	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-32	TMD-SO-002-32-5/7	5	7	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_TS_Yard	TMD-002-32	TMD-SO-002-32-5/7	5	7	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_TS_Yard	TMD-002-32	TMD-SO-002-32-5/7	5	7	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_TS_Yard	TMD-002-32	TMD-SO-002-32-5/7	5	7	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_TS_Yard	TMD-002-32	TMD-SO-002-32-5/7	5	7	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_TS_Yard	TMD-002-32	TMD-SO-002-32-5/7	5	7	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_Com_TS_Yard	TMD-002-32	TMD-SO-002-32-5/7	5	7	5/8/2013	SO	PCB	Total PCBs	TOTPCB	0.41	U	mg/Kg			No
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1	0.5	1	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1	0.5	1	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1	0.5	1	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1	0.5	1	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	140	=	mg/Kg	0.36	0.36	Yes
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1	0.5	1	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1	0.5	1	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1	0.5	1	5/8/2013	SO	PCB	Total PCBs	TOTPCB	140.18	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1R	0.5	1	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1R	0.5	1	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1R	0.5	1	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1R	0.5	1	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	140	=	mg/Kg	0.39	0.39	Yes
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1R	0.5	1	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1R	0.5	1	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-0.5/1R	0.5	1	5/8/2013	SO	PCB	Total PCBs	TOTPCB	140.195	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-4/5	4	5	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-4/5	4	5	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-4/5	4	5	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-4/5	4	5	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	0.46	=	mg/Kg	0.39	0.39	Yes
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-4/5	4	5	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-4/5	4	5	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-33	TMD-SO-002-33-4/5	4	5	5/8/2013	SO	PCB	Total PCBs	TOTPCB	0.655	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-34	TMD-SO-002-34-4/5	4	5	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-34	TMD-SO-002-34-4/5	4	5	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-34	TMD-SO-002-34-4/5	4	5	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-34	TMD-SO-002-34-4/5	4	5	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	0.26	J	mg/Kg	0.36	0.36	Yes
TMD_Com_TS_Yard	TMD-002-34	TMD-SO-002-34-4/5	4	5	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-34	TMD-SO-002-34-4/5	4	5	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Com_TS_Yard	TMD-002-34	TMD-SO-002-34-4/5	4	5	5/8/2013	SO	PCB	Total PCBs	TOTPCB	0.44	=	mg/Kg			Yes
TMD_Com_TS_Yard	TMD-002-35	TMD-SO-002-35-3.5/4.5	3.5	4.5	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-35	TMD-SO-002-35-3.5/4.5	3.5	4.5	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-35	TMD-SO-002-35-3.5/4.5	3.5	4.5	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-35	TMD-SO-002-35-3.5/4.5	3.5	4.5	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	1.1	=	mg/Kg	0.39	0.39	Yes
TMD_Com_TS_Yard	TMD-002-35	TMD-SO-002-35-3.5/4.5	3.5	4.5	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-35	TMD-SO-002-35-3.5/4.5	3.5	4.5	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Com_TS_Yard	TMD-002-35	TMD-SO-002-35-3.5/4.5	3.5	4.5	5/8/2013	SO	PCB	Total PCBs	TOTPCB	1.295	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-002-27	TMD-SO-002-27-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Parkway	TMD-002-27	TMD-SO-002-27-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Parkway	TMD-002-27	TMD-SO-002-27-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Parkway	TMD-002-27	TMD-SO-002-27-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	89	=	mg/Kg	0.39	0.39	Yes
TMD_RES_SS_Parkway	TMD-002-27	TMD-SO-002-27-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Parkway	TMD-002-27	TMD-SO-002-27-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Parkway	TMD-002-27	TMD-SO-002-27-0/1	0	1	5/7/2013	SO	PCB	Total PCBs	TOTPCB	89.195	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-002-28	TMD-SO-002-28-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Parkway	TMD-002-28	TMD-SO-002-28-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Parkway	TMD-002-28	TMD-SO-002-28-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Parkway	TMD-002-28	TMD-SO-002-28-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	38	=	mg/Kg	0.38	0.38	Yes
TMD_RES_SS_Parkway	TMD-002-28	TMD-SO-002-28-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Parkway	TMD-002-28	TMD-SO-002-28-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Parkway	TMD-002-28	TMD-SO-002-28-0/1	0	1	5/7/2013	SO	PCB	Total PCBs	TOTPCB	38.19	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1248	PCB-1248	14	=	mg/Kg	0.36	0.36	Yes
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-0/0.5	0	0.5	6/5/2013	SO	PCB	Total PCBs	TOTPCB	14.18	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	1.1	=	mg/Kg	0.33	0.33	Yes
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-1.5/2	1.5	2	6/6/2013	SO	PCB	Total PCBs	TOTPCB	1.265	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1248	PCB-1248	2.4	=	mg/Kg	0.36	0.36	Yes
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-044	TMD-SO-044-1/1.5	1	1.5	6/5/2013	SO	PCB	Total PCBs	TOTPCB	2.58	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1248	PCB-1248	3.3	=	mg/Kg	0.35	0.35	Yes
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-0/0.5	0	0.5	6/4/2013	SO	PCB	Total PCBs	TOTPCB	3.475	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1248	PCB-1248	0.84	=	mg/Kg	0.36	0.36	Yes
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-1.5/2	1.5	2	6/5/2013	SO	PCB	Total PCBs	TOTPCB	1.02	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1248	PCB-1248	3	=	mg/Kg	0.38	0.38	Yes
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Parkway	TMD-050	TMD-SO-050-1/1.5	1	1.5	6/4/2013	SO	PCB	Total PCBs	TOTPCB	3.19	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	8.7	=	mg/Kg	0.39	0.39	Yes
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-0/0.5	0	0.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	8.895	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.108	U	mg/Kg	0.108	0.633	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1221	PCB-1221	0.108	U	mg/Kg	0.108	0.633	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.108	U	mg/Kg	0.108	0.633	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.108	U	mg/Kg	0.108	0.633	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.108	U	mg/Kg	0.108	0.633	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.19	=	mg/Kg	0.108	0.633	Yes
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.108	U	mg/Kg	0.108	0.633	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1262	PCB-1262	0.108	U	mg/Kg	0.108	0.633	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1268	PCB-1268	0.108	U	mg/Kg	0.108	0.633	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Total PCBs	TOTPCB	0.244	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0949	U	mg/Kg	0.0949	0.34	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0949	U	mg/Kg	0.0949	0.558	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0949	U	mg/Kg	0.0949	0.34	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0949	U	mg/Kg	0.0949	0.34	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	2.07	=	mg/Kg	0.0949	0.558	Yes
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	1.9	J	mg/Kg	0.34	0.34	Yes
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0949	U	mg/Kg	0.0949	0.34	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0949	U	mg/Kg	0.0949	0.558	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0949	U	mg/Kg	0.0949	0.558	No
TMD_RES_SS_Parkway	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	3.97	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.101	U	mg/Kg	0.101	0.593	No
TMD_RES_SS_Parkway	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1221	PCB-1221	0.101	U	mg/Kg	0.101	0.593	No
TMD_RES_SS_Parkway	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.101	U	mg/Kg	0.101	0.593	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Parkway	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.101	U	mg/Kg	0.101	0.593	No
TMD_RES_SS_Parkway	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1248	PCB-1248	7.29	=	mg/Kg	0.101	0.593	Yes
TMD_RES_SS_Parkway	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1254	PCB-1254	4.6	=	mg/Kg	0.101	0.593	Yes
TMD_RES_SS_Parkway	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.101	U	mg/Kg	0.101	0.593	No
TMD_RES_SS_Parkway	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1262	PCB-1262	0.101	U	mg/Kg	0.101	0.593	No
TMD_RES_SS_Parkway	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1268	PCB-1268	0.101	U	mg/Kg	0.101	0.593	No
TMD_RES_SS_Parkway	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Total PCBs	TOTPCB	11.89	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-059	TMD-SO-059-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Parkway	TMD-059	TMD-SO-059-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Parkway	TMD-059	TMD-SO-059-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Parkway	TMD-059	TMD-SO-059-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.92	=	mg/Kg	0.37	0.37	Yes
TMD_RES_SS_Parkway	TMD-059	TMD-SO-059-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.78	=	mg/Kg	0.37	0.37	Yes
TMD_RES_SS_Parkway	TMD-059	TMD-SO-059-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Parkway	TMD-059	TMD-SO-059-0/0.5	0	0.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	1.7	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-059	TMD-SO-059-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-059	TMD-SO-059-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-059	TMD-SO-059-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-059	TMD-SO-059-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.28	J	mg/Kg	0.36	0.36	Yes
TMD_RES_SS_Parkway	TMD-059	TMD-SO-059-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-059	TMD-SO-059-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-059	TMD-SO-059-1/1.5	1	1.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.46	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-061	TMD-SO-061-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Parkway	TMD-061	TMD-SO-061-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Parkway	TMD-061	TMD-SO-061-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Parkway	TMD-061	TMD-SO-061-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	1.4	=	mg/Kg	0.34	0.34	Yes
TMD_RES_SS_Parkway	TMD-061	TMD-SO-061-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	1.3	=	mg/Kg	0.34	0.34	Yes
TMD_RES_SS_Parkway	TMD-061	TMD-SO-061-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Parkway	TMD-061	TMD-SO-061-0/0.5	0	0.5	9/11/2013	SO	PCB	Total PCBs	TOTPCB	2.7	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-061	TMD-SO-061-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Parkway	TMD-061	TMD-SO-061-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Parkway	TMD-061	TMD-SO-061-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Parkway	TMD-061	TMD-SO-061-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	0.29	J	mg/Kg	0.3	0.3	Yes
TMD_RES_SS_Parkway	TMD-061	TMD-SO-061-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	0.24	J	mg/Kg	0.3	0.3	Yes
TMD_RES_SS_Parkway	TMD-061	TMD-SO-061-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Parkway	TMD-061	TMD-SO-061-1/1.5	1	1.5	9/11/2013	SO	PCB	Total PCBs	TOTPCB	0.53	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-071	TMD-SO-071-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Parkway	TMD-071	TMD-SO-071-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Parkway	TMD-071	TMD-SO-071-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Parkway	TMD-071	TMD-SO-071-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	3	=	mg/Kg	0.31	0.31	Yes
TMD_RES_SS_Parkway	TMD-071	TMD-SO-071-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	2.6	=	mg/Kg	0.31	0.31	Yes
TMD_RES_SS_Parkway	TMD-071	TMD-SO-071-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Parkway	TMD-071	TMD-SO-071-0/0.5	0	0.5	9/13/2013	SO	PCB	Total PCBs	TOTPCB	5.6	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-071	TMD-SO-071-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Parkway	TMD-071	TMD-SO-071-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Parkway	TMD-071	TMD-SO-071-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Parkway	TMD-071	TMD-SO-071-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Parkway	TMD-071	TMD-SO-071-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Parkway	TMD-071	TMD-SO-071-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Parkway	TMD-071	TMD-SO-071-1/1.5	1	1.5	9/13/2013	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_RES_SS_Parkway	TMD-079	TMD-SO-079-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-079	TMD-SO-079-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Parkway	TMD-079	TMD-SO-079-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-079	TMD-SO-079-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-079	TMD-SO-079-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-079	TMD-SO-079-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Parkway	TMD-079	TMD-SO-079-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_RES_SS_Parkway	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_RES_SS_Parkway	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_RES_SS_Parkway	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_RES_SS_Parkway	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_RES_SS_Parkway	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_RES_SS_Parkway	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_RES_SS_Parkway	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_RES_SS_Parkway	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_RES_SS_Parkway	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_RES_SS_Parkway	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.0192	U	mg/Kg			No
TMD_RES_SS_Parkway	TMD-081	TMD-SO-081-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_SS_Parkway	TMD-081	TMD-SO-081-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_SS_Parkway	TMD-081	TMD-SO-081-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_SS_Parkway	TMD-081	TMD-SO-081-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.2	J	mg/Kg	0.26	0.26	Yes
TMD_RES_SS_Parkway	TMD-081	TMD-SO-081-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.27	J	mg/Kg	0.26	0.26	Yes
TMD_RES_SS_Parkway	TMD-081	TMD-SO-081-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_SS_Parkway	TMD-081	TMD-SO-081-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.47	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-081	TMD-SO-081-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Parkway	TMD-081	TMD-SO-081-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Parkway	TMD-081	TMD-SO-081-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Parkway	TMD-081	TMD-SO-081-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Parkway	TMD-081	TMD-SO-081-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Parkway	TMD-081	TMD-SO-081-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Parkway	TMD-081	TMD-SO-081-1/1.5	1	1.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_RES_SS_Parkway	TMD-083	TMD-SO-083-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Parkway	TMD-083	TMD-SO-083-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Parkway	TMD-083	TMD-SO-083-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Parkway	TMD-083	TMD-SO-083-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Parkway	TMD-083	TMD-SO-083-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Parkway	TMD-083	TMD-SO-083-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Parkway	TMD-083	TMD-SO-083-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_SS_Parkway	TMD-083	TMD-SO-083-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_SS_Parkway	TMD-083	TMD-SO-083-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_SS_Parkway	TMD-083	TMD-SO-083-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_SS_Parkway	TMD-083	TMD-SO-083-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_SS_Parkway	TMD-083	TMD-SO-083-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_SS_Parkway	TMD-083	TMD-SO-083-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_SS_Parkway	TMD-083	TMD-SO-083-1/1.5	1	1.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_RES_SS_Parkway	TMD-085	TMD-SO-085-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_SS_Parkway	TMD-085	TMD-SO-085-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_SS_Parkway	TMD-085	TMD-SO-085-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_SS_Parkway	TMD-085	TMD-SO-085-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	3.4	=	mg/Kg	0.28	0.28	Yes
TMD_RES_SS_Parkway	TMD-085	TMD-SO-085-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	2.2	=	mg/Kg	0.28	0.28	Yes
TMD_RES_SS_Parkway	TMD-085	TMD-SO-085-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_SS_Parkway	TMD-085	TMD-SO-085-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	5.6	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-086	TMD-SO-086-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Parkway	TMD-086	TMD-SO-086-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_RES_SS_Parkway	TMD-086	TMD-SO-086-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_RES_SS_Parkway	TMD-086	TMD-SO-086-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	1.5	=	mg/Kg	0.25	0.25	Yes
TMD_RES_SS_Parkway	TMD-086	TMD-SO-086-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_RES_SS_Parkway	TMD-086	TMD-SO-086-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_RES_SS_Parkway	TMD-086	TMD-SO-086-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	1.625	=	mg/Kg			Yes
TMD_RES_SS_Parkway	TMD-087	TMD-SO-087-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_SS_Parkway	TMD-087	TMD-SO-087-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_SS_Parkway	TMD-087	TMD-SO-087-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_SS_Parkway	TMD-087	TMD-SO-087-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.84	=	mg/Kg	0.26	0.26	Yes
TMD_RES_SS_Parkway	TMD-087	TMD-SO-087-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.75	=	mg/Kg	0.26	0.26	Yes
TMD_RES_SS_Parkway	TMD-087	TMD-SO-087-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_SS_Parkway	TMD-087	TMD-SO-087-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	1.59	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-003	TMD-SO-003-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-003	TMD-SO-003-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-003	TMD-SO-003-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-003	TMD-SO-003-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-003	TMD-SO-003-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-003	TMD-SO-003-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-003	TMD-SO-003-0/0.5	0	0.5	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.42	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-003	TMD-SO-003-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-003	TMD-SO-003-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-003	TMD-SO-003-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-003	TMD-SO-003-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-003	TMD-SO-003-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-003	TMD-SO-003-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-003	TMD-SO-003-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-003	TMD-SO-003-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-003	TMD-SO-003-1/1.5	1	1.5	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-004	TMD-SO-004-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-004	TMD-SO-004-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-004	TMD-SO-004-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-004	TMD-SO-004-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-004	TMD-SO-004-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-004	TMD-SO-004-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-004	TMD-SO-004-0/0.5	0	0.5	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-004	TMD-SO-004-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-004	TMD-SO-004-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-004	TMD-SO-004-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-004	TMD-SO-004-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-004	TMD-SO-004-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-004	TMD-SO-004-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-004	TMD-SO-004-1/1.5	1	1.5	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0208	U	mg/Kg	0.0208	0.123	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0208	U	mg/Kg	0.0208	0.123	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0208	U	mg/Kg	0.0208	0.123	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0208	U	mg/Kg	0.0208	0.123	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	0.65	=	mg/Kg	0.35	0.35	Yes
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0208	U	mg/Kg	0.0208	0.123	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0208	U	mg/Kg	0.0208	0.123	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0208	U	mg/Kg	0.0208	0.123	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0208	U	mg/Kg	0.0208	0.123	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Total PCBs	TOTPCB	0.6604	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	1.3	=	mg/Kg	0.38	0.38	Yes
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-0/0.5	0	0.5	4/30/2013	SO	PCB	Total PCBs	TOTPCB	1.49	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-005	TMD-SO-005-1/1.5	1	1.5	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_SS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_SS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_SS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_SS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_SS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_SS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_SS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_SS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_SS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.0209	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-006	TMD-SO-006-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-006	TMD-SO-006-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-006	TMD-SO-006-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-006	TMD-SO-006-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-006	TMD-SO-006-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-006	TMD-SO-006-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-006	TMD-SO-006-1/1.5	1	1.5	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-007	TMD-SO-007-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-007	TMD-SO-007-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-007	TMD-SO-007-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-007	TMD-SO-007-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-007	TMD-SO-007-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-007	TMD-SO-007-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-007	TMD-SO-007-0/0.5	0	0.5	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-007	TMD-SO-007-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-007	TMD-SO-007-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-007	TMD-SO-007-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-007	TMD-SO-007-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-007	TMD-SO-007-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-007	TMD-SO-007-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-007	TMD-SO-007-1/1.5	1	1.5	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-008	TMD-SO-008-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-008	TMD-SO-008-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-008	TMD-SO-008-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-008	TMD-SO-008-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-008	TMD-SO-008-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-008	TMD-SO-008-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-008	TMD-SO-008-0/0.5	0	0.5	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-008	TMD-SO-008-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-008	TMD-SO-008-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-008	TMD-SO-008-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-008	TMD-SO-008-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-008	TMD-SO-008-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-008	TMD-SO-008-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-008	TMD-SO-008-1/1.5	1	1.5	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-009	TMD-SO-009-0/0.5	0	0.5	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-009	TMD-SO-009-0/0.5	0	0.5	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-009	TMD-SO-009-0/0.5	0	0.5	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-009	TMD-SO-009-0/0.5	0	0.5	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	J	mg/Kg	0.42	0.42	Yes
TMD_RES_SS_Yard	TMD-009	TMD-SO-009-0/0.5	0	0.5	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-009	TMD-SO-009-0/0.5	0	0.5	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-009	TMD-SO-009-0/0.5	0	0.5	5/2/2013	SO	PCB	Total PCBs	TOTPCB	0.58	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_SS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_SS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_SS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_SS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_SS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_SS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_SS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_SS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_SS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Total PCBs	TOTPCB	0.0207	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R1	0	0.5	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R1	0	0.5	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R1	0	0.5	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R1	0	0.5	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	1.6	=	mg/Kg	0.4	0.4	Yes
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R1	0	0.5	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R1	0	0.5	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R1	0	0.5	5/2/2013	SO	PCB	Total PCBs	TOTPCB	1.8	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R2	0	0.5	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R2	0	0.5	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R2	0	0.5	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R2	0	0.5	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	1.2	=	mg/Kg	0.4	0.4	Yes
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R2	0	0.5	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R2	0	0.5	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R2	0	0.5	5/2/2013	SO	PCB	Total PCBs	TOTPCB	1.4	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R3	0	0.5	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R3	0	0.5	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R3	0	0.5	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R3	0	0.5	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	2.1	=	mg/Kg	0.41	0.41	Yes
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R3	0	0.5	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R3	0	0.5	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-0/0.5R3	0	0.5	5/2/2013	SO	PCB	Total PCBs	TOTPCB	2.305	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R1	1	1.5	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R1	1	1.5	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R1	1	1.5	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R1	1	1.5	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	0.31	J	mg/Kg	0.39	0.39	Yes
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R1	1	1.5	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R1	1	1.5	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R1	1	1.5	5/2/2013	SO	PCB	Total PCBs	TOTPCB	0.505	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R2	1	1.5	5/3/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R2	1	1.5	5/3/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R2	1	1.5	5/3/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R2	1	1.5	5/3/2013	SO	PCB	Aroclor-1248	PCB-1248	0.27	J	mg/Kg	0.39	0.39	Yes
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R2	1	1.5	5/3/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R2	1	1.5	5/3/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R2	1	1.5	5/3/2013	SO	PCB	Total PCBs	TOTPCB	0.465	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R3	1	1.5	5/3/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R3	1	1.5	5/3/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R3	1	1.5	5/3/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R3	1	1.5	5/3/2013	SO	PCB	Aroclor-1248	PCB-1248	0.27	J	mg/Kg	0.39	0.39	Yes
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R3	1	1.5	5/3/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R3	1	1.5	5/3/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-010	TMD-SO-010-1/1.5R3	1	1.5	5/3/2013	SO	PCB	Total PCBs	TOTPCB	0.465	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1	0.5	1	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1	0.5	1	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1	0.5	1	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1	0.5	1	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	1.7	=	mg/Kg	0.37	0.37	Yes
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1	0.5	1	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1	0.5	1	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1	0.5	1	5/15/2013	SO	PCB	Total PCBs	TOTPCB	1.885	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1R2	0.5	1	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1R2	0.5	1	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1R2	0.5	1	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1R2	0.5	1	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	1.7	=	mg/Kg	0.39	0.39	Yes
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1R2	0.5	1	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1R2	0.5	1	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1R2	0.5	1	5/15/2013	SO	PCB	Total PCBs	TOTPCB	1.895	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1R3	0.5	1	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1R3	0.5	1	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1R3	0.5	1	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1R3	0.5	1	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	1.6	=	mg/Kg	0.37	0.37	Yes
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1R3	0.5	1	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1R3	0.5	1	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0.5/1R3	0.5	1	5/15/2013	SO	PCB	Total PCBs	TOTPCB	1.785	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5/R3	0	0.5	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5/R3	0	0.5	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5/R3	0	0.5	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5/R3	0	0.5	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	2.9	=	mg/Kg	0.41	0.41	Yes
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5/R3	0	0.5	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5/R3	0	0.5	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5/R3	0	0.5	5/6/2013	SO	PCB	Total PCBs	TOTPCB	3.105	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5R1	0	0.5	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5R1	0	0.5	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5R1	0	0.5	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5R1	0	0.5	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	2.3	=	mg/Kg	0.4	0.4	Yes
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5R1	0	0.5	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5R1	0	0.5	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5R1	0	0.5	5/6/2013	SO	PCB	Total PCBs	TOTPCB	2.5	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5R2	0	0.5	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5R2	0	0.5	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5R2	0	0.5	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5R2	0	0.5	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	2.3	=	mg/Kg	0.38	0.38	Yes
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5R2	0	0.5	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5R2	0	0.5	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-0/0.5R2	0	0.5	5/6/2013	SO	PCB	Total PCBs	TOTPCB	2.49	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R1	1	1.5	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R1	1	1.5	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R1	1	1.5	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R1	1	1.5	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	=	mg/Kg	0.38	0.38	Yes
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R1	1	1.5	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R1	1	1.5	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R1	1	1.5	5/6/2013	SO	PCB	Total PCBs	TOTPCB	0.57	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R2	1	1.5	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R2	1	1.5	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R2	1	1.5	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R2	1	1.5	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.63	=	mg/Kg	0.36	0.36	Yes
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R2	1	1.5	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R2	1	1.5	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R2	1	1.5	5/6/2013	SO	PCB	Total PCBs	TOTPCB	0.81	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R3	1	1.5	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R3	1	1.5	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R3	1	1.5	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R3	1	1.5	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.96	=	mg/Kg	0.34	0.34	Yes
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R3	1	1.5	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R3	1	1.5	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-011	TMD-SO-011-1/1.5R3	1	1.5	5/6/2013	SO	PCB	Total PCBs	TOTPCB	1.13	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-012	TMD-SO-012-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-012	TMD-SO-012-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-012	TMD-SO-012-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-012	TMD-SO-012-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-012	TMD-SO-012-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-012	TMD-SO-012-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-012	TMD-SO-012-0/0.5	0	0.5	5/8/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-012	TMD-SO-012-1/1.5	1	1.5	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-012	TMD-SO-012-1/1.5	1	1.5	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-012	TMD-SO-012-1/1.5	1	1.5	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-012	TMD-SO-012-1/1.5	1	1.5	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-012	TMD-SO-012-1/1.5	1	1.5	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-012	TMD-SO-012-1/1.5	1	1.5	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-012	TMD-SO-012-1/1.5	1	1.5	5/8/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-013	TMD-SO-013-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-013	TMD-SO-013-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-013	TMD-SO-013-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-013	TMD-SO-013-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	0.64	=	mg/Kg	0.39	0.39	Yes
TMD_RES_SS_Yard	TMD-013	TMD-SO-013-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-013	TMD-SO-013-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-013	TMD-SO-013-0/0.5	0	0.5	5/8/2013	SO	PCB	Total PCBs	TOTPCB	0.835	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-013	TMD-SO-013-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-013	TMD-SO-013-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-013	TMD-SO-013-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-013	TMD-SO-013-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-013	TMD-SO-013-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-013	TMD-SO-013-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-013	TMD-SO-013-1/1.5	1	1.5	5/9/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-014	TMD-SO-014-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-014	TMD-SO-014-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-014	TMD-SO-014-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-014	TMD-SO-014-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-014	TMD-SO-014-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-014	TMD-SO-014-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-014	TMD-SO-014-0/0.5	0	0.5	5/9/2013	SO	PCB	Total PCBs	TOTPCB	0.42	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-014	TMD-SO-014-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-014	TMD-SO-014-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-014	TMD-SO-014-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-014	TMD-SO-014-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-014	TMD-SO-014-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-014	TMD-SO-014-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-014	TMD-SO-014-1/1.5	1	1.5	5/9/2013	SO	PCB	Total PCBs	TOTPCB	0.41	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0204	U	mg/Kg	0.0204	0.12	No
TMD_RES_SS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0204	U	mg/Kg	0.0204	0.12	No
TMD_RES_SS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0204	U	mg/Kg	0.0204	0.12	No
TMD_RES_SS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0204	U	mg/Kg	0.0204	0.12	No
TMD_RES_SS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	1.6	=	mg/Kg	0.35	0.35	Yes
TMD_RES_SS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0204	U	mg/Kg	0.0204	0.12	No
TMD_RES_SS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0204	U	mg/Kg	0.0204	0.12	No
TMD_RES_SS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0204	U	mg/Kg	0.0204	0.12	No
TMD_RES_SS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0204	U	mg/Kg	0.0204	0.12	No
TMD_RES_SS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Total PCBs	TOTPCB	1.6102	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-015	TMD-SO-015-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-015	TMD-SO-015-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-015	TMD-SO-015-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-015	TMD-SO-015-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-015	TMD-SO-015-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-015	TMD-SO-015-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-015	TMD-SO-015-1/1.5	1	1.5	5/9/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	0.24	J	mg/Kg	0.3	0.3	Yes
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-0/0.5	0	0.5	5/9/2013	SO	PCB	Total PCBs	TOTPCB	0.39	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-1.5/2	1.5	2	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-1.5/2	1.5	2	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-1.5/2	1.5	2	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-1.5/2	1.5	2	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-1.5/2	1.5	2	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-1.5/2	1.5	2	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-1.5/2	1.5	2	5/15/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	3.3	=	mg/Kg	0.34	0.34	Yes
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-016	TMD-SO-016-1/1.5	1	1.5	5/9/2013	SO	PCB	Total PCBs	TOTPCB	3.47	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-0/0.5	0	0.5	5/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-0/0.5	0	0.5	5/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-0/0.5	0	0.5	5/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-0/0.5	0	0.5	5/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-0/0.5	0	0.5	5/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-0/0.5	0	0.5	5/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-0/0.5	0	0.5	5/10/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-1/1.5	1	1.5	5/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-1/1.5	1	1.5	5/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-1/1.5	1	1.5	5/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-1/1.5	1	1.5	5/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-1/1.5	1	1.5	5/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-1/1.5	1	1.5	5/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-1/1.5	1	1.5	5/10/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-2.5/3	1	1.5	5/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-2.5/3	1	1.5	5/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-2.5/3	1	1.5	5/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-2.5/3	1	1.5	5/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-2.5/3	1	1.5	5/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-2.5/3	1	1.5	5/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_SS_Yard	TMD-017	TMD-SO-017-2.5/3	1	1.5	5/10/2013	SO	PCB	Total PCBs	TOTPCB	0.42	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_SS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_SS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_SS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_SS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_SS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_SS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_SS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_SS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_SS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	0.0198	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R1	0	0.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R1	0	0.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R1	0	0.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R1	0	0.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	1	=	mg/Kg	0.38	0.38	Yes
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R1	0	0.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R1	0	0.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R1	0	0.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	1.19	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R2	0	0.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R2	0	0.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R2	0	0.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R2	0	0.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	1.7	=	mg/Kg	0.36	0.36	Yes
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R2	0	0.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R2	0	0.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R2	0	0.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	1.88	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	1.4	=	mg/Kg	0.38	0.38	Yes
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	1.4098	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R1	1	1.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R1	1	1.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R1	1	1.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R1	1	1.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	J	mg/Kg	0.39	0.39	Yes
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R1	1	1.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R1	1	1.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R1	1	1.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	0.535	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R2	1	1.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R2	1	1.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R2	1	1.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R2	1	1.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	J	mg/Kg	0.38	0.38	Yes
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R2	1	1.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R2	1	1.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R2	1	1.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	0.56	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R3	1	1.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R3	1	1.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R3	1	1.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R3	1	1.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.62	=	mg/Kg	0.38	0.38	Yes
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R3	1	1.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R3	1	1.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-019	TMD-SO-019-1/1.5R3	1	1.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	0.81	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-020	TMD-SO-020-0/0.5	0	0.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-020	TMD-SO-020-0/0.5	0	0.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-020	TMD-SO-020-0/0.5	0	0.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-020	TMD-SO-020-0/0.5	0	0.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.18	J	mg/Kg	0.36	0.36	Yes
TMD_RES_SS_Yard	TMD-020	TMD-SO-020-0/0.5	0	0.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-020	TMD-SO-020-0/0.5	0	0.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-020	TMD-SO-020-0/0.5	0	0.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	0.36	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-020	TMD-SO-020-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-020	TMD-SO-020-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-020	TMD-SO-020-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-020	TMD-SO-020-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.5	=	mg/Kg	0.36	0.36	Yes
TMD_RES_SS_Yard	TMD-020	TMD-SO-020-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-020	TMD-SO-020-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-020	TMD-SO-020-1/1.5	1	1.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	0.68	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-021	TMD-SO-021-0/0.5	0	0.5	5/14/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-021	TMD-SO-021-0/0.5	0	0.5	5/14/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-021	TMD-SO-021-0/0.5	0	0.5	5/14/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-021	TMD-SO-021-0/0.5	0	0.5	5/14/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-021	TMD-SO-021-0/0.5	0	0.5	5/14/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-021	TMD-SO-021-0/0.5	0	0.5	5/14/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-021	TMD-SO-021-0/0.5	0	0.5	5/14/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Total PCBs	TOTPCB	0.0202	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-022	TMD-SO-022-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-022	TMD-SO-022-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-022	TMD-SO-022-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-022	TMD-SO-022-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-022	TMD-SO-022-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-022	TMD-SO-022-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-022	TMD-SO-022-0/0.5	0	0.5	5/15/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-022	TMD-SO-022-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-022	TMD-SO-022-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-022	TMD-SO-022-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-022	TMD-SO-022-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	1.2	=	mg/Kg	0.36	0.36	Yes
TMD_RES_SS_Yard	TMD-022	TMD-SO-022-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-022	TMD-SO-022-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-022	TMD-SO-022-1/1.5	1	1.5	5/15/2013	SO	PCB	Total PCBs	TOTPCB	1.38	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-023	TMD-SO-023-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-023	TMD-SO-023-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-023	TMD-SO-023-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-023	TMD-SO-023-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	0.29	J	mg/Kg	0.39	0.39	Yes
TMD_RES_SS_Yard	TMD-023	TMD-SO-023-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-023	TMD-SO-023-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-023	TMD-SO-023-0/0.5	0	0.5	5/15/2013	SO	PCB	Total PCBs	TOTPCB	0.485	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0197	U	mg/Kg	0.0197	0.116	No
TMD_RES_SS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0197	U	mg/Kg	0.0197	0.116	No
TMD_RES_SS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0197	U	mg/Kg	0.0197	0.116	No
TMD_RES_SS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0197	U	mg/Kg	0.0197	0.116	No
TMD_RES_SS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	0.116	=	mg/Kg	0.0197	0.116	Yes
TMD_RES_SS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0197	U	mg/Kg	0.0197	0.116	No
TMD_RES_SS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0197	U	mg/Kg	0.0197	0.116	No
TMD_RES_SS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0197	U	mg/Kg	0.0197	0.116	No
TMD_RES_SS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0197	U	mg/Kg	0.0197	0.116	No
TMD_RES_SS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Total PCBs	TOTPCB	0.12585	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-024	TMD-SO-024-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-024	TMD-SO-024-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-024	TMD-SO-024-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-024	TMD-SO-024-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.82	=	mg/Kg	0.33	0.33	Yes
TMD_RES_SS_Yard	TMD-024	TMD-SO-024-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-024	TMD-SO-024-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-024	TMD-SO-024-0/0.5	0	0.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.985	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-024	TMD-SO-024-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-024	TMD-SO-024-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-024	TMD-SO-024-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-024	TMD-SO-024-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.44	=	mg/Kg	0.37	0.37	Yes
TMD_RES_SS_Yard	TMD-024	TMD-SO-024-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-024	TMD-SO-024-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-024	TMD-SO-024-1/1.5	1	1.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.625	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-025	TMD-SO-025-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-025	TMD-SO-025-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-025	TMD-SO-025-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-025	TMD-SO-025-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	1.7	=	mg/Kg	0.38	0.38	Yes
TMD_RES_SS_Yard	TMD-025	TMD-SO-025-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-025	TMD-SO-025-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-025	TMD-SO-025-0/0.5	0	0.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	1.89	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-025	TMD-SO-025-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-025	TMD-SO-025-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-025	TMD-SO-025-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-025	TMD-SO-025-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	J	mg/Kg	0.37	0.37	Yes
TMD_RES_SS_Yard	TMD-025	TMD-SO-025-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-025	TMD-SO-025-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-025	TMD-SO-025-1/1.5	1	1.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.535	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-026	TMD-SO-026-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.43	U	mg/Kg	0.43	0.43	No
TMD_RES_SS_Yard	TMD-026	TMD-SO-026-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.43	U	mg/Kg	0.43	0.43	No
TMD_RES_SS_Yard	TMD-026	TMD-SO-026-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.43	U	mg/Kg	0.43	0.43	No
TMD_RES_SS_Yard	TMD-026	TMD-SO-026-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	1.6	=	mg/Kg	0.43	0.43	Yes
TMD_RES_SS_Yard	TMD-026	TMD-SO-026-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.43	U	mg/Kg	0.43	0.43	No
TMD_RES_SS_Yard	TMD-026	TMD-SO-026-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.43	U	mg/Kg	0.43	0.43	No
TMD_RES_SS_Yard	TMD-026	TMD-SO-026-0/0.5	0	0.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	1.815	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_SS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_SS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_SS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_SS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.49	=	mg/Kg	0.38	0.38	Yes
TMD_RES_SS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_SS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_SS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_SS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_SS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.50045	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-027	TMD-SO-027-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-027	TMD-SO-027-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-027	TMD-SO-027-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-027	TMD-SO-027-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.44	=	mg/Kg	0.38	0.38	Yes
TMD_RES_SS_Yard	TMD-027	TMD-SO-027-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-027	TMD-SO-027-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-027	TMD-SO-027-0/0.5	0	0.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.63	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-027	TMD-SO-027-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-027	TMD-SO-027-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-027	TMD-SO-027-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-027	TMD-SO-027-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.57	=	mg/Kg	0.36	0.36	Yes
TMD_RES_SS_Yard	TMD-027	TMD-SO-027-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-027	TMD-SO-027-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-027	TMD-SO-027-1/1.5	1	1.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.75	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R1	0	0.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R1	0	0.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R1	0	0.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R1	0	0.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R1	0	0.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R1	0	0.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R1	0	0.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R2	0	0.5	5/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R2	0	0.5	5/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R2	0	0.5	5/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R2	0	0.5	5/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R2	0	0.5	5/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R2	0	0.5	5/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R2	0	0.5	5/17/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R3	0	0.5	5/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R3	0	0.5	5/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R3	0	0.5	5/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R3	0	0.5	5/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R3	0	0.5	5/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R3	0	0.5	5/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-0/0.5R3	0	0.5	5/17/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R1	1	1.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R1	1	1.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R1	1	1.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R1	1	1.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R1	1	1.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R1	1	1.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R1	1	1.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Total PCBs	TOTPCB	0.0199	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R3	1	1.5	5/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R3	1	1.5	5/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R3	1	1.5	5/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R3	1	1.5	5/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R3	1	1.5	5/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R3	1	1.5	5/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-028	TMD-SO-028-1/1.5R3	1	1.5	5/17/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-029	TMD-SO-029-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-029	TMD-SO-029-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-029	TMD-SO-029-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-029	TMD-SO-029-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	1.7	=	mg/Kg	0.33	0.33	Yes
TMD_RES_SS_Yard	TMD-029	TMD-SO-029-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-029	TMD-SO-029-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-029	TMD-SO-029-0/0.5	0	0.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	1.865	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-029	TMD-SO-029-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-029	TMD-SO-029-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-029	TMD-SO-029-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-029	TMD-SO-029-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.9	=	mg/Kg	0.9	0.9	Yes
TMD_RES_SS_Yard	TMD-029	TMD-SO-029-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-029	TMD-SO-029-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-029	TMD-SO-029-1/1.5	1	1.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	1.08	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_SS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Total PCBs	TOTPCB	0.0199	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-030	TMD-SO-030-1/1.5	1	1.5	5/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-030	TMD-SO-030-1/1.5	1	1.5	5/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-030	TMD-SO-030-1/1.5	1	1.5	5/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-030	TMD-SO-030-1/1.5	1	1.5	5/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-030	TMD-SO-030-1/1.5	1	1.5	5/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-030	TMD-SO-030-1/1.5	1	1.5	5/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-030	TMD-SO-030-1/1.5	1	1.5	5/17/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-031	TMD-SO-031-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-031	TMD-SO-031-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-031	TMD-SO-031-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-031	TMD-SO-031-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	0.23	J	mg/Kg	0.3	0.3	Yes
TMD_RES_SS_Yard	TMD-031	TMD-SO-031-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-031	TMD-SO-031-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-031	TMD-SO-031-1/1.5	1	1.5	5/20/2013	SO	PCB	Total PCBs	TOTPCB	0.38	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-032	TMD-SO-032-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-032	TMD-SO-032-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-032	TMD-SO-032-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-032	TMD-SO-032-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	1.2	=	mg/Kg	0.33	0.33	Yes
TMD_RES_SS_Yard	TMD-032	TMD-SO-032-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-032	TMD-SO-032-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-032	TMD-SO-032-0/0.5	0	0.5	5/20/2013	SO	PCB	Total PCBs	TOTPCB	1.365	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-032	TMD-SO-032-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-032	TMD-SO-032-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-032	TMD-SO-032-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-032	TMD-SO-032-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-032	TMD-SO-032-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-032	TMD-SO-032-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-032	TMD-SO-032-1/1.5	1	1.5	5/20/2013	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-0.5/1	0.5	1	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-0.5/1	0.5	1	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-0.5/1	0.5	1	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-0.5/1	0.5	1	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-0.5/1	0.5	1	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-0.5/1	0.5	1	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-0.5/1	0.5	1	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0212	U	mg/Kg	0.0212	0.125	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0212	U	mg/Kg	0.0212	0.125	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0212	U	mg/Kg	0.0212	0.125	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0212	U	mg/Kg	0.0212	0.125	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	2.9	=	mg/Kg	0.38	0.38	Yes
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0212	U	mg/Kg	0.0212	0.125	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0212	U	mg/Kg	0.0212	0.125	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0212	U	mg/Kg	0.0212	0.125	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0212	U	mg/Kg	0.0212	0.125	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Total PCBs	TOTPCB	2.9106	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	0.53	=	mg/Kg	0.3	0.3	Yes
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-033	TMD-SO-033-1/1.5	1	1.5	5/20/2013	SO	PCB	Total PCBs	TOTPCB	0.68	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-034	TMD-SO-034-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-034	TMD-SO-034-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-034	TMD-SO-034-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-034	TMD-SO-034-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	0.2	J	mg/Kg	0.3	0.3	Yes
TMD_RES_SS_Yard	TMD-034	TMD-SO-034-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-034	TMD-SO-034-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-034	TMD-SO-034-0/0.5	0	0.5	5/20/2013	SO	PCB	Total PCBs	TOTPCB	0.35	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-034	TMD-SO-034-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-034	TMD-SO-034-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-034	TMD-SO-034-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-034	TMD-SO-034-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-034	TMD-SO-034-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-034	TMD-SO-034-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-034	TMD-SO-034-1/1.5	1	1.5	5/20/2013	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-035	TMD-SO-035-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-035	TMD-SO-035-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-035	TMD-SO-035-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-035	TMD-SO-035-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-035	TMD-SO-035-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-035	TMD-SO-035-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-035	TMD-SO-035-0/0.5	0	0.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-035	TMD-SO-035-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-035	TMD-SO-035-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-035	TMD-SO-035-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-035	TMD-SO-035-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-035	TMD-SO-035-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-035	TMD-SO-035-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-035	TMD-SO-035-1/1.5	1	1.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0202	U	mg/Kg	0.0202	0.119	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.0202	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-036	TMD-SO-036-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-036	TMD-SO-036-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-036	TMD-SO-036-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-036	TMD-SO-036-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.88	=	mg/Kg	0.36	0.36	Yes
TMD_RES_SS_Yard	TMD-036	TMD-SO-036-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-036	TMD-SO-036-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-036	TMD-SO-036-1/1.5	1	1.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	1.06	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-037	TMD-SO-037-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-037	TMD-SO-037-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-037	TMD-SO-037-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-037	TMD-SO-037-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-037	TMD-SO-037-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-037	TMD-SO-037-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-037	TMD-SO-037-0/0.5	0	0.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-037	TMD-SO-037-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-037	TMD-SO-037-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-037	TMD-SO-037-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-037	TMD-SO-037-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-037	TMD-SO-037-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-037	TMD-SO-037-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-037	TMD-SO-037-1/1.5	1	1.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-038	TMD-SO-038-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-038	TMD-SO-038-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-038	TMD-SO-038-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-038	TMD-SO-038-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.52	=	mg/Kg	0.37	0.37	Yes
TMD_RES_SS_Yard	TMD-038	TMD-SO-038-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-038	TMD-SO-038-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-038	TMD-SO-038-0/0.5	0	0.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.705	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-038	TMD-SO-038-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-038	TMD-SO-038-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-038	TMD-SO-038-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-038	TMD-SO-038-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-038	TMD-SO-038-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-038	TMD-SO-038-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-038	TMD-SO-038-1/1.5	1	1.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_SS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_SS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_SS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_SS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.43	=	mg/Kg	0.32	0.32	Yes
TMD_RES_SS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_SS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_SS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_SS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_SS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.4399	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-039	TMD-SO-039-1/1.5	1	1.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-039	TMD-SO-039-1/1.5	1	1.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-039	TMD-SO-039-1/1.5	1	1.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-039	TMD-SO-039-1/1.5	1	1.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-039	TMD-SO-039-1/1.5	1	1.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-039	TMD-SO-039-1/1.5	1	1.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-039	TMD-SO-039-1/1.5	1	1.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.0196	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R2	1	1.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R2	1	1.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R2	1	1.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R2	1	1.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R2	1	1.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R2	1	1.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R2	1	1.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R3	1	1.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R3	1	1.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R3	1	1.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R3	1	1.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R3	1	1.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R3	1	1.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-040	TMD-SO-040-1/1.5R3	1	1.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1248	PCB-1248	0.999	=	mg/Kg	0.0202	0.119	Yes
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1254	PCB-1254	0.32	=	mg/Kg	0.0202	0.119	Yes
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Total PCBs	TOTPCB	1.319	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.45	=	mg/Kg	0.38	0.38	Yes
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.64	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R2	1	1.5	5/23/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R2	1	1.5	5/23/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R2	1	1.5	5/23/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R2	1	1.5	5/23/2013	SO	PCB	Aroclor-1248	PCB-1248	0.19	J	mg/Kg	0.33	0.33	Yes
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R2	1	1.5	5/23/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R2	1	1.5	5/23/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R2	1	1.5	5/23/2013	SO	PCB	Total PCBs	TOTPCB	0.355	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R3	1	1.5	5/23/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R3	1	1.5	5/23/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R3	1	1.5	5/23/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R3	1	1.5	5/23/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R3	1	1.5	5/23/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R3	1	1.5	5/23/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-041	TMD-SO-041-1/1.5R3	1	1.5	5/23/2013	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1248	PCB-1248	4.8	=	mg/Kg	0.36	0.36	Yes
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-0/0.5	0	0.5	6/4/2013	SO	PCB	Total PCBs	TOTPCB	4.98	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1248	PCB-1248	7	=	mg/Kg	0.38	0.38	Yes
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-1.5/2	1.5	2	6/5/2013	SO	PCB	Total PCBs	TOTPCB	7.19	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1248	PCB-1248	8	=	mg/Kg	0.38	0.38	Yes
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-043	TMD-SO-043-1/1.5	1	1.5	6/4/2013	SO	PCB	Total PCBs	TOTPCB	8.19	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1016	PCB-1016	0.104	U	mg/Kg	0.104	0.38	No
TMD_RES_SS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1221	PCB-1221	0.104	U	mg/Kg	0.104	0.609	No
TMD_RES_SS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1232	PCB-1232	0.104	U	mg/Kg	0.104	0.38	No
TMD_RES_SS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1242	PCB-1242	0.104	U	mg/Kg	0.104	0.38	No
TMD_RES_SS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1248	PCB-1248	1.34	=	mg/Kg	0.104	0.609	Yes
TMD_RES_SS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1254	PCB-1254	1.03	=	mg/Kg	0.104	0.609	Yes
TMD_RES_SS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1260	PCB-1260	0.104	U	mg/Kg	0.104	0.38	No
TMD_RES_SS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1262	PCB-1262	0.104	U	mg/Kg	0.104	0.609	No
TMD_RES_SS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1268	PCB-1268	0.104	U	mg/Kg	0.104	0.609	No
TMD_RES_SS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Total PCBs	TOTPCB	2.37	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-045	TMD-SO-045-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-045	TMD-SO-045-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-045	TMD-SO-045-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-045	TMD-SO-045-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-045	TMD-SO-045-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-045	TMD-SO-045-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-045	TMD-SO-045-1/1.5	1	1.5	6/5/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	2	=	mg/Kg	0.39	0.39	Yes
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-0/0.5	0	0.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	2.195	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0982	U	mg/Kg	0.0982	0.577	No
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0982	U	mg/Kg	0.0982	0.577	No
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0982	U	mg/Kg	0.0982	0.577	No
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0982	U	mg/Kg	0.0982	0.577	No
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0982	U	mg/Kg	0.0982	0.577	No
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.334	=	mg/Kg	0.0982	0.577	Yes
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0982	U	mg/Kg	0.0982	0.577	No
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0982	U	mg/Kg	0.0982	0.577	No
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0982	U	mg/Kg	0.0982	0.577	No
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Total PCBs	TOTPCB	0.3831	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.7	=	mg/Kg	0.39	0.39	Yes
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	1.1	J	mg/Kg	0.39	0.39	Yes
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_SS_Yard	TMD-049	TMD-SO-049-1/1.5	1	1.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	1.8	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-052	TMD-SO-052-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-052	TMD-SO-052-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-052	TMD-SO-052-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-052	TMD-SO-052-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	7.6	=	mg/Kg	0.4	0.4	Yes
TMD_RES_SS_Yard	TMD-052	TMD-SO-052-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-052	TMD-SO-052-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-052	TMD-SO-052-0/0.5	0	0.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	7.8	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-052	TMD-SO-052-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-052	TMD-SO-052-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-052	TMD-SO-052-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-052	TMD-SO-052-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-052	TMD-SO-052-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-052	TMD-SO-052-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-052	TMD-SO-052-1/1.5	1	1.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	2.8	=	mg/Kg	0.37	0.37	Yes
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-0/0.5	0	0.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	2.985	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.103	U	mg/Kg	0.103	0.608	No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1221	PCB-1221	0.103	U	mg/Kg	0.103	0.608	No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.103	U	mg/Kg	0.103	0.608	No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.103	U	mg/Kg	0.103	0.608	No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.716	=	mg/Kg	0.103	0.608	Yes
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.22	=	mg/Kg	0.103	0.608	Yes
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.103	U	mg/Kg	0.103	0.608	No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1262	PCB-1262	0.103	U	mg/Kg	0.103	0.608	No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1268	PCB-1268	0.103	U	mg/Kg	0.103	0.608	No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Total PCBs	TOTPCB	0.936	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	3.1	=	mg/Kg	0.4	0.4	Yes
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_SS_Yard	TMD-054	TMD-SO-054-1/1.5	1	1.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	3.3	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-056	TMD-SO-056-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-056	TMD-SO-056-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-056	TMD-SO-056-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-056	TMD-SO-056-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.95	=	mg/Kg	0.41	0.41	Yes
TMD_RES_SS_Yard	TMD-056	TMD-SO-056-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-056	TMD-SO-056-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_SS_Yard	TMD-056	TMD-SO-056-0/0.5	0	0.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	1.155	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-056	TMD-SO-056-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-056	TMD-SO-056-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-056	TMD-SO-056-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-056	TMD-SO-056-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.44	=	mg/Kg	0.38	0.38	Yes
TMD_RES_SS_Yard	TMD-056	TMD-SO-056-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-056	TMD-SO-056-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-056	TMD-SO-056-1/1.5	1	1.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	0.63	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-058	TMD-SO-058-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-058	TMD-SO-058-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-058	TMD-SO-058-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-058	TMD-SO-058-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.7	=	mg/Kg	0.37	0.37	Yes
TMD_RES_SS_Yard	TMD-058	TMD-SO-058-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-058	TMD-SO-058-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-058	TMD-SO-058-0/0.5	0	0.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.885	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-058	TMD-SO-058-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-058	TMD-SO-058-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-058	TMD-SO-058-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-058	TMD-SO-058-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-058	TMD-SO-058-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-058	TMD-SO-058-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-058	TMD-SO-058-1/1.5	1	1.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R1	0	0.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R1	0	0.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R1	0	0.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R1	0	0.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.54	=	mg/Kg	0.3	0.3	Yes
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R1	0	0.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R1	0	0.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R1	0	0.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.69	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R2	0	0.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R2	0	0.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R2	0	0.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R2	0	0.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R2	0	0.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R2	0	0.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R2	0	0.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0191	U	mg/Kg	0.0191	0.112	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0191	U	mg/Kg	0.0191	0.112	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0191	U	mg/Kg	0.0191	0.112	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0191	U	mg/Kg	0.0191	0.112	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.619	=	mg/Kg	0.0191	0.112	Yes
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.341	=	mg/Kg	0.0191	0.112	Yes
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0191	U	mg/Kg	0.0191	0.112	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0191	U	mg/Kg	0.0191	0.112	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0191	U	mg/Kg	0.0191	0.112	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.96	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R1	1	1.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R1	1	1.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R1	1	1.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R1	1	1.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R1	1	1.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R1	1	1.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R1	1	1.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R2	1	1.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R2	1	1.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R2	1	1.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R2	1	1.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R2	1	1.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R2	1	1.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R2	1	1.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R3	1	1.5	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R3	1	1.5	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R3	1	1.5	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R3	1	1.5	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R3	1	1.5	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R3	1	1.5	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-060	TMD-SO-060-1/1.5R3	1	1.5	9/11/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-062	TMD-SO-062-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-062	TMD-SO-062-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-062	TMD-SO-062-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-062	TMD-SO-062-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-062	TMD-SO-062-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-062	TMD-SO-062-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-062	TMD-SO-062-0/0.5	0	0.5	9/11/2013	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-062	TMD-SO-062-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-062	TMD-SO-062-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-062	TMD-SO-062-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-062	TMD-SO-062-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-062	TMD-SO-062-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-062	TMD-SO-062-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-062	TMD-SO-062-1/1.5	1	1.5	9/11/2013	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-064	TMD-SO-064-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Yard	TMD-064	TMD-SO-064-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Yard	TMD-064	TMD-SO-064-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Yard	TMD-064	TMD-SO-064-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	0.55	=	mg/Kg	0.31	0.31	Yes
TMD_RES_SS_Yard	TMD-064	TMD-SO-064-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Yard	TMD-064	TMD-SO-064-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Yard	TMD-064	TMD-SO-064-0/0.5	0	0.5	9/11/2013	SO	PCB	Total PCBs	TOTPCB	0.705	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-064	TMD-SO-064-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Yard	TMD-064	TMD-SO-064-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Yard	TMD-064	TMD-SO-064-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Yard	TMD-064	TMD-SO-064-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	0.85	=	mg/Kg	0.31	0.31	Yes
TMD_RES_SS_Yard	TMD-064	TMD-SO-064-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	0.75	=	mg/Kg	0.31	0.31	Yes
TMD_RES_SS_Yard	TMD-064	TMD-SO-064-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_SS_Yard	TMD-064	TMD-SO-064-1/1.5	1	1.5	9/11/2013	SO	PCB	Total PCBs	TOTPCB	1.6	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-066	TMD-SO-066-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-066	TMD-SO-066-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-066	TMD-SO-066-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-066	TMD-SO-066-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1248	PCB-1248	0.64	=	mg/Kg	0.32	0.32	Yes
TMD_RES_SS_Yard	TMD-066	TMD-SO-066-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1254	PCB-1254	0.47	=	mg/Kg	0.32	0.32	Yes
TMD_RES_SS_Yard	TMD-066	TMD-SO-066-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-066	TMD-SO-066-0/0.5	0	0.5	9/12/2013	SO	PCB	Total PCBs	TOTPCB	1.11	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1016	PCB-1016	0.02	U	mg/Kg	0.02	0.118	No
TMD_RES_SS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1221	PCB-1221	0.02	U	mg/Kg	0.02	0.118	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1232	PCB-1232	0.02	U	mg/Kg	0.02	0.118	No
TMD_RES_SS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1242	PCB-1242	0.02	U	mg/Kg	0.02	0.118	No
TMD_RES_SS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1248	PCB-1248	0.979	=	mg/Kg	0.02	0.118	Yes
TMD_RES_SS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1254	PCB-1254	0.54	=	mg/Kg	0.34	0.34	Yes
TMD_RES_SS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1260	PCB-1260	0.02	U	mg/Kg	0.02	0.118	No
TMD_RES_SS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1262	PCB-1262	0.02	U	mg/Kg	0.02	0.118	No
TMD_RES_SS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1268	PCB-1268	0.02	U	mg/Kg	0.02	0.118	No
TMD_RES_SS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Total PCBs	TOTPCB	1.519	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-067	TMD-SO-067-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-067	TMD-SO-067-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-067	TMD-SO-067-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-067	TMD-SO-067-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1248	PCB-1248	1.1	=	mg/Kg	0.33	0.33	Yes
TMD_RES_SS_Yard	TMD-067	TMD-SO-067-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1254	PCB-1254	0.63	=	mg/Kg	0.33	0.33	Yes
TMD_RES_SS_Yard	TMD-067	TMD-SO-067-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-067	TMD-SO-067-0/0.5	0	0.5	9/12/2013	SO	PCB	Total PCBs	TOTPCB	1.73	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-067	TMD-SO-067-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-067	TMD-SO-067-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-067	TMD-SO-067-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-067	TMD-SO-067-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1248	PCB-1248	0.41	=	mg/Kg	0.34	0.34	Yes
TMD_RES_SS_Yard	TMD-067	TMD-SO-067-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	J	mg/Kg	0.34	0.34	Yes
TMD_RES_SS_Yard	TMD-067	TMD-SO-067-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-067	TMD-SO-067-1/1.5	1	1.5	9/12/2013	SO	PCB	Total PCBs	TOTPCB	0.74	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-070	TMD-SO-070-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-070	TMD-SO-070-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-070	TMD-SO-070-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-070	TMD-SO-070-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-070	TMD-SO-070-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-070	TMD-SO-070-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-070	TMD-SO-070-0/0.5	0	0.5	9/12/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-070	TMD-SO-070-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-070	TMD-SO-070-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-070	TMD-SO-070-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-070	TMD-SO-070-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.53	=	mg/Kg	0.33	0.33	Yes
TMD_RES_SS_Yard	TMD-070	TMD-SO-070-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.28	J	mg/Kg	0.33	0.33	Yes
TMD_RES_SS_Yard	TMD-070	TMD-SO-070-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-070	TMD-SO-070-1/1.5	1	1.5	9/13/2013	SO	PCB	Total PCBs	TOTPCB	0.81	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-072	TMD-SO-072-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	UJ	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-072	TMD-SO-072-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	UJ	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-072	TMD-SO-072-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	UJ	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-072	TMD-SO-072-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	UJ	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-072	TMD-SO-072-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	UJ	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-072	TMD-SO-072-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	UJ	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-072	TMD-SO-072-0/0.5	0	0.5	9/13/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-072	TMD-SO-072-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_SS_Yard	TMD-072	TMD-SO-072-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_SS_Yard	TMD-072	TMD-SO-072-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_SS_Yard	TMD-072	TMD-SO-072-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_SS_Yard	TMD-072	TMD-SO-072-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_SS_Yard	TMD-072	TMD-SO-072-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_SS_Yard	TMD-072	TMD-SO-072-1/1.5	1	1.5	9/13/2013	SO	PCB	Total PCBs	TOTPCB	0.28	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-073	TMD-SO-073-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-073	TMD-SO-073-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-073	TMD-SO-073-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-073	TMD-SO-073-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-073	TMD-SO-073-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-073	TMD-SO-073-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-073	TMD-SO-073-0/0.5	0	0.5	9/13/2013	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-073	TMD-SO-073-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-073	TMD-SO-073-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-073	TMD-SO-073-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-073	TMD-SO-073-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-073	TMD-SO-073-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-073	TMD-SO-073-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-073	TMD-SO-073-1/1.5	1	1.5	9/13/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1248	PCB-1248	1.28	=	mg/Kg	0.0188	0.111	Yes
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.9	=	mg/Kg	0.0188	0.111	Yes
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Total PCBs	TOTPCB	2.18	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R2	0	0.5	9/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R2	0	0.5	9/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R2	0	0.5	9/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R2	0	0.5	9/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.54	=	mg/Kg	0.29	0.29	Yes
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R2	0	0.5	9/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.54	=	mg/Kg	0.29	0.29	Yes
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R2	0	0.5	9/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R2	0	0.5	9/16/2013	SO	PCB	Total PCBs	TOTPCB	1.08	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.55	=	mg/Kg	0.36	0.36	Yes
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	0.73	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R1	1	1.5	9/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R1	1	1.5	9/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R1	1	1.5	9/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R1	1	1.5	9/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.28	J	mg/Kg	0.32	0.32	Yes
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R1	1	1.5	9/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.22	J	mg/Kg	0.32	0.32	Yes
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R1	1	1.5	9/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R1	1	1.5	9/16/2013	SO	PCB	Total PCBs	TOTPCB	0.5	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0188	U	mg/Kg	0.0188	0.11	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0188	U	mg/Kg	0.0188	0.11	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0188	U	mg/Kg	0.0188	0.11	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0188	U	mg/Kg	0.0188	0.11	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.23	J	mg/Kg	0.29	0.29	Yes
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.306	=	mg/Kg	0.0188	0.11	Yes
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0188	U	mg/Kg	0.0188	0.11	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0188	U	mg/Kg	0.0188	0.11	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0188	U	mg/Kg	0.0188	0.11	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Total PCBs	TOTPCB	0.536	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.23	J	mg/Kg	0.3	0.3	Yes
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_SS_Yard	TMD-074	TMD-SO-074-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	0.38	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-075	TMD-SO-075-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-075	TMD-SO-075-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-075	TMD-SO-075-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-075	TMD-SO-075-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-075	TMD-SO-075-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-075	TMD-SO-075-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-075	TMD-SO-075-0/0.5	0	0.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-075	TMD-SO-075-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-075	TMD-SO-075-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-075	TMD-SO-075-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-075	TMD-SO-075-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-075	TMD-SO-075-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.75	=	mg/Kg	0.32	0.32	Yes
TMD_RES_SS_Yard	TMD-075	TMD-SO-075-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-075	TMD-SO-075-1/1.5	1	1.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	0.91	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-077	TMD-SO-077-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-077	TMD-SO-077-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-077	TMD-SO-077-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-077	TMD-SO-077-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	4.8	=	mg/Kg	0.36	0.36	Yes
TMD_RES_SS_Yard	TMD-077	TMD-SO-077-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	4.6	=	mg/Kg	0.36	0.36	Yes
TMD_RES_SS_Yard	TMD-077	TMD-SO-077-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_SS_Yard	TMD-077	TMD-SO-077-0/0.5	0	0.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	9.4	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-077	TMD-SO-077-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-077	TMD-SO-077-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-077	TMD-SO-077-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-077	TMD-SO-077-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.18	J	mg/Kg	0.35	0.35	Yes
TMD_RES_SS_Yard	TMD-077	TMD-SO-077-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-077	TMD-SO-077-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_SS_Yard	TMD-077	TMD-SO-077-1/1.5	1	1.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	0.355	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R1	0	0.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	UJ	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R1	0	0.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	UJ	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R1	0	0.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	UJ	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R1	0	0.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	1.9	J	mg/Kg	0.32	0.32	Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R1	0	0.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	1.1	J	mg/Kg	0.32	0.32	Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R1	0	0.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	UJ	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R1	0	0.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	3	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R2	0	0.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	UJ	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R2	0	0.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	UJ	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R2	0	0.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	UJ	mg/Kg	0.32	0.32	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R2	0	0.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	1.2	J	mg/Kg	0.32	0.32	Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R2	0	0.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.76	J	mg/Kg	0.32	0.32	Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R2	0	0.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	UJ	mg/Kg	0.32	0.32	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R2	0	0.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	1.96	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	2.4	=	mg/Kg	0.37	0.37	Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	1.5	=	mg/Kg	0.37	0.37	Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	3.9	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R1	1	1.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R1	1	1.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R1	1	1.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R1	1	1.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.98	=	mg/Kg	0.34	0.34	Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R1	1	1.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.55	=	mg/Kg	0.34	0.34	Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R1	1	1.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R1	1	1.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	1.53	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R2	1	1.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R2	1	1.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R2	1	1.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R2	1	1.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.81	=	mg/Kg	0.25	0.25	Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R2	1	1.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.52	=	mg/Kg	0.25	0.25	Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R2	1	1.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R2	1	1.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	1.33	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.5	=	mg/Kg	0.28	0.28	Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.32	=	mg/Kg	0.28	0.28	Yes
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_SS_Yard	TMD-078	TMD-SO-078-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	0.82	=	mg/Kg			Yes
TMD_RES_SS_Yard	TMD-080	TMD-SO-080-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-080	TMD-SO-080-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-080	TMD-SO-080-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-080	TMD-SO-080-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-080	TMD-SO-080-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-080	TMD-SO-080-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-080	TMD-SO-080-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-080	TMD-SO-080-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-080	TMD-SO-080-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-080	TMD-SO-080-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-080	TMD-SO-080-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-080	TMD-SO-080-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-080	TMD-SO-080-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-080	TMD-SO-080-1/1.5	1	1.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-082	TMD-SO-082-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-082	TMD-SO-082-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-082	TMD-SO-082-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-082	TMD-SO-082-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-082	TMD-SO-082-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-082	TMD-SO-082-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_SS_Yard	TMD-082	TMD-SO-082-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-082	TMD-SO-082-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_SS_Yard	TMD-082	TMD-SO-082-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-082	TMD-SO-082-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-082	TMD-SO-082-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-082	TMD-SO-082-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-082	TMD-SO-082-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_SS_Yard	TMD-082	TMD-SO-082-1/1.5	1	1.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.019	U	mg/Kg	0.019	0.111	No
TMD_RES_SS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1221	PCB-1221	0.019	U	mg/Kg	0.019	0.111	No
TMD_RES_SS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.019	U	mg/Kg	0.019	0.111	No
TMD_RES_SS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.019	U	mg/Kg	0.019	0.111	No
TMD_RES_SS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.019	U	mg/Kg	0.019	0.111	No
TMD_RES_SS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.019	U	mg/Kg	0.019	0.111	No
TMD_RES_SS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.019	U	mg/Kg	0.019	0.111	No
TMD_RES_SS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1262	PCB-1262	0.019	U	mg/Kg	0.019	0.111	No
TMD_RES_SS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1268	PCB-1268	0.019	U	mg/Kg	0.019	0.111	No
TMD_RES_SS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.019	U	mg/Kg			No
TMD_RES_SS_Yard	TMD-084	TMD-SO-084-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	UJ	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-084	TMD-SO-084-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	UJ	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-084	TMD-SO-084-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	UJ	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-084	TMD-SO-084-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	UJ	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-084	TMD-SO-084-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	UJ	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-084	TMD-SO-084-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	UJ	mg/Kg	0.33	0.33	No
TMD_RES_SS_Yard	TMD-084	TMD-SO-084-1/1.5	1	1.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-0/0.5	0	0.5	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.42	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-1/1.5	1	1.5	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-003	TMD-SO-003-2.5/3	2.5	3	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-0/0.5	0	0.5	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-1/1.5	1	1.5	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-004	TMD-SO-004-2.5/3	2.5	3	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0208	U	mg/Kg	0.0208	0.123	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0208	U	mg/Kg	0.0208	0.123	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0208	U	mg/Kg	0.0208	0.123	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0208	U	mg/Kg	0.0208	0.123	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	0.65	=	mg/Kg	0.35	0.35	Yes
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0208	U	mg/Kg	0.0208	0.123	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0208	U	mg/Kg	0.0208	0.123	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0208	U	mg/Kg	0.0208	0.123	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0208	U	mg/Kg	0.0208	0.123	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-0.5/1	0.5	1	5/2/2013	SO	PCB	Total PCBs	TOTPCB	0.6604	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	1.3	=	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-0/0.5	0	0.5	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-0/0.5	0	0.5	4/30/2013	SO	PCB	Total PCBs	TOTPCB	1.49	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-1/1.5	1	1.5	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-1/1.5	1	1.5	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-2.5/3	2.5	3	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-005	TMD-SO-005-2.5/3	2.5	3	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0209	U	mg/Kg	0.0209	0.123	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-0/0.5	0	0.5	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.0209	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-1/1.5	1	1.5	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-006	TMD-SO-006-2.5/3	2.5	3	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-0/0.5	0	0.5	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-1/1.5	1	1.5	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-007	TMD-SO-007-2.5/3	2.5	3	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-0/0.5	0	0.5	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-0/0.5	0	0.5	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-1/1.5	1	1.5	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-1/1.5	1	1.5	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-2.5/3	2.5	3	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-008	TMD-SO-008-2.5/3	2.5	3	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-0/0.5	0	0.5	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-0/0.5	0	0.5	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-0/0.5	0	0.5	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-0/0.5	0	0.5	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	J	mg/Kg	0.42	0.42	Yes
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-0/0.5	0	0.5	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-0/0.5	0	0.5	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-0/0.5	0	0.5	5/2/2013	SO	PCB	Total PCBs	TOTPCB	0.58	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0207	U	mg/Kg	0.0207	0.121	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-1/1.5	1	1.5	5/2/2013	SO	PCB	Total PCBs	TOTPCB	0.0207	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-2.5/3	2.5	3	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.44	U	mg/Kg	0.44	0.44	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-2.5/3	2.5	3	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.44	U	mg/Kg	0.44	0.44	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-2.5/3	2.5	3	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.44	U	mg/Kg	0.44	0.44	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-2.5/3	2.5	3	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	0.44	U	mg/Kg	0.44	0.44	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-2.5/3	2.5	3	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.44	U	mg/Kg	0.44	0.44	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-2.5/3	2.5	3	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.44	U	mg/Kg	0.44	0.44	No
TMD_RES_TS_Yard	TMD-009	TMD-SO-009-2.5/3	2.5	3	5/2/2013	SO	PCB	Total PCBs	TOTPCB	0.44	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R1	0	0.5	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R1	0	0.5	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R1	0	0.5	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R1	0	0.5	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	1.6	=	mg/Kg	0.4	0.4	Yes
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R1	0	0.5	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R1	0	0.5	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R1	0	0.5	5/2/2013	SO	PCB	Total PCBs	TOTPCB	1.8	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R2	0	0.5	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R2	0	0.5	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R2	0	0.5	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R2	0	0.5	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	1.2	=	mg/Kg	0.4	0.4	Yes
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R2	0	0.5	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R2	0	0.5	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R2	0	0.5	5/2/2013	SO	PCB	Total PCBs	TOTPCB	1.4	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R3	0	0.5	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R3	0	0.5	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R3	0	0.5	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R3	0	0.5	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	2.1	=	mg/Kg	0.41	0.41	Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R3	0	0.5	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R3	0	0.5	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-0/0.5R3	0	0.5	5/2/2013	SO	PCB	Total PCBs	TOTPCB	2.305	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R1	1	1.5	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R1	1	1.5	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R1	1	1.5	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R1	1	1.5	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	0.31	J	mg/Kg	0.39	0.39	Yes
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R1	1	1.5	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R1	1	1.5	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R1	1	1.5	5/2/2013	SO	PCB	Total PCBs	TOTPCB	0.505	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R2	1	1.5	5/3/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R2	1	1.5	5/3/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R2	1	1.5	5/3/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R2	1	1.5	5/3/2013	SO	PCB	Aroclor-1248	PCB-1248	0.27	J	mg/Kg	0.39	0.39	Yes
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R2	1	1.5	5/3/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R2	1	1.5	5/3/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R2	1	1.5	5/3/2013	SO	PCB	Total PCBs	TOTPCB	0.465	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R3	1	1.5	5/3/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R3	1	1.5	5/3/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R3	1	1.5	5/3/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R3	1	1.5	5/3/2013	SO	PCB	Aroclor-1248	PCB-1248	0.27	J	mg/Kg	0.39	0.39	Yes
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R3	1	1.5	5/3/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R3	1	1.5	5/3/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-1/1.5R3	1	1.5	5/3/2013	SO	PCB	Total PCBs	TOTPCB	0.465	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R1	2.5	3	5/3/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R1	2.5	3	5/3/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R1	2.5	3	5/3/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R1	2.5	3	5/3/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R1	2.5	3	5/3/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R1	2.5	3	5/3/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R1	2.5	3	5/3/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R2	2.5	3	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R2	2.5	3	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R2	2.5	3	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R2	2.5	3	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R2	2.5	3	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R2	2.5	3	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R2	2.5	3	5/6/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R3	2.5	3	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R3	2.5	3	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R3	2.5	3	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R3	2.5	3	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	0.21	J	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R3	2.5	3	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R3	2.5	3	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2.5/3R3	2.5	3	5/9/2013	SO	PCB	Total PCBs	TOTPCB	0.4	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2/2.5-R3	2	2.5	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2/2.5-R3	2	2.5	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2/2.5-R3	2	2.5	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2/2.5-R3	2	2.5	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.21	J	mg/Kg	0.39	0.39	Yes
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2/2.5-R3	2	2.5	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2/2.5-R3	2	2.5	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-010	TMD-SO-010-2/2.5-R3	2	2.5	5/6/2013	SO	PCB	Total PCBs	TOTPCB	0.405	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1	0.5	1	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1	0.5	1	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1	0.5	1	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1	0.5	1	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	1.7	=	mg/Kg	0.37	0.37	Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1	0.5	1	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1	0.5	1	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1	0.5	1	5/15/2013	SO	PCB	Total PCBs	TOTPCB	1.885	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1R2	0.5	1	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1R2	0.5	1	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1R2	0.5	1	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1R2	0.5	1	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	1.7	=	mg/Kg	0.39	0.39	Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1R2	0.5	1	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1R2	0.5	1	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1R2	0.5	1	5/15/2013	SO	PCB	Total PCBs	TOTPCB	1.895	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1R3	0.5	1	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1R3	0.5	1	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1R3	0.5	1	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1R3	0.5	1	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	1.6	=	mg/Kg	0.37	0.37	Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1R3	0.5	1	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1R3	0.5	1	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0.5/1R3	0.5	1	5/15/2013	SO	PCB	Total PCBs	TOTPCB	1.785	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5/R3	0	0.5	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5/R3	0	0.5	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5/R3	0	0.5	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5/R3	0	0.5	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	2.9	=	mg/Kg	0.41	0.41	Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5/R3	0	0.5	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5/R3	0	0.5	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5/R3	0	0.5	5/6/2013	SO	PCB	Total PCBs	TOTPCB	3.105	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5R1	0	0.5	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5R1	0	0.5	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5R1	0	0.5	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5R1	0	0.5	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	2.3	=	mg/Kg	0.4	0.4	Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5R1	0	0.5	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5R1	0	0.5	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5R1	0	0.5	5/6/2013	SO	PCB	Total PCBs	TOTPCB	2.5	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5R2	0	0.5	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5R2	0	0.5	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5R2	0	0.5	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5R2	0	0.5	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	2.3	=	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5R2	0	0.5	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5R2	0	0.5	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-0/0.5R2	0	0.5	5/6/2013	SO	PCB	Total PCBs	TOTPCB	2.49	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R1	1	1.5	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R1	1	1.5	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R1	1	1.5	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R1	1	1.5	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	=	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R1	1	1.5	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R1	1	1.5	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R1	1	1.5	5/6/2013	SO	PCB	Total PCBs	TOTPCB	0.57	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R2	1	1.5	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R2	1	1.5	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R2	1	1.5	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R2	1	1.5	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.63	=	mg/Kg	0.36	0.36	Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R2	1	1.5	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R2	1	1.5	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R2	1	1.5	5/6/2013	SO	PCB	Total PCBs	TOTPCB	0.81	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R3	1	1.5	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R3	1	1.5	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R3	1	1.5	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R3	1	1.5	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.96	=	mg/Kg	0.34	0.34	Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R3	1	1.5	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R3	1	1.5	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-1/1.5R3	1	1.5	5/6/2013	SO	PCB	Total PCBs	TOTPCB	1.13	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R1	2.5	3	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R1	2.5	3	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R1	2.5	3	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R1	2.5	3	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.28	J	mg/Kg	0.37	0.37	Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R1	2.5	3	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R1	2.5	3	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R1	2.5	3	5/6/2013	SO	PCB	Total PCBs	TOTPCB	0.465	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R2	2.5	3	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R2	2.5	3	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R2	2.5	3	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R2	2.5	3	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.47	=	mg/Kg	0.4	0.4	Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R2	2.5	3	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R2	2.5	3	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R2	2.5	3	5/6/2013	SO	PCB	Total PCBs	TOTPCB	0.67	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R3	2.5	3	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R3	2.5	3	5/8/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R3	2.5	3	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R3	2.5	3	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R3	2.5	3	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R3	2.5	3	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R3	2.5	3	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R3	2.5	3	5/8/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R3	2.5	3	5/8/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-011	TMD-SO-011-2.5/3R3	2.5	3	5/8/2013	SO	PCB	Total PCBs	TOTPCB	0.0198	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-0/0.5	0	0.5	5/8/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-1/1.5	1	1.5	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-1/1.5	1	1.5	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-1/1.5	1	1.5	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-1/1.5	1	1.5	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-1/1.5	1	1.5	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-1/1.5	1	1.5	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-1/1.5	1	1.5	5/8/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-2.5/3	2.5	3	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-2.5/3	2.5	3	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-2.5/3	2.5	3	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-2.5/3	2.5	3	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-2.5/3	2.5	3	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-2.5/3	2.5	3	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-012	TMD-SO-012-2.5/3	2.5	3	5/8/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1248	PCB-1248	0.64	=	mg/Kg	0.39	0.39	Yes
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-0/0.5	0	0.5	5/8/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-0/0.5	0	0.5	5/8/2013	SO	PCB	Total PCBs	TOTPCB	0.835	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-1/1.5	1	1.5	5/9/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	0.55	=	mg/Kg	0.35	0.35	Yes
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-013	TMD-SO-013-2.5/3	2.5	3	5/9/2013	SO	PCB	Total PCBs	TOTPCB	0.725	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-0/0.5	0	0.5	5/9/2013	SO	PCB	Total PCBs	TOTPCB	0.42	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-1/1.5	1	1.5	5/9/2013	SO	PCB	Total PCBs	TOTPCB	0.41	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-014	TMD-SO-014-2.5/3	2.5	3	5/9/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0204	U	mg/Kg	0.0204	0.12	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0204	U	mg/Kg	0.0204	0.12	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0204	U	mg/Kg	0.0204	0.12	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0204	U	mg/Kg	0.0204	0.12	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	1.6	=	mg/Kg	0.35	0.35	Yes
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0204	U	mg/Kg	0.0204	0.12	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0204	U	mg/Kg	0.0204	0.12	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0204	U	mg/Kg	0.0204	0.12	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0204	U	mg/Kg	0.0204	0.12	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-0/0.5	0	0.5	5/9/2013	SO	PCB	Total PCBs	TOTPCB	1.6102	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-1/1.5	1	1.5	5/9/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-015	TMD-SO-015-2.5/3	2.5	3	5/9/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	0.24	J	mg/Kg	0.3	0.3	Yes
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-0/0.5	0	0.5	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-0/0.5	0	0.5	5/9/2013	SO	PCB	Total PCBs	TOTPCB	0.39	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-1.5/2	1.5	2	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-1.5/2	1.5	2	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-1.5/2	1.5	2	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-1.5/2	1.5	2	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-1.5/2	1.5	2	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-1.5/2	1.5	2	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-1.5/2	1.5	2	5/15/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	3.3	=	mg/Kg	0.34	0.34	Yes
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-1/1.5	1	1.5	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-1/1.5	1	1.5	5/9/2013	SO	PCB	Total PCBs	TOTPCB	3.47	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-2.5/3	2.5	3	5/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-016	TMD-SO-016-2.5/3	2.5	3	5/9/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-0/0.5	0	0.5	5/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-0/0.5	0	0.5	5/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-0/0.5	0	0.5	5/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-0/0.5	0	0.5	5/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-0/0.5	0	0.5	5/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-0/0.5	0	0.5	5/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-0/0.5	0	0.5	5/10/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-1/1.5	1	1.5	5/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-1/1.5	1	1.5	5/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-1/1.5	1	1.5	5/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-1/1.5	1	1.5	5/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-1/1.5	1	1.5	5/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-1/1.5	1	1.5	5/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-1/1.5	1	1.5	5/10/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-2.5/3	1	1.5	5/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-2.5/3	1	1.5	5/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-2.5/3	1	1.5	5/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-2.5/3	1	1.5	5/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-2.5/3	1	1.5	5/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-2.5/3	1	1.5	5/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.42	U	mg/Kg	0.42	0.42	No
TMD_RES_TS_Yard	TMD-017	TMD-SO-017-2.5/3	1	1.5	5/10/2013	SO	PCB	Total PCBs	TOTPCB	0.42	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-0/0.5	2.5	3	5/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-0/0.5	2.5	3	5/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-0/0.5	2.5	3	5/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-0/0.5	2.5	3	5/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-0/0.5	2.5	3	5/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-0/0.5	2.5	3	5/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-0/0.5	2.5	3	5/10/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-1/1.5	1	1.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	0.0198	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-2.5/3	2.5	3	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-2.5/3	2.5	3	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-2.5/3	2.5	3	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-2.5/3	2.5	3	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-2.5/3	2.5	3	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-2.5/3	2.5	3	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-018	TMD-SO-018-2.5/3	2.5	3	5/13/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R1	0	0.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R1	0	0.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R1	0	0.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R1	0	0.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	1	=	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R1	0	0.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R1	0	0.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R1	0	0.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	1.19	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R2	0	0.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R2	0	0.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R2	0	0.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R2	0	0.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	1.7	=	mg/Kg	0.36	0.36	Yes
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R2	0	0.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R2	0	0.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R2	0	0.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	1.88	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	1.4	=	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-0/0.5R3	0	0.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	1.4098	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R1	1	1.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R1	1	1.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R1	1	1.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R1	1	1.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	J	mg/Kg	0.39	0.39	Yes
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R1	1	1.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R1	1	1.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R1	1	1.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	0.535	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R2	1	1.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R2	1	1.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R2	1	1.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R2	1	1.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	J	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R2	1	1.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R2	1	1.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R2	1	1.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	0.56	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R3	1	1.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R3	1	1.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R3	1	1.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R3	1	1.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.62	=	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R3	1	1.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R3	1	1.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-1/1.5R3	1	1.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	0.81	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-2.5/3R2	2.5	3	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-2.5/3R2	2.5	3	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-2.5/3R2	2.5	3	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-2.5/3R2	2.5	3	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.23	J	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-2.5/3R2	2.5	3	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-2.5/3R2	2.5	3	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-2.5/3R2	2.5	3	5/13/2013	SO	PCB	Total PCBs	TOTPCB	0.42	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-2.5/3R3	2.5	3	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-2.5/3R3	2.5	3	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-2.5/3R3	2.5	3	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-2.5/3R3	2.5	3	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-2.5/3R3	2.5	3	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-2.5/3R3	2.5	3	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-019	TMD-SO-019-2.5/3R3	2.5	3	5/13/2013	SO	PCB	Total PCBs	TOTPCB	0.41	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-0/0.5	0	0.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-0/0.5	0	0.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-0/0.5	0	0.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-0/0.5	0	0.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.18	J	mg/Kg	0.36	0.36	Yes
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-0/0.5	0	0.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-0/0.5	0	0.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-0/0.5	0	0.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	0.36	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.5	=	mg/Kg	0.36	0.36	Yes
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-1/1.5	1	1.5	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-1/1.5	1	1.5	5/13/2013	SO	PCB	Total PCBs	TOTPCB	0.68	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-2.5/3	2.5	3	5/14/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-2.5/3	2.5	3	5/14/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-2.5/3	2.5	3	5/14/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-2.5/3	2.5	3	5/14/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-2.5/3	2.5	3	5/14/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-2.5/3	2.5	3	5/14/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-2.5/3	2.5	3	5/14/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-2.5/3R1	2.5	3	5/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-2.5/3R1	2.5	3	5/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-2.5/3R1	2.5	3	5/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-2.5/3R1	2.5	3	5/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-2.5/3R1	2.5	3	5/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-2.5/3R1	2.5	3	5/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-020	TMD-SO-020-2.5/3R1	2.5	3	5/13/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-0/0.5	0	0.5	5/14/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-0/0.5	0	0.5	5/14/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-0/0.5	0	0.5	5/14/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-0/0.5	0	0.5	5/14/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-0/0.5	0	0.5	5/14/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-0/0.5	0	0.5	5/14/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-0/0.5	0	0.5	5/14/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-1/1.5	1	1.5	5/15/2013	SO	PCB	Total PCBs	TOTPCB	0.0202	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-021	TMD-SO-021-2.5/3	2.5	3	5/15/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-0/0.5	0	0.5	5/15/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	1.2	=	mg/Kg	0.36	0.36	Yes
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-1/1.5	1	1.5	5/15/2013	SO	PCB	Total PCBs	TOTPCB	1.38	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	UJ	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	UJ	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	UJ	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	UJ	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	UJ	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	UJ	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-022	TMD-SO-022-2.5/3	2.5	3	5/15/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	0.29	J	mg/Kg	0.39	0.39	Yes
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-0/0.5	0	0.5	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-0/0.5	0	0.5	5/15/2013	SO	PCB	Total PCBs	TOTPCB	0.485	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0197	U	mg/Kg	0.0197	0.116	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0197	U	mg/Kg	0.0197	0.116	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0197	U	mg/Kg	0.0197	0.116	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0197	U	mg/Kg	0.0197	0.116	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	0.116	=	mg/Kg	0.0197	0.116	Yes
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0197	U	mg/Kg	0.0197	0.116	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0197	U	mg/Kg	0.0197	0.116	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0197	U	mg/Kg	0.0197	0.116	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0197	U	mg/Kg	0.0197	0.116	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-1/1.5	1	1.5	5/15/2013	SO	PCB	Total PCBs	TOTPCB	0.12585	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	J	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-2.5/3	2.5	3	5/15/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-023	TMD-SO-023-2.5/3	2.5	3	5/15/2013	SO	PCB	Total PCBs	TOTPCB	0.49	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.82	=	mg/Kg	0.33	0.33	Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-0/0.5	0	0.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.985	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.44	=	mg/Kg	0.37	0.37	Yes
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-1/1.5	1	1.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.625	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-024	TMD-SO-024-2.5/3	2.5	3	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	1.7	=	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-0/0.5	0	0.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	1.89	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	J	mg/Kg	0.37	0.37	Yes
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-1/1.5	1	1.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.535	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.31	J	mg/Kg	0.41	0.41	Yes
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-025	TMD-SO-025-2.5/3	2.5	3	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.515	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.43	U	mg/Kg	0.43	0.43	No
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.43	U	mg/Kg	0.43	0.43	No
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.43	U	mg/Kg	0.43	0.43	No
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	1.6	=	mg/Kg	0.43	0.43	Yes
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.43	U	mg/Kg	0.43	0.43	No
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.43	U	mg/Kg	0.43	0.43	No
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-0/0.5	0	0.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	1.815	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.49	=	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0209	U	mg/Kg	0.0209	0.123	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0209	U	mg/Kg	0.0209	0.123	No
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-1/1.5	1	1.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.50045	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.51	=	mg/Kg	0.37	0.37	Yes
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-026	TMD-SO-026-2.5/3	2.5	3	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.695	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.44	=	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-0/0.5	0	0.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.63	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.57	=	mg/Kg	0.36	0.36	Yes
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-1/1.5	1	1.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.75	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	UJ	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	UJ	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	UJ	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.41	UJ	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	UJ	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	UJ	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-027	TMD-SO-027-2.5/3	2.5	3	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.41	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R1	0	0.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R1	0	0.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R1	0	0.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R1	0	0.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R1	0	0.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R1	0	0.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R1	0	0.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R2	0	0.5	5/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R2	0	0.5	5/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R2	0	0.5	5/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R2	0	0.5	5/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R2	0	0.5	5/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R2	0	0.5	5/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R2	0	0.5	5/17/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R3	0	0.5	5/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R3	0	0.5	5/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R3	0	0.5	5/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R3	0	0.5	5/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R3	0	0.5	5/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R3	0	0.5	5/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-0/0.5R3	0	0.5	5/17/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R1	1	1.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R1	1	1.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R1	1	1.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R1	1	1.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R1	1	1.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R1	1	1.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R1	1	1.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R2	1	1.5	5/17/2013	SO	PCB	Total PCBs	TOTPCB	0.0199	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R3	1	1.5	5/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R3	1	1.5	5/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R3	1	1.5	5/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R3	1	1.5	5/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R3	1	1.5	5/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R3	1	1.5	5/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-1/1.5R3	1	1.5	5/17/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R1	2.5	3	5/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R1	2.5	3	5/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R1	2.5	3	5/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R1	2.5	3	5/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R1	2.5	3	5/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R1	2.5	3	5/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R1	2.5	3	5/17/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R2	2.5	3	5/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R2	2.5	3	5/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R2	2.5	3	5/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R2	2.5	3	5/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R2	2.5	3	5/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R2	2.5	3	5/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R2	2.5	3	5/17/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R3	2.5	3	5/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R3	2.5	3	5/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R3	2.5	3	5/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R3	2.5	3	5/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R3	2.5	3	5/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R3	2.5	3	5/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-028	TMD-SO-028-2.5/3R3	2.5	3	5/17/2013	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	1.7	=	mg/Kg	0.33	0.33	Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-0/0.5	0	0.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-0/0.5	0	0.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	1.865	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.9	=	mg/Kg	0.9	0.9	Yes
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-1/1.5	1	1.5	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-1/1.5	1	1.5	5/16/2013	SO	PCB	Total PCBs	TOTPCB	1.08	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	J	mg/Kg	0.2	0.2	Yes
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-2.5/3	2.5	3	5/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-029	TMD-SO-029-2.5/3	2.5	3	5/16/2013	SO	PCB	Total PCBs	TOTPCB	0.585	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0199	U	mg/Kg	0.0199	0.117	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-0/0.5	0	0.5	5/17/2013	SO	PCB	Total PCBs	TOTPCB	0.0199	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-1/1.5	1	1.5	5/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-1/1.5	1	1.5	5/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-1/1.5	1	1.5	5/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-1/1.5	1	1.5	5/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-1/1.5	1	1.5	5/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-1/1.5	1	1.5	5/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-1/1.5	1	1.5	5/17/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-030	TMD-SO-030-2.5/3	2.5	3	5/20/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-0/0.5	0	3.5	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-0/0.5	0	3.5	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-0/0.5	0	3.5	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-0/0.5	0	3.5	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	=	mg/Kg	0.32	0.32	Yes
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-0/0.5	0	3.5	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-0/0.5	0	3.5	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-0/0.5	0	3.5	5/20/2013	SO	PCB	Total PCBs	TOTPCB	0.49	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	0.23	J	mg/Kg	0.3	0.3	Yes
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-1/1.5	1	1.5	5/20/2013	SO	PCB	Total PCBs	TOTPCB	0.38	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	0.53	=	mg/Kg	0.39	0.39	Yes
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-031	TMD-SO-031-2.5/3	2.5	3	5/20/2013	SO	PCB	Total PCBs	TOTPCB	0.725	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	1.2	=	mg/Kg	0.33	0.33	Yes
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-0/0.5	0	0.5	5/20/2013	SO	PCB	Total PCBs	TOTPCB	1.365	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-1/1.5	1	1.5	5/20/2013	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	0.24	J	mg/Kg	0.34	0.34	Yes
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-032	TMD-SO-032-2.5/3	2.5	3	5/20/2013	SO	PCB	Total PCBs	TOTPCB	0.41	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-0.5/1	0.5	1	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-0.5/1	0.5	1	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-0.5/1	0.5	1	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-0.5/1	0.5	1	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-0.5/1	0.5	1	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-0.5/1	0.5	1	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-0.5/1	0.5	1	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0212	U	mg/Kg	0.0212	0.125	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0212	U	mg/Kg	0.0212	0.125	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0212	U	mg/Kg	0.0212	0.125	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0212	U	mg/Kg	0.0212	0.125	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	2.9	=	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0212	U	mg/Kg	0.0212	0.125	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0212	U	mg/Kg	0.0212	0.125	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0212	U	mg/Kg	0.0212	0.125	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0212	U	mg/Kg	0.0212	0.125	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-0/0.5	0	0.5	5/20/2013	SO	PCB	Total PCBs	TOTPCB	2.9106	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	0.53	=	mg/Kg	0.3	0.3	Yes
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-1/1.5	1	1.5	5/20/2013	SO	PCB	Total PCBs	TOTPCB	0.68	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.22	U	mg/Kg	0.22	0.22	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.22	U	mg/Kg	0.22	0.22	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.22	U	mg/Kg	0.22	0.22	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	=	mg/Kg	0.22	0.22	Yes
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.22	U	mg/Kg	0.22	0.22	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.22	U	mg/Kg	0.22	0.22	No
TMD_RES_TS_Yard	TMD-033	TMD-SO-033-2.5/3	2.5	3	5/20/2013	SO	PCB	Total PCBs	TOTPCB	0.45	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	0.2	J	mg/Kg	0.3	0.3	Yes
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-0/0.5	0	0.5	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-0/0.5	0	0.5	5/20/2013	SO	PCB	Total PCBs	TOTPCB	0.35	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-1/1.5	1	1.5	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-1/1.5	1	1.5	5/20/2013	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-2.5/3	2.5	3	5/20/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-034	TMD-SO-034-2.5/3	2.5	3	5/20/2013	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-0/0.5	0	0.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-1/1.5	1	1.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.28	U	mg/Kg	0.28	0.28	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_TS_Yard	TMD-035	TMD-SO-035-2.5/3	2.5	3	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.28	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-0/0.5	0	0.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.0202	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.88	=	mg/Kg	0.36	0.36	Yes
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-1/1.5	1	1.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	1.06	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.21	J	mg/Kg	0.4	0.4	Yes
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-036	TMD-SO-036-2.5/3	2.5	3	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.41	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-0/0.5	0	0.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-1/1.5	1	1.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_RES_TS_Yard	TMD-037	TMD-SO-037-2.5/3	2.5	3	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.52	=	mg/Kg	0.37	0.37	Yes
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-0/0.5	0	0.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.705	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-1/1.5	1	1.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-1/1.5	1	1.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-2.5/3	2.5	3	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-038	TMD-SO-038-2.5/3	2.5	3	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1248	PCB-1248	0.43	=	mg/Kg	0.32	0.32	Yes
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0198	U	mg/Kg	0.0198	0.117	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-0/0.5	0	0.5	5/21/2013	SO	PCB	Total PCBs	TOTPCB	0.4399	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-1/1.5	1	1.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-1/1.5	1	1.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-1/1.5	1	1.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-1/1.5	1	1.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-1/1.5	1	1.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-1/1.5	1	1.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-1/1.5	1	1.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-2.5/3	2.5	3	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-2.5/3	2.5	3	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-2.5/3	2.5	3	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-2.5/3	2.5	3	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-2.5/3	2.5	3	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-2.5/3	2.5	3	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-039	TMD-SO-039-2.5/3	2.5	3	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0196	U	mg/Kg	0.0196	0.115	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-0/0.5R3	0	0.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.0196	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R2	1	1.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R2	1	1.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R2	1	1.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R2	1	1.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R2	1	1.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R2	1	1.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R2	1	1.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R3	1	1.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R3	1	1.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R3	1	1.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R3	1	1.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R3	1	1.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R3	1	1.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-1/1.5R3	1	1.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R1	2.5	3	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R1	2.5	3	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R1	2.5	3	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R1	2.5	3	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R1	2.5	3	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R1	2.5	3	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R1	2.5	3	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R2	2.5	3	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R2	2.5	3	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R2	2.5	3	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R2	2.5	3	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R2	2.5	3	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R2	2.5	3	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R2	2.5	3	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R3	2.5	3	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R3	2.5	3	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R3	2.5	3	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R3	2.5	3	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R3	2.5	3	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R3	2.5	3	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-040	TMD-SO-040-2.5/3R3	2.5	3	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R1	0	0.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R2	0	0.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1248	PCB-1248	0.999	=	mg/Kg	0.0202	0.119	Yes
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1254	PCB-1254	0.32	=	mg/Kg	0.0202	0.119	Yes
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0202	U	mg/Kg	0.0202	0.119	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-0/0.5R3	0	0.5	5/23/2013	SO	PCB	Total PCBs	TOTPCB	1.319	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.45	=	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R1	1	1.5	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.64	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R2	1	1.5	5/23/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R2	1	1.5	5/23/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R2	1	1.5	5/23/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R2	1	1.5	5/23/2013	SO	PCB	Aroclor-1248	PCB-1248	0.19	J	mg/Kg	0.33	0.33	Yes
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R2	1	1.5	5/23/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R2	1	1.5	5/23/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R2	1	1.5	5/23/2013	SO	PCB	Total PCBs	TOTPCB	0.355	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R3	1	1.5	5/23/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R3	1	1.5	5/23/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R3	1	1.5	5/23/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R3	1	1.5	5/23/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R3	1	1.5	5/23/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R3	1	1.5	5/23/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-1/1.5R3	1	1.5	5/23/2013	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R1	2.5	3	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R1	2.5	3	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R1	2.5	3	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R1	2.5	3	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R1	2.5	3	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R1	2.5	3	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R1	2.5	3	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R2	2.5	3	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R2	2.5	3	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R2	2.5	3	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R2	2.5	3	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R2	2.5	3	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R2	2.5	3	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R2	2.5	3	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R3	2.5	3	5/23/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R3	2.5	3	5/23/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R3	2.5	3	5/23/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R3	2.5	3	5/23/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R3	2.5	3	5/23/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R3	2.5	3	5/23/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-041	TMD-SO-041-2.5/3R3	2.5	3	5/23/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1248	PCB-1248	4.8	=	mg/Kg	0.36	0.36	Yes
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-0/0.5	0	0.5	6/4/2013	SO	PCB	Total PCBs	TOTPCB	4.98	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1248	PCB-1248	7	=	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-1.5/2	1.5	2	6/5/2013	SO	PCB	Total PCBs	TOTPCB	7.19	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1248	PCB-1248	8	=	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-043	TMD-SO-043-1/1.5	1	1.5	6/4/2013	SO	PCB	Total PCBs	TOTPCB	8.19	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1016	PCB-1016	0.104	U	mg/Kg	0.104	0.38	No
TMD_RES_TS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1221	PCB-1221	0.104	U	mg/Kg	0.104	0.609	No
TMD_RES_TS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1232	PCB-1232	0.104	U	mg/Kg	0.104	0.38	No
TMD_RES_TS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1242	PCB-1242	0.104	U	mg/Kg	0.104	0.38	No
TMD_RES_TS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1248	PCB-1248	1.34	=	mg/Kg	0.104	0.609	Yes
TMD_RES_TS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1254	PCB-1254	1.03	=	mg/Kg	0.104	0.609	Yes
TMD_RES_TS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1260	PCB-1260	0.104	U	mg/Kg	0.104	0.38	No
TMD_RES_TS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1262	PCB-1262	0.104	U	mg/Kg	0.104	0.609	No
TMD_RES_TS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1268	PCB-1268	0.104	U	mg/Kg	0.104	0.609	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-045	TMD-SO-045-0/0.5	0	0.5	6/5/2013	SO	PCB	Total PCBs	TOTPCB	2.37	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-045	TMD-SO-045-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-045	TMD-SO-045-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-045	TMD-SO-045-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-045	TMD-SO-045-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-045	TMD-SO-045-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-045	TMD-SO-045-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-045	TMD-SO-045-1/1.5	1	1.5	6/5/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-046	TMD-SO-046-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-046	TMD-SO-046-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-046	TMD-SO-046-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-046	TMD-SO-046-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1248	PCB-1248	2.2	=	mg/Kg	0.41	0.41	Yes
TMD_RES_TS_Yard	TMD-046	TMD-SO-046-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-046	TMD-SO-046-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-046	TMD-SO-046-0/0.5	0	0.5	6/5/2013	SO	PCB	Total PCBs	TOTPCB	2.405	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-046	TMD-SO-046-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-046	TMD-SO-046-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-046	TMD-SO-046-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-046	TMD-SO-046-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1248	PCB-1248	1.2	=	mg/Kg	0.39	0.39	Yes
TMD_RES_TS_Yard	TMD-046	TMD-SO-046-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-046	TMD-SO-046-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-046	TMD-SO-046-1/1.5	1	1.5	6/5/2013	SO	PCB	Total PCBs	TOTPCB	1.395	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1248	PCB-1248	6.3	=	mg/Kg	0.36	0.36	Yes
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-0/0.5	0	0.5	6/5/2013	SO	PCB	Total PCBs	TOTPCB	6.48	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.8	=	mg/Kg	0.41	0.41	Yes
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-1.5/2	1.5	2	6/6/2013	SO	PCB	Total PCBs	TOTPCB	1.005	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1248	PCB-1248	7.7	=	mg/Kg	0.4	0.4	Yes
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-047	TMD-SO-047-1/1.5	1	1.5	6/5/2013	SO	PCB	Total PCBs	TOTPCB	7.9	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	2	=	mg/Kg	0.39	0.39	Yes
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-0/0.5	0	0.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	2.195	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0982	U	mg/Kg	0.0982	0.577	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0982	U	mg/Kg	0.0982	0.577	No
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0982	U	mg/Kg	0.0982	0.577	No
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0982	U	mg/Kg	0.0982	0.577	No
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0982	U	mg/Kg	0.0982	0.577	No
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.334	=	mg/Kg	0.0982	0.577	Yes
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0982	U	mg/Kg	0.0982	0.577	No
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0982	U	mg/Kg	0.0982	0.577	No
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0982	U	mg/Kg	0.0982	0.577	No
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-1.5/2	1.5	2	6/7/2013	SO	PCB	Total PCBs	TOTPCB	0.3831	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.7	=	mg/Kg	0.39	0.39	Yes
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	1.1	J	mg/Kg	0.39	0.39	Yes
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_RES_TS_Yard	TMD-049	TMD-SO-049-1/1.5	1	1.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	1.8	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-052	TMD-SO-052-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-052	TMD-SO-052-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-052	TMD-SO-052-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-052	TMD-SO-052-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	7.6	=	mg/Kg	0.4	0.4	Yes
TMD_RES_TS_Yard	TMD-052	TMD-SO-052-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-052	TMD-SO-052-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-052	TMD-SO-052-0/0.5	0	0.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	7.8	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-052	TMD-SO-052-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-052	TMD-SO-052-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-052	TMD-SO-052-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-052	TMD-SO-052-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-052	TMD-SO-052-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-052	TMD-SO-052-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-052	TMD-SO-052-1/1.5	1	1.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	2.8	=	mg/Kg	0.37	0.37	Yes
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-0/0.5	0	0.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	2.985	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.103	U	mg/Kg	0.103	0.608	No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1221	PCB-1221	0.103	U	mg/Kg	0.103	0.608	No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.103	U	mg/Kg	0.103	0.608	No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.103	U	mg/Kg	0.103	0.608	No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.716	=	mg/Kg	0.103	0.608	Yes
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.22	=	mg/Kg	0.103	0.608	Yes
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.103	U	mg/Kg	0.103	0.608	No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1262	PCB-1262	0.103	U	mg/Kg	0.103	0.608	No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1268	PCB-1268	0.103	U	mg/Kg	0.103	0.608	No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-1.5/2	1.5	2	6/7/2013	SO	PCB	Total PCBs	TOTPCB	0.936	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	3.1	=	mg/Kg	0.4	0.4	Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_RES_TS_Yard	TMD-054	TMD-SO-054-1/1.5	1	1.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	3.3	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-056	TMD-SO-056-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-056	TMD-SO-056-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-056	TMD-SO-056-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-056	TMD-SO-056-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.95	=	mg/Kg	0.41	0.41	Yes
TMD_RES_TS_Yard	TMD-056	TMD-SO-056-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-056	TMD-SO-056-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_RES_TS_Yard	TMD-056	TMD-SO-056-0/0.5	0	0.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	1.155	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-056	TMD-SO-056-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-056	TMD-SO-056-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-056	TMD-SO-056-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-056	TMD-SO-056-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.44	=	mg/Kg	0.38	0.38	Yes
TMD_RES_TS_Yard	TMD-056	TMD-SO-056-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-056	TMD-SO-056-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-056	TMD-SO-056-1/1.5	1	1.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	0.63	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.7	=	mg/Kg	0.37	0.37	Yes
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-0/0.5	0	0.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.885	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-1/1.5	1	1.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-2.5/3	2.5	3	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-2.5/3	2.5	3	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-2.5/3	2.5	3	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-2.5/3	2.5	3	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-2.5/3	2.5	3	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-2.5/3	2.5	3	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-058	TMD-SO-058-2.5/3	2.5	3	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R1	0	0.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R1	0	0.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R1	0	0.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R1	0	0.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.54	=	mg/Kg	0.3	0.3	Yes
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R1	0	0.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R1	0	0.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R1	0	0.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.69	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R2	0	0.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R2	0	0.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R2	0	0.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R2	0	0.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R2	0	0.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R2	0	0.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R2	0	0.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0191	U	mg/Kg	0.0191	0.112	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0191	U	mg/Kg	0.0191	0.112	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0191	U	mg/Kg	0.0191	0.112	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0191	U	mg/Kg	0.0191	0.112	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.619	=	mg/Kg	0.0191	0.112	Yes
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.341	=	mg/Kg	0.0191	0.112	Yes
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0191	U	mg/Kg	0.0191	0.112	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0191	U	mg/Kg	0.0191	0.112	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0191	U	mg/Kg	0.0191	0.112	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-0/0.5R3	0	0.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.96	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R1	1	1.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R1	1	1.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R1	1	1.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R1	1	1.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R1	1	1.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R1	1	1.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R1	1	1.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R2	1	1.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R2	1	1.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R2	1	1.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R2	1	1.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R2	1	1.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R2	1	1.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R2	1	1.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R3	1	1.5	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R3	1	1.5	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R3	1	1.5	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R3	1	1.5	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R3	1	1.5	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R3	1	1.5	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-1/1.5R3	1	1.5	9/11/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R1	2.5	3	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R1	2.5	3	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R1	2.5	3	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R1	2.5	3	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R1	2.5	3	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R1	2.5	3	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R1	2.5	3	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R2	2.5	3	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R2	2.5	3	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R2	2.5	3	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R2	2.5	3	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R2	2.5	3	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R2	2.5	3	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R2	2.5	3	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R3	2.5	3	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R3	2.5	3	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R3	2.5	3	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R3	2.5	3	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R3	2.5	3	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R3	2.5	3	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-060	TMD-SO-060-2.5/3R3	2.5	3	9/11/2013	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-0/0.5	0	0.5	9/11/2013	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-1/1.5	1	1.5	9/11/2013	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-062	TMD-SO-062-2.5/3	2.5	3	9/11/2013	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	0.55	=	mg/Kg	0.31	0.31	Yes
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-0/0.5	0	0.5	9/11/2013	SO	PCB	Total PCBs	TOTPCB	0.705	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	0.85	=	mg/Kg	0.31	0.31	Yes
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	0.75	=	mg/Kg	0.31	0.31	Yes
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-1/1.5	1	1.5	9/11/2013	SO	PCB	Total PCBs	TOTPCB	1.6	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-064	TMD-SO-064-2.5/3	2.5	3	9/11/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1248	PCB-1248	0.64	=	mg/Kg	0.32	0.32	Yes
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1254	PCB-1254	0.47	=	mg/Kg	0.32	0.32	Yes
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-0/0.5	0	0.5	9/12/2013	SO	PCB	Total PCBs	TOTPCB	1.11	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1016	PCB-1016	0.02	U	mg/Kg	0.02	0.118	No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1221	PCB-1221	0.02	U	mg/Kg	0.02	0.118	No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1232	PCB-1232	0.02	U	mg/Kg	0.02	0.118	No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1242	PCB-1242	0.02	U	mg/Kg	0.02	0.118	No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1248	PCB-1248	0.979	=	mg/Kg	0.02	0.118	Yes
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1254	PCB-1254	0.54	=	mg/Kg	0.34	0.34	Yes
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1260	PCB-1260	0.02	U	mg/Kg	0.02	0.118	No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1262	PCB-1262	0.02	U	mg/Kg	0.02	0.118	No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1268	PCB-1268	0.02	U	mg/Kg	0.02	0.118	No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-1/1.5	1	1.5	9/12/2013	SO	PCB	Total PCBs	TOTPCB	1.519	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-066	TMD-SO-066-2.5/3	2.5	3	9/12/2013	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1248	PCB-1248	1.1	=	mg/Kg	0.33	0.33	Yes
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1254	PCB-1254	0.63	=	mg/Kg	0.33	0.33	Yes
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-0/0.5	0	0.5	9/12/2013	SO	PCB	Total PCBs	TOTPCB	1.73	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1248	PCB-1248	0.41	=	mg/Kg	0.34	0.34	Yes
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	J	mg/Kg	0.34	0.34	Yes
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-1/1.5	1	1.5	9/12/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-1/1.5	1	1.5	9/12/2013	SO	PCB	Total PCBs	TOTPCB	0.74	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-067	TMD-SO-067-2.5/3	2.5	3	9/12/2013	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-0/0.5	0	0.5	9/12/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-0/0.5	0	0.5	9/12/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.53	=	mg/Kg	0.33	0.33	Yes
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.28	J	mg/Kg	0.33	0.33	Yes
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-1/1.5	1	1.5	9/13/2013	SO	PCB	Total PCBs	TOTPCB	0.81	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	=	mg/Kg	0.35	0.35	Yes
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-070	TMD-SO-070-2.5/3	2.5	3	9/13/2013	SO	PCB	Total PCBs	TOTPCB	0.545	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	UJ	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	UJ	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	UJ	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	UJ	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	UJ	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	UJ	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-0/0.5	0	0.5	9/13/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-1/1.5	1	1.5	9/13/2013	SO	PCB	Total PCBs	TOTPCB	0.28	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-072	TMD-SO-072-2.5/3	2.5	3	9/13/2013	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-0/0.5	0	0.5	9/13/2013	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-1/1.5	1	1.5	9/13/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_RES_TS_Yard	TMD-073	TMD-SO-073-2.5/3	2.5	3	9/13/2013	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0188	U	mg/Kg	0.0188	0.111	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1248	PCB-1248	1.28	=	mg/Kg	0.0188	0.111	Yes
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.9	=	mg/Kg	0.0188	0.111	Yes
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R1	0	0.5	9/16/2013	SO	PCB	Total PCBs	TOTPCB	2.18	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R2	0	0.5	9/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R2	0	0.5	9/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R2	0	0.5	9/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R2	0	0.5	9/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.54	=	mg/Kg	0.29	0.29	Yes
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R2	0	0.5	9/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.54	=	mg/Kg	0.29	0.29	Yes
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R2	0	0.5	9/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R2	0	0.5	9/16/2013	SO	PCB	Total PCBs	TOTPCB	1.08	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.55	=	mg/Kg	0.36	0.36	Yes
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	0.73	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R1	1	1.5	9/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R1	1	1.5	9/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R1	1	1.5	9/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R1	1	1.5	9/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.28	J	mg/Kg	0.32	0.32	Yes
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R1	1	1.5	9/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.22	J	mg/Kg	0.32	0.32	Yes
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R1	1	1.5	9/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R1	1	1.5	9/16/2013	SO	PCB	Total PCBs	TOTPCB	0.5	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0188	U	mg/Kg	0.0188	0.11	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0188	U	mg/Kg	0.0188	0.11	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0188	U	mg/Kg	0.0188	0.11	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0188	U	mg/Kg	0.0188	0.11	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.23	J	mg/Kg	0.29	0.29	Yes
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.306	=	mg/Kg	0.0188	0.11	Yes
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0188	U	mg/Kg	0.0188	0.11	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0188	U	mg/Kg	0.0188	0.11	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0188	U	mg/Kg	0.0188	0.11	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R2	1	1.5	9/16/2013	SO	PCB	Total PCBs	TOTPCB	0.536	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.23	J	mg/Kg	0.3	0.3	Yes
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	0.38	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R1	2.5	3	9/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R1	2.5	3	9/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R1	2.5	3	9/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R1	2.5	3	9/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R1	2.5	3	9/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R1	2.5	3	9/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R1	2.5	3	9/16/2013	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R2	2.5	3	9/16/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R2	2.5	3	9/16/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R2	2.5	3	9/16/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R2	2.5	3	9/16/2013	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R2	2.5	3	9/16/2013	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R2	2.5	3	9/16/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R2	2.5	3	9/16/2013	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R3	2.5	3	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R3	2.5	3	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R3	2.5	3	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R3	2.5	3	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R3	2.5	3	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R3	2.5	3	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-074	TMD-SO-074-2.5/3R3	2.5	3	9/17/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-075	TMD-SO-075-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-075	TMD-SO-075-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-075	TMD-SO-075-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-075	TMD-SO-075-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-075	TMD-SO-075-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-075	TMD-SO-075-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-075	TMD-SO-075-0/0.5	0	0.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-075	TMD-SO-075-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-075	TMD-SO-075-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-075	TMD-SO-075-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-075	TMD-SO-075-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-075	TMD-SO-075-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.75	=	mg/Kg	0.32	0.32	Yes
TMD_RES_TS_Yard	TMD-075	TMD-SO-075-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-075	TMD-SO-075-1/1.5	1	1.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	0.91	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	4.8	=	mg/Kg	0.36	0.36	Yes
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	4.6	=	mg/Kg	0.36	0.36	Yes
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-0/0.5	0	0.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-0/0.5	0	0.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	9.4	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.18	J	mg/Kg	0.35	0.35	Yes
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-1/1.5	1	1.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-1/1.5	1	1.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	0.355	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-2.5/3	2.5	3	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0182	U	mg/Kg	0.0182	0.107	No
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-2.5/3	2.5	3	9/17/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0182	U	mg/Kg	0.0182	0.107	No
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-2.5/3	2.5	3	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0182	U	mg/Kg	0.0182	0.107	No
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-2.5/3	2.5	3	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0182	U	mg/Kg	0.0182	0.107	No
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-2.5/3	2.5	3	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.238	=	mg/Kg	0.0182	0.107	Yes
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-2.5/3	2.5	3	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0915	J	mg/Kg	0.0182	0.107	Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-2.5/3	2.5	3	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0182	U	mg/Kg	0.0182	0.107	No
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-2.5/3	2.5	3	9/17/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0182	U	mg/Kg	0.0182	0.107	No
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-2.5/3	2.5	3	9/17/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0182	U	mg/Kg	0.0182	0.107	No
TMD_RES_TS_Yard	TMD-077	TMD-SO-077-2.5/3	2.5	3	9/17/2013	SO	PCB	Total PCBs	TOTPCB	0.3295	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R1	0	0.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	UJ	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R1	0	0.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	UJ	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R1	0	0.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	UJ	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R1	0	0.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	1.9	J	mg/Kg	0.32	0.32	Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R1	0	0.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	1.1	J	mg/Kg	0.32	0.32	Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R1	0	0.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	UJ	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R1	0	0.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	3	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R2	0	0.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	UJ	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R2	0	0.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	UJ	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R2	0	0.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	UJ	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R2	0	0.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	1.2	J	mg/Kg	0.32	0.32	Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R2	0	0.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.76	J	mg/Kg	0.32	0.32	Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R2	0	0.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	UJ	mg/Kg	0.32	0.32	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R2	0	0.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	1.96	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	2.4	=	mg/Kg	0.37	0.37	Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	1.5	=	mg/Kg	0.37	0.37	Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-0/0.5R3	0	0.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	3.9	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R1	1	1.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R1	1	1.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R1	1	1.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R1	1	1.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.98	=	mg/Kg	0.34	0.34	Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R1	1	1.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.55	=	mg/Kg	0.34	0.34	Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R1	1	1.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R1	1	1.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	1.53	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R2	1	1.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R2	1	1.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R2	1	1.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R2	1	1.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.81	=	mg/Kg	0.25	0.25	Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R2	1	1.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.52	=	mg/Kg	0.25	0.25	Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R2	1	1.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R2	1	1.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	1.33	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.5	=	mg/Kg	0.28	0.28	Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.32	=	mg/Kg	0.28	0.28	Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-1/1.5R3	1	1.5	9/17/2013	SO	PCB	Total PCBs	TOTPCB	0.82	=	mg/Kg			Yes
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R1	2.5	3	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R1	2.5	3	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R1	2.5	3	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R1	2.5	3	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R1	2.5	3	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R1	2.5	3	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R1	2.5	3	9/17/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R2	2.5	3	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R2	2.5	3	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R2	2.5	3	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R2	2.5	3	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R2	2.5	3	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R2	2.5	3	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R2	2.5	3	9/17/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R3	2.5	3	9/17/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	UJ	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R3	2.5	3	9/17/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	UJ	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R3	2.5	3	9/17/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	UJ	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R3	2.5	3	9/17/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	UJ	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R3	2.5	3	9/17/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	UJ	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R3	2.5	3	9/17/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	UJ	mg/Kg	0.35	0.35	No
TMD_RES_TS_Yard	TMD-078	TMD-SO-078-2.5/3R3	2.5	3	9/17/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-080	TMD-SO-080-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-080	TMD-SO-080-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-080	TMD-SO-080-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-080	TMD-SO-080-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-080	TMD-SO-080-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-080	TMD-SO-080-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-080	TMD-SO-080-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-080	TMD-SO-080-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-080	TMD-SO-080-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-080	TMD-SO-080-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-080	TMD-SO-080-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-080	TMD-SO-080-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-080	TMD-SO-080-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-080	TMD-SO-080-1/1.5	1	1.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-082	TMD-SO-082-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-082	TMD-SO-082-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-082	TMD-SO-082-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-082	TMD-SO-082-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-082	TMD-SO-082-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-082	TMD-SO-082-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_RES_TS_Yard	TMD-082	TMD-SO-082-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-082	TMD-SO-082-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-082	TMD-SO-082-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-082	TMD-SO-082-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-082	TMD-SO-082-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-082	TMD-SO-082-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-082	TMD-SO-082-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_RES_TS_Yard	TMD-082	TMD-SO-082-1/1.5	1	1.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.019	U	mg/Kg	0.019	0.111	No
TMD_RES_TS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1221	PCB-1221	0.019	U	mg/Kg	0.019	0.111	No
TMD_RES_TS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.019	U	mg/Kg	0.019	0.111	No
TMD_RES_TS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.019	U	mg/Kg	0.019	0.111	No
TMD_RES_TS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.019	U	mg/Kg	0.019	0.111	No
TMD_RES_TS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.019	U	mg/Kg	0.019	0.111	No
TMD_RES_TS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.019	U	mg/Kg	0.019	0.111	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_RES_TS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1262	PCB-1262	0.019	U	mg/Kg	0.019	0.111	No
TMD_RES_TS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1268	PCB-1268	0.019	U	mg/Kg	0.019	0.111	No
TMD_RES_TS_Yard	TMD-084	TMD-SO-084-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.019	U	mg/Kg			No
TMD_RES_TS_Yard	TMD-084	TMD-SO-084-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	UJ	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-084	TMD-SO-084-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	UJ	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-084	TMD-SO-084-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	UJ	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-084	TMD-SO-084-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.33	UJ	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-084	TMD-SO-084-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	UJ	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-084	TMD-SO-084-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	UJ	mg/Kg	0.33	0.33	No
TMD_RES_TS_Yard	TMD-084	TMD-SO-084-1/1.5	1	1.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-019_2011	TMD-SO-019/5-6	5	6	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-019_2011	TMD-SO-019/5-6	5	6	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-019_2011	TMD-SO-019/5-6	5	6	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-019_2011	TMD-SO-019/5-6	5	6	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	0.31	=	mg/Kg	0.31	0.31	Yes
TMD_Utility_TS_BonBrae	TMD-019_2011	TMD-SO-019/5-6	5	6	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-019_2011	TMD-SO-019/5-6	5	6	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-019_2011	TMD-SO-019/5-6	5	6	4/15/2011	SO	PCB	Total PCBs	TOTPCB	0.465	=	mg/Kg			Yes
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	1.3	=	mg/Kg	0.3	0.3	Yes
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/0-1	0	1	4/15/2011	SO	PCB	Total PCBs	TOTPCB	1.45	=	mg/Kg			Yes
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/2-3	2	3	4/15/2011	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/4-5	4	5	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/4-5	4	5	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/4-5	4	5	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/4-5	4	5	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/4-5	4	5	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/4-5	4	5	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/4-5	4	5	4/15/2011	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/6-7	6	7	4/15/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/7-8	7	8	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/7-8	7	8	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/7-8	7	8	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/7-8	7	8	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/7-8	7	8	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/7-8	7	8	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_BonBrae	TMD-021_2011	TMD-SO-021/7-8	7	8	4/15/2011	SO	PCB	Total PCBs	TOTPCB	0.28	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	0.43	=	mg/Kg	0.38	0.38	Yes
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/0-1	0	1	4/15/2011	SO	PCB	Total PCBs	TOTPCB	0.62	=	mg/Kg			Yes
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/2-3	2	3	4/15/2011	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/5-6	5	6	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/5-6	5	6	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/5-6	5	6	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/5-6	5	6	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/5-6	5	6	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/5-6	5	6	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/5-6	5	6	4/15/2011	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-022_2011	TMD-SO-022/6-7	6	7	4/15/2011	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1248	PCB-1248	80	=	mg/Kg	3.3	3.3	Yes
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/1-2	1	2	4/16/2011	SO	PCB	Total PCBs	TOTPCB	80.165	=	mg/Kg			Yes
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1248	PCB-1248	300	=	mg/Kg	11	11	Yes
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/2-3	2	3	4/16/2011	SO	PCB	Total PCBs	TOTPCB	300.185	=	mg/Kg			Yes
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/6.3-7.3	6.3	7.3	4/16/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/6.3-7.3	6.3	7.3	4/16/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/6.3-7.3	6.3	7.3	4/16/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/6.3-7.3	6.3	7.3	4/16/2011	SO	PCB	Aroclor-1248	PCB-1248	56	=	mg/Kg	2.8	2.8	Yes
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/6.3-7.3	6.3	7.3	4/16/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/6.3-7.3	6.3	7.3	4/16/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/6.3-7.3	6.3	7.3	4/16/2011	SO	PCB	Total PCBs	TOTPCB	56.14	=	mg/Kg			Yes
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/7.3-8.3	7.3	8.3	4/16/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/7.3-8.3	7.3	8.3	4/16/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/7.3-8.3	7.3	8.3	4/16/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/7.3-8.3	7.3	8.3	4/16/2011	SO	PCB	Aroclor-1248	PCB-1248	0.63	=	mg/Kg	0.33	0.33	Yes
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/7.3-8.3	7.3	8.3	4/16/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/7.3-8.3	7.3	8.3	4/16/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-025_2011	TMD-SO-025/7.3-8.3	7.3	8.3	4/16/2011	SO	PCB	Total PCBs	TOTPCB	0.795	=	mg/Kg			Yes
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1248	PCB-1248	10	=	mg/Kg	0.29	0.29	Yes
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/1-2	1	2	4/16/2011	SO	PCB	Total PCBs	TOTPCB	10.145	=	mg/Kg			Yes
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	J	mg/Kg	0.35	0.35	Yes
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/2-3	2	3	4/16/2011	SO	PCB	Total PCBs	TOTPCB	0.495	=	mg/Kg			Yes
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-028_2011	TMD-SO-028/6-7	6	7	4/16/2011	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	0.41	=	mg/Kg	0.31	0.31	Yes
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/1-2	1	2	4/17/2011	SO	PCB	Total PCBs	TOTPCB	0.565	=	mg/Kg			Yes
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/2-3	2	3	4/17/2011	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/4-5	4	5	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/4-5	4	5	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/4-5	4	5	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/4-5	4	5	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/4-5	4	5	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/4-5	4	5	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/4-5	4	5	4/17/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	0.81	=	mg/Kg	0.38	0.38	Yes
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-031_2011	TMD-SO-031/5-6	5	6	4/17/2011	SO	PCB	Total PCBs	TOTPCB	1	=	mg/Kg			Yes
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/1-2	1	2	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/2-3	2	3	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/4-5	4	5	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/4-5	4	5	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/4-5	4	5	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/4-5	4	5	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/4-5	4	5	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/4-5	4	5	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/4-5	4	5	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/6-7	6	7	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/7-8	7	8	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/7-8	7	8	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/7-8	7	8	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/7-8	7	8	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/7-8	7	8	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/7-8	7	8	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/7-8	7	8	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/8-9	8	9	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/8-9	8	9	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/8-9	8	9	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/8-9	8	9	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/8-9	8	9	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/8-9	8	9	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/8-9	8	9	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/9-10	9	10	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/9-10	9	10	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/9-10	9	10	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/9-10	9	10	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/9-10	9	10	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/9-10	9	10	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-041_2011	TMD-SO-041/9-10	9	10	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/10-11	10	11	4/20/2011	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/10-11	10	11	4/20/2011	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/10-11	10	11	4/20/2011	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/10-11	10	11	4/20/2011	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/10-11	10	11	4/20/2011	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/10-11	10	11	4/20/2011	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/10-11	10	11	4/20/2011	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1248	PCB-1248	1.8	=	mg/Kg	0.28	0.28	Yes
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/1-2	1	2	4/20/2011	SO	PCB	Total PCBs	TOTPCB	1.94	=	mg/Kg			Yes
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1248	PCB-1248	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/2-3	2	3	4/20/2011	SO	PCB	Total PCBs	TOTPCB	0.28	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/4-4.8	4	4.8	4/20/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/4-4.8	4	4.8	4/20/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/4-4.8	4	4.8	4/20/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/4-4.8	4	4.8	4/20/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/4-4.8	4	4.8	4/20/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/4-4.8	4	4.8	4/20/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/4-4.8	4	4.8	4/20/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/6-7	6	7	4/20/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/6-7	6	7	4/20/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/6-7	6	7	4/20/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/6-7	6	7	4/20/2011	SO	PCB	Aroclor-1248	PCB-1248	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/6-7	6	7	4/20/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/6-7	6	7	4/20/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/6-7	6	7	4/20/2011	SO	PCB	Total PCBs	TOTPCB	0.28	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/8-9	8	9	4/20/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/8-9	8	9	4/20/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/8-9	8	9	4/20/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/8-9	8	9	4/20/2011	SO	PCB	Aroclor-1248	PCB-1248	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/8-9	8	9	4/20/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/8-9	8	9	4/20/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_BonBrae	TMD-046_2011	TMD-SO-046/8-9	8	9	4/20/2011	SO	PCB	Total PCBs	TOTPCB	0.25	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/1-2	1	2	4/20/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/2-3	2	3	4/20/2011	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/4-5	4	5	4/20/2011	SO	PCB	Aroclor-1016	PCB-1016	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/4-5	4	5	4/20/2011	SO	PCB	Aroclor-1232	PCB-1232	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/4-5	4	5	4/20/2011	SO	PCB	Aroclor-1242	PCB-1242	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/4-5	4	5	4/20/2011	SO	PCB	Aroclor-1248	PCB-1248	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/4-5	4	5	4/20/2011	SO	PCB	Aroclor-1254	PCB-1254	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/4-5	4	5	4/20/2011	SO	PCB	Aroclor-1260	PCB-1260	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/4-5	4	5	4/20/2011	SO	PCB	Total PCBs	TOTPCB	0.24	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/6-7	6	7	4/20/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/6-7	6	7	4/20/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/6-7	6	7	4/20/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/6-7	6	7	4/20/2011	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/6-7	6	7	4/20/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/6-7	6	7	4/20/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-047_2011	TMD-SO-047/6-7	6	7	4/20/2011	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/10-11	10	11	4/26/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/10-11	10	11	4/26/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/10-11	10	11	4/26/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/10-11	10	11	4/26/2011	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/10-11	10	11	4/26/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/10-11	10	11	4/26/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/10-11	10	11	4/26/2011	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/11.5-12.5	11.5	12.5	4/26/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/11.5-12.5	11.5	12.5	4/26/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/11.5-12.5	11.5	12.5	4/26/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/11.5-12.5	11.5	12.5	4/26/2011	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/11.5-12.5	11.5	12.5	4/26/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/11.5-12.5	11.5	12.5	4/26/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/11.5-12.5	11.5	12.5	4/26/2011	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1248	PCB-1248	3.5	=	mg/Kg	0.28	0.28	Yes
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/1-2	1	2	4/26/2011	SO	PCB	Total PCBs	TOTPCB	3.64	=	mg/Kg			Yes
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1248	PCB-1248	2.7	=	mg/Kg	0.27	0.27	Yes
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/2-3	2	3	4/26/2011	SO	PCB	Total PCBs	TOTPCB	2.835	=	mg/Kg			Yes
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/5-6	5	6	4/26/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/5-6	5	6	4/26/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/5-6	5	6	4/26/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/5-6	5	6	4/26/2011	SO	PCB	Aroclor-1248	PCB-1248	2.1	=	mg/Kg	0.28	0.28	Yes
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/5-6	5	6	4/26/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/5-6	5	6	4/26/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_BonBrae	TMD-049_2011	TMD-SO-049/5-6	5	6	4/26/2011	SO	PCB	Total PCBs	TOTPCB	2.24	=	mg/Kg			Yes
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1016	PCB-1016	2.6	U	mg/Kg	2.6	2.6	No
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1232	PCB-1232	2.6	U	mg/Kg	2.6	2.6	No
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1242	PCB-1242	2.6	U	mg/Kg	2.6	2.6	No
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1248	PCB-1248	43	=	mg/Kg	2.6	2.6	Yes
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1254	PCB-1254	2.6	U	mg/Kg	2.6	2.6	No
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1260	PCB-1260	2.6	U	mg/Kg	2.6	2.6	No
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/1-2	1	2	4/26/2011	SO	PCB	Total PCBs	TOTPCB	44.3	=	mg/Kg			Yes
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1248	PCB-1248	3.5	=	mg/Kg	0.37	0.37	Yes
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/2-3	2	3	4/26/2011	SO	PCB	Total PCBs	TOTPCB	3.685	=	mg/Kg			Yes
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/4-5	4	5	4/26/2011	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/4-5	4	5	4/26/2011	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/4-5	4	5	4/26/2011	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/4-5	4	5	4/26/2011	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/4-5	4	5	4/26/2011	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/4-5	4	5	4/26/2011	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_BonBrae	TMD-052_2011	TMD-SO-052/4-5	4	5	4/26/2011	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/1-2	1	2	5/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/1-2	1	2	5/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/1-2	1	2	5/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/1-2	1	2	5/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/1-2	1	2	5/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/1-2	1	2	5/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/1-2	1	2	5/12/2011	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/2-2.5	2	2.5	5/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/2-2.5	2	2.5	5/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/2-2.5	2	2.5	5/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/2-2.5	2	2.5	5/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/2-2.5	2	2.5	5/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/2-2.5	2	2.5	5/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/2-2.5	2	2.5	5/12/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/6-7	6	7	5/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/6-7	6	7	5/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/6-7	6	7	5/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/6-7	6	7	5/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/6-7	6	7	5/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/6-7	6	7	5/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_BonBrae	TMD-086_2011	TMD-SO-086/6-7	6	7	5/12/2011	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-088_2011	TMD-SO-088/5.5-6	5.5	6	5/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-088_2011	TMD-SO-088/5.5-6	5.5	6	5/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-088_2011	TMD-SO-088/5.5-6	5.5	6	5/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-088_2011	TMD-SO-088/5.5-6	5.5	6	5/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_BonBrae	TMD-088_2011	TMD-SO-088/5.5-6	5.5	6	5/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-088_2011	TMD-SO-088/5.5-6	5.5	6	5/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_BonBrae	TMD-088_2011	TMD-SO-088/5.5-6	5.5	6	5/12/2011	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-089_2011	TMD-SO-089/2-3	2	3	5/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-089_2011	TMD-SO-089/2-3	2	3	5/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-089_2011	TMD-SO-089/2-3	2	3	5/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-089_2011	TMD-SO-089/2-3	2	3	5/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-089_2011	TMD-SO-089/2-3	2	3	5/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-089_2011	TMD-SO-089/2-3	2	3	5/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_BonBrae	TMD-089_2011	TMD-SO-089/2-3	2	3	5/12/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_BonBrae	TMD-089_2011	TMD-SO-089/7-8	7	8	5/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.42	U	mg/Kg	0.42	0.42	No
TMD_Utility_TS_BonBrae	TMD-089_2011	TMD-SO-089/7-8	7	8	5/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.42	U	mg/Kg	0.42	0.42	No
TMD_Utility_TS_BonBrae	TMD-089_2011	TMD-SO-089/7-8	7	8	5/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.42	U	mg/Kg	0.42	0.42	No
TMD_Utility_TS_BonBrae	TMD-089_2011	TMD-SO-089/7-8	7	8	5/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.42	U	mg/Kg	0.42	0.42	No
TMD_Utility_TS_BonBrae	TMD-089_2011	TMD-SO-089/7-8	7	8	5/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.42	U	mg/Kg	0.42	0.42	No
TMD_Utility_TS_BonBrae	TMD-089_2011	TMD-SO-089/7-8	7	8	5/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.42	U	mg/Kg	0.42	0.42	No
TMD_Utility_TS_BonBrae	TMD-089_2011	TMD-SO-089/7-8	7	8	5/12/2011	SO	PCB	Total PCBs	TOTPCB	0.42	U	mg/Kg			No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1248	PCB-1248	0.62	=	mg/Kg	0.36	0.36	Yes
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/1-2	1	2	4/26/2011	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/1-2	1	2	4/26/2011	SO	PCB	Total PCBs	TOTPCB	0.8	=	mg/Kg			Yes
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/2-3	2	3	4/26/2011	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/2-3	2	3	4/26/2011	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/5-6	5	6	4/26/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/5-6	5	6	4/26/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/5-6	5	6	4/26/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/5-6	5	6	4/26/2011	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/5-6	5	6	4/26/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/5-6	5	6	4/26/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/5-6	5	6	4/26/2011	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/7-8	7	8	4/26/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/7-8	7	8	4/26/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/7-8	7	8	4/26/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/7-8	7	8	4/26/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/7-8	7	8	4/26/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/7-8	7	8	4/26/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/7-8	7	8	4/26/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/8.5-9.5	8.5	9.5	4/26/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/8.5-9.5	8.5	9.5	4/26/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/8.5-9.5	8.5	9.5	4/26/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/8.5-9.5	8.5	9.5	4/26/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/8.5-9.5	8.5	9.5	4/26/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/8.5-9.5	8.5	9.5	4/26/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Frazho	TMD-051_2011	TMD-SO-051/8.5-9.5	8.5	9.5	4/26/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/2-2.5	2	2.5	5/3/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/2-2.5	2	2.5	5/3/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/2-2.5	2	2.5	5/3/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/2-2.5	2	2.5	5/3/2011	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/2-2.5	2	2.5	5/3/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/2-2.5	2	2.5	5/3/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/2-2.5	2	2.5	5/3/2011	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/3-4	3	4	5/3/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/3-4	3	4	5/3/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/3-4	3	4	5/3/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/3-4	3	4	5/3/2011	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/3-4	3	4	5/3/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/3-4	3	4	5/3/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/3-4	3	4	5/3/2011	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/6-7	6	7	5/3/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/6-7	6	7	5/3/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/6-7	6	7	5/3/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/6-7	6	7	5/3/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/6-7	6	7	5/3/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/6-7	6	7	5/3/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/6-7	6	7	5/3/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/7-8	7	8	5/3/2011	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/7-8	7	8	5/3/2011	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/7-8	7	8	5/3/2011	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/7-8	7	8	5/3/2011	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/7-8	7	8	5/3/2011	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/7-8	7	8	5/3/2011	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/7-8	7	8	5/3/2011	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/8-9	8	9	5/3/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/8-9	8	9	5/3/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/8-9	8	9	5/3/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/8-9	8	9	5/3/2011	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/8-9	8	9	5/3/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/8-9	8	9	5/3/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Frazho	TMD-077_2011	TMD-SO-077/8-9	8	9	5/3/2011	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/0-1	0	1	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/2-3	2	3	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/4-5	4	5	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/6-7	6	7	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/7-8	7	8	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/7-8	7	8	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/7-8	7	8	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/7-8	7	8	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/7-8	7	8	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/7-8	7	8	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-001_2011	TMD-SO-001/7-8	7	8	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-01	TMD-SO-001-01-0/1.0	0	1	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-001-01	TMD-SO-001-01-0/1.0	0	1	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-001-01	TMD-SO-001-01-0/1.0	0	1	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-001-01	TMD-SO-001-01-0/1.0	0	1	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-001-01	TMD-SO-001-01-0/1.0	0	1	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-001-01	TMD-SO-001-01-0/1.0	0	1	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-001-01	TMD-SO-001-01-0/1.0	0	1	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-01	TMD-SO-001-01-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-01	TMD-SO-001-01-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-01	TMD-SO-001-01-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-01	TMD-SO-001-01-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-01	TMD-SO-001-01-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-01	TMD-SO-001-01-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-01	TMD-SO-001-01-5/7	5	7	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-02	TMD-SO-001-02-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-02	TMD-SO-001-02-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-02	TMD-SO-001-02-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-02	TMD-SO-001-02-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-02	TMD-SO-001-02-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-02	TMD-SO-001-02-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-02	TMD-SO-001-02-0.5/1	0.5	1	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-02	TMD-SO-001-02-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-02	TMD-SO-001-02-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-02	TMD-SO-001-02-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-02	TMD-SO-001-02-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-02	TMD-SO-001-02-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-02	TMD-SO-001-02-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-02	TMD-SO-001-02-5/7	5	7	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-03	TMD-SO-001-03-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_Utility_TS_Harper	TMD-001-03	TMD-SO-001-03-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_Utility_TS_Harper	TMD-001-03	TMD-SO-001-03-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Harper	TMD-001-03	TMD-SO-001-03-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.41	U	mg/Kg	0.41	0.41	No
TMD_Utility_TS_Harper	TMD-001-03	TMD-SO-001-03-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_Utility_TS_Harper	TMD-001-03	TMD-SO-001-03-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_Utility_TS_Harper	TMD-001-03	TMD-SO-001-03-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.41	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-03	TMD-SO-001-03-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-03	TMD-SO-001-03-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-03	TMD-SO-001-03-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-03	TMD-SO-001-03-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-03	TMD-SO-001-03-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-03	TMD-SO-001-03-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-03	TMD-SO-001-03-5/7	5	7	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-04	TMD-SO-001-04-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-04	TMD-SO-001-04-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-04	TMD-SO-001-04-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-04	TMD-SO-001-04-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-04	TMD-SO-001-04-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-04	TMD-SO-001-04-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-04	TMD-SO-001-04-0.5/1.0	0.5	1	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-04	TMD-SO-001-04-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-04	TMD-SO-001-04-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-04	TMD-SO-001-04-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-04	TMD-SO-001-04-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-04	TMD-SO-001-04-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-04	TMD-SO-001-04-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-04	TMD-SO-001-04-5/7	5	7	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-05	TMD-SO-001-05-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-05	TMD-SO-001-05-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-05	TMD-SO-001-05-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-05	TMD-SO-001-05-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-05	TMD-SO-001-05-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-05	TMD-SO-001-05-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-05	TMD-SO-001-05-0.5/1	0.5	1	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-05	TMD-SO-001-05-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-05	TMD-SO-001-05-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-05	TMD-SO-001-05-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-05	TMD-SO-001-05-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-05	TMD-SO-001-05-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-05	TMD-SO-001-05-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-05	TMD-SO-001-05-5/7	5	7	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-06	TMD-SO-001-06-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-06	TMD-SO-001-06-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-06	TMD-SO-001-06-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-06	TMD-SO-001-06-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-06	TMD-SO-001-06-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-06	TMD-SO-001-06-0.5/1	0.5	1	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-06	TMD-SO-001-06-0.5/1	0.5	1	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-06	TMD-SO-001-06-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-06	TMD-SO-001-06-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-06	TMD-SO-001-06-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-06	TMD-SO-001-06-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-06	TMD-SO-001-06-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Harper	TMD-001-06	TMD-SO-001-06-5/7	5	7	4/29/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-06	TMD-SO-001-06-5/7	5	7	4/29/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-07	TMD-SO-001-07-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-001-07	TMD-SO-001-07-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-001-07	TMD-SO-001-07-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-001-07	TMD-SO-001-07-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-001-07	TMD-SO-001-07-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-001-07	TMD-SO-001-07-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-001-07	TMD-SO-001-07-0.5/1	0.5	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-07	TMD-SO-001-07-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-07	TMD-SO-001-07-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-07	TMD-SO-001-07-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-07	TMD-SO-001-07-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-07	TMD-SO-001-07-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-07	TMD-SO-001-07-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-07	TMD-SO-001-07-5/7	5	7	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-08	TMD-SO-001-08-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-08	TMD-SO-001-08-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-08	TMD-SO-001-08-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-08	TMD-SO-001-08-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-08	TMD-SO-001-08-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-08	TMD-SO-001-08-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-08	TMD-SO-001-08-0.5/1	0.5	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-08	TMD-SO-001-08-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-08	TMD-SO-001-08-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-08	TMD-SO-001-08-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-08	TMD-SO-001-08-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-08	TMD-SO-001-08-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-08	TMD-SO-001-08-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-08	TMD-SO-001-08-5/7	5	7	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-0.5/1	0.5	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-0.5/1	0.5	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-0.5/1R	0.5	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-0.5/1R	0.5	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-0.5/1R	0.5	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-0.5/1R	0.5	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-0.5/1R	0.5	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-0.5/1R	0.5	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-0.5/1R	0.5	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-001-09	TMD-SO-001-09-5/7	5	7	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Harper	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0225	U	mg/Kg	0.0225	0.132	No
TMD_Utility_TS_Harper	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0225	U	mg/Kg	0.0225	0.132	No
TMD_Utility_TS_Harper	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0225	U	mg/Kg	0.0225	0.132	No
TMD_Utility_TS_Harper	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0225	U	mg/Kg	0.0225	0.132	No
TMD_Utility_TS_Harper	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.907	=	mg/Kg	0.0225	0.132	Yes
TMD_Utility_TS_Harper	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.618	=	mg/Kg	0.0225	0.132	Yes
TMD_Utility_TS_Harper	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0225	U	mg/Kg	0.0225	0.132	No
TMD_Utility_TS_Harper	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0225	U	mg/Kg	0.0225	0.132	No
TMD_Utility_TS_Harper	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0225	U	mg/Kg	0.0225	0.132	No
TMD_Utility_TS_Harper	TMD-001-10	TMD-SO-001-10-0/1	0	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	1.525	=	mg/Kg			Yes
TMD_Utility_TS_Harper	TMD-001-10	TMD-SO-001-10-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-10	TMD-SO-001-10-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-10	TMD-SO-001-10-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-10	TMD-SO-001-10-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-10	TMD-SO-001-10-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-10	TMD-SO-001-10-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-10	TMD-SO-001-10-5/7	5	7	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-11	TMD-SO-001-11-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-11	TMD-SO-001-11-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-11	TMD-SO-001-11-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-11	TMD-SO-001-11-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	1.1	=	mg/Kg	0.38	0.38	Yes
TMD_Utility_TS_Harper	TMD-001-11	TMD-SO-001-11-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-11	TMD-SO-001-11-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-11	TMD-SO-001-11-0/1	0	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	1.29	=	mg/Kg			Yes
TMD_Utility_TS_Harper	TMD-001-11	TMD-SO-001-11-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-11	TMD-SO-001-11-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-11	TMD-SO-001-11-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-11	TMD-SO-001-11-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-11	TMD-SO-001-11-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-11	TMD-SO-001-11-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-001-11	TMD-SO-001-11-5/7	5	7	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-12	TMD-SO-001-12-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_Utility_TS_Harper	TMD-001-12	TMD-SO-001-12-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_Utility_TS_Harper	TMD-001-12	TMD-SO-001-12-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_Utility_TS_Harper	TMD-001-12	TMD-SO-001-12-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	2.8	=	mg/Kg	0.41	0.41	Yes
TMD_Utility_TS_Harper	TMD-001-12	TMD-SO-001-12-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_Utility_TS_Harper	TMD-001-12	TMD-SO-001-12-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No
TMD_Utility_TS_Harper	TMD-001-12	TMD-SO-001-12-0/1	0	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	3.005	=	mg/Kg			Yes
TMD_Utility_TS_Harper	TMD-001-12	TMD-SO-001-12-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-12	TMD-SO-001-12-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-12	TMD-SO-001-12-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-12	TMD-SO-001-12-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-12	TMD-SO-001-12-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-12	TMD-SO-001-12-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-001-12	TMD-SO-001-12-5/7	5	7	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.41	U	mg/Kg	0.41	0.41	No
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.41	U	mg/Kg	0.41	0.41	No
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.41	U	mg/Kg	0.41	0.41	No
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	4.7	=	mg/Kg	0.41	0.41	Yes
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.41	U	mg/Kg	0.41	0.41	No
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-0/1	0	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.41	U	mg/Kg	0.41	0.41	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-0/1	0	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	4.905	=	mg/Kg			Yes
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-0/1R	0	1	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-0/1R	0	1	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-0/1R	0	1	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-0/1R	0	1	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	8.2	=	mg/Kg	0.4	0.4	Yes
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-0/1R	0	1	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-0/1R	0	1	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-0/1R	0	1	4/30/2013	SO	PCB	Total PCBs	TOTPCB	8.4	=	mg/Kg			Yes
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-5/7	5	7	4/30/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-001-13	TMD-SO-001-13-5/7	5	7	4/30/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/0-1	0	1	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/2-3	2	3	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/5-6	5	6	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/5-6	5	6	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/5-6	5	6	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/5-6	5	6	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/5-6	5	6	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/5-6	5	6	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/5-6	5	6	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002_2011	TMD-SO-002/6-7	6	7	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-01	TMD-SO-002-01-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-01	TMD-SO-002-01-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-01	TMD-SO-002-01-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-01	TMD-SO-002-01-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-01	TMD-SO-002-01-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-01	TMD-SO-002-01-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-01	TMD-SO-002-01-5/7	5	7	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-02	TMD-SO-002-02-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0188	U	mg/Kg	0.0188	0.111	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Harper	TMD-002-02	TMD-SO-002-02-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_Utility_TS_Harper	TMD-002-02	TMD-SO-002-02-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_Utility_TS_Harper	TMD-002-02	TMD-SO-002-02-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_Utility_TS_Harper	TMD-002-02	TMD-SO-002-02-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_Utility_TS_Harper	TMD-002-02	TMD-SO-002-02-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_Utility_TS_Harper	TMD-002-02	TMD-SO-002-02-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_Utility_TS_Harper	TMD-002-02	TMD-SO-002-02-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_Utility_TS_Harper	TMD-002-02	TMD-SO-002-02-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0188	U	mg/Kg	0.0188	0.111	No
TMD_Utility_TS_Harper	TMD-002-02	TMD-SO-002-02-5/7	5	7	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.0188	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-03	TMD-SO-002-03-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002-03	TMD-SO-002-03-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002-03	TMD-SO-002-03-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002-03	TMD-SO-002-03-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002-03	TMD-SO-002-03-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002-03	TMD-SO-002-03-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002-03	TMD-SO-002-03-5/7	5	7	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-04	TMD-SO-002-04-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-04	TMD-SO-002-04-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-04	TMD-SO-002-04-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-04	TMD-SO-002-04-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-04	TMD-SO-002-04-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-04	TMD-SO-002-04-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-04	TMD-SO-002-04-5/7	5	7	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-04	TMD-SO-002-04-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-04	TMD-SO-002-04-5/7	5	7	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-05	TMD-SO-002-05-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-05	TMD-SO-002-05-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-05	TMD-SO-002-05-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-05	TMD-SO-002-05-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-05	TMD-SO-002-05-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-05	TMD-SO-002-05-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-05	TMD-SO-002-05-5/7	5	7	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-06	TMD-SO-002-06-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002-06	TMD-SO-002-06-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002-06	TMD-SO-002-06-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002-06	TMD-SO-002-06-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002-06	TMD-SO-002-06-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002-06	TMD-SO-002-06-5/7	5	7	5/1/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002-06	TMD-SO-002-06-5/7	5	7	5/1/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-07	TMD-SO-002-07-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-002-07	TMD-SO-002-07-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-002-07	TMD-SO-002-07-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-002-07	TMD-SO-002-07-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-002-07	TMD-SO-002-07-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-002-07	TMD-SO-002-07-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-002-07	TMD-SO-002-07-5/7	5	7	5/2/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-08	TMD-SO-002-08-3/4.5	3	4.5	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-08	TMD-SO-002-08-3/4.5	3	4.5	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-08	TMD-SO-002-08-3/4.5	3	4.5	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-08	TMD-SO-002-08-3/4.5	3	4.5	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-08	TMD-SO-002-08-3/4.5	3	4.5	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-08	TMD-SO-002-08-3/4.5	3	4.5	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-08	TMD-SO-002-08-3/4.5	3	4.5	5/2/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Harper	TMD-002-08	TMD-SO-002-08-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-08	TMD-SO-002-08-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-08	TMD-SO-002-08-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-08	TMD-SO-002-08-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	2.4	=	mg/Kg	0.38	0.38	Yes
TMD_Utility_TS_Harper	TMD-002-08	TMD-SO-002-08-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-08	TMD-SO-002-08-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-08	TMD-SO-002-08-5/7	5	7	5/2/2013	SO	PCB	Total PCBs	TOTPCB	2.59	=	mg/Kg			Yes
TMD_Utility_TS_Harper	TMD-002-09	TMD-SO-002-09-2.3/2.6	2.3	2.6	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002-09	TMD-SO-002-09-2.3/2.6	2.3	2.6	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002-09	TMD-SO-002-09-2.3/2.6	2.3	2.6	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002-09	TMD-SO-002-09-2.3/2.6	2.3	2.6	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	4.1	=	mg/Kg	0.35	0.35	Yes
TMD_Utility_TS_Harper	TMD-002-09	TMD-SO-002-09-2.3/2.6	2.3	2.6	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002-09	TMD-SO-002-09-2.3/2.6	2.3	2.6	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002-09	TMD-SO-002-09-2.3/2.6	2.3	2.6	5/2/2013	SO	PCB	Total PCBs	TOTPCB	4.275	=	mg/Kg			Yes
TMD_Utility_TS_Harper	TMD-002-09	TMD-SO-002-09-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-002-09	TMD-SO-002-09-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-002-09	TMD-SO-002-09-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-002-09	TMD-SO-002-09-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-002-09	TMD-SO-002-09-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-002-09	TMD-SO-002-09-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-002-09	TMD-SO-002-09-5/7	5	7	5/2/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-10	TMD-SO-002-10-5/7	5	7	5/3/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002-10	TMD-SO-002-10-5/7	5	7	5/3/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002-10	TMD-SO-002-10-5/7	5	7	5/3/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002-10	TMD-SO-002-10-5/7	5	7	5/3/2013	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002-10	TMD-SO-002-10-5/7	5	7	5/3/2013	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002-10	TMD-SO-002-10-5/7	5	7	5/3/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-002-10	TMD-SO-002-10-5/7	5	7	5/3/2013	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-11	TMD-SO-002-11-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-11	TMD-SO-002-11-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-11	TMD-SO-002-11-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-11	TMD-SO-002-11-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-11	TMD-SO-002-11-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-11	TMD-SO-002-11-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-11	TMD-SO-002-11-5/7	5	7	5/2/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-12	TMD-SO-002-12-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-12	TMD-SO-002-12-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-12	TMD-SO-002-12-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-12	TMD-SO-002-12-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-12	TMD-SO-002-12-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-12	TMD-SO-002-12-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-12	TMD-SO-002-12-5/7	5	7	5/2/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-13	TMD-SO-002-13-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-13	TMD-SO-002-13-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-13	TMD-SO-002-13-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-13	TMD-SO-002-13-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-13	TMD-SO-002-13-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-13	TMD-SO-002-13-5/7	5	7	5/2/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-13	TMD-SO-002-13-5/7	5	7	5/2/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-14	TMD-SO-002-14-5/7	5	7	5/3/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-14	TMD-SO-002-14-5/7	5	7	5/3/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Harper	TMD-002-14	TMD-SO-002-14-5/7	5	7	5/3/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-14	TMD-SO-002-14-5/7	5	7	5/3/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-14	TMD-SO-002-14-5/7	5	7	5/3/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-14	TMD-SO-002-14-5/7	5	7	5/3/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-14	TMD-SO-002-14-5/7	5	7	5/3/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-15	TMD-SO-002-15-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-15	TMD-SO-002-15-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-15	TMD-SO-002-15-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-15	TMD-SO-002-15-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-15	TMD-SO-002-15-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-15	TMD-SO-002-15-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-15	TMD-SO-002-15-5/7	5	7	5/6/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-15	TMD-SO-002-15-5/7R	5	7	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-15	TMD-SO-002-15-5/7R	5	7	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-15	TMD-SO-002-15-5/7R	5	7	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-15	TMD-SO-002-15-5/7R	5	7	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-15	TMD-SO-002-15-5/7R	5	7	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-15	TMD-SO-002-15-5/7R	5	7	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Harper	TMD-002-15	TMD-SO-002-15-5/7R	5	7	5/6/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-16	TMD-SO-002-16-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-16	TMD-SO-002-16-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-16	TMD-SO-002-16-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-16	TMD-SO-002-16-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-16	TMD-SO-002-16-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-16	TMD-SO-002-16-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-16	TMD-SO-002-16-5/7	5	7	5/6/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-17	TMD-SO-002-17-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-17	TMD-SO-002-17-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-17	TMD-SO-002-17-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-17	TMD-SO-002-17-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-17	TMD-SO-002-17-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-17	TMD-SO-002-17-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-002-17	TMD-SO-002-17-5/7	5	7	5/6/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-18	TMD-SO-002-18-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-18	TMD-SO-002-18-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-18	TMD-SO-002-18-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-18	TMD-SO-002-18-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-18	TMD-SO-002-18-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-18	TMD-SO-002-18-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-18	TMD-SO-002-18-5/7	5	7	5/6/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-19	TMD-SO-002-19-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002-19	TMD-SO-002-19-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002-19	TMD-SO-002-19-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002-19	TMD-SO-002-19-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002-19	TMD-SO-002-19-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002-19	TMD-SO-002-19-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-002-19	TMD-SO-002-19-5/7	5	7	5/6/2013	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-20	TMD-SO-002-20-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-002-20	TMD-SO-002-20-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-002-20	TMD-SO-002-20-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-002-20	TMD-SO-002-20-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Harper	TMD-002-20	TMD-SO-002-20-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-002-20	TMD-SO-002-20-5/7	5	7	5/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-002-20	TMD-SO-002-20-5/7	5	7	5/6/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-002-26	TMD-SO-002-26-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-26	TMD-SO-002-26-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-26	TMD-SO-002-26-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-26	TMD-SO-002-26-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	6.3	=	mg/Kg	0.38	0.38	Yes
TMD_Utility_TS_Harper	TMD-002-26	TMD-SO-002-26-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-26	TMD-SO-002-26-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-26	TMD-SO-002-26-5/7	5	7	5/7/2013	SO	PCB	Total PCBs	TOTPCB	6.49	=	mg/Kg			Yes
TMD_Utility_TS_Harper	TMD-002-26	TMD-SO-002-26-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-26	TMD-SO-002-26-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-26	TMD-SO-002-26-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-26	TMD-SO-002-26-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-26	TMD-SO-002-26-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-26	TMD-SO-002-26-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-002-26	TMD-SO-002-26-8/10	8	10	5/7/2013	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/0-1	0	2	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/0-1	0	2	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/0-1	0	2	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/0-1	0	2	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/0-1	0	2	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/0-1	0	2	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/0-1	0	2	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/2-3	2	3	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/4-5	4	5	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/5-6	5	6	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/5-6	5	6	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/5-6	5	6	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/5-6	5	6	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/5-6	5	6	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/5-6	5	6	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-003_2011	TMD-SO-003/5-6	5	6	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/0-1	0	1	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/2-3	2	3	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.42	U	mg/Kg	0.42	0.42	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.42	U	mg/Kg	0.42	0.42	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.42	U	mg/Kg	0.42	0.42	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.42	U	mg/Kg	0.42	0.42	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.42	U	mg/Kg	0.42	0.42	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.42	U	mg/Kg	0.42	0.42	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/4-5	4	5	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.42	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/6-7	6	7	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/6-7	6	7	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/7-8	7	8	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/7-8	7	8	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/7-8	7	8	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/7-8	7	8	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/7-8	7	8	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/7-8	7	8	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-004_2011	TMD-SO-004/7-8	7	8	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/0-1	0	1	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/0-1	0	1	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/2-3	2	3	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/2-3	2	3	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/4-5	4	5	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/4-5	4	5	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/7.5-8.5	7.5	8.5	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/7.5-8.5	7.5	8.5	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/7.5-8.5	7.5	8.5	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/7.5-8.5	7.5	8.5	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/7.5-8.5	7.5	8.5	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/7.5-8.5	7.5	8.5	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/7.5-8.5	7.5	8.5	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/8.5-9.5	8.5	9.5	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/8.5-9.5	8.5	9.5	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/8.5-9.5	8.5	9.5	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/8.5-9.5	8.5	9.5	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/8.5-9.5	8.5	9.5	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/8.5-9.5	8.5	9.5	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/8.5-9.5	8.5	9.5	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.28	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/9.5-10	9.5	10	4/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/9.5-10	9.5	10	4/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/9.5-10	9.5	10	4/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/9.5-10	9.5	10	4/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/9.5-10	9.5	10	4/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/9.5-10	9.5	10	4/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-005_2011	TMD-SO-005/9.5-10	9.5	10	4/11/2011	SO	PCB	Total PCBs	TOTPCB	0.28	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/1-2	1	2	4/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/1-2	1	2	4/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/1-2	1	2	4/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/1-2	1	2	4/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/1-2	1	2	4/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/1-2	1	2	4/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/1-2	1	2	4/12/2011	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/2-3	2	3	4/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/2-3	2	3	4/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/2-3	2	3	4/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/2-3	2	3	4/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/2-3	2	3	4/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/2-3	2	3	4/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/2-3	2	3	4/12/2011	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/5-6	5	6	4/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/5-6	5	6	4/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/5-6	5	6	4/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/5-6	5	6	4/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/5-6	5	6	4/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/5-6	5	6	4/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/5-6	5	6	4/12/2011	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-006_2011	TMD-SO-006/6-7	6	7	4/12/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/0-1	0	1	4/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/0-1	0	1	4/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/0-1	0	1	4/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/0-1	0	1	4/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/0-1	0	1	4/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/0-1	0	1	4/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/0-1	0	1	4/12/2011	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/2-3	2	3	4/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/2-3	2	3	4/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/2-3	2	3	4/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/2-3	2	3	4/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/2-3	2	3	4/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/2-3	2	3	4/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/2-3	2	3	4/12/2011	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/4-5	4	5	4/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/4-5	4	5	4/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/4-5	4	5	4/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/4-5	4	5	4/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/4-5	4	5	4/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/4-5	4	5	4/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/4-5	4	5	4/12/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/6-7	6	7	4/12/2011	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/7-8	7	8	4/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/7-8	7	8	4/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/7-8	7	8	4/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/7-8	7	8	4/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/7-8	7	8	4/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/7-8	7	8	4/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/7-8	7	8	4/12/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/9-10	9	10	4/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/9-10	9	10	4/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/9-10	9	10	4/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/9-10	9	10	4/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/9-10	9	10	4/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/9-10	9	10	4/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-007_2011	TMD-SO-007/9-10	9	10	4/12/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/0-1	0	1	4/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/0-1	0	1	4/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/0-1	0	1	4/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/0-1	0	1	4/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/0-1	0	1	4/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/0-1	0	1	4/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/0-1	0	1	4/12/2011	SO	PCB	Total PCBs	TOTPCB	0.24	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/6-7	6	7	4/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/6-7	6	7	4/12/2011	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/7-8	7	8	4/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/7-8	7	8	4/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/7-8	7	8	4/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/7-8	7	8	4/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/7-8	7	8	4/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/7-8	7	8	4/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-008_2011	TMD-SO-008/7-8	7	8	4/12/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/1-2	1	2	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/1-2	1	2	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/1-2	1	2	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/1-2	1	2	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	J	mg/Kg	0.29	0.29	Yes
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/1-2	1	2	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/1-2	1	2	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/1-2	1	2	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.435	=	mg/Kg			Yes
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/2-3	2	3	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.23	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/4-5	4	5	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/4-5	4	5	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/4-5	4	5	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/4-5	4	5	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/4-5	4	5	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/4-5	4	5	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/4-5	4	5	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/5-6	5	6	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/6-7	6	7	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/7-8	7	8	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/7-8	7	8	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/7-8	7	8	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/7-8	7	8	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/7-8	7	8	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/7-8	7	8	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-009_2011	TMD-SO-009/7-8	7	8	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.56	=	mg/Kg	0.34	0.34	Yes
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/0-1	0	1	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.73	=	mg/Kg			Yes
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/2-2.5	2	2.5	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/2-2.5	2	2.5	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/2-2.5	2	2.5	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/2-2.5	2	2.5	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.18	J	mg/Kg	0.28	0.28	Yes
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/2-2.5	2	2.5	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/2-2.5	2	2.5	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/2-2.5	2	2.5	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.32	=	mg/Kg			Yes
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/6-7	6	7	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.25	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/7-8	7	8	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/7-8	7	8	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/7-8	7	8	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/7-8	7	8	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/7-8	7	8	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/7-8	7	8	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-010_2011	TMD-SO-010/7-8	7	8	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.28	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	2	=	mg/Kg	0.38	0.38	Yes
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/0-1	0	1	4/13/2011	SO	PCB	Total PCBs	TOTPCB	2.19	=	mg/Kg			Yes
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/1-2	1	2	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/1-2	1	2	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/1-2	1	2	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/1-2	1	2	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/1-2	1	2	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/1-2	1	2	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/1-2	1	2	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/5-6	5	6	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.28	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-011_2011	TMD-SO-011/6-7	6	7	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.97	=	mg/Kg	0.32	0.32	Yes
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/0-1	0	1	4/13/2011	SO	PCB	Total PCBs	TOTPCB	1.13	=	mg/Kg			Yes
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/2-3	2	3	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/5-6	5	6	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-012_2011	TMD-SO-012/6-7	6	7	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/0-1	0	1	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/2-3	2	3	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.22	U	mg/Kg	0.22	0.22	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/5-6	5	6	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/5-6	5	6	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.22	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Harper	TMD-013_2011	TMD-SO-013/6-7	6	7	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	J	mg/Kg	0.38	0.38	Yes
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/0-1	0	1	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/0-1	0	1	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.51	=	mg/Kg			Yes
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/2-3	2	3	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/2-3	2	3	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/4-5	4	5	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/4-5	4	5	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/4-5	4	5	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/4-5	4	5	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/4-5	4	5	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/4-5	4	5	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/4-5	4	5	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/6-7	6	7	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/6-7	6	7	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/8-9	8	9	4/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/8-9	8	9	4/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/8-9	8	9	4/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/8-9	8	9	4/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/8-9	8	9	4/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/8-9	8	9	4/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Harper	TMD-014_2011	TMD-SO-014/8-9	8	9	4/13/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_Harper	TMD-042	TMD-SO-042-0/1	0	1	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-042	TMD-SO-042-0/1	0	1	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-042	TMD-SO-042-0/1	0	1	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-042	TMD-SO-042-0/1	0	1	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	1.4	=	mg/Kg	0.31	0.31	Yes
TMD_Utility_TS_Harper	TMD-042	TMD-SO-042-0/1	0	1	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-042	TMD-SO-042-0/1	0	1	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Harper	TMD-042	TMD-SO-042-0/1	0	1	5/22/2013	SO	PCB	Total PCBs	TOTPCB	1.555	=	mg/Kg			Yes
TMD_Utility_TS_Harper	TMD-042	TMD-SO-042-2/3	2	3	5/22/2013	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-042	TMD-SO-042-2/3	2	3	5/22/2013	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-042	TMD-SO-042-2/3	2	3	5/22/2013	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-042	TMD-SO-042-2/3	2	3	5/22/2013	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-042	TMD-SO-042-2/3	2	3	5/22/2013	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-042	TMD-SO-042-2/3	2	3	5/22/2013	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Harper	TMD-042	TMD-SO-042-2/3	2	3	5/22/2013	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	89	=	mg/Kg	0.39	0.39	Yes
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-0/1	0	1	5/7/2013	SO	PCB	Total PCBs	TOTPCB	89.195	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-1/2.5	1	2.5	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-1/2.5	1	2.5	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-1/2.5	1	2.5	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-1/2.5	1	2.5	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	3.3	=	mg/Kg	0.4	0.4	Yes
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-1/2.5	1	2.5	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-1/2.5	1	2.5	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-1/2.5	1	2.5	5/7/2013	SO	PCB	Total PCBs	TOTPCB	3.5	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-1/2.5R	1	2.5	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-1/2.5R	1	2.5	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-1/2.5R	1	2.5	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-1/2.5R	1	2.5	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	1.9	=	mg/Kg	0.39	0.39	Yes
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-1/2.5R	1	2.5	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-1/2.5R	1	2.5	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-1/2.5R	1	2.5	5/7/2013	SO	PCB	Total PCBs	TOTPCB	2.095	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-5/7	5	7	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-5/7	5	7	5/7/2013	SO	PCB	Total PCBs	TOTPCB	0.4	U	mg/Kg			No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-002-27	TMD-SO-002-27-8/10	8	10	5/7/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	38	=	mg/Kg	0.38	0.38	Yes
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-0/1	0	1	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-0/1	0	1	5/7/2013	SO	PCB	Total PCBs	TOTPCB	38.19	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-2/3.5	2	3.5	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-2/3.5	2	3.5	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-2/3.5	2	3.5	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-2/3.5	2	3.5	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.41	=	mg/Kg	0.32	0.32	Yes
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-2/3.5	2	3.5	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-2/3.5	2	3.5	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-2/3.5	2	3.5	5/7/2013	SO	PCB	Total PCBs	TOTPCB	0.57	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-5/6	5	6	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0217	U	mg/Kg	0.0217	0.128	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-5/6	5	6	5/7/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0217	U	mg/Kg	0.0217	0.128	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-5/6	5	6	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0217	U	mg/Kg	0.0217	0.128	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-5/6	5	6	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0217	U	mg/Kg	0.0217	0.128	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-5/6	5	6	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	2.8	=	mg/Kg	0.45	0.45	Yes
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-5/6	5	6	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	1	=	mg/Kg	0.0217	0.128	Yes
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-5/6	5	6	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0217	U	mg/Kg	0.0217	0.128	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-5/6	5	6	5/7/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0217	U	mg/Kg	0.0217	0.128	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-5/6	5	6	5/7/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0217	U	mg/Kg	0.0217	0.128	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-5/6	5	6	5/7/2013	SO	PCB	Total PCBs	TOTPCB	3.8	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.31	J	mg/Kg	0.38	0.38	Yes
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-8/10	8	10	5/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-002-28	TMD-SO-002-28-8/10	8	10	5/7/2013	SO	PCB	Total PCBs	TOTPCB	0.5	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1248	PCB-1248	14	=	mg/Kg	0.36	0.36	Yes
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-0/0.5	0	0.5	6/5/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-0/0.5	0	0.5	6/5/2013	SO	PCB	Total PCBs	TOTPCB	14.18	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	1.1	=	mg/Kg	0.33	0.33	Yes
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-1.5/2	1.5	2	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-1.5/2	1.5	2	6/6/2013	SO	PCB	Total PCBs	TOTPCB	1.265	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1248	PCB-1248	2.4	=	mg/Kg	0.36	0.36	Yes
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-1/1.5	1	1.5	6/5/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-044	TMD-SO-044-1/1.5	1	1.5	6/5/2013	SO	PCB	Total PCBs	TOTPCB	2.58	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1248	PCB-1248	3.3	=	mg/Kg	0.35	0.35	Yes
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-0/0.5	0	0.5	6/4/2013	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-0/0.5	0	0.5	6/4/2013	SO	PCB	Total PCBs	TOTPCB	3.475	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1248	PCB-1248	0.84	=	mg/Kg	0.36	0.36	Yes
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-1.5/2	1.5	2	6/5/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-1.5/2	1.5	2	6/5/2013	SO	PCB	Total PCBs	TOTPCB	1.02	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1248	PCB-1248	3	=	mg/Kg	0.38	0.38	Yes
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-1/1.5	1	1.5	6/4/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-050	TMD-SO-050-1/1.5	1	1.5	6/4/2013	SO	PCB	Total PCBs	TOTPCB	3.19	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/0-1	0	1	4/26/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/0-1	0	1	4/26/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/0-1	0	1	4/26/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/0-1	0	1	4/26/2011	SO	PCB	Aroclor-1248	PCB-1248	2.4	=	mg/Kg	0.27	0.27	Yes
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/0-1	0	1	4/26/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/0-1	0	1	4/26/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/0-1	0	1	4/26/2011	SO	PCB	Total PCBs	TOTPCB	2.535	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/2-2.4	2	2.4	4/26/2011	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/2-2.4	2	2.4	4/26/2011	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/2-2.4	2	2.4	4/26/2011	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/2-2.4	2	2.4	4/26/2011	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/2-2.4	2	2.4	4/26/2011	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/2-2.4	2	2.4	4/26/2011	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/2-2.4	2	2.4	4/26/2011	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/6-7	6	7	4/26/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/6-7	6	7	4/26/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/6-7	6	7	4/26/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/6-7	6	7	4/26/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/6-7	6	7	4/26/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/6-7	6	7	4/26/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/6-7	6	7	4/26/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/7.5-8.5	7.5	8.5	4/26/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/7.5-8.5	7.5	8.5	4/26/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/7.5-8.5	7.5	8.5	4/26/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/7.5-8.5	7.5	8.5	4/26/2011	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/7.5-8.5	7.5	8.5	4/26/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/7.5-8.5	7.5	8.5	4/26/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_Lakeland	TMD-050_2011	TMD-SO-050/7.5-8.5	7.5	8.5	4/26/2011	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	8.7	=	mg/Kg	0.39	0.39	Yes
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-0/0.5	0	0.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-0/0.5	0	0.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	8.895	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.108	U	mg/Kg	0.108	0.633	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1221	PCB-1221	0.108	U	mg/Kg	0.108	0.633	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.108	U	mg/Kg	0.108	0.633	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.108	U	mg/Kg	0.108	0.633	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1248	PCB-1248	0.108	U	mg/Kg	0.108	0.633	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1254	PCB-1254	0.19	=	mg/Kg	0.108	0.633	Yes
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.108	U	mg/Kg	0.108	0.633	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1262	PCB-1262	0.108	U	mg/Kg	0.108	0.633	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1268	PCB-1268	0.108	U	mg/Kg	0.108	0.633	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1.5/2	1.5	2	6/7/2013	SO	PCB	Total PCBs	TOTPCB	0.244	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0949	U	mg/Kg	0.0949	0.34	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0949	U	mg/Kg	0.0949	0.558	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0949	U	mg/Kg	0.0949	0.34	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0949	U	mg/Kg	0.0949	0.34	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1248	PCB-1248	2.07	=	mg/Kg	0.0949	0.558	Yes
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1254	PCB-1254	1.9	J	mg/Kg	0.34	0.34	Yes
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0949	U	mg/Kg	0.0949	0.34	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0949	U	mg/Kg	0.0949	0.558	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0949	U	mg/Kg	0.0949	0.558	No
TMD_Utility_TS_Lakeland	TMD-051	TMD-SO-051-1/1.5	1	1.5	6/6/2013	SO	PCB	Total PCBs	TOTPCB	3.97	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1016	PCB-1016	0.101	U	mg/Kg	0.101	0.593	No
TMD_Utility_TS_Lakeland	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1221	PCB-1221	0.101	U	mg/Kg	0.101	0.593	No
TMD_Utility_TS_Lakeland	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1232	PCB-1232	0.101	U	mg/Kg	0.101	0.593	No
TMD_Utility_TS_Lakeland	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1242	PCB-1242	0.101	U	mg/Kg	0.101	0.593	No
TMD_Utility_TS_Lakeland	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1248	PCB-1248	7.29	=	mg/Kg	0.101	0.593	Yes
TMD_Utility_TS_Lakeland	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1254	PCB-1254	4.6	=	mg/Kg	0.101	0.593	Yes
TMD_Utility_TS_Lakeland	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1260	PCB-1260	0.101	U	mg/Kg	0.101	0.593	No
TMD_Utility_TS_Lakeland	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1262	PCB-1262	0.101	U	mg/Kg	0.101	0.593	No
TMD_Utility_TS_Lakeland	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Aroclor-1268	PCB-1268	0.101	U	mg/Kg	0.101	0.593	No
TMD_Utility_TS_Lakeland	TMD-053	TMD-SO-053-1.5/2	1.5	2	6/7/2013	SO	PCB	Total PCBs	TOTPCB	11.89	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-057	TMD-SO-057-2.5/3	2.5	3	9/9/2013	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-057	TMD-SO-057-2.5/3	2.5	3	9/9/2013	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-057	TMD-SO-057-2.5/3	2.5	3	9/9/2013	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-057	TMD-SO-057-2.5/3	2.5	3	9/9/2013	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-057	TMD-SO-057-2.5/3	2.5	3	9/9/2013	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-057	TMD-SO-057-2.5/3	2.5	3	9/9/2013	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-057	TMD-SO-057-2.5/3	2.5	3	9/9/2013	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.92	=	mg/Kg	0.37	0.37	Yes
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.78	=	mg/Kg	0.37	0.37	Yes
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-0/0.5	0	0.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-0/0.5	0	0.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	1.7	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.28	J	mg/Kg	0.36	0.36	Yes
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-1/1.5	1	1.5	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-1/1.5	1	1.5	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.46	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-2.5/3	2.5	3	9/10/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0181	U	mg/Kg	0.0181	0.106	No
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-2.5/3	2.5	3	9/10/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0181	U	mg/Kg	0.0181	0.106	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-2.5/3	2.5	3	9/10/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0181	U	mg/Kg	0.0181	0.106	No
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-2.5/3	2.5	3	9/10/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0181	U	mg/Kg	0.0181	0.106	No
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-2.5/3	2.5	3	9/10/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0435	J	mg/Kg	0.0181	0.106	Yes
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-2.5/3	2.5	3	9/10/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0181	U	mg/Kg	0.0181	0.106	No
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-2.5/3	2.5	3	9/10/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0181	U	mg/Kg	0.0181	0.106	No
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-2.5/3	2.5	3	9/10/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0181	U	mg/Kg	0.0181	0.106	No
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-2.5/3	2.5	3	9/10/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0181	U	mg/Kg	0.0181	0.106	No
TMD_Utility_TS_Lakeland	TMD-059	TMD-SO-059-2.5/3	2.5	3	9/10/2013	SO	PCB	Total PCBs	TOTPCB	0.05255	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	1.4	=	mg/Kg	0.34	0.34	Yes
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	1.3	=	mg/Kg	0.34	0.34	Yes
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-0/0.5	0	0.5	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-0/0.5	0	0.5	9/11/2013	SO	PCB	Total PCBs	TOTPCB	2.7	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	0.29	J	mg/Kg	0.3	0.3	Yes
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	0.24	J	mg/Kg	0.3	0.3	Yes
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-1/1.5	1	1.5	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-1/1.5	1	1.5	9/11/2013	SO	PCB	Total PCBs	TOTPCB	0.53	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-061	TMD-SO-061-2.5/3	2.5	3	9/11/2013	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_Utility_TS_Lakeland	TMD-063	TMD-SO-063-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-063	TMD-SO-063-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-063	TMD-SO-063-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-063	TMD-SO-063-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-063	TMD-SO-063-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-063	TMD-SO-063-2.5/3	2.5	3	9/11/2013	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-063	TMD-SO-063-2.5/3	2.5	3	9/11/2013	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_Utility_TS_Lakeland	TMD-065	TMD-SO-065-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-065	TMD-SO-065-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-065	TMD-SO-065-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-065	TMD-SO-065-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1248	PCB-1248	0.23	J	mg/Kg	0.37	0.37	Yes
TMD_Utility_TS_Lakeland	TMD-065	TMD-SO-065-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-065	TMD-SO-065-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_Lakeland	TMD-065	TMD-SO-065-2.5/3	2.5	3	9/12/2013	SO	PCB	Total PCBs	TOTPCB	0.415	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-068	TMD-SO-068-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-068	TMD-SO-068-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-068	TMD-SO-068-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-068	TMD-SO-068-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1248	PCB-1248	0.23	J	mg/Kg	0.38	0.38	Yes
TMD_Utility_TS_Lakeland	TMD-068	TMD-SO-068-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-068	TMD-SO-068-2.5/3	2.5	3	9/12/2013	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_Lakeland	TMD-068	TMD-SO-068-2.5/3	2.5	3	9/12/2013	SO	PCB	Total PCBs	TOTPCB	0.42	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-069	TMD-SO-069-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Lakeland	TMD-069	TMD-SO-069-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-069	TMD-SO-069-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-069	TMD-SO-069-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-069	TMD-SO-069-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-069	TMD-SO-069-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-069	TMD-SO-069-2.5/3	2.5	3	9/13/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	3	=	mg/Kg	0.31	0.31	Yes
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	2.6	=	mg/Kg	0.31	0.31	Yes
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-0/0.5	0	0.5	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-0/0.5	0	0.5	9/13/2013	SO	PCB	Total PCBs	TOTPCB	5.6	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-1/1.5	1	1.5	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-1/1.5	1	1.5	9/13/2013	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1016	PCB-1016	0.31	UJ	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1232	PCB-1232	0.31	UJ	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1242	PCB-1242	0.31	UJ	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1248	PCB-1248	0.31	UJ	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1254	PCB-1254	0.31	UJ	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-2.5/3	2.5	3	9/13/2013	SO	PCB	Aroclor-1260	PCB-1260	0.31	UJ	mg/Kg	0.31	0.31	No
TMD_Utility_TS_Lakeland	TMD-071	TMD-SO-071-2.5/3	2.5	3	9/13/2013	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_Lakeland	TMD-079	TMD-SO-079-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-079	TMD-SO-079-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-079	TMD-SO-079-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-079	TMD-SO-079-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-079	TMD-SO-079-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-079	TMD-SO-079-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_Lakeland	TMD-079	TMD-SO-079-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Utility_TS_Lakeland	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_Utility_TS_Lakeland	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1221	PCB-1221	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_Utility_TS_Lakeland	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_Utility_TS_Lakeland	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_Utility_TS_Lakeland	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_Utility_TS_Lakeland	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_Utility_TS_Lakeland	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_Utility_TS_Lakeland	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1262	PCB-1262	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_Utility_TS_Lakeland	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1268	PCB-1268	0.0192	U	mg/Kg	0.0192	0.113	No
TMD_Utility_TS_Lakeland	TMD-079	TMD-SO-079-1/1.5	1	1.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.0192	U	mg/Kg			No
TMD_Utility_TS_Lakeland	TMD-081	TMD-SO-081-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-081	TMD-SO-081-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-081	TMD-SO-081-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-081	TMD-SO-081-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.2	J	mg/Kg	0.26	0.26	Yes
TMD_Utility_TS_Lakeland	TMD-081	TMD-SO-081-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.27	J	mg/Kg	0.26	0.26	Yes
TMD_Utility_TS_Lakeland	TMD-081	TMD-SO-081-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-081	TMD-SO-081-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.47	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_Lakeland	TMD-081	TMD-SO-081-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Lakeland	TMD-081	TMD-SO-081-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Lakeland	TMD-081	TMD-SO-081-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Lakeland	TMD-081	TMD-SO-081-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Lakeland	TMD-081	TMD-SO-081-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Lakeland	TMD-081	TMD-SO-081-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_Lakeland	TMD-081	TMD-SO-081-1/1.5	1	1.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_Lakeland	TMD-083	TMD-SO-083-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-083	TMD-SO-083-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-083	TMD-SO-083-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-083	TMD-SO-083-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-083	TMD-SO-083-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-083	TMD-SO-083-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_Lakeland	TMD-083	TMD-SO-083-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_Utility_TS_Lakeland	TMD-083	TMD-SO-083-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-083	TMD-SO-083-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-083	TMD-SO-083-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-083	TMD-SO-083-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-083	TMD-SO-083-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-083	TMD-SO-083-1/1.5	1	1.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-083	TMD-SO-083-1/1.5	1	1.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_Utility_TS_Lakeland	TMD-085	TMD-SO-085-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Lakeland	TMD-085	TMD-SO-085-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Lakeland	TMD-085	TMD-SO-085-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Lakeland	TMD-085	TMD-SO-085-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	3.4	=	mg/Kg	0.28	0.28	Yes
TMD_Utility_TS_Lakeland	TMD-085	TMD-SO-085-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	2.2	=	mg/Kg	0.28	0.28	Yes
TMD_Utility_TS_Lakeland	TMD-085	TMD-SO-085-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_Lakeland	TMD-085	TMD-SO-085-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	5.6	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-086	TMD-SO-086-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_Lakeland	TMD-086	TMD-SO-086-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_Lakeland	TMD-086	TMD-SO-086-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_Lakeland	TMD-086	TMD-SO-086-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	1.5	=	mg/Kg	0.25	0.25	Yes
TMD_Utility_TS_Lakeland	TMD-086	TMD-SO-086-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_Lakeland	TMD-086	TMD-SO-086-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_Lakeland	TMD-086	TMD-SO-086-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	1.625	=	mg/Kg			Yes
TMD_Utility_TS_Lakeland	TMD-087	TMD-SO-087-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-087	TMD-SO-087-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-087	TMD-SO-087-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-087	TMD-SO-087-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1248	PCB-1248	0.84	=	mg/Kg	0.26	0.26	Yes
TMD_Utility_TS_Lakeland	TMD-087	TMD-SO-087-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1254	PCB-1254	0.75	=	mg/Kg	0.26	0.26	Yes
TMD_Utility_TS_Lakeland	TMD-087	TMD-SO-087-0/0.5	0	0.5	9/19/2013	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_Lakeland	TMD-087	TMD-SO-087-0/0.5	0	0.5	9/19/2013	SO	PCB	Total PCBs	TOTPCB	1.59	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/4-5	4	5	4/14/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/4-5	4	5	4/14/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/4-5	4	5	4/14/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/4-5	4	5	4/14/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/4-5	4	5	4/14/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/4-5	4	5	4/14/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/4-5	4	5	4/14/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/5-6	5	6	4/14/2011	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/5-6	5	6	4/14/2011	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/5-6	5	6	4/14/2011	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/5-6	5	6	4/14/2011	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/5-6	5	6	4/14/2011	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/5-6	5	6	4/14/2011	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/5-6	5	6	4/14/2011	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-015_2011	TMD-SO-015/6-7	6	7	4/14/2011	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1248	PCB-1248	3.3	=	mg/Kg	0.34	0.34	Yes
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/0-1	0	1	4/14/2011	SO	PCB	Total PCBs	TOTPCB	3.47	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1248	PCB-1248	130	=	mg/Kg	3.6	3.6	Yes
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/2-3	2	3	4/14/2011	SO	PCB	Total PCBs	TOTPCB	130.18	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1248	PCB-1248	4.7	=	mg/Kg	0.39	0.39	Yes
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_TMD	TMD-016_2011	TMD-SO-016/6-7	6	7	4/14/2011	SO	PCB	Total PCBs	TOTPCB	4.895	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1248	PCB-1248	1.3	=	mg/Kg	0.4	0.4	Yes
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/0-1	0	1	4/14/2011	SO	PCB	Total PCBs	TOTPCB	1.5	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1248	PCB-1248	2.1	=	mg/Kg	0.25	0.25	Yes
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/2-3	2	3	4/14/2011	SO	PCB	Total PCBs	TOTPCB	2.225	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-017_2011	TMD-SO-017/6-7	6	7	4/14/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/0-1	0	1	4/14/2011	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/0-1	0	1	4/14/2011	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/2-3	2	3	4/14/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/2-3	2	3	4/14/2011	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/6-7	6	7	4/14/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-018_2011	TMD-SO-018/6-7	6	7	4/14/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	0.99	=	mg/Kg	0.28	0.28	Yes
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/0-1	0	1	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/0-1	0	1	4/15/2011	SO	PCB	Total PCBs	TOTPCB	1.13	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	3.2	=	mg/Kg	0.3	0.3	Yes
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/2-3	2	3	4/15/2011	SO	PCB	Total PCBs	TOTPCB	3.35	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/7-8	7	8	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/7-8	7	8	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/7-8	7	8	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/7-8	7	8	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	1.3	=	mg/Kg	0.36	0.36	Yes
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/7-8	7	8	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/7-8	7	8	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-019_2011	TMD-SO-019/7-8	7	8	4/15/2011	SO	PCB	Total PCBs	TOTPCB	1.48	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	0.17	J	mg/Kg	0.28	0.28	Yes
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/1-2	1	2	4/15/2011	SO	PCB	Total PCBs	TOTPCB	0.31	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	0.25	J	mg/Kg	0.27	0.27	Yes
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/2-3	2	3	4/15/2011	SO	PCB	Total PCBs	TOTPCB	0.385	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	2.6	=	mg/Kg	0.33	0.33	Yes
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-020_2011	TMD-SO-020/6-7	6	7	4/15/2011	SO	PCB	Total PCBs	TOTPCB	2.765	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	3.3	=	mg/Kg	0.32	0.32	Yes
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/1-2	1	2	4/15/2011	SO	PCB	Total PCBs	TOTPCB	3.46	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	3.2	=	mg/Kg	0.28	0.28	Yes
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/2-3	2	3	4/15/2011	SO	PCB	Total PCBs	TOTPCB	3.34	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.21	U	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.21	U	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.21	U	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	0.38	=	mg/Kg	0.21	0.21	Yes
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.21	U	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.21	U	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-023_2011	TMD-SO-023/6-7	6	7	4/15/2011	SO	PCB	Total PCBs	TOTPCB	0.485	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	7.2	=	mg/Kg	0.27	0.27	Yes
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/1-2	1	2	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/1-2	1	2	4/15/2011	SO	PCB	Total PCBs	TOTPCB	7.335	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	7.1	=	mg/Kg	0.25	0.25	Yes
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/2-3	2	3	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/2-3	2	3	4/15/2011	SO	PCB	Total PCBs	TOTPCB	7.225	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1016	PCB-1016	0.23	U	mg/Kg	0.23	0.23	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1232	PCB-1232	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1242	PCB-1242	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1248	PCB-1248	0.8	=	mg/Kg	0.23	0.23	Yes
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1254	PCB-1254	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/6-7	6	7	4/15/2011	SO	PCB	Aroclor-1260	PCB-1260	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-024_2011	TMD-SO-024/6-7	6	7	4/15/2011	SO	PCB	Total PCBs	TOTPCB	0.915	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1248	PCB-1248	0.2	J	mg/Kg	0.34	0.34	Yes
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/1-2	1	2	4/16/2011	SO	PCB	Total PCBs	TOTPCB	0.37	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1248	PCB-1248	1.3	=	mg/Kg	0.35	0.35	Yes
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/2-3	2	3	4/16/2011	SO	PCB	Total PCBs	TOTPCB	1.475	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1248	PCB-1248	1.3	=	mg/Kg	0.33	0.33	Yes
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-026_2011	TMD-SO-026/6-7	6	7	4/16/2011	SO	PCB	Total PCBs	TOTPCB	1.465	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1248	PCB-1248	37	=	mg/Kg	1.7	1.7	Yes
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/1-2	1	2	4/16/2011	SO	PCB	Total PCBs	TOTPCB	37.17	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1248	PCB-1248	8.7	=	mg/Kg	0.31	0.31	Yes
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/2-3	2	3	4/16/2011	SO	PCB	Total PCBs	TOTPCB	8.855	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-027_2011	TMD-SO-027/6-7	6	7	4/16/2011	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1248	PCB-1248	5.4	=	mg/Kg	0.3	0.3	Yes
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/1-2	1	2	4/16/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/1-2	1	2	4/16/2011	SO	PCB	Total PCBs	TOTPCB	5.55	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1248	PCB-1248	0.24	J	mg/Kg	0.28	0.28	Yes
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/2-3	2	3	4/16/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/2-3	2	3	4/16/2011	SO	PCB	Total PCBs	TOTPCB	0.38	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/6-7	6	7	4/16/2011	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-029_2011	TMD-SO-029/6-7	6	7	4/16/2011	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	2	=	mg/Kg	0.28	0.28	Yes
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/1-2	1	2	4/17/2011	SO	PCB	Total PCBs	TOTPCB	2.14	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/2-3	2	3	4/17/2011	SO	PCB	Total PCBs	TOTPCB	0.25	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/5-6	5	6	4/17/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/6-7	6	7	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/6-7	6	7	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/6-7	6	7	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/6-7	6	7	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/6-7	6	7	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/6-7	6	7	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-030_2011	TMD-SO-030/6-7	6	7	4/17/2011	SO	PCB	Total PCBs	TOTPCB	0.23	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	2.1	=	mg/Kg	0.31	0.31	Yes
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/1-2	1	2	4/17/2011	SO	PCB	Total PCBs	TOTPCB	2.255	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/2-3	2	3	4/17/2011	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/5-6	5	6	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/5-6	5	6	4/17/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/6-7	6	7	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/6-7	6	7	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/6-7	6	7	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/6-7	6	7	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/6-7	6	7	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/6-7	6	7	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-032_2011	TMD-SO-032/6-7	6	7	4/17/2011	SO	PCB	Total PCBs	TOTPCB	0.23	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	1.3	=	mg/Kg	0.28	0.28	Yes
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/1-2	1	2	4/17/2011	SO	PCB	Total PCBs	TOTPCB	1.44	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/2-3	2	3	4/17/2011	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/6.9-7.9	6.9	7.9	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/6.9-7.9	6.9	7.9	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/6.9-7.9	6.9	7.9	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/6.9-7.9	6.9	7.9	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/6.9-7.9	6.9	7.9	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/6.9-7.9	6.9	7.9	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/6.9-7.9	6.9	7.9	4/17/2011	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/7.9-8.9	7.9	8.9	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/7.9-8.9	7.9	8.9	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/7.9-8.9	7.9	8.9	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/7.9-8.9	7.9	8.9	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/7.9-8.9	7.9	8.9	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/7.9-8.9	7.9	8.9	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-033_2011	TMD-SO-033/7.9-8.9	7.9	8.9	4/17/2011	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-034_2011	TMD-SO-034/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.2	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-034_2011	TMD-SO-034/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.2	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-034_2011	TMD-SO-034/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.2	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-034_2011	TMD-SO-034/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	0.25	J	mg/Kg	0.27	0.27	Yes
TMD_Utility_TS_TMD	TMD-034_2011	TMD-SO-034/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.2	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-034_2011	TMD-SO-034/1-2	1	2	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.2	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-034_2011	TMD-SO-034/1-2	1	2	4/17/2011	SO	PCB	Total PCBs	TOTPCB	0.385	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-034_2011	TMD-SO-034/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-034_2011	TMD-SO-034/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-034_2011	TMD-SO-034/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-034_2011	TMD-SO-034/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-034_2011	TMD-SO-034/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-034_2011	TMD-SO-034/2-3	2	3	4/17/2011	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-034_2011	TMD-SO-034/2-3	2	3	4/17/2011	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.63	=	mg/Kg	0.28	0.28	Yes
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/1-2	1	2	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.77	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.23	J	mg/Kg	0.29	0.29	Yes
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/2-3	2	3	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.375	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.7	=	mg/Kg	0.25	0.25	Yes
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/5-6	5	6	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.825	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/6-7	6	7	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/6-7	6	7	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/6-7	6	7	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/6-7	6	7	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/6-7	6	7	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/6-7	6	7	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-035_2011	TMD-SO-035/6-7	6	7	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.28	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	1.6	=	mg/Kg	0.3	0.3	Yes
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/1-2	1	2	4/18/2011	SO	PCB	Total PCBs	TOTPCB	1.75	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/2-3	2	3	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.25	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/5-5.5	5	5.5	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/5-5.5	5	5.5	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/5-5.5	5	5.5	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/5-5.5	5	5.5	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/5-5.5	5	5.5	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/5-5.5	5	5.5	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-036_2011	TMD-SO-036/5-5.5	5	5.5	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.25	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/1-2	1	2	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.28	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/2-3	2	3	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.22	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/5-5.9	5	5.9	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/5-5.9	5	5.9	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/5-5.9	5	5.9	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/5-5.9	5	5.9	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/5-5.9	5	5.9	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/5-5.9	5	5.9	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/5-5.9	5	5.9	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/7.3-8	7.3	8	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/7.3-8	7.3	8	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/7.3-8	7.3	8	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/7.3-8	7.3	8	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.46	=	mg/Kg	0.36	0.36	Yes
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/7.3-8	7.3	8	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/7.3-8	7.3	8	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-037_2011	TMD-SO-037/7.3-8	7.3	8	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.64	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/1-2	1	2	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/2.5-3.5	2.5	3.5	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/2.5-3.5	2.5	3.5	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/2.5-3.5	2.5	3.5	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/2.5-3.5	2.5	3.5	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.22	U	mg/Kg	0.22	0.22	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/2.5-3.5	2.5	3.5	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/2.5-3.5	2.5	3.5	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/2.5-3.5	2.5	3.5	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.22	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.36	U	mg/Kg	0.36	0.36	No
TMD_Utility_TS_TMD	TMD-038_2011	TMD-SO-038/5-6	5	6	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.36	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/1-2	1	2	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/1-2	1	2	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/2-3	2	3	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.38	U	mg/Kg	0.38	0.38	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/2-3	2	3	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.38	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/3-4	3	4	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/3-4	3	4	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/3-4	3	4	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/3-4	3	4	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/3-4	3	4	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/3-4	3	4	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/3-4	3	4	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/4-5	4	5	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/4-5	4	5	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/4-5	4	5	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/4-5	4	5	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/4-5	4	5	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/4-5	4	5	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/4-5	4	5	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/5-6	5	6	4/18/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-039_2011	TMD-SO-039/5-6	5	6	4/18/2011	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/11-12	11	12	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/11-12	11	12	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/11-12	11	12	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/11-12	11	12	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	=	mg/Kg	0.25	0.25	Yes
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/11-12	11	12	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/11-12	11	12	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/11-12	11	12	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.445	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/1-2	1	2	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/12.1-13.1	12.1	13.1	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/12.1-13.1	12.1	13.1	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/12.1-13.1	12.1	13.1	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/12.1-13.1	12.1	13.1	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/12.1-13.1	12.1	13.1	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/12.1-13.1	12.1	13.1	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/12.1-13.1	12.1	13.1	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/2-3	2	3	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/5-6	5	6	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/5-6	5	6	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/5-6	5	6	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/5-6	5	6	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/5-6	5	6	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/5-6	5	6	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-040_2011	TMD-SO-040/5-6	5	6	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.24	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/11.3-12.1	11.3	12.1	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/11.3-12.1	11.3	12.1	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/11.3-12.1	11.3	12.1	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/11.3-12.1	11.3	12.1	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.57	=	mg/Kg	0.23	0.23	Yes
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/11.3-12.1	11.3	12.1	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/11.3-12.1	11.3	12.1	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/11.3-12.1	11.3	12.1	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.685	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.2	J	mg/Kg	0.27	0.27	Yes
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/1-2	1	2	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.335	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/12.5-13.5	12.5	13.5	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/12.5-13.5	12.5	13.5	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/12.5-13.5	12.5	13.5	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/12.5-13.5	12.5	13.5	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/12.5-13.5	12.5	13.5	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/12.5-13.5	12.5	13.5	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/12.5-13.5	12.5	13.5	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.22	U	mg/Kg	0.22	0.22	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/2-3	2	3	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.22	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.21	U	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.21	U	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.21	U	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	2.6	=	mg/Kg	0.21	0.21	Yes
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.21	U	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.21	U	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-042_2011	TMD-SO-042/6-7	6	7	4/19/2011	SO	PCB	Total PCBs	TOTPCB	2.705	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	1.5	=	mg/Kg	0.29	0.29	Yes
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/1-2	1	2	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/1-2	1	2	4/19/2011	SO	PCB	Total PCBs	TOTPCB	1.645	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/12.1-13.1	12.1	13.1	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/12.1-13.1	12.1	13.1	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/12.1-13.1	12.1	13.1	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/12.1-13.1	12.1	13.1	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.66	=	mg/Kg	0.33	0.33	Yes
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/12.1-13.1	12.1	13.1	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/12.1-13.1	12.1	13.1	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/12.1-13.1	12.1	13.1	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.825	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/13.1-14.1	13.1	14.1	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/13.1-14.1	13.1	14.1	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/13.1-14.1	13.1	14.1	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/13.1-14.1	13.1	14.1	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/13.1-14.1	13.1	14.1	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/13.1-14.1	13.1	14.1	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.37	U	mg/Kg	0.37	0.37	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/13.1-14.1	13.1	14.1	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.37	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.7	=	mg/Kg	0.29	0.29	Yes
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/2-3	2	3	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/2-3	2	3	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.845	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/6-7	6	7	4/19/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-043_2011	TMD-SO-043/6-7	6	7	4/19/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-044_2011	TMD-SO-044/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-044_2011	TMD-SO-044/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-044_2011	TMD-SO-044/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-044_2011	TMD-SO-044/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1248	PCB-1248	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-044_2011	TMD-SO-044/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-044_2011	TMD-SO-044/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-044_2011	TMD-SO-044/1-2	1	2	4/20/2011	SO	PCB	Total PCBs	TOTPCB	0.25	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-044_2011	TMD-SO-044/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-044_2011	TMD-SO-044/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-044_2011	TMD-SO-044/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-044_2011	TMD-SO-044/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-044_2011	TMD-SO-044/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-044_2011	TMD-SO-044/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-044_2011	TMD-SO-044/2-3	2	3	4/20/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-045_2011	TMD-SO-045/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1016	PCB-1016	0.21	UJ	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-045_2011	TMD-SO-045/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1232	PCB-1232	0.21	UJ	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-045_2011	TMD-SO-045/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1242	PCB-1242	0.21	UJ	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-045_2011	TMD-SO-045/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1248	PCB-1248	0.21	UJ	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-045_2011	TMD-SO-045/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1254	PCB-1254	0.21	UJ	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-045_2011	TMD-SO-045/1-2	1	2	4/20/2011	SO	PCB	Aroclor-1260	PCB-1260	0.21	UJ	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-045_2011	TMD-SO-045/1-2	1	2	4/20/2011	SO	PCB	Total PCBs	TOTPCB	0.21	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-045_2011	TMD-SO-045/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	UJ	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-045_2011	TMD-SO-045/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	UJ	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-045_2011	TMD-SO-045/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	UJ	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-045_2011	TMD-SO-045/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1248	PCB-1248	0.25	UJ	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-045_2011	TMD-SO-045/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	UJ	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-045_2011	TMD-SO-045/2-3	2	3	4/20/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	UJ	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-045_2011	TMD-SO-045/2-3	2	3	4/20/2011	SO	PCB	Total PCBs	TOTPCB	0.25	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/1-2	1	2	4/27/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/1-2	1	2	4/27/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/1-2	1	2	4/27/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/1-2	1	2	4/27/2011	SO	PCB	Aroclor-1248	PCB-1248	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/1-2	1	2	4/27/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/1-2	1	2	4/27/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/1-2	1	2	4/27/2011	SO	PCB	Total PCBs	TOTPCB	0.28	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/2-3	2	3	4/27/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/2-3	2	3	4/27/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/2-3	2	3	4/27/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/2-3	2	3	4/27/2011	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/2-3	2	3	4/27/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/2-3	2	3	4/27/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/2-3	2	3	4/27/2011	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/5-6	5	6	4/27/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/5-6	5	6	4/27/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/5-6	5	6	4/27/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/5-6	5	6	4/27/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/5-6	5	6	4/27/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/5-6	5	6	4/27/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-053_2011	TMD-SO-053/5-6	5	6	4/27/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/1-2	1	2	4/27/2011	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/1-2	1	2	4/27/2011	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/1-2	1	2	4/27/2011	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/1-2	1	2	4/27/2011	SO	PCB	Aroclor-1248	PCB-1248	0.93	=	mg/Kg	0.35	0.35	Yes
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/1-2	1	2	4/27/2011	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/1-2	1	2	4/27/2011	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/1-2	1	2	4/27/2011	SO	PCB	Total PCBs	TOTPCB	1.105	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/2-3	2	3	4/27/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/2-3	2	3	4/27/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/2-3	2	3	4/27/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/2-3	2	3	4/27/2011	SO	PCB	Aroclor-1248	PCB-1248	1.1	=	mg/Kg	0.3	0.3	Yes
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/2-3	2	3	4/27/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/2-3	2	3	4/27/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/2-3	2	3	4/27/2011	SO	PCB	Total PCBs	TOTPCB	1.25	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/9-10	9	10	4/27/2011	SO	PCB	Aroclor-1016	PCB-1016	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/9-10	9	10	4/27/2011	SO	PCB	Aroclor-1232	PCB-1232	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/9-10	9	10	4/27/2011	SO	PCB	Aroclor-1242	PCB-1242	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/9-10	9	10	4/27/2011	SO	PCB	Aroclor-1248	PCB-1248	1.8	=	mg/Kg	0.24	0.24	Yes
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/9-10	9	10	4/27/2011	SO	PCB	Aroclor-1254	PCB-1254	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/9-10	9	10	4/27/2011	SO	PCB	Aroclor-1260	PCB-1260	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-054_2011	TMD-SO-054/9-10	9	10	4/27/2011	SO	PCB	Total PCBs	TOTPCB	1.92	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1016	PCB-1016	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1232	PCB-1232	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1242	PCB-1242	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1248	PCB-1248	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1254	PCB-1254	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1260	PCB-1260	0.35	U	mg/Kg	0.35	0.35	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/2-3	2	3	4/28/2011	SO	PCB	Total PCBs	TOTPCB	0.35	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/5-6	5	6	4/28/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/5-6	5	6	4/28/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/5-6	5	6	4/28/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/5-6	5	6	4/28/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/5-6	5	6	4/28/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/5-6	5	6	4/28/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/5-6	5	6	4/28/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/7-8	7	8	4/28/2011	SO	PCB	Aroclor-1016	PCB-1016	5.4	U	mg/Kg	5.4	5.4	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/7-8	7	8	4/28/2011	SO	PCB	Aroclor-1232	PCB-1232	5.4	U	mg/Kg	5.4	5.4	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/7-8	7	8	4/28/2011	SO	PCB	Aroclor-1242	PCB-1242	5.4	U	mg/Kg	5.4	5.4	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/7-8	7	8	4/28/2011	SO	PCB	Aroclor-1248	PCB-1248	170	=	mg/Kg	5.4	5.4	Yes
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/7-8	7	8	4/28/2011	SO	PCB	Aroclor-1254	PCB-1254	5.4	U	mg/Kg	5.4	5.4	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/7-8	7	8	4/28/2011	SO	PCB	Aroclor-1260	PCB-1260	5.4	U	mg/Kg	5.4	5.4	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/7-8	7	8	4/28/2011	SO	PCB	Total PCBs	TOTPCB	172.7	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/9-10	9	10	4/28/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/9-10	9	10	4/28/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/9-10	9	10	4/28/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/9-10	9	10	4/28/2011	SO	PCB	Aroclor-1248	PCB-1248	0.27	J	mg/Kg	0.27	0.27	Yes
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/9-10	9	10	4/28/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/9-10	9	10	4/28/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-055_2011	TMD-SO-055/9-10	9	10	4/28/2011	SO	PCB	Total PCBs	TOTPCB	0.405	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/1-2	1	2	4/28/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/1-2	1	2	4/28/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/1-2	1	2	4/28/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/1-2	1	2	4/28/2011	SO	PCB	Aroclor-1248	PCB-1248	3.8	=	mg/Kg	0.29	0.29	Yes
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/1-2	1	2	4/28/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/1-2	1	2	4/28/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/1-2	1	2	4/28/2011	SO	PCB	Total PCBs	TOTPCB	3.945	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1248	PCB-1248	2.5	=	mg/Kg	0.32	0.32	Yes
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/2-3	2	3	4/28/2011	SO	PCB	Total PCBs	TOTPCB	2.66	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/6-7	6	7	4/28/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/6-7	6	7	4/28/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/6-7	6	7	4/28/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/6-7	6	7	4/28/2011	SO	PCB	Aroclor-1248	PCB-1248	3	=	mg/Kg	0.28	0.28	Yes
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/6-7	6	7	4/28/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/6-7	6	7	4/28/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-056_2011	TMD-SO-056/6-7	6	7	4/28/2011	SO	PCB	Total PCBs	TOTPCB	3.14	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1016	PCB-1016	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1232	PCB-1232	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1242	PCB-1242	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1248	PCB-1248	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1254	PCB-1254	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/2-3	2	3	4/28/2011	SO	PCB	Aroclor-1260	PCB-1260	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/2-3	2	3	4/28/2011	SO	PCB	Total PCBs	TOTPCB	0.24	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/4-4.8	4	4.8	4/28/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/4-4.8	4	4.8	4/28/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/4-4.8	4	4.8	4/28/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/4-4.8	4	4.8	4/28/2011	SO	PCB	Aroclor-1248	PCB-1248	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/4-4.8	4	4.8	4/28/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/4-4.8	4	4.8	4/28/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/4-4.8	4	4.8	4/28/2011	SO	PCB	Total PCBs	TOTPCB	0.25	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/6-7	6	7	4/28/2011	SO	PCB	Aroclor-1016	PCB-1016	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/6-7	6	7	4/28/2011	SO	PCB	Aroclor-1232	PCB-1232	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/6-7	6	7	4/28/2011	SO	PCB	Aroclor-1242	PCB-1242	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/6-7	6	7	4/28/2011	SO	PCB	Aroclor-1248	PCB-1248	1.5	=	mg/Kg	0.23	0.23	Yes
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/6-7	6	7	4/28/2011	SO	PCB	Aroclor-1254	PCB-1254	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/6-7	6	7	4/28/2011	SO	PCB	Aroclor-1260	PCB-1260	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/6-7	6	7	4/28/2011	SO	PCB	Total PCBs	TOTPCB	1.615	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/7-7.8	7	7.8	4/28/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/7-7.8	7	7.8	4/28/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/7-7.8	7	7.8	4/28/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/7-7.8	7	7.8	4/28/2011	SO	PCB	Aroclor-1248	PCB-1248	0.53	=	mg/Kg	0.34	0.34	Yes
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/7-7.8	7	7.8	4/28/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/7-7.8	7	7.8	4/28/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-057_2011	TMD-SO-057/7-7.8	7	7.8	4/28/2011	SO	PCB	Total PCBs	TOTPCB	0.7	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/1-2	1	2	4/29/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1016	PCB-1016	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1232	PCB-1232	0.24	U	mg/Kg	0.24	0.24	No

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1242	PCB-1242	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1248	PCB-1248	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1254	PCB-1254	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1260	PCB-1260	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/2-3	2	3	4/29/2011	SO	PCB	Total PCBs	TOTPCB	0.24	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/6-7	6	7	4/29/2011	SO	PCB	Aroclor-1016	PCB-1016	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/6-7	6	7	4/29/2011	SO	PCB	Aroclor-1232	PCB-1232	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/6-7	6	7	4/29/2011	SO	PCB	Aroclor-1242	PCB-1242	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/6-7	6	7	4/29/2011	SO	PCB	Aroclor-1248	PCB-1248	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/6-7	6	7	4/29/2011	SO	PCB	Aroclor-1254	PCB-1254	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/6-7	6	7	4/29/2011	SO	PCB	Aroclor-1260	PCB-1260	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-059_2011	TMD-SO-059/6-7	6	7	4/29/2011	SO	PCB	Total PCBs	TOTPCB	0.24	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1248	PCB-1248	0.18	J	mg/Kg	0.25	0.25	Yes
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/1-2	1	2	4/29/2011	SO	PCB	Total PCBs	TOTPCB	0.305	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1016	PCB-1016	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1232	PCB-1232	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1242	PCB-1242	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1248	PCB-1248	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1254	PCB-1254	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1260	PCB-1260	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/2-3	2	3	4/29/2011	SO	PCB	Total PCBs	TOTPCB	0.24	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/5-6	5	6	4/29/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/5-6	5	6	4/29/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/5-6	5	6	4/29/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/5-6	5	6	4/29/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/5-6	5	6	4/29/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/5-6	5	6	4/29/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/5-6	5	6	4/29/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/6-6.7	6	6.7	4/29/2011	SO	PCB	Aroclor-1016	PCB-1016	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/6-6.7	6	6.7	4/29/2011	SO	PCB	Aroclor-1232	PCB-1232	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/6-6.7	6	6.7	4/29/2011	SO	PCB	Aroclor-1242	PCB-1242	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/6-6.7	6	6.7	4/29/2011	SO	PCB	Aroclor-1248	PCB-1248	13	=	mg/Kg	0.4	0.4	Yes
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/6-6.7	6	6.7	4/29/2011	SO	PCB	Aroclor-1254	PCB-1254	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/6-6.7	6	6.7	4/29/2011	SO	PCB	Aroclor-1260	PCB-1260	0.4	U	mg/Kg	0.4	0.4	No
TMD_Utility_TS_TMD	TMD-060_2011	TMD-SO-060/6-6.7	6	6.7	4/29/2011	SO	PCB	Total PCBs	TOTPCB	13.2	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-061_2011	TMD-SO-061/6-7	6	7	4/29/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-061_2011	TMD-SO-061/6-7	6	7	4/29/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-061_2011	TMD-SO-061/6-7	6	7	4/29/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-061_2011	TMD-SO-061/6-7	6	7	4/29/2011	SO	PCB	Aroclor-1248	PCB-1248	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-061_2011	TMD-SO-061/6-7	6	7	4/29/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-061_2011	TMD-SO-061/6-7	6	7	4/29/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-061_2011	TMD-SO-061/6-7	6	7	4/29/2011	SO	PCB	Total PCBs	TOTPCB	0.25	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1016	PCB-1016	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1232	PCB-1232	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1242	PCB-1242	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1248	PCB-1248	0.23	U	mg/Kg	0.23	0.23	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1254	PCB-1254	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/1-2	1	2	4/29/2011	SO	PCB	Aroclor-1260	PCB-1260	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/1-2	1	2	4/29/2011	SO	PCB	Total PCBs	TOTPCB	0.23	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1248	PCB-1248	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/2-3	2	3	4/29/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/2-3	2	3	4/29/2011	SO	PCB	Total PCBs	TOTPCB	0.25	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/5-6	5	6	4/29/2011	SO	PCB	Aroclor-1016	PCB-1016	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/5-6	5	6	4/29/2011	SO	PCB	Aroclor-1232	PCB-1232	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/5-6	5	6	4/29/2011	SO	PCB	Aroclor-1242	PCB-1242	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/5-6	5	6	4/29/2011	SO	PCB	Aroclor-1248	PCB-1248	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/5-6	5	6	4/29/2011	SO	PCB	Aroclor-1254	PCB-1254	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/5-6	5	6	4/29/2011	SO	PCB	Aroclor-1260	PCB-1260	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-062_2011	TMD-SO-062/5-6	5	6	4/29/2011	SO	PCB	Total PCBs	TOTPCB	0.24	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/1-2	1	2	4/30/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/1-2	1	2	4/30/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/1-2	1	2	4/30/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/1-2	1	2	4/30/2011	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/1-2	1	2	4/30/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/1-2	1	2	4/30/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/1-2	1	2	4/30/2011	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/2-3	2	3	4/30/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/2-3	2	3	4/30/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/2-3	2	3	4/30/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/2-3	2	3	4/30/2011	SO	PCB	Aroclor-1248	PCB-1248	1.1	=	mg/Kg	0.28	0.28	Yes
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/2-3	2	3	4/30/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/2-3	2	3	4/30/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/2-3	2	3	4/30/2011	SO	PCB	Total PCBs	TOTPCB	1.24	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/6-7	6	7	4/30/2011	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/8-9	8	9	4/30/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/8-9	8	9	4/30/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/8-9	8	9	4/30/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/8-9	8	9	4/30/2011	SO	PCB	Aroclor-1248	PCB-1248	5.9	=	mg/Kg	0.25	0.25	Yes
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/8-9	8	9	4/30/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/8-9	8	9	4/30/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-064_2011	TMD-SO-064/8-9	8	9	4/30/2011	SO	PCB	Total PCBs	TOTPCB	6.025	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/1.3-2	1.3	2	4/30/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/1.3-2	1.3	2	4/30/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/1.3-2	1.3	2	4/30/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/1.3-2	1.3	2	4/30/2011	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/1.3-2	1.3	2	4/30/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/1.3-2	1.3	2	4/30/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/1.3-2	1.3	2	4/30/2011	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/2-3	2	3	4/30/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/2-3	2	3	4/30/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/2-3	2	3	4/30/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/2-3	2	3	4/30/2011	SO	PCB	Aroclor-1248	PCB-1248	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/2-3	2	3	4/30/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/2-3	2	3	4/30/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/2-3	2	3	4/30/2011	SO	PCB	Total PCBs	TOTPCB	0.28	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/6-7	6	7	4/30/2011	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/7-8	7	8	4/30/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/7-8	7	8	4/30/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/7-8	7	8	4/30/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/7-8	7	8	4/30/2011	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/7-8	7	8	4/30/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/7-8	7	8	4/30/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-065_2011	TMD-SO-065/7-8	7	8	4/30/2011	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-068_2011	TMD-SO-068/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-068_2011	TMD-SO-068/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-068_2011	TMD-SO-068/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-068_2011	TMD-SO-068/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-068_2011	TMD-SO-068/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-068_2011	TMD-SO-068/6-7	6	7	4/30/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-068_2011	TMD-SO-068/6-7	6	7	4/30/2011	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-068_2011	TMD-SO-068/7-8	7	8	4/30/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-068_2011	TMD-SO-068/7-8	7	8	4/30/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-068_2011	TMD-SO-068/7-8	7	8	4/30/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-068_2011	TMD-SO-068/7-8	7	8	4/30/2011	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-068_2011	TMD-SO-068/7-8	7	8	4/30/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-068_2011	TMD-SO-068/7-8	7	8	4/30/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-068_2011	TMD-SO-068/7-8	7	8	4/30/2011	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/1-2	1	2	5/1/2011	SO	PCB	Aroclor-1016	PCB-1016	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/1-2	1	2	5/1/2011	SO	PCB	Aroclor-1232	PCB-1232	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/1-2	1	2	5/1/2011	SO	PCB	Aroclor-1242	PCB-1242	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/1-2	1	2	5/1/2011	SO	PCB	Aroclor-1248	PCB-1248	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/1-2	1	2	5/1/2011	SO	PCB	Aroclor-1254	PCB-1254	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/1-2	1	2	5/1/2011	SO	PCB	Aroclor-1260	PCB-1260	0.26	U	mg/Kg	0.26	0.26	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/1-2	1	2	5/1/2011	SO	PCB	Total PCBs	TOTPCB	0.26	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/2-3	2	3	5/1/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/2-3	2	3	5/1/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/2-3	2	3	5/1/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/2-3	2	3	5/1/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/2-3	2	3	5/1/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/2-3	2	3	5/1/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/2-3	2	3	5/1/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/6-7	6	7	5/1/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/6-7	6	7	5/1/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/6-7	6	7	5/1/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/6-7	6	7	5/1/2011	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/6-7	6	7	5/1/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/6-7	6	7	5/1/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/6-7	6	7	5/1/2011	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/8-8.8	8	8.8	5/1/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/8-8.8	8	8.8	5/1/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/8-8.8	8	8.8	5/1/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/8-8.8	8	8.8	5/1/2011	SO	PCB	Aroclor-1248	PCB-1248	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/8-8.8	8	8.8	5/1/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/8-8.8	8	8.8	5/1/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-069_2011	TMD-SO-069/8-8.8	8	8.8	5/1/2011	SO	PCB	Total PCBs	TOTPCB	0.28	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/1-2	1	2	5/1/2011	SO	PCB	Aroclor-1016	PCB-1016	14	U	mg/Kg	14	14	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/1-2	1	2	5/1/2011	SO	PCB	Aroclor-1232	PCB-1232	14	U	mg/Kg	14	14	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/1-2	1	2	5/1/2011	SO	PCB	Aroclor-1242	PCB-1242	14	U	mg/Kg	14	14	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/1-2	1	2	5/1/2011	SO	PCB	Aroclor-1248	PCB-1248	450	=	mg/Kg	14	14	Yes
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/1-2	1	2	5/1/2011	SO	PCB	Aroclor-1254	PCB-1254	14	U	mg/Kg	14	14	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/1-2	1	2	5/1/2011	SO	PCB	Aroclor-1260	PCB-1260	14	U	mg/Kg	14	14	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/1-2	1	2	5/1/2011	SO	PCB	Total PCBs	TOTPCB	457	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/2-3	2	3	5/1/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/2-3	2	3	5/1/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/2-3	2	3	5/1/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/2-3	2	3	5/1/2011	SO	PCB	Aroclor-1248	PCB-1248	0.62	=	mg/Kg	0.31	0.31	Yes
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/2-3	2	3	5/1/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/2-3	2	3	5/1/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/2-3	2	3	5/1/2011	SO	PCB	Total PCBs	TOTPCB	0.775	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/6-6.7	6	6.7	5/1/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/6-6.7	6	6.7	5/1/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/6-6.7	6	6.7	5/1/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/6-6.7	6	6.7	5/1/2011	SO	PCB	Aroclor-1248	PCB-1248	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/6-6.7	6	6.7	5/1/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/6-6.7	6	6.7	5/1/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/6-6.7	6	6.7	5/1/2011	SO	PCB	Total PCBs	TOTPCB	0.25	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/8-9	8	9	5/1/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/8-9	8	9	5/1/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/8-9	8	9	5/1/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/8-9	8	9	5/1/2011	SO	PCB	Aroclor-1248	PCB-1248	1.7	=	mg/Kg	0.25	0.25	Yes
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/8-9	8	9	5/1/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/8-9	8	9	5/1/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-070_2011	TMD-SO-070/8-9	8	9	5/1/2011	SO	PCB	Total PCBs	TOTPCB	1.825	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/1-2	1	2	5/2/2011	SO	PCB	Aroclor-1016	PCB-1016	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/1-2	1	2	5/2/2011	SO	PCB	Aroclor-1232	PCB-1232	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/1-2	1	2	5/2/2011	SO	PCB	Aroclor-1242	PCB-1242	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/1-2	1	2	5/2/2011	SO	PCB	Aroclor-1248	PCB-1248	7.8	=	mg/Kg	0.24	0.24	Yes
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/1-2	1	2	5/2/2011	SO	PCB	Aroclor-1254	PCB-1254	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/1-2	1	2	5/2/2011	SO	PCB	Aroclor-1260	PCB-1260	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/1-2	1	2	5/2/2011	SO	PCB	Total PCBs	TOTPCB	7.92	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1248	PCB-1248	1.4	=	mg/Kg	0.29	0.29	Yes
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/2-3	2	3	5/2/2011	SO	PCB	Total PCBs	TOTPCB	1.545	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1248	PCB-1248	4.7	=	mg/Kg	0.32	0.32	Yes
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/6-7	6	7	5/2/2011	SO	PCB	Total PCBs	TOTPCB	4.86	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/9-9.7	9	9.7	5/2/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/9-9.7	9	9.7	5/2/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/9-9.7	9	9.7	5/2/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/9-9.7	9	9.7	5/2/2011	SO	PCB	Aroclor-1248	PCB-1248	0.27	J	mg/Kg	0.29	0.29	Yes
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/9-9.7	9	9.7	5/2/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/9-9.7	9	9.7	5/2/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-071_2011	TMD-SO-071/9-9.7	9	9.7	5/2/2011	SO	PCB	Total PCBs	TOTPCB	0.415	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/0-1	0	1	5/2/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/0-1	0	1	5/2/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/0-1	0	1	5/2/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/0-1	0	1	5/2/2011	SO	PCB	Aroclor-1248	PCB-1248	0.18	J	mg/Kg	0.28	0.28	Yes
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/0-1	0	1	5/2/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/0-1	0	1	5/2/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/0-1	0	1	5/2/2011	SO	PCB	Total PCBs	TOTPCB	0.32	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/2-3	2	3	5/2/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-073_2011	TMD-SO-073/6-7	6	7	5/2/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/4-5	4	5	5/2/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/4-5	4	5	5/2/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/4-5	4	5	5/2/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/4-5	4	5	5/2/2011	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/4-5	4	5	5/2/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/4-5	4	5	5/2/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/4-5	4	5	5/2/2011	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/6-7	6	7	5/2/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/6-7	6	7	5/2/2011	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/8-9	8	9	5/2/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/8-9	8	9	5/2/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/8-9	8	9	5/2/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/8-9	8	9	5/2/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/8-9	8	9	5/2/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/8-9	8	9	5/2/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-074_2011	TMD-SO-074/8-9	8	9	5/2/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/1-2	1	2	5/2/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/1-2	1	2	5/2/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/1-2	1	2	5/2/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/1-2	1	2	5/2/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/1-2	1	2	5/2/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/1-2	1	2	5/2/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/1-2	1	2	5/2/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1248	PCB-1248	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/2-3	2	3	5/2/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/2-3	2	3	5/2/2011	SO	PCB	Total PCBs	TOTPCB	0.28	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/5.5-6.5	5.5	6.5	5/2/2011	SO	PCB	Aroclor-1016	PCB-1016	0.21	U	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/5.5-6.5	5.5	6.5	5/2/2011	SO	PCB	Aroclor-1232	PCB-1232	0.21	U	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/5.5-6.5	5.5	6.5	5/2/2011	SO	PCB	Aroclor-1242	PCB-1242	0.21	U	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/5.5-6.5	5.5	6.5	5/2/2011	SO	PCB	Aroclor-1248	PCB-1248	0.21	U	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/5.5-6.5	5.5	6.5	5/2/2011	SO	PCB	Aroclor-1254	PCB-1254	0.21	U	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/5.5-6.5	5.5	6.5	5/2/2011	SO	PCB	Aroclor-1260	PCB-1260	0.21	U	mg/Kg	0.21	0.21	No
TMD_Utility_TS_TMD	TMD-075_2011	TMD-SO-075/5.5-6.5	5.5	6.5	5/2/2011	SO	PCB	Total PCBs	TOTPCB	0.21	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/1-2	1	2	5/3/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/1-2	1	2	5/3/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/1-2	1	2	5/3/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/1-2	1	2	5/3/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/1-2	1	2	5/3/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/1-2	1	2	5/3/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/1-2	1	2	5/3/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/2-3	2	3	5/3/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/2-3	2	3	5/3/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/2-3	2	3	5/3/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/2-3	2	3	5/3/2011	SO	PCB	Aroclor-1248	PCB-1248	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/2-3	2	3	5/3/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/2-3	2	3	5/3/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/2-3	2	3	5/3/2011	SO	PCB	Total PCBs	TOTPCB	0.34	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/6-7	6	7	5/3/2011	SO	PCB	Aroclor-1016	PCB-1016	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/6-7	6	7	5/3/2011	SO	PCB	Aroclor-1232	PCB-1232	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/6-7	6	7	5/3/2011	SO	PCB	Aroclor-1242	PCB-1242	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/6-7	6	7	5/3/2011	SO	PCB	Aroclor-1248	PCB-1248	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/6-7	6	7	5/3/2011	SO	PCB	Aroclor-1254	PCB-1254	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/6-7	6	7	5/3/2011	SO	PCB	Aroclor-1260	PCB-1260	0.23	U	mg/Kg	0.23	0.23	No
TMD_Utility_TS_TMD	TMD-078_2011	TMD-SO-078/6-7	6	7	5/3/2011	SO	PCB	Total PCBs	TOTPCB	0.23	U	mg/Kg			No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-079_2011	TMD-SO-079/7-8	7	8	5/3/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-079_2011	TMD-SO-079/7-8	7	8	5/3/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-079_2011	TMD-SO-079/7-8	7	8	5/3/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-079_2011	TMD-SO-079/7-8	7	8	5/3/2011	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-079_2011	TMD-SO-079/7-8	7	8	5/3/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-079_2011	TMD-SO-079/7-8	7	8	5/3/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-079_2011	TMD-SO-079/7-8	7	8	5/3/2011	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-080_2011	TMD-SO-080/7.5-8.5	7.5	8.5	5/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-080_2011	TMD-SO-080/7.5-8.5	7.5	8.5	5/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-080_2011	TMD-SO-080/7.5-8.5	7.5	8.5	5/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-080_2011	TMD-SO-080/7.5-8.5	7.5	8.5	5/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-080_2011	TMD-SO-080/7.5-8.5	7.5	8.5	5/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-080_2011	TMD-SO-080/7.5-8.5	7.5	8.5	5/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-080_2011	TMD-SO-080/7.5-8.5	7.5	8.5	5/11/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/1-2	1	2	5/11/2011	SO	PCB	Total PCBs	TOTPCB	0.24	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/2-3	2	3	5/11/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/6-7	6	7	5/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/6-7	6	7	5/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/6-7	6	7	5/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/6-7	6	7	5/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/6-7	6	7	5/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/6-7	6	7	5/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-081_2011	TMD-SO-081/6-7	6	7	5/11/2011	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.29	U	mg/Kg	0.29	0.29	No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/1-2	1	2	5/11/2011	SO	PCB	Total PCBs	TOTPCB	0.29	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.25	U	mg/Kg	0.25	0.25	No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/2-3	2	3	5/11/2011	SO	PCB	Total PCBs	TOTPCB	0.25	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/6-6.5	6	6.5	5/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.54	U	mg/Kg	0.54	0.54	No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/6-6.5	6	6.5	5/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.54	U	mg/Kg	0.54	0.54	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/6-6.5	6	6.5	5/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.54	U	mg/Kg	0.54	0.54	No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/6-6.5	6	6.5	5/11/2011	SO	PCB	Aroclor-1248	PCB-1248	17	=	mg/Kg	0.54	0.54	Yes
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/6-6.5	6	6.5	5/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.54	U	mg/Kg	0.54	0.54	No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/6-6.5	6	6.5	5/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.54	U	mg/Kg	0.54	0.54	No
TMD_Utility_TS_TMD	TMD-082_2011	TMD-SO-082/6-6.5	6	6.5	5/11/2011	SO	PCB	Total PCBs	TOTPCB	17.27	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.39	U	mg/Kg	0.39	0.39	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/1-2	1	2	5/11/2011	SO	PCB	Total PCBs	TOTPCB	0.39	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/1-2DUP	1	2	5/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/1-2DUP	1	2	5/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/1-2DUP	1	2	5/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/1-2DUP	1	2	5/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/1-2DUP	1	2	5/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/1-2DUP	1	2	5/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/1-2DUP	1	2	5/11/2011	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/2-3	2	3	5/11/2011	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/5-6	5	6	5/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/5-6	5	6	5/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/5-6	5	6	5/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/5-6	5	6	5/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.31	J	mg/Kg	0.32	0.32	Yes
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/5-6	5	6	5/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/5-6	5	6	5/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-083_2011	TMD-SO-083/5-6	5	6	5/11/2011	SO	PCB	Total PCBs	TOTPCB	0.47	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.24	J	mg/Kg	0.34	0.34	Yes
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/1-2	1	2	5/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.34	U	mg/Kg	0.34	0.34	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/1-2	1	2	5/11/2011	SO	PCB	Total PCBs	TOTPCB	0.41	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/2-3	2	3	5/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/2-3	2	3	5/11/2011	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/2-3DUP	2	3	5/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/2-3DUP	2	3	5/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/2-3DUP	2	3	5/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/2-3DUP	2	3	5/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/2-3DUP	2	3	5/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/2-3DUP	2	3	5/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/2-3DUP	2	3	5/11/2011	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/6-7	6	7	5/11/2011	SO	PCB	Aroclor-1016	PCB-1016	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/6-7	6	7	5/11/2011	SO	PCB	Aroclor-1232	PCB-1232	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/6-7	6	7	5/11/2011	SO	PCB	Aroclor-1242	PCB-1242	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/6-7	6	7	5/11/2011	SO	PCB	Aroclor-1248	PCB-1248	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/6-7	6	7	5/11/2011	SO	PCB	Aroclor-1254	PCB-1254	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/6-7	6	7	5/11/2011	SO	PCB	Aroclor-1260	PCB-1260	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-084_2011	TMD-SO-084/6-7	6	7	5/11/2011	SO	PCB	Total PCBs	TOTPCB	0.22	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/1-2	1	2	5/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/1-2	1	2	5/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/1-2	1	2	5/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/1-2	1	2	5/12/2011	SO	PCB	Aroclor-1248	PCB-1248	1.2	=	mg/Kg	0.3	0.3	Yes
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/1-2	1	2	5/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/1-2	1	2	5/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/1-2	1	2	5/12/2011	SO	PCB	Total PCBs	TOTPCB	1.35	=	mg/Kg			Yes
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/2-3	2	3	5/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/2-3	2	3	5/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/2-3	2	3	5/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/2-3	2	3	5/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/2-3	2	3	5/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/2-3	2	3	5/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/2-3	2	3	5/12/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/6-7	6	7	5/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/6-7	6	7	5/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/6-7	6	7	5/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/6-7	6	7	5/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/6-7	6	7	5/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/6-7	6	7	5/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/6-7	6	7	5/12/2011	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/6-7DUP	6	7	5/12/2011	SO	PCB	Aroclor-1016	PCB-1016	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/6-7DUP	6	7	5/12/2011	SO	PCB	Aroclor-1232	PCB-1232	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/6-7DUP	6	7	5/12/2011	SO	PCB	Aroclor-1242	PCB-1242	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/6-7DUP	6	7	5/12/2011	SO	PCB	Aroclor-1248	PCB-1248	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/6-7DUP	6	7	5/12/2011	SO	PCB	Aroclor-1254	PCB-1254	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/6-7DUP	6	7	5/12/2011	SO	PCB	Aroclor-1260	PCB-1260	0.27	U	mg/Kg	0.27	0.27	No
TMD_Utility_TS_TMD	TMD-090_2011	TMD-SO-090/6-7DUP	6	7	5/12/2011	SO	PCB	Total PCBs	TOTPCB	0.27	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-092_2011	TMD-SO-092/4-5	4	5	5/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-092_2011	TMD-SO-092/4-5	4	5	5/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-092_2011	TMD-SO-092/4-5	4	5	5/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-092_2011	TMD-SO-092/4-5	4	5	5/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-092_2011	TMD-SO-092/4-5	4	5	5/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-092_2011	TMD-SO-092/4-5	4	5	5/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.22	U	mg/Kg	0.22	0.22	No
TMD_Utility_TS_TMD	TMD-092_2011	TMD-SO-092/4-5	4	5	5/13/2011	SO	PCB	Total PCBs	TOTPCB	0.22	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-092_2011	TMD-SO-092/5-6	5	6	5/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-092_2011	TMD-SO-092/5-6	5	6	5/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-092_2011	TMD-SO-092/5-6	5	6	5/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-092_2011	TMD-SO-092/5-6	5	6	5/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-092_2011	TMD-SO-092/5-6	5	6	5/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.24	U	mg/Kg	0.24	0.24	No
TMD_Utility_TS_TMD	TMD-092_2011	TMD-SO-092/5-6	5	6	5/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.24	U	mg/Kg	0.24	0.24	No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Utility_TS_TMD	TMD-092_2011	TMD-SO-092/5-6	5	6	5/13/2011	SO	PCB	Total PCBs	TOTPCB	0.24	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/1-2	1	2	5/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/1-2	1	2	5/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/1-2	1	2	5/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/1-2	1	2	5/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/1-2	1	2	5/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/1-2	1	2	5/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/1-2	1	2	5/13/2011	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/2-3	2	3	5/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/2-3	2	3	5/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/2-3	2	3	5/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/2-3	2	3	5/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/2-3	2	3	5/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/2-3	2	3	5/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.28	U	mg/Kg	0.28	0.28	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/2-3	2	3	5/13/2011	SO	PCB	Total PCBs	TOTPCB	0.28	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/6-7	6	7	5/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/6-7	6	7	5/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/6-7	6	7	5/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/6-7	6	7	5/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/6-7	6	7	5/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/6-7	6	7	5/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.3	U	mg/Kg	0.3	0.3	No
TMD_Utility_TS_TMD	TMD-093_2011	TMD-SO-093/6-7	6	7	5/13/2011	SO	PCB	Total PCBs	TOTPCB	0.3	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/1-2	1	2	5/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/1-2	1	2	5/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/1-2	1	2	5/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/1-2	1	2	5/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/1-2	1	2	5/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/1-2	1	2	5/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.31	U	mg/Kg	0.31	0.31	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/1-2	1	2	5/13/2011	SO	PCB	Total PCBs	TOTPCB	0.31	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/2-3	2	3	5/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/2-3	2	3	5/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/2-3	2	3	5/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/2-3	2	3	5/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/2-3	2	3	5/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/2-3	2	3	5/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.33	U	mg/Kg	0.33	0.33	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/2-3	2	3	5/13/2011	SO	PCB	Total PCBs	TOTPCB	0.33	U	mg/Kg			No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/5-6	5	6	5/13/2011	SO	PCB	Aroclor-1016	PCB-1016	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/5-6	5	6	5/13/2011	SO	PCB	Aroclor-1232	PCB-1232	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/5-6	5	6	5/13/2011	SO	PCB	Aroclor-1242	PCB-1242	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/5-6	5	6	5/13/2011	SO	PCB	Aroclor-1248	PCB-1248	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/5-6	5	6	5/13/2011	SO	PCB	Aroclor-1254	PCB-1254	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/5-6	5	6	5/13/2011	SO	PCB	Aroclor-1260	PCB-1260	0.32	U	mg/Kg	0.32	0.32	No
TMD_Utility_TS_TMD	TMD-094_2011	TMD-SO-094/5-6	5	6	5/13/2011	SO	PCB	Total PCBs	TOTPCB	0.32	U	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong01	Cong01	0.003125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong03	Cong03	1.1149	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong08	Cong08	0.0017	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong100	Cong100	0.0018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong105a	Cong105a	0.0117	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong11-27	Cong11-27	1.347	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong114	Cong114	0.0013	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong118a	Cong118a	0.0193	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0041	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong128	Cong128	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong130	Cong130	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong132	Cong132	0.0023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong134	Cong134	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0017	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong136	Cong136	0.0016	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong137	Cong137	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0062	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong141	Cong141	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong146	Cong146	0.0009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong151	Cong151	0.0021	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong153	Cong153	0.0033	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong156	Cong156	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000156	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong1632	Cong1632	1.1566	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong167	Cong167	0.000313	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong169a	Cong169a	0.000313	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong17	Cong17	0.9545	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong170	Cong170	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong171	Cong171	0.000313	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong172	Cong172	0.000156	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong174	Cong174	0.0009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong175	Cong175	0.000156	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong177	Cong177	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong179	Cong179	0.000156	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong18	Cong18	1.2089	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong180	Cong180	0.0008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong183	Cong183	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong185	Cong185	0.000156	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong190	Cong190	0.000156	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong193	Cong193	0.000156	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong194	Cong194	0.000156	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong195	Cong195	0.000156	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.000313	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong198	Cong198	0.000156	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong199	Cong199	0.000156	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong201	Cong201	0.000156	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong205	Cong205	0.000156	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong206	Cong206	0.000156	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong207	Cong207	0.000156	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong22	Cong22	0.4763	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong25	Cong25	0.5217	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong26	Cong26	0.6274	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong28	Cong28	1.3607	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong31	Cong31	1.3056	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong33	Cong33	0.7977	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.3675	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong40	Cong40	0.0046	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong44	Cong44	0.6006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong45	Cong45	0.0878	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong49	Cong49	0.5602	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong52	Cong52	0.7454	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.1779	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong63	Cong63	0.0156	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong64	Cong64	0.2929	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.2179	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong70	Cong70	0.2821	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong71	Cong71	0.1957	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong74	Cong74	0.0872	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0545	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0286	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong82	Cong82	0.0088	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong83	Cong83	0.0056	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong84	Cong84	0.0301	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0365	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong91	Cong91	0.0168	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong92	Cong92	0.0123	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong97	Cong97	0.0184	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Cong99	Cong99	0.0201	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	14.8065	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	1.109E-06	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S01			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	14.7718	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong03	Cong03	0.9838	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong08	Cong08	0.0057	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong100	Cong100	0.0025	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong105a	Cong105a	0.0272	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong11-27	Cong11-27	1.2336	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong114	Cong114	0.0028	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong118a	Cong118a	0.0443	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0103	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong128	Cong128	0.0033	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong130	Cong130	0.0014	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong132	Cong132	0.0054	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong134	Cong134	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0047	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong136	Cong136	0.0038	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong137	Cong137	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0169	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong141	Cong141	0.0028	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong146	Cong146	0.0032	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong151	Cong151	0.0051	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong153	Cong153	0.0113	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong156	Cong156	0.0013	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0016	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong1632	Cong1632	1.0103	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong167	Cong167	0.0006	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong169a	Cong169a	0.000248	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong17	Cong17	0.691	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong170	Cong170	0.0032	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong171	Cong171	0.0008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong172	Cong172	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong174	Cong174	0.0025	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong175	Cong175	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong177	Cong177	0.0017	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong179	Cong179	0.0009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong18	Cong18	0.8514	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong180	Cong180	0.0025	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0025	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong183	Cong183	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong185	Cong185	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong190	Cong190	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong193	Cong193	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong194	Cong194	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong195	Cong195	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.000248	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong198	Cong198	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong199	Cong199	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong201	Cong201	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong205	Cong205	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong206	Cong206	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong207	Cong207	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong22	Cong22	0.3655	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong25	Cong25	0.4123	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong26	Cong26	0.5224	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong28	Cong28	0.9768	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong31	Cong31	0.9532	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong33	Cong33	0.6504	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.3748	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong40	Cong40	0.0056	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong44	Cong44	0.5602	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong45	Cong45	0.0792	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong48	Cong48	0.0235	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong49	Cong49	0.6543	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong52	Cong52	0.6606	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0296	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong63	Cong63	0.0209	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong64	Cong64	0.2731	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.3247	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong70	Cong70	0.2821	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong71	Cong71	0.2057	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong74	Cong74	0.2032	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0762	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0519	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong82	Cong82	0.0157	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong83	Cong83	0.0092	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong84	Cong84	0.0374	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0774	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong91	Cong91	0.0294	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong92	Cong92	0.0053	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong97	Cong97	0.0339	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Cong99	Cong99	0.0485	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	12.908	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	2.631E-06	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S02			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	12.8261	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong03	Cong03	1.0735	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong08	Cong08	0.0125	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong100	Cong100	0.0019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong105a	Cong105a	0.014	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong11-27	Cong11-27	1.3771	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong114	Cong114	0.0016	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong118a	Cong118a	0.021	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0052	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong128	Cong128	0.0018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong130	Cong130	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong132	Cong132	0.003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong134	Cong134	0.0008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0024	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong136	Cong136	0.0019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong137	Cong137	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0087	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong141	Cong141	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong146	Cong146	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong151	Cong151	0.0025	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong153	Cong153	0.0044	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong156	Cong156	0.0008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong1632	Cong1632	1.1778	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong167	Cong167	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong169a	Cong169a	0.000248	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong17	Cong17	0.4081	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong170	Cong170	0.0019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong171	Cong171	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong172	Cong172	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong174	Cong174	0.0013	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong175	Cong175	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong177	Cong177	0.0009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong179	Cong179	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong18	Cong18	0.53	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong180	Cong180	0.0014	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong183	Cong183	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong185	Cong185	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong190	Cong190	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong193	Cong193	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong194	Cong194	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong195	Cong195	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.000248	K	mg/Kg			No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong198	Cong198	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong199	Cong199	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong201	Cong201	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong205	Cong205	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong206	Cong206	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong207	Cong207	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong22	Cong22	0.1813	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong25	Cong25	0.5212	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong26	Cong26	0.6156	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong28	Cong28	0.5639	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong31	Cong31	0.5359	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong33	Cong33	0.7817	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.3551	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong40	Cong40	0.0045	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong44	Cong44	0.5362	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong45	Cong45	0.0775	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong48	Cong48	0.0305	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong49	Cong49	0.527	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong52	Cong52	0.6922	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.1755	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong63	Cong63	0.0153	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong64	Cong64	0.2696	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.3212	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong70	Cong70	0.3181	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong71	Cong71	0.1873	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong74	Cong74	0.1159	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0461	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0514	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong82	Cong82	0.011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong83	Cong83	0.0059	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong84	Cong84	0.0248	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0368	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong91	Cong91	0.0175	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong92	Cong92	0.0119	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong97	Cong97	0.0202	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Cong99	Cong99	0.0225	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	11.7369	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	1.335E-06	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S03			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	11.6959	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong01	Cong01	0.002475	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong03	Cong03	0.118	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong08	Cong08	0.001238	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong100	Cong100	0.000495	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong105a	Cong105a	0.0079	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong11-27	Cong11-27	0.2297	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong114	Cong114	0.001	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong118a	Cong118a	0.0211	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0039	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong128	Cong128	0.0014	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong130	Cong130	0.0005	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong132	Cong132	0.002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong134	Cong134	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0013	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong137	Cong137	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0074	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong141	Cong141	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong146	Cong146	0.0014	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong151	Cong151	0.0019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong153	Cong153	0.0051	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong156	Cong156	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong1632	Cong1632	0.1845	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong167	Cong167	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong169a	Cong169a	0.000248	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong17	Cong17	0.1655	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong170	Cong170	0.0017	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong171	Cong171	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong172	Cong172	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong174	Cong174	0.001	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong175	Cong175	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong177	Cong177	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong179	Cong179	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong18	Cong18	0.1677	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong180	Cong180	0.0016	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong183	Cong183	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong185	Cong185	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong190	Cong190	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong193	Cong193	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong194	Cong194	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong195	Cong195	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.000248	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong198	Cong198	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong199	Cong199	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong201	Cong201	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong205	Cong205	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong206	Cong206	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong207	Cong207	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong22	Cong22	0.0584	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong25	Cong25	0.0732	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong26	Cong26	0.0971	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong28	Cong28	0.1976	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong31	Cong31	0.1924	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong33	Cong33	0.1106	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.0736	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong40	Cong40	0.0016	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong44	Cong44	0.1074	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong45	Cong45	0.0155	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong48	Cong48	0.0116	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong49	Cong49	0.1439	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong52	Cong52	0.1706	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.042	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong63	Cong63	0.0054	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong64	Cong64	0.0495	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.0939	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong70	Cong70	0.0843	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong71	Cong71	0.0434	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong74	Cong74	0.042	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0228	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong82	Cong82	0.0042	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong83	Cong83	0.0022	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong84	Cong84	0.0089	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0228	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong91	Cong91	0.0081	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong92	Cong92	0.007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong97	Cong97	0.0092	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Cong99	Cong99	0.0145	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	2.6618	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	1.11E-06	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S04			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	2.6277	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong01	Cong01	0.0025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong03	Cong03	0.0437	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong08	Cong08	0.0016	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong100	Cong100	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong105a	Cong105a	0.0021	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong11-27	Cong11-27	0.058	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong114	Cong114	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong118a	Cong118a	0.0043	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.00075	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong128	Cong128	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong130	Cong130	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong132	Cong132	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong134	Cong134	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0005	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong136	Cong136	0.0005	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong137	Cong137	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong141	Cong141	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong146	Cong146	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong151	Cong151	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong153	Cong153	0.0014	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong156	Cong156	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.000375	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong1632	Cong1632	0.0384	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong167	Cong167	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong169a	Cong169a	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong17	Cong17	0.0355	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong170	Cong170	0.0004	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong171	Cong171	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong172	Cong172	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong174	Cong174	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong175	Cong175	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong177	Cong177	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong179	Cong179	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong18	Cong18	0.0506	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong180	Cong180	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.000375	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong183	Cong183	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong185	Cong185	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong190	Cong190	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong193	Cong193	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong194	Cong194	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong195	Cong195	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong198	Cong198	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong199	Cong199	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong201	Cong201	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong205	Cong205	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong206	Cong206	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong207	Cong207	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong22	Cong22	0.0185	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong25	Cong25	0.0185	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong26	Cong26	0.0347	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong28	Cong28	0.0688	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong31	Cong31	0.0681	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong33	Cong33	0.0145	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.0189	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong40	Cong40	0.0045	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong44	Cong44	0.0317	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong45	Cong45	0.0053	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong48	Cong48	0.0049	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong49	Cong49	0.0435	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong52	Cong52	0.0586	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0111	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong63	Cong63	0.0016	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong64	Cong64	0.0168	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.0209	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong70	Cong70	0.0197	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong71	Cong71	0.0097	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong74	Cong74	0.0092	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0077	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0046	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong82	Cong82	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong83	Cong83	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong84	Cong84	0.0028	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0074	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong91	Cong91	0.0022	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong92	Cong92	0.0018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong97	Cong97	0.003	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Cong99	Cong99	0.0041	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	0.7588	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	2.53E-07	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S05			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	0.7511	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong03	Cong03	0.7592	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong08	Cong08	0.0395	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong100	Cong100	0.0062	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong105a	Cong105a	0.0284	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong11-27	Cong11-27	5.7053	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong114	Cong114	0.0029	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong118a	Cong118a	0.082	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.00075	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong128	Cong128	0.0028	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong130	Cong130	0.0013	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong132	Cong132	0.0058	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong134	Cong134	0.0018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0055	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong136	Cong136	0.0041	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong137	Cong137	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0154	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong141	Cong141	0.0027	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong146	Cong146	0.0027	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong151	Cong151	0.0056	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong153	Cong153	0.0084	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong156	Cong156	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong1632	Cong1632	1.3563	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong167	Cong167	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong169a	Cong169a	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong17	Cong17	1.0652	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong170	Cong170	0.0023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong171	Cong171	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong172	Cong172	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong174	Cong174	0.0019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong175	Cong175	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong177	Cong177	0.0013	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong179	Cong179	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong18	Cong18	1.515	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong180	Cong180	0.0019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0017	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong183	Cong183	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong185	Cong185	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong190	Cong190	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong193	Cong193	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong194	Cong194	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong195	Cong195	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong198	Cong198	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong199	Cong199	0.000125	K	mg/Kg			No

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong201	Cong201	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong205	Cong205	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong206	Cong206	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong207	Cong207	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong22	Cong22	0.4282	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong25	Cong25	0.5192	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong26	Cong26	0.4932	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong28	Cong28	1.3858	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong31	Cong31	1.3868	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong33	Cong33	0.8317	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong37-42	Cong37-42	1.0286	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong40	Cong40	0.0139	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong44	Cong44	0.7985	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong45	Cong45	0.4416	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong48	Cong48	0.0247	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong49	Cong49	0.5157	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong52	Cong52	0.7008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0431	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong63	Cong63	0.0439	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong64	Cong64	0.2515	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.9118	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong70	Cong70	0.9039	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong71	Cong71	0.5424	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong74	Cong74	0.3928	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.1379	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.069	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong82	Cong82	0.0224	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong83	Cong83	0.0172	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong84	Cong84	0.076	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0993	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong91	Cong91	0.0495	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong92	Cong92	0.0043	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong97	Cong97	0.0468	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Cong99	Cong99	0.0528	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	22.8764	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	3.696E-06	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S06			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	22.7573	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong08	Cong08	0.0237	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong100	Cong100	0.0061	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong105a	Cong105a	0.0285	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong11-27	Cong11-27	4.6577	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong114	Cong114	0.0046	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong118a	Cong118a	0.1324	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0188	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0035	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong128	Cong128	0.0047	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong130	Cong130	0.0028	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong132	Cong132	0.0081	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong134	Cong134	0.0029	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0077	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong136	Cong136	0.0053	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong137	Cong137	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0345	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong141	Cong141	0.0044	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong146	Cong146	0.0114	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong151	Cong151	0.0128	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong153	Cong153	0.0305	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong156	Cong156	0.0025	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0026	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong1632	Cong1632	0.472	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong167	Cong167	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong169a	Cong169a	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong17	Cong17	0.3629	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong170	Cong170	0.0072	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong171	Cong171	0.0018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong172	Cong172	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong174	Cong174	0.0045	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong175	Cong175	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong177	Cong177	0.004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong179	Cong179	0.0021	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong18	Cong18	0.4934	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong180	Cong180	0.0099	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0101	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong183	Cong183	0.0026	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong185	Cong185	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong190	Cong190	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong193	Cong193	0.001	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong194	Cong194	0.0021	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong195	Cong195	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong198	Cong198	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong199	Cong199	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong201	Cong201	0.0023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong205	Cong205	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong206	Cong206	0.0025	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong207	Cong207	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong22	Cong22	0.1491	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong25	Cong25	0.1913	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong26	Cong26	0.2525	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong28	Cong28	0.5195	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong31	Cong31	0.4976	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong33	Cong33	0.1748	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.9621	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong40	Cong40	0.0146	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong44	Cong44	0.4343	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong45	Cong45	0.3591	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong48	Cong48	0.0289	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong49	Cong49	0.2081	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong52	Cong52	0.3112	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0633	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong63	Cong63	0.0482	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong64	Cong64	0.098	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.8958	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong70	Cong70	0.7773	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong71	Cong71	0.5341	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong74	Cong74	0.4018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.1472	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0733	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong82	Cong82	0.0191	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong83	Cong83	0.0208	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong84	Cong84	0.0693	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.1317	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong91	Cong91	0.0596	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong92	Cong92	0.0062	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong97	Cong97	0.0477	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Cong99	Cong99	0.0851	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	13.9738	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	5.895E-06	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S07			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	13.7875	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong03	Cong03	0.5302	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong08	Cong08	0.026	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong100	Cong100	0.0049	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong105a	Cong105a	0.0236	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong11-27	Cong11-27	0.9814	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong114	Cong114	0.0027	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong118a	Cong118a	0.0477	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0098	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0016	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong128	Cong128	0.0024	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong130	Cong130	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong132	Cong132	0.0052	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong134	Cong134	0.0016	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0048	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong136	Cong136	0.0038	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong137	Cong137	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0141	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong141	Cong141	0.0024	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong146	Cong146	0.003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong151	Cong151	0.0053	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong153	Cong153	0.0093	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong156	Cong156	0.001	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong1632	Cong1632	0.7919	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong167	Cong167	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong169a	Cong169a	0.000248	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong17	Cong17	0.637	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong170	Cong170	0.0023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong171	Cong171	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong172	Cong172	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong174	Cong174	0.0018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong175	Cong175	0.000124	K	mg/Kg			No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong177	Cong177	0.0013	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong179	Cong179	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong18	Cong18	0.857	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong180	Cong180	0.0023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0022	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong183	Cong183	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong185	Cong185	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong190	Cong190	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong193	Cong193	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong194	Cong194	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong195	Cong195	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.000248	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong198	Cong198	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong199	Cong199	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong201	Cong201	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong205	Cong205	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong206	Cong206	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong207	Cong207	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong22	Cong22	0.2341	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong25	Cong25	0.3574	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong26	Cong26	0.3574	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong28	Cong28	0.7729	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong31	Cong31	0.7618	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong33	Cong33	0.4966	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong37-42	Cong37-42	1.1233	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong40	Cong40	0.0121	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong44	Cong44	0.5461	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong45	Cong45	0.4722	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong48	Cong48	0.0262	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong49	Cong49	0.2808	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong52	Cong52	0.4199	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0419	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong63	Cong63	0.0379	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong64	Cong64	0.1418	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong70	Cong70	0.1951	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong71	Cong71	0.5858	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong74	Cong74	0.4352	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.12	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0614	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong82	Cong82	0.0196	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong83	Cong83	0.0146	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong84	Cong84	0.0672	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0932	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong91	Cong91	0.0433	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong92	Cong92	0.0059	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong97	Cong97	0.0408	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Cong99	Cong99	0.0534	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	11.8004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	2.515E-06	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S08			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	11.7204	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong08	Cong08	0.0228	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong100	Cong100	0.0042	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong105a	Cong105a	0.0216	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong11-27	Cong11-27	3.981	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong114	Cong114	0.0023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong118a	Cong118a	0.0439	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0087	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong128	Cong128	0.0023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong130	Cong130	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong132	Cong132	0.0048	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong134	Cong134	0.0014	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0042	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong136	Cong136	0.0032	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong137	Cong137	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0128	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong141	Cong141	0.0023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong146	Cong146	0.0024	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong151	Cong151	0.0046	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong153	Cong153	0.0072	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong156	Cong156	0.001	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0013	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong1632	Cong1632	1.59	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong167	Cong167	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong169a	Cong169a	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong17	Cong17	1.275	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong170	Cong170	0.0023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong171	Cong171	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong172	Cong172	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong174	Cong174	0.0019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong175	Cong175	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong177	Cong177	0.0013	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong179	Cong179	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong18	Cong18	1.759	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong180	Cong180	0.0018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0017	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong183	Cong183	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong185	Cong185	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong190	Cong190	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong193	Cong193	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong194	Cong194	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong195	Cong195	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong198	Cong198	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong199	Cong199	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong201	Cong201	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong205	Cong205	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong206	Cong206	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong207	Cong207	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong22	Cong22	0.528	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong25	Cong25	0.628	=	mg/Kg			Yes

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong26	Cong26	0.777	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong28	Cong28	1.636	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong31	Cong31	1.603	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong33	Cong33	0.988	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.777	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong40	Cong40	0.0091	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong44	Cong44	1.553	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong45	Cong45	0.313	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong48	Cong48	0.0203	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong49	Cong49	0.66	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong52	Cong52	0.874	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0337	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong63	Cong63	0.0324	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong64	Cong64	0.307	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.71	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong70	Cong70	0.642	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong71	Cong71	0.405	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong74	Cong74	0.31	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.1035	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0522	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong82	Cong82	0.0162	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong83	Cong83	0.0126	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong84	Cong84	0.0576	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0791	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong91	Cong91	0.0377	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong92	Cong92	0.0054	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong97	Cong97	0.0348	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Cong99	Cong99	0.0443	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	22.0218	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	2.324E-06	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S09			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	21.9485	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong01	Cong01	0.175	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong03	Cong03	2.9612	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong08	Cong08	0.0235	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong100	Cong100	0.007	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong105a	Cong105a	0.0063	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong11-27	Cong11-27	1.892	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong114	Cong114	0.002	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong118a	Cong118a	0.0109	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0074	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.000744	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong128	Cong128	0.0018	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong130	Cong130	0.001	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong132	Cong132	0.000248	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong134	Cong134	0.001	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0036	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong136	Cong136	0.0024	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong137	Cong137	0.0004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0106	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong141	Cong141	0.0018	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong146	Cong146	0.0027	J	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong151	Cong151	0.004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong153	Cong153	0.0091	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong156	Cong156	0.0008	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0009	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong1632	Cong1632	1.601	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong167	Cong167	0.0004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong169a	Cong169a	0.000248	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong17	Cong17	1.68	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong170	Cong170	0.0015	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong171	Cong171	0.0004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong172	Cong172	0.0003	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong174	Cong174	0.0019	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong175	Cong175	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong177	Cong177	0.0009	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong179	Cong179	0.0007	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong18	Cong18	2.214	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong180	Cong180	0.0028	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0031	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong183	Cong183	0.0017	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong185	Cong185	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong190	Cong190	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong193	Cong193	0.0002	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong194	Cong194	0.0004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong195	Cong195	0.0002	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.0004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong198	Cong198	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong199	Cong199	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong201	Cong201	0.0005	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong205	Cong205	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong206	Cong206	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong207	Cong207	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong22	Cong22	0.514	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong25	Cong25	0.585	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong26	Cong26	0.725	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong28	Cong28	2.058	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong31	Cong31	1.376	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong33	Cong33	0.892	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.155	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong40	Cong40	0.157	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong44	Cong44	0.695	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong45	Cong45	0.0573	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong48	Cong48	0.0441	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong49	Cong49	0.583	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong52	Cong52	0.786	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0652	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong63	Cong63	0.0098	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong64	Cong64	0.0041	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.123	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong70	Cong70	0.34	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong71	Cong71	0.0783	J	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong74	Cong74	0.0492	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0322	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0153	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong82	Cong82	0.005	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong83	Cong83	0.0043	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong84	Cong84	0.0176	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0221	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong91	Cong91	0.011	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong92	Cong92	0.0093	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong97	Cong97	0.0109	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Cong99	Cong99	0.0167	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	20.0772	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	7.9E-07	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S10			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	20.0525	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong01	Cong01	0.182	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong03	Cong03	1.6254	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong08	Cong08	0.0197	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong100	Cong100	0.0134	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong105a	Cong105a	0.0114	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong11-27	Cong11-27	1.239	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong114	Cong114	0.0015	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong118a	Cong118a	0.0199	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0058	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.000747	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong128	Cong128	0.0016	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong130	Cong130	0.0009	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong132	Cong132	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong134	Cong134	0.0039	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0027	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong136	Cong136	0.0018	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong137	Cong137	0.0004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0094	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong141	Cong141	0.0016	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong146	Cong146	0.0022	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong151	Cong151	0.0031	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong153	Cong153	0.0078	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong156	Cong156	0.0007	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0008	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong1632	Cong1632	1.348	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong167	Cong167	0.0003	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong169a	Cong169a	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong17	Cong17	0.999	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong170	Cong170	0.0016	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong171	Cong171	0.0004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong172	Cong172	0.0002	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong174	Cong174	0.0019	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong175	Cong175	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong177	Cong177	0.0009	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong179	Cong179	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong18	Cong18	1.225	J	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong180	Cong180	0.0026	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0026	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong183	Cong183	0.0014	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong185	Cong185	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong190	Cong190	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong193	Cong193	0.0002	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong194	Cong194	0.0003	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong195	Cong195	0.0002	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.0003	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong198	Cong198	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong199	Cong199	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong201	Cong201	0.0004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong205	Cong205	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong206	Cong206	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong207	Cong207	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong22	Cong22	0.447	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong25	Cong25	0.4403	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong26	Cong26	0.537	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong28	Cong28	1.333	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong31	Cong31	0.906	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong33	Cong33	0.711	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.276	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong40	Cong40	0.0984	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong44	Cong44	0.436	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong45	Cong45	0.107	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong48	Cong48	0.0834	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong49	Cong49	0.4181	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong52	Cong52	0.654	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.1204	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong63	Cong63	0.016	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong64	Cong64	0.2117	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.2263	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong70	Cong70	0.2157	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong71	Cong71	0.1317	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong74	Cong74	0.0952	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0609	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0262	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong82	Cong82	0.0081	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong83	Cong83	0.0082	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong84	Cong84	0.03	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0398	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong91	Cong91	0.0145	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong92	Cong92	0.0177	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong97	Cong97	0.019	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Cong99	Cong99	0.0273	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	14.4562	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	0.0000012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S11			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	14.4182	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong01	Cong01	0.00249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong03	Cong03	0.0579	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong08	Cong08	0.001245	K	mg/Kg			No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong100	Cong100	0.000498	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong105a	Cong105a	0.0005	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong11-27	Cong11-27	0.0264	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong114	Cong114	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong118a	Cong118a	0.0009	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.000498	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.000747	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong128	Cong128	0.0002	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong130	Cong130	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong132	Cong132	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong134	Cong134	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.000498	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong136	Cong136	0.000498	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong137	Cong137	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0008	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong141	Cong141	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong146	Cong146	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong151	Cong151	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong153	Cong153	0.0009	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong156	Cong156	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.000374	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong1632	Cong1632	0.0268	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong167	Cong167	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong169a	Cong169a	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong17	Cong17	0.0179	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong170	Cong170	0.0002	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong171	Cong171	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong172	Cong172	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong174	Cong174	0.0007	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong175	Cong175	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong177	Cong177	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong179	Cong179	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong18	Cong18	0.0236	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong180	Cong180	0.0004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.000374	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong183	Cong183	0.0002	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong185	Cong185	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong190	Cong190	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong193	Cong193	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong194	Cong194	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong195	Cong195	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong198	Cong198	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong199	Cong199	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong201	Cong201	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong205	Cong205	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong206	Cong206	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong207	Cong207	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong22	Cong22	0.0082	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong25	Cong25	0.0094	J	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong26	Cong26	0.0123	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong28	Cong28	0.0208	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong31	Cong31	0.0162	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong33	Cong33	0.0139	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.0063	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong40	Cong40	0.0021	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong44	Cong44	0.0099	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong45	Cong45	0.0022	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong48	Cong48	0.0015	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong49	Cong49	0.0097	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong52	Cong52	0.0131	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0027	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong63	Cong63	0.0003	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong64	Cong64	0.0043	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.0049	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong70	Cong70	0.0047	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong71	Cong71	0.003	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong74	Cong74	0.0021	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0023	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0009	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong82	Cong82	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong83	Cong83	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong84	Cong84	0.0006	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0014	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong91	Cong91	0.000498	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong92	Cong92	0.000498	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong97	Cong97	0.0005	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Cong99	Cong99	0.0008	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	0.3115	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	6.6E-08	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S12			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	0.3095	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong01	Cong01	0.656	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong03	Cong03	1.96	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong08	Cong08	0.0487	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong100	Cong100	0.0292	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong105a	Cong105a	0.0249	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong11-27	Cong11-27	1.659	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong114	Cong114	0.005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong118a	Cong118a	0.0424	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0163	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0034	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong128	Cong128	0.0039	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong130	Cong130	0.0035	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong132	Cong132	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong134	Cong134	0.0083	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0087	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong136	Cong136	0.0058	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong137	Cong137	0.0016	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0267	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong141	Cong141	0.0046	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong146	Cong146	0.0087	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong151	Cong151	0.01	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong153	Cong153	0.0244	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong156	Cong156	0.0028	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0029	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong1632	Cong1632	0.983	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong167	Cong167	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong169a	Cong169a	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong17	Cong17	0.772	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong170	Cong170	0.0052	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong171	Cong171	0.0021	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong172	Cong172	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong174	Cong174	0.0053	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong175	Cong175	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong177	Cong177	0.0041	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong179	Cong179	0.0028	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong18	Cong18	0.962	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong180	Cong180	0.0083	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0121	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong183	Cong183	0.005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong185	Cong185	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong190	Cong190	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong193	Cong193	0.0009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong194	Cong194	0.0019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong195	Cong195	0.001	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.0016	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong198	Cong198	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong199	Cong199	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong201	Cong201	0.0023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong205	Cong205	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong206	Cong206	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong207	Cong207	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong22	Cong22	0.224	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong25	Cong25	0.5381	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong26	Cong26	0.3642	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong28	Cong28	0.851	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong31	Cong31	0.659	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong33	Cong33	0.682	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.3607	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong40	Cong40	0.127	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong44	Cong44	0.554	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong45	Cong45	0.129	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong48	Cong48	0.1091	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong49	Cong49	0.3266	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong52	Cong52	0.4304	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.1427	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong63	Cong63	0.0493	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong64	Cong64	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.2975	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong70	Cong70	0.2702	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong71	Cong71	0.1895	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong74	Cong74	0.1276	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.1065	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0606	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong82	Cong82	0.0164	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong83	Cong83	0.0175	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong84	Cong84	0.0637	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.1127	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong91	Cong91	0.0542	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong92	Cong92	0.0475	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong97	Cong97	0.0434	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Cong99	Cong99	0.0817	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	14.3663	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	2.892E-06	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S13			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	14.2765	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong01	Cong01	0.002475	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong03	Cong03	0.0702	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong08	Cong08	0.0033	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong100	Cong100	0.0006	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong105a	Cong105a	0.0017	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong11-27	Cong11-27	0.0534	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong114	Cong114	0.0003	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong118a	Cong118a	0.0045	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0023	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0008	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong128	Cong128	0.0009	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong130	Cong130	0.0004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong132	Cong132	0.0006	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong134	Cong134	0.000248	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0005	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong136	Cong136	0.000495	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong137	Cong137	0.0002	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0059	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong141	Cong141	0.0009	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong146	Cong146	0.0013	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong151	Cong151	0.001	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong153	Cong153	0.0058	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong156	Cong156	0.0004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0005	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong1632	Cong1632	0.0501	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong167	Cong167	0.0003	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong169a	Cong169a	0.000248	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong17	Cong17	0.0451	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong170	Cong170	0.0015	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong171	Cong171	0.0004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong172	Cong172	0.0003	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong174	Cong174	0.0015	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong175	Cong175	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong177	Cong177	0.0006	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong179	Cong179	0.0002	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong18	Cong18	0.032	J	mg/Kg			Yes

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong180	Cong180	0.0028	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0029	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong183	Cong183	0.0015	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong185	Cong185	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong190	Cong190	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong193	Cong193	0.0002	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong194	Cong194	0.0004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong195	Cong195	0.0002	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.0003	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong198	Cong198	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong199	Cong199	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong201	Cong201	0.0005	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong205	Cong205	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong206	Cong206	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong207	Cong207	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong22	Cong22	0.0128	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong25	Cong25	0.018	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong26	Cong26	0.0234	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong28	Cong28	0.0495	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong31	Cong31	0.0395	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong33	Cong33	0.0223	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.0129	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong40	Cong40	0.004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong44	Cong44	0.0239	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong45	Cong45	0.0043	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong48	Cong48	0.0045	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong49	Cong49	0.0242	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong52	Cong52	0.0318	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0053	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong63	Cong63	0.0011	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong64	Cong64	0.0098	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.0133	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong70	Cong70	0.0096	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong71	Cong71	0.0061	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong74	Cong74	0.0056	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0072	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0032	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong82	Cong82	0.0005	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong83	Cong83	0.0007	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong84	Cong84	0.0016	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0064	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong91	Cong91	0.0017	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong92	Cong92	0.0018	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong97	Cong97	0.0018	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Cong99	Cong99	0.004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	0.6471	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	3.94E-07	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S14			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	0.6356	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong01	Cong01	0.0684	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong03	Cong03	0.6646	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong08	Cong08	0.0033	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong100	Cong100	0.0032	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong105a	Cong105a	0.0038	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong11-27	Cong11-27	0.456	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong114	Cong114	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong118a	Cong118a	0.0081	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.00075	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong128	Cong128	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong130	Cong130	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong132	Cong132	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong134	Cong134	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong137	Cong137	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0032	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong141	Cong141	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong146	Cong146	0.0009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong151	Cong151	0.001	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong153	Cong153	0.0029	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong156	Cong156	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.000375	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong1632	Cong1632	0.389	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong167	Cong167	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong169a	Cong169a	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong17	Cong17	0.3023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong170	Cong170	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong171	Cong171	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong172	Cong172	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong174	Cong174	0.0009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong175	Cong175	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong177	Cong177	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong179	Cong179	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong18	Cong18	0.449	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong180	Cong180	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong183	Cong183	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong185	Cong185	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong190	Cong190	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong193	Cong193	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong194	Cong194	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong195	Cong195	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong198	Cong198	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong199	Cong199	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong201	Cong201	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong205	Cong205	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong206	Cong206	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong207	Cong207	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong22	Cong22	0.1157	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong25	Cong25	0.1448	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong26	Cong26	0.165	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong28	Cong28	0.3893	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong31	Cong31	0.3019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong33	Cong33	0.1968	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.0923	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong40	Cong40	0.0259	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong44	Cong44	0.123	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong45	Cong45	0.0349	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong48	Cong48	0.0355	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong49	Cong49	0.1418	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong52	Cong52	0.1919	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0421	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong63	Cong63	0.0051	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong64	Cong64	0.0687	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.0589	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong70	Cong70	0.0527	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong71	Cong71	0.04	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong74	Cong74	0.0195	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0189	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0084	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong82	Cong82	0.0024	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong83	Cong83	0.0019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong84	Cong84	0.0077	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0137	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong91	Cong91	0.0058	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong92	Cong92	0.005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong97	Cong97	0.0057	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Cong99	Cong99	0.0084	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	4.6908	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	4.49E-07	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S15			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	4.6765	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong01	Cong01	0.002485	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong03	Cong03	0.0808	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong08	Cong08	0.001243	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong100	Cong100	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong105a	Cong105a	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong11-27	Cong11-27	0.0413	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong114	Cong114	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong118a	Cong118a	0.0036	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0026	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong128	Cong128	0.001	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong130	Cong130	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong132	Cong132	0.001	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong134	Cong134	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong137	Cong137	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0066	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong141	Cong141	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong146	Cong146	0.0014	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong151	Cong151	0.0013	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong153	Cong153	0.0068	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong156	Cong156	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong1632	Cong1632	0.028	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong167	Cong167	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong169a	Cong169a	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong17	Cong17	0.0283	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong170	Cong170	0.0019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong171	Cong171	0.001	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong172	Cong172	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong174	Cong174	0.0019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong175	Cong175	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong177	Cong177	0.0009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong179	Cong179	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong18	Cong18	0.3703	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong180	Cong180	0.0034	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0037	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong183	Cong183	0.0018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong185	Cong185	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong190	Cong190	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong193	Cong193	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong194	Cong194	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong195	Cong195	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong198	Cong198	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong199	Cong199	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong201	Cong201	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong205	Cong205	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong206	Cong206	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong207	Cong207	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong22	Cong22	0.0053	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong25	Cong25	0.0114	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong26	Cong26	0.0138	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong28	Cong28	0.032	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong31	Cong31	0.0213	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong33	Cong33	0.0157	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.0134	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong40	Cong40	0.0039	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong44	Cong44	0.0115	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong45	Cong45	0.0036	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong48	Cong48	0.0038	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong49	Cong49	0.0146	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong52	Cong52	0.0191	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong63	Cong63	0.001	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong64	Cong64	0.0096	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.0123	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong70	Cong70	0.01	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong71	Cong71	0.0069	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong74	Cong74	0.005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0065	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0028	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong82	Cong82	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong83	Cong83	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong84	Cong84	0.0017	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0056	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong91	Cong91	0.0013	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong92	Cong92	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong97	Cong97	0.0017	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Cong99	Cong99	0.0032	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	0.8416	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	3.95E-07	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S16			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	0.8306	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong01	Cong01	0.0847	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong03	Cong03	0.9791	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong08	Cong08	0.0043	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong100	Cong100	0.0065	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong105a	Cong105a	0.0086	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong11-27	Cong11-27	0.507	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong114	Cong114	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong118a	Cong118a	0.0168	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0046	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong128	Cong128	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong130	Cong130	0.0008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong132	Cong132	0.0017	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong134	Cong134	0.0041	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong136	Cong136	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong137	Cong137	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0092	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong141	Cong141	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong146	Cong146	0.0023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong151	Cong151	0.0024	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong153	Cong153	0.009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong156	Cong156	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong1632	Cong1632	0.648	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong167	Cong167	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong169a	Cong169a	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong17	Cong17	0.544	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong170	Cong170	0.002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong171	Cong171	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong172	Cong172	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong174	Cong174	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong175	Cong175	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong177	Cong177	0.001	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong179	Cong179	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong18	Cong18	0.776	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong180	Cong180	0.0038	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0041	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong183	Cong183	0.0022	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong185	Cong185	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong190	Cong190	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong193	Cong193	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong194	Cong194	0.0009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong195	Cong195	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong198	Cong198	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong199	Cong199	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong201	Cong201	0.0009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong205	Cong205	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong206	Cong206	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong207	Cong207	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong22	Cong22	0.2179	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong25	Cong25	0.2488	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong26	Cong26	0.3206	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong28	Cong28	0.7487	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong31	Cong31	0.56	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong33	Cong33	0.3859	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.1257	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong40	Cong40	0.0437	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong44	Cong44	0.298	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong45	Cong45	0.0444	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong48	Cong48	0.0402	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong49	Cong49	0.3128	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong52	Cong52	0.415	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0594	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong63	Cong63	0.01	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong64	Cong64	0.1421	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.1214	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong70	Cong70	0.1655	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong71	Cong71	0.0644	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong74	Cong74	0.0505	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0372	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0186	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong82	Cong82	0.0059	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong83	Cong83	0.0045	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong84	Cong84	0.0193	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0289	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong91	Cong91	0.0132	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong92	Cong92	0.0107	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong97	Cong97	0.0121	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Cong99	Cong99	0.0211	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	8.185	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	1.069E-06	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S17			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	8.1515	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong01	Cong01	0.0736	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong03	Cong03	0.3757	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong08	Cong08	0.004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong100	Cong100	0.0018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong105a	Cong105a	0.0029	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong11-27	Cong11-27	0.309	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong114	Cong114	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong118a	Cong118a	0.0056	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0014	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.00075	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong128	Cong128	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong130	Cong130	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong132	Cong132	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong134	Cong134	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0005	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong136	Cong136	0.0005	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong137	Cong137	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0029	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong141	Cong141	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong146	Cong146	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong151	Cong151	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong153	Cong153	0.0029	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong156	Cong156	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.000375	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong1632	Cong1632	0.212	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong167	Cong167	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong169a	Cong169a	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong17	Cong17	0.264	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong170	Cong170	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong171	Cong171	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong172	Cong172	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong174	Cong174	0.0009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong175	Cong175	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong177	Cong177	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong179	Cong179	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong18	Cong18	0.17	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong180	Cong180	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong183	Cong183	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong185	Cong185	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong190	Cong190	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong193	Cong193	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong194	Cong194	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong195	Cong195	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong198	Cong198	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong199	Cong199	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong201	Cong201	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong205	Cong205	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong206	Cong206	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong207	Cong207	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong22	Cong22	0.0592	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong25	Cong25	0.0877	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong26	Cong26	0.1024	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong28	Cong28	0.219	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong31	Cong31	0.178	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong33	Cong33	0.1083	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.0532	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong40	Cong40	0.0128	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong44	Cong44	0.076	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong45	Cong45	0.0187	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong48	Cong48	0.0112	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong49	Cong49	0.0766	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong52	Cong52	0.0999	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0188	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong63	Cong63	0.0029	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong64	Cong64	0.0312	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.0396	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong70	Cong70	0.0348	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong71	Cong71	0.0233	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong74	Cong74	0.0165	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0122	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0054	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong82	Cong82	0.0014	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong83	Cong83	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong84	Cong84	0.0047	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0087	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong91	Cong91	0.0036	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong92	Cong92	0.003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong97	Cong97	0.0036	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Cong99	Cong99	0.0055	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	2.7536	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	3.44E-07	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S18			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	2.7428	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong01	Cong01	0.0396	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong03	Cong03	0.2924	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong08	Cong08	0.285	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong100	Cong100	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong105a	Cong105a	0.0023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong11-27	Cong11-27	0.2759	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong114	Cong114	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong118a	Cong118a	0.0446	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0013	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.000746	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong128	Cong128	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong130	Cong130	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong132	Cong132	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong134	Cong134	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.000497	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong136	Cong136	0.000497	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong137	Cong137	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0026	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong141	Cong141	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong146	Cong146	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong151	Cong151	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong153	Cong153	0.0024	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong156	Cong156	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.000373	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong1632	Cong1632	0.115	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong167	Cong167	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong169a	Cong169a	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong17	Cong17	0.0732	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong170	Cong170	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong171	Cong171	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong172	Cong172	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong174	Cong174	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong175	Cong175	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong177	Cong177	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong179	Cong179	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong18	Cong18	0.105	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong180	Cong180	0.001	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong183	Cong183	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong185	Cong185	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong190	Cong190	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong193	Cong193	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong194	Cong194	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong195	Cong195	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong198	Cong198	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong199	Cong199	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong201	Cong201	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong205	Cong205	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong206	Cong206	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong207	Cong207	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong22	Cong22	0.0279	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong25	Cong25	0.0734	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong26	Cong26	0.0927	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong28	Cong28	0.0951	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong31	Cong31	0.0838	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong33	Cong33	0.0494	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.0352	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong40	Cong40	0.0162	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong44	Cong44	0.084	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong45	Cong45	0.0141	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong48	Cong48	0.0191	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong49	Cong49	0.0887	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong52	Cong52	0.0582	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0159	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong63	Cong63	0.0025	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong64	Cong64	0.041	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.0351	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong70	Cong70	0.0385	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong71	Cong71	0.0194	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong74	Cong74	0.0146	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0108	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0052	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong82	Cong82	0.0014	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong83	Cong83	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong84	Cong84	0.0042	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0084	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong91	Cong91	0.0033	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong92	Cong92	0.0029	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong97	Cong97	0.0031	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Cong99	Cong99	0.005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	2.1988	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	1.486E-06	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S19			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	2.15	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong01	Cong01	0.0271	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong03	Cong03	0.3641	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong08	Cong08	0.0033	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong100	Cong100	0.019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong105a	Cong105a	0.0139	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong11-27	Cong11-27	0.429	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong114	Cong114	0.0037	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong118a	Cong118a	0.0437	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0147	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0031	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong128	Cong128	0.0039	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong130	Cong130	0.0035	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong132	Cong132	0.0053	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong134	Cong134	0.0025	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0063	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong136	Cong136	0.0034	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong137	Cong137	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.031	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong141	Cong141	0.0049	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong146	Cong146	0.0106	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong151	Cong151	0.0089	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong153	Cong153	0.0328	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong156	Cong156	0.0034	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0029	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong1632	Cong1632	0.366	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong167	Cong167	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong169a	Cong169a	0.000248	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong17	Cong17	0.234	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong170	Cong170	0.0069	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong171	Cong171	0.0018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong172	Cong172	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong174	Cong174	0.0058	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong175	Cong175	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong177	Cong177	0.0043	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong179	Cong179	0.0019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong18	Cong18	0.227	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong180	Cong180	0.0133	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0215	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong183	Cong183	0.0079	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong185	Cong185	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong190	Cong190	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong193	Cong193	0.0009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong194	Cong194	0.0033	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong195	Cong195	0.001	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong198	Cong198	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong199	Cong199	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong201	Cong201	0.0054	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong205	Cong205	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong206	Cong206	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong207	Cong207	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong22	Cong22	0.0846	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong25	Cong25	0.1286	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong26	Cong26	0.2	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong28	Cong28	0.406	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong31	Cong31	0.298	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong33	Cong33	0.0424	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.183	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong40	Cong40	0.039	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong44	Cong44	0.168	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong45	Cong45	0.0349	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong48	Cong48	0.0526	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong49	Cong49	0.325	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong52	Cong52	0.359	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0491	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong63	Cong63	0.0257	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong64	Cong64	0.0935	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.197	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong70	Cong70	0.113	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong71	Cong71	0.0934	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong74	Cong74	0.0894	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.1028	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0385	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong82	Cong82	0.0079	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong83	Cong83	0.0014	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong84	Cong84	0.0243	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0929	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong91	Cong91	0.0383	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong92	Cong92	0.0412	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong97	Cong97	0.0273	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Cong99	Cong99	0.0591	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	5.3652	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	0.0000028	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S20			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	5.2791	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong01	Cong01	0.0239	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong03	Cong03	0.3671	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong08	Cong08	0.0023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong100	Cong100	0.0201	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong105a	Cong105a	0.0161	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong11-27	Cong11-27	0.455	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong114	Cong114	0.0044	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong118a	Cong118a	0.0342	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0197	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0026	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong128	Cong128	0.0049	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong130	Cong130	0.0045	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong132	Cong132	0.009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong134	Cong134	0.0031	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0082	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong136	Cong136	0.0051	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong137	Cong137	0.0021	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0401	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong141	Cong141	0.0058	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong146	Cong146	0.0133	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong151	Cong151	0.0132	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong153	Cong153	0.0415	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong156	Cong156	0.0039	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0043	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong1632	Cong1632	0.385	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong167	Cong167	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong169a	Cong169a	0.000248	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong17	Cong17	0.2179	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong170	Cong170	0.01	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong171	Cong171	0.0028	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong172	Cong172	0.0018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong174	Cong174	0.0091	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong175	Cong175	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong177	Cong177	0.0059	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong179	Cong179	0.0035	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong18	Cong18	0.163	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong180	Cong180	0.0176	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0232	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong183	Cong183	0.0107	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong185	Cong185	0.0009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong190	Cong190	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong193	Cong193	0.0017	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong194	Cong194	0.005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong195	Cong195	0.0017	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong198	Cong198	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong199	Cong199	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong201	Cong201	0.0048	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong205	Cong205	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong206	Cong206	0.0008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong207	Cong207	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong22	Cong22	0.0688	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong25	Cong25	0.121	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong26	Cong26	0.197	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong28	Cong28	0.364	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong31	Cong31	0.257	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong33	Cong33	0.0396	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.127	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong40	Cong40	0.0482	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong44	Cong44	0.14	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong45	Cong45	0.0405	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong48	Cong48	0.0039	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong49	Cong49	0.293	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong52	Cong52	0.321	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0523	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong63	Cong63	0.036	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong64	Cong64	0.0752	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.1295	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong70	Cong70	0.0815	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong71	Cong71	0.0882	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong74	Cong74	0.0585	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.1303	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0486	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong82	Cong82	0.0088	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong83	Cong83	0.0014	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong84	Cong84	0.0305	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.1163	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong91	Cong91	0.0521	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong92	Cong92	0.0521	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong97	Cong97	0.0322	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Cong99	Cong99	0.08	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	5.0727	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	2.979E-06	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S21			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	4.985	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong01	Cong01	0.012376	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong03	Cong03	0.1664	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong08	Cong08	0.006188	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong100	Cong100	0.002475	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong105a	Cong105a	0.001238	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong11-27	Cong11-27	0.1202	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong114	Cong114	0.001238	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong118a	Cong118a	0.0042	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.002475	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.003713	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong128	Cong128	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong130	Cong130	0.001238	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong132	Cong132	0.001238	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong134	Cong134	0.001238	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.002475	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong136	Cong136	0.002475	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong137	Cong137	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0043	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong141	Cong141	0.001238	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong146	Cong146	0.001238	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong151	Cong151	0.001238	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong153	Cong153	0.0019	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong156	Cong156	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.001856	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong1632	Cong1632	0.1104	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong167	Cong167	0.001238	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong169a	Cong169a	0.001238	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong17	Cong17	0.0967	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong170	Cong170	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong171	Cong171	0.001238	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong172	Cong172	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong174	Cong174	0.0023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong175	Cong175	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong177	Cong177	0.001238	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong179	Cong179	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong18	Cong18	0.108	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong180	Cong180	0.0013	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.001856	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong183	Cong183	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong185	Cong185	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong190	Cong190	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong193	Cong193	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong194	Cong194	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong195	Cong195	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.001238	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong198	Cong198	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong199	Cong199	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong201	Cong201	0.0041	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong205	Cong205	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong206	Cong206	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong207	Cong207	0.000619	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong22	Cong22	0.0343	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong25	Cong25	0.036	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong26	Cong26	0.0484	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong28	Cong28	0.108	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong31	Cong31	0.0952	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong33	Cong33	0.0615	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.0321	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong40	Cong40	0.0097	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong44	Cong44	0.0445	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong45	Cong45	0.0117	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong48	Cong48	0.0152	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong49	Cong49	0.0577	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong52	Cong52	0.0757	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0138	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong63	Cong63	0.0022	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong64	Cong64	0.026	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.0306	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong70	Cong70	0.026	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong71	Cong71	0.016	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong74	Cong74	0.0114	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.012	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0056	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong82	Cong82	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong83	Cong83	0.001238	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong84	Cong84	0.0046	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0092	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong91	Cong91	0.0034	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong92	Cong92	0.0045	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong97	Cong97	0.0038	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Cong99	Cong99	0.0054	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	1.4258	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	1.39E-07	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S22			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	1.4203	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong01	Cong01	0.0316	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong03	Cong03	0.4308	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong08	Cong08	0.0043	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong100	Cong100	0.0036	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong105a	Cong105a	0.0044	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong11-27	Cong11-27	0.315	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong114	Cong114	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong118a	Cong118a	0.0086	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong128	Cong128	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong130	Cong130	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong132	Cong132	0.0008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong134	Cong134	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong136	Cong136	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong137	Cong137	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0049	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong141	Cong141	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong146	Cong146	0.0013	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong151	Cong151	0.0014	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong153	Cong153	0.004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong156	Cong156	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.000373	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong1632	Cong1632	0.243	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong167	Cong167	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong169a	Cong169a	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong17	Cong17	0.186	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong170	Cong170	0.001	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong171	Cong171	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong172	Cong172	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong174	Cong174	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong175	Cong175	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong177	Cong177	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong179	Cong179	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong18	Cong18	0.274	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong180	Cong180	0.0016	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0019	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong183	Cong183	0.0009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong185	Cong185	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong190	Cong190	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong193	Cong193	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong194	Cong194	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong195	Cong195	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong198	Cong198	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong199	Cong199	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong201	Cong201	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong205	Cong205	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong206	Cong206	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong207	Cong207	0.000124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong22	Cong22	0.0703	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong25	Cong25	0.0942	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong26	Cong26	0.1038	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong28	Cong28	0.2669	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong31	Cong31	0.1907	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong33	Cong33	0.1152	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.0589	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong40	Cong40	0.019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong44	Cong44	0.0937	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong45	Cong45	0.0231	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong48	Cong48	0.0099	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong49	Cong49	0.0973	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong52	Cong52	0.1305	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0292	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong63	Cong63	0.0056	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong64	Cong64	0.0448	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.0593	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong70	Cong70	0.0558	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong71	Cong71	0.0322	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong74	Cong74	0.0258	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0206	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0098	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong82	Cong82	0.0025	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong83	Cong83	0.0017	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong84	Cong84	0.007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0165	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong91	Cong91	0.0064	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong92	Cong92	0.0059	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong97	Cong97	0.0063	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Cong99	Cong99	0.0104	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	3.1431	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	5.36E-07	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S23			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	3.1265	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong01	Cong01	0.0127	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong03	Cong03	0.2192	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong08	Cong08	0.0024	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong100	Cong100	0.0018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong105a	Cong105a	0.0031	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong11-27	Cong11-27	0.2552	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong114	Cong114	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong118a	Cong118a	0.0047	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.000747	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong128	Cong128	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong130	Cong130	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong132	Cong132	0.0008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong134	Cong134	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.000498	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong136	Cong136	0.000498	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong137	Cong137	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0025	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong141	Cong141	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong146	Cong146	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong151	Cong151	0.0008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong153	Cong153	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong156	Cong156	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.000374	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong1632	Cong1632	0.1909	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong167	Cong167	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong169a	Cong169a	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong17	Cong17	0.1132	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong170	Cong170	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong171	Cong171	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong172	Cong172	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong174	Cong174	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong175	Cong175	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong177	Cong177	0.0003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong179	Cong179	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong18	Cong18	0.164	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong180	Cong180	0.0004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong183	Cong183	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong185	Cong185	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong190	Cong190	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong193	Cong193	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong194	Cong194	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong195	Cong195	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.000249	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong198	Cong198	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong199	Cong199	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong201	Cong201	0.0006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong205	Cong205	0.0002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong206	Cong206	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong207	Cong207	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong22	Cong22	0.0499	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong25	Cong25	0.0614	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong26	Cong26	0.083	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong28	Cong28	0.1593	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong31	Cong31	0.1491	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong33	Cong33	0.0922	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.0443	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong40	Cong40	0.0146	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong44	Cong44	0.0599	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong45	Cong45	0.0178	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong48	Cong48	0.0101	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong49	Cong49	0.0689	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong52	Cong52	0.0942	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0207	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong63	Cong63	0.0034	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong64	Cong64	0.0334	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.0391	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong70	Cong70	0.0357	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong71	Cong71	0.0216	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong74	Cong74	0.0182	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0115	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0058	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong82	Cong82	0.0018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong83	Cong83	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong84	Cong84	0.0052	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0086	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong91	Cong91	0.0039	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong92	Cong92	0.0037	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong97	Cong97	0.004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Cong99	Cong99	0.0047	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	2.1053	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	2.74E-07	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S24			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	2.0966	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong01	Cong01	0.125	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong03	Cong03	1.2182	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong08	Cong08	0.0021	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong100	Cong100	0.0021	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong105a	Cong105a	0.0021	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong11-27	Cong11-27	0.92	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong114	Cong114	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong118a	Cong118a	0.0044	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0009	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.000749	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong128	Cong128	0.0002	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong130	Cong130	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong132	Cong132	0.0007	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong134	Cong134	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.000499	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong136	Cong136	0.0006	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong137	Cong137	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0017	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong141	Cong141	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong146	Cong146	0.0005	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong151	Cong151	0.0007	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong153	Cong153	0.0013	J	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong156	Cong156	0.0002	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.000374	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong1632	Cong1632	0.729	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong167	Cong167	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong169a	Cong169a	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong17	Cong17	0.555	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong170	Cong170	0.0002	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong171	Cong171	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong172	Cong172	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong175	Cong175	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong177	Cong177	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong179	Cong179	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong18	Cong18	0.769	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong180	Cong180	0.0005	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0007	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong183	Cong183	0.0004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong185	Cong185	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong190	Cong190	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong193	Cong193	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong194	Cong194	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong195	Cong195	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.00025	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong198	Cong198	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong199	Cong199	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong201	Cong201	0.0008	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong205	Cong205	0.0002	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong206	Cong206	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong207	Cong207	0.000125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong22	Cong22	0.191	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong25	Cong25	0.2985	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong26	Cong26	0.282	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong28	Cong28	0.658	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong31	Cong31	0.478	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong33	Cong33	0.3322	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.1444	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong40	Cong40	0.0553	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong44	Cong44	0.2524	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong45	Cong45	0.0357	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong48	Cong48	0.0347	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong49	Cong49	0.283	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong52	Cong52	0.3131	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0576	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong63	Cong63	0.0037	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong64	Cong64	0.1298	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.1165	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong70	Cong70	0.134	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong71	Cong71	0.0788	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong74	Cong74	0.0183	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0123	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0055	J	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong82	Cong82	0.0016	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong83	Cong83	0.0014	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong84	Cong84	0.0061	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0088	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong91	Cong91	0.0042	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong92	Cong92	0.0042	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong97	Cong97	0.0042	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Cong99	Cong99	0.0055	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	8.2873	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	2.26E-07	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S25			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	8.2799	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong01	Cong01	0.012425	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong03	Cong03	0.4413	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong08	Cong08	0.006213	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong105a	Cong105a	0.0072	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong11-27	Cong11-27	0.424	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong114	Cong114	0.001243	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong118a	Cong118a	0.0155	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0036	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.003728	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong128	Cong128	0.0011	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong130	Cong130	0.001243	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong132	Cong132	0.0018	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong134	Cong134	0.001243	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong136	Cong136	0.002485	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong137	Cong137	0.000621	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0078	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong141	Cong141	0.001243	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong146	Cong146	0.0019	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong151	Cong151	0.0021	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong153	Cong153	0.0077	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong156	Cong156	0.000621	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000621	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.001864	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong1632	Cong1632	0.249	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong167	Cong167	0.001243	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong169a	Cong169a	0.001243	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong17	Cong17	0.273	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong170	Cong170	0.0011	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong171	Cong171	0.001243	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong172	Cong172	0.000621	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong174	Cong174	0.001243	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong175	Cong175	0.000621	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong177	Cong177	0.001243	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong179	Cong179	0.000621	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong18	Cong18	0.0171	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong180	Cong180	0.0027	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0031	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong183	Cong183	0.0015	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong185	Cong185	0.000621	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong190	Cong190	0.000621	K	mg/Kg			No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong193	Cong193	0.000621	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong194	Cong194	0.000621	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong195	Cong195	0.000621	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.001243	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong198	Cong198	0.000621	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong199	Cong199	0.000621	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong201	Cong201	0.0007	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong205	Cong205	0.000621	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong206	Cong206	0.000621	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong207	Cong207	0.000621	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong22	Cong22	0.0984	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong25	Cong25	0.105	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong26	Cong26	0.138	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong28	Cong28	0.348	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong31	Cong31	0.198	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong33	Cong33	0.177	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.113	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong40	Cong40	0.032	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong44	Cong44	0.139	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong45	Cong45	0.0342	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong48	Cong48	0.0373	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong49	Cong49	0.15	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong52	Cong52	0.198	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.0538	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong63	Cong63	0.0091	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong64	Cong64	0.0724	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.111	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong70	Cong70	0.0967	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong71	Cong71	0.0565	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong74	Cong74	0.0471	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.0359	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0171	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong82	Cong82	0.0043	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong83	Cong83	0.0032	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong84	Cong84	0.0124	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.0271	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong91	Cong91	0.0098	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong92	Cong92	0.0092	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong97	Cong97	0.0112	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Cong99	Cong99	0.0165	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	3.8234	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	8.18E-07	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S26			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	3.7969	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong01	Cong01	0.284	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong03	Cong03	4.983	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong08	Cong08	0.0269	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong100	Cong100	0.0769	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong105a	Cong105a	0.0967	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong11-27	Cong11-27	7.701	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong114	Cong114	0.0148	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong118a	Cong118a	0.278	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0734	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0074	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong128	Cong128	0.0189	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong130	Cong130	0.0131	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong132	Cong132	0.0306	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong134	Cong134	0.011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0273	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong136	Cong136	0.0192	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong137	Cong137	0.0052	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.1277	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong141	Cong141	0.0168	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong146	Cong146	0.0384	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong151	Cong151	0.0404	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong153	Cong153	0.118	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong156	Cong156	0.0103	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.0009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.001871	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong1632	Cong1632	5.46	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong167	Cong167	0.0035	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong169a	Cong169a	0.001248	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong17	Cong17	3.259	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong170	Cong170	0.0325	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong171	Cong171	0.0099	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong172	Cong172	0.0057	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong174	Cong174	0.0221	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong177	Cong177	0.0174	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong179	Cong179	0.0133	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong18	Cong18	3.785	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong180	Cong180	0.0592	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.077	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong183	Cong183	0.0281	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong185	Cong185	0.0021	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong190	Cong190	0.0017	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong193	Cong193	0.0035	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong194	Cong194	0.0171	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong195	Cong195	0.0066	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.0171	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong198	Cong198	0.0007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong199	Cong199	0.0013	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong201	Cong201	0.0165	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong205	Cong205	0.000624	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong206	Cong206	0.0046	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong207	Cong207	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong22	Cong22	1.22	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong25	Cong25	1.507	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong26	Cong26	2.37	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong28	Cong28	4.049	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong31	Cong31	3.938	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong33	Cong33	1.308	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong37-42	Cong37-42	1.35	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong40	Cong40	0.34	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong44	Cong44	1.962	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong45	Cong45	0.321	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong48	Cong48	0.37	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong49	Cong49	2.898	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong52	Cong52	3.321	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.482	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong63	Cong63	0.148	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong64	Cong64	0.875	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong66-95	Cong66-95	1.253	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong70	Cong70	1.179	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong71	Cong71	0.867	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong74	Cong74	0.587	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.538	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.154	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong82	Cong82	0.0468	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong83	Cong83	0.0593	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong84	Cong84	0.158	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.432	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong91	Cong91	0.176	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong92	Cong92	0.153	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong97	Cong97	0.16	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Cong99	Cong99	0.287	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	59.3744	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	1.594E-05	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S27			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	58.8794	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong01	Cong01	0.164	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong03	Cong03	3.889	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong08	Cong08	0.0166	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong100	Cong100	0.0713	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong105a	Cong105a	0.0893	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong11-27	Cong11-27	4.89	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong114	Cong114	0.0138	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong118a	Cong118a	0.2406	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.076	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0069	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong128	Cong128	0.0189	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong130	Cong130	0.0131	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong132	Cong132	0.0311	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong134	Cong134	0.0107	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0275	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong136	Cong136	0.0184	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong137	Cong137	0.0056	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.1338	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong141	Cong141	0.0171	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong146	Cong146	0.0391	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong151	Cong151	0.0418	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong153	Cong153	0.107	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong156	Cong156	0.0124	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.001	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.001875	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong1632	Cong1632	3.564	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong167	Cong167	0.0045	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong169a	Cong169a	0.00125	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong17	Cong17	2.248	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong170	Cong170	0.0331	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong171	Cong171	0.0079	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong172	Cong172	0.0046	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong174	Cong174	0.0235	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong175	Cong175	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong177	Cong177	0.0174	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong179	Cong179	0.0134	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong18	Cong18	2.063	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong180	Cong180	0.0609	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0875	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong183	Cong183	0.0247	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong185	Cong185	0.0023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong190	Cong190	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong193	Cong193	0.0041	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong194	Cong194	0.0165	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong195	Cong195	0.0056	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.017	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong198	Cong198	0.0005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong199	Cong199	0.0016	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong201	Cong201	0.0165	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong205	Cong205	0.000625	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong206	Cong206	0.0045	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong207	Cong207	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong22	Cong22	0.712	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong25	Cong25	0.871	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong26	Cong26	1.464	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong28	Cong28	2.869	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong31	Cong31	2.202	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong33	Cong33	0.718	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.995	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong40	Cong40	0.238	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong44	Cong44	1.263	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong45	Cong45	0.231	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong48	Cong48	0.32	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong49	Cong49	2.005	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong52	Cong52	2.253	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.352	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong63	Cong63	0.1235	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong64	Cong64	0.671	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong66-95	Cong66-95	1.008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong70	Cong70	0.787	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong71	Cong71	0.648	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong74	Cong74	0.472	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.464	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.1415	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong82	Cong82	0.041	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong83	Cong83	0.0591	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong84	Cong84	0.146	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.375	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong91	Cong91	0.179	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong92	Cong92	0.156	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong97	Cong97	0.128	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Cong99	Cong99	0.244	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	40.2963	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	1.474E-05	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S28			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	39.8417	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong01	Cong01	0.144	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong03	Cong03	5.405	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong08	Cong08	0.0129	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong100	Cong100	0.159	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong105a	Cong105a	0.356	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong11-27	Cong11-27	9.405	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong114	Cong114	0.0635	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong118a	Cong118a	0.9967	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.2902	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0288	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong128	Cong128	0.084	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong130	Cong130	0.0572	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong132	Cong132	0.1319	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong134	Cong134	0.0355	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.1142	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong136	Cong136	0.0612	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong137	Cong137	0.0238	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.555	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong141	Cong141	0.0813	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong146	Cong146	0.1236	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong151	Cong151	0.1389	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong153	Cong153	0.43	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong156	Cong156	0.0492	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.0071	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0471	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong1632	Cong1632	7.164	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong167	Cong167	0.0216	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong169a	Cong169a	0.001238	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong17	Cong17	4.288	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong170	Cong170	0.1322	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong171	Cong171	0.0325	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong172	Cong172	0.0208	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong174	Cong174	0.089	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong175	Cong175	0.0062	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong177	Cong177	0.0704	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong179	Cong179	0.0466	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong18	Cong18	2.424	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong180	Cong180	0.203	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.295	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong183	Cong183	0.112	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong185	Cong185	0.0096	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong190	Cong190	0.0027	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong193	Cong193	0.0226	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong194	Cong194	0.0628	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong195	Cong195	0.0203	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.0585	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong198	Cong198	0.0032	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong199	Cong199	0.0057	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong201	Cong201	0.0536	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong205	Cong205	0.0013	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong206	Cong206	0.014	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong207	Cong207	0.0043	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong22	Cong22	1.196	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong25	Cong25	1.399	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong26	Cong26	2.83	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong28	Cong28	6.455	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong31	Cong31	3.841	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong33	Cong33	0.836	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong37-42	Cong37-42	2.562	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong40	Cong40	0.611	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong44	Cong44	6.146	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong45	Cong45	0.421	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong48	Cong48	1.435	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong49	Cong49	5.791	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong52	Cong52	6.187	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.926	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong63	Cong63	0.383	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong64	Cong64	1.779	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong66-95	Cong66-95	3.79	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong70	Cong70	1.943	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong71	Cong71	1.657	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong74	Cong74	1.637	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	1.723	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.754	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong82	Cong82	0.174	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong83	Cong83	0.194	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong84	Cong84	0.498	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong90-101	Cong90-101	1.429	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong91	Cong91	0.611	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong92	Cong92	0.494	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong97	Cong97	0.532	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Cong99	Cong99	0.926	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	93.125	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	5.986E-05	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S29			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	91.3028	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong01	Cong01	0.0248	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong03	Cong03	0.975	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong08	Cong08	0.006225	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong100	Cong100	0.0266	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong105a	Cong105a	0.0369	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong11-27	Cong11-27	1.472	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong114	Cong114	0.0068	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong118a	Cong118a	0.0985	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0381	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0055	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong128	Cong128	0.0089	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong132	Cong132	0.015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong134	Cong134	0.0043	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0134	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong136	Cong136	0.0095	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong137	Cong137	0.0025	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0661	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong141	Cong141	0.0088	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong146	Cong146	0.0203	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong151	Cong151	0.0211	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong153	Cong153	0.0661	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong156	Cong156	0.0047	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000623	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.001868	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong1632	Cong1632	0.995	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong167	Cong167	0.0019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong169a	Cong169a	0.001245	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong17	Cong17	0.454	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong170	Cong170	0.0155	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong171	Cong171	0.0043	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong172	Cong172	0.0024	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong174	Cong174	0.0109	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong175	Cong175	0.0008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong177	Cong177	0.009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong179	Cong179	0.0075	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong18	Cong18	0.508	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong180	Cong180	0.0293	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0392	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong183	Cong183	0.0161	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong185	Cong185	0.0012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong190	Cong190	0.000623	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong193	Cong193	0.002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong194	Cong194	0.0069	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong195	Cong195	0.0023	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong198	Cong198	0.000623	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong199	Cong199	0.000623	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong201	Cong201	0.008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong205	Cong205	0.000623	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong206	Cong206	0.0016	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong207	Cong207	0.000623	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong22	Cong22	0.201	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong25	Cong25	0.25	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong26	Cong26	0.474	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong28	Cong28	0.916	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong31	Cong31	0.703	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong33	Cong33	0.0572	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.34	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong40	Cong40	0.08	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong44	Cong44	0.466	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong45	Cong45	0.0761	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong48	Cong48	0.121	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong49	Cong49	0.781	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong52	Cong52	0.931	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.124	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong63	Cong63	0.0499	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong64	Cong64	0.241	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.372	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong70	Cong70	0.254	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong71	Cong71	0.227	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong74	Cong74	0.178	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.202	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.064	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong82	Cong82	0.0166	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong83	Cong83	0.026	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong84	Cong84	0.0573	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.1851	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong91	Cong91	0.0673	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong92	Cong92	0.0672	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong97	Cong97	0.0569	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Cong99	Cong99	0.1178	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	12.7512	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	6.307E-06	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S30			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	12.5576	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong01	Cong01	0.121	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong03	Cong03	3.254	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong08	Cong08	0.009	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong100	Cong100	0.0217	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong105a	Cong105a	0.0397	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong11-27	Cong11-27	2.307	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong114	Cong114	0.0054	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong118a	Cong118a	0.0975	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.0277	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0038	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong128	Cong128	0.0066	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong132	Cong132	0.0103	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong134	Cong134	0.003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0091	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong136	Cong136	0.006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong137	Cong137	0.002	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.0482	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong141	Cong141	0.0064	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong146	Cong146	0.0128	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong151	Cong151	0.041	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong153	Cong153	0.0392	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong156	Cong156	0.0037	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.000623	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.001868	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong1632	Cong1632	1.69	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong167	Cong167	0.001245	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong169a	Cong169a	0.001245	K	mg/Kg			No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong17	Cong17	1.144	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong170	Cong170	0.0115	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong171	Cong171	0.0026	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong172	Cong172	0.0016	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong174	Cong174	0.0074	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong177	Cong177	0.0058	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong179	Cong179	0.0047	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong18	Cong18	1.288	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong180	Cong180	0.0208	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.0368	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong183	Cong183	0.0093	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong185	Cong185	0.0008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong190	Cong190	0.000623	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong193	Cong193	0.0013	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong194	Cong194	0.0056	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong195	Cong195	0.0019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.0056	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong198	Cong198	0.000623	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong199	Cong199	0.000623	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong201	Cong201	0.0048	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong205	Cong205	0.000623	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong206	Cong206	0.0011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong207	Cong207	0.000623	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong22	Cong22	0.3656	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong25	Cong25	0.509	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong26	Cong26	0.785	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong28	Cong28	1.273	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong31	Cong31	1.153	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong33	Cong33	0.7614	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.456	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong40	Cong40	0.135	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong44	Cong44	0.694	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong45	Cong45	0.131	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong48	Cong48	0.1826	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong49	Cong49	0.804	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong52	Cong52	0.97	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.208	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong63	Cong63	0.0423	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong64	Cong64	0.353	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.49	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong70	Cong70	0.421	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong71	Cong71	0.26	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong74	Cong74	0.216	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.2018	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.0641	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong82	Cong82	0.0196	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong83	Cong83	0.0195	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong84	Cong84	0.0587	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.1438	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong91	Cong91	0.0573	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong92	Cong92	0.0533	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong97	Cong97	0.0614	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Cong99	Cong99	0.0904	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	21.2985	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	5.747E-06	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S31			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	21.1199	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong01	Cong01	0.623	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong03	Cong03	10.935	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong08	Cong08	0.0344	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong100	Cong100	0.153	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong105a	Cong105a	0.3057	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong11-27	Cong11-27	15.521	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong114	Cong114	0.0542	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong118a	Cong118a	0.997	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.3497	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0287	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong128	Cong128	0.0857	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong130	Cong130	0.0492	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong132	Cong132	0.0991	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong134	Cong134	0.0388	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0903	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong136	Cong136	0.0598	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong137	Cong137	0.0208	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.6484	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong141	Cong141	0.0638	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong146	Cong146	0.1836	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong151	Cong151	0.1932	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong153	Cong153	0.541	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong156	Cong156	0.0407	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.0073	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0403	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong1632	Cong1632	10.099	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong167	Cong167	0.0195	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong169a	Cong169a	0.00124	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong17	Cong17	6.697	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong170	Cong170	0.1721	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong171	Cong171	0.0364	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong172	Cong172	0.0236	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong174	Cong174	0.0854	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong175	Cong175	0.0068	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong177	Cong177	0.0742	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong179	Cong179	0.063	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong18	Cong18	6.065	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong180	Cong180	0.308	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.541	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong183	Cong183	0.163	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong185	Cong185	0.0104	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong190	Cong190	0.0017	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong193	Cong193	0.0183	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong194	Cong194	0.0896	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong195	Cong195	0.0296	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.0777	=	mg/Kg			Yes

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong198	Cong198	0.004	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong199	Cong199	0.0071	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong201	Cong201	0.0889	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong205	Cong205	0.0021	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong206	Cong206	0.0221	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong207	Cong207	0.0062	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong22	Cong22	1.92	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong25	Cong25	2.297	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong26	Cong26	4.267	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong28	Cong28	7.5	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong31	Cong31	6.142	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong33	Cong33	2.2659	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong37-42	Cong37-42	2.891	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong40	Cong40	0.777	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong44	Cong44	3.812	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong45	Cong45	6.623	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong48	Cong48	1.3425	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong49	Cong49	6.912	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong52	Cong52	7.589	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.9109	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong63	Cong63	0.4204	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong64	Cong64	1.873	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong66-95	Cong66-95	3.391	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong70	Cong70	2.022	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong71	Cong71	1.96	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong74	Cong74	1.579	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	1.711	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.7341	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong82	Cong82	0.1365	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong83	Cong83	0.214	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong84	Cong84	0.505	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong90-101	Cong90-101	1.532	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong91	Cong91	0.675	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong92	Cong92	0.576	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong97	Cong97	0.464	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Cong99	Cong99	0.961	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	129.8787	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	6.28E-05	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S32			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	127.9815	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong01	Cong01	0.014435	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong03	Cong03	11.132	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong08	Cong08	0.0915	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong100	Cong100	0.1663	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong105a	Cong105a	0.2786	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong11-27	Cong11-27	12.7173	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong114	Cong114	0.0462	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong118a	Cong118a	0.7946	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.2454	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0375	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong128	Cong128	0.0623	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong130	Cong130	0.0439	J	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong132	Cong132	0.1034	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong134	Cong134	0.0381	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.095	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong136	Cong136	0.0686	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong137	Cong137	0.0195	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.4424	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong141	Cong141	0.0577	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong146	Cong146	0.124	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong151	Cong151	0.1349	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong153	Cong153	0.43	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong156	Cong156	0.0346	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.0065	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0382	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong1632	Cong1632	8.4799	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong167	Cong167	0.0166	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong169a	Cong169a	0.001443	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong17	Cong17	6.8249	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong170	Cong170	0.1004	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong171	Cong171	0.0267	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong172	Cong172	0.0187	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong174	Cong174	0.0713	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong175	Cong175	0.006	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong177	Cong177	0.0537	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong179	Cong179	0.0429	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong18	Cong18	8.878	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong180	Cong180	0.1929	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.246	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong183	Cong183	0.1	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong185	Cong185	0.0081	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong190	Cong190	0.0028	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong193	Cong193	0.0011	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong194	Cong194	0.0461	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong195	Cong195	0.0184	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.0528	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong198	Cong198	0.0018	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong199	Cong199	0.0062	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong201	Cong201	0.0497	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong206	Cong206	0.0147	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong207	Cong207	0.0052	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong22	Cong22	2.6882	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong25	Cong25	3.1022	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong26	Cong26	5.3688	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong28	Cong28	10.5743	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong31	Cong31	9.2412	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong33	Cong33	2.8026	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong37-42	Cong37-42	3.0725	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong40	Cong40	0.8317	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong44	Cong44	4.3937	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong45	Cong45	0.7258	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong48	Cong48	1.2389	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong49	Cong49	7.2466	J	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong52	Cong52	8.4475	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong56-60	Cong56-60	1.91	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong63	Cong63	0.3867	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong64	Cong64	2.4845	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong66-95	Cong66-95	3.3583	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong70	Cong70	2.3771	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong71	Cong71	1.7078	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong74	Cong74	1.5137	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	1.5107	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.631	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong82	Cong82	0.1363	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong83	Cong83	0.1775	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong84	Cong84	0.4665	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong90-101	Cong90-101	1.3012	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong91	Cong91	0.5249	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong92	Cong92	0.4732	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong97	Cong97	0.4433	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Cong99	Cong99	0.8605	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	132.4706	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	4.709E-05	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S33			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	131.0067	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong01	Cong01	0.654	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong03	Cong03	8.589	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong08	Cong08	0.0665	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong100	Cong100	0.159	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong105a	Cong105a	0.3424	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong11-27	Cong11-27	11.741	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong114	Cong114	0.0547	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong118a	Cong118a	1.077	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.2814	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0449	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong128	Cong128	0.077	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong130	Cong130	0.0499	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong132	Cong132	0.0941	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong134	Cong134	0.0338	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0954	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong136	Cong136	0.0579	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong137	Cong137	0.0228	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.5431	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong141	Cong141	0.0682	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong146	Cong146	0.14	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong151	Cong151	0.1451	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong153	Cong153	0.529	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong156	Cong156	0.0418	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.0077	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0462	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong1632	Cong1632	7.396	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong167	Cong167	0.021	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong169a	Cong169a	0.001243	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong17	Cong17	9.477	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong170	Cong170	0.1346	J	mg/Kg			Yes

TABLE 4
Analytical Data Used in the HHRA - Ten Mile Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong171	Cong171	0.0318	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong172	Cong172	0.0224	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong174	Cong174	0.0752	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong175	Cong175	0.0074	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong177	Cong177	0.0643	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong179	Cong179	0.0421	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong18	Cong18	5.612	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong180	Cong180	0.275	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.367	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong183	Cong183	0.124	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong185	Cong185	0.0099	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong190	Cong190	0.0028	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong193	Cong193	0.0172	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong194	Cong194	0.0623	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong195	Cong195	0.0235	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.0647	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong198	Cong198	0.0033	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong199	Cong199	0.0059	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong201	Cong201	0.0599	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong205	Cong205	0.0022	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong206	Cong206	0.0176	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong207	Cong207	0.0054	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong22	Cong22	1.984	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong25	Cong25	2.488	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong26	Cong26	3.937	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong28	Cong28	7.162	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong31	Cong31	5.894	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong33	Cong33	2.195	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong37-42	Cong37-42	3.042	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong40	Cong40	0.754	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong44	Cong44	3.986	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong45	Cong45	0.591	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong48	Cong48	1.092	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong49	Cong49	3.37	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong52	Cong52	6.344	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong56-60	Cong56-60	1.087	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong63	Cong63	0.3885	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong64	Cong64	1.985	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong66-95	Cong66-95	3.817	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong70	Cong70	2.242	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong71	Cong71	1.701	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong74	Cong74	1.7696	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	1.759	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.7024	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong82	Cong82	0.1453	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong83	Cong83	0.183	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong84	Cong84	0.421	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong90-101	Cong90-101	1.538	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong91	Cong91	0.506	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong92	Cong92	0.4638	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong97	Cong97	0.5113	J	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Cong99	Cong99	1.021	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	111.9663	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	6.232E-05	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S34			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	110.0198	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong01	Cong01	0.7	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong03	Cong03	7.666	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong08	Cong08	0.0566	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong100	Cong100	0.107	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong105a	Cong105a	0.1702	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong11-27	Cong11-27	8.526	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong114	Cong114	0.0324	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong118a	Cong118a	0.4068	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.1309	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.027	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong128	Cong128	0.0398	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong130	Cong130	0.0311	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong132	Cong132	0.049	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong134	Cong134	0.0219	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0526	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong136	Cong136	0.035	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong137	Cong137	0.0142	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.3153	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong141	Cong141	0.0434	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong146	Cong146	0.0803	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong151	Cong151	0.0757	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong153	Cong153	0.317	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong156	Cong156	0.0239	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.0041	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.029	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong1632	Cong1632	5.371	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong167	Cong167	0.015	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong169a	Cong169a	0.001337	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong17	Cong17	4.053	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong170	Cong170	0.0803	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong171	Cong171	0.0223	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong172	Cong172	0.0161	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong174	Cong174	0.0398	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong175	Cong175	0.0042	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong177	Cong177	0.0416	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong179	Cong179	0.024	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong18	Cong18	6.02	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong180	Cong180	0.1682	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.214	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong183	Cong183	0.0755	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong185	Cong185	0.0062	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong190	Cong190	0.0018	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong193	Cong193	0.0119	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong194	Cong194	0.039	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong195	Cong195	0.0146	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.0396	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong198	Cong198	0.0012	J	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong199	Cong199	0.0028	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong201	Cong201	0.0339	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong205	Cong205	0.0021	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong206	Cong206	0.0124	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong207	Cong207	0.0032	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong22	Cong22	1.751	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong25	Cong25	2.255	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong26	Cong26	2.971	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong28	Cong28	6.412	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong31	Cong31	6.065	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong33	Cong33	2.0536	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong37-42	Cong37-42	1.851	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong40	Cong40	0.531	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong44	Cong44	2.691	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong45	Cong45	0.655	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong48	Cong48	1.0915	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong49	Cong49	3.37	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong52	Cong52	4.119	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.841	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong63	Cong63	0.198	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong64	Cong64	1.34	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong66-95	Cong66-95	1.79	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong70	Cong70	1.456	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong71	Cong71	0.951	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong74	Cong74	0.7821	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.817	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.4037	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong82	Cong82	0.0797	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong83	Cong83	0.0917	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong84	Cong84	0.2749	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.759	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong91	Cong91	0.274	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong92	Cong92	0.253	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong97	Cong97	0.266	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Cong99	Cong99	0.493	J	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	82.1551	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	2.916E-05	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S35			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	81.2583	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong01	Cong01	0.254	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong03	Cong03	8.307	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong08	Cong08	0.0192	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong100	Cong100	0.216	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong105a	Cong105a	0.644	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong11-27	Cong11-27	26.997	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong114	Cong114	0.0762	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong118a	Cong118a	1.908	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.739	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0604	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong128	Cong128	0.1818	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong130	Cong130	0.0581	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong132	Cong132	0.2773	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong134	Cong134	0.0483	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.1159	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong136	Cong136	0.0802	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong137	Cong137	0.0237	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	1.332	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong141	Cong141	0.0719	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong146	Cong146	0.384	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong151	Cong151	0.415	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong153	Cong153	1.049	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong156	Cong156	0.112	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.0137	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0467	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong1632	Cong1632	19.439	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong167	Cong167	0.0282	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong169a	Cong169a	0.002431	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong17	Cong17	9.1325	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong170	Cong170	0.3223	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong171	Cong171	0.034	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong172	Cong172	0.0352	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong174	Cong174	0.0963	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong175	Cong175	0.0107	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong177	Cong177	0.0784	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong179	Cong179	0.1285	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong18	Cong18	5.716	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong180	Cong180	0.5674	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong182-187	Cong182-187	1.028	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong183	Cong183	0.283	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong185	Cong185	0.0158	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong190	Cong190	0.0182	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong193	Cong193	0.008	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong194	Cong194	0.117	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong195	Cong195	0.0312	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.135	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong198	Cong198	0.0054	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong199	Cong199	0.0126	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong201	Cong201	0.167	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong205	Cong205	0.0015	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong206	Cong206	0.0405	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong207	Cong207	0.0124	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong22	Cong22	2.471	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong25	Cong25	3.098	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong26	Cong26	7.027	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong28	Cong28	14.006	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong31	Cong31	9.89	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong33	Cong33	1.723	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong37-42	Cong37-42	5.326	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong40	Cong40	1.24	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong44	Cong44	6.563	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong45	Cong45	1.021	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong48	Cong48	3.098	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong49	Cong49	13.661	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong52	Cong52	14.784	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong56-60	Cong56-60	1.471	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong63	Cong63	0.7615	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong64	Cong64	2.986	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong66-95	Cong66-95	6.589	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong70	Cong70	3.6624	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong71	Cong71	3.668	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong74	Cong74	2.8064	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	3.308	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong81-87	Cong81-87	1.461	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong82	Cong82	0.278	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong83	Cong83	0.452	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong84	Cong84	1.0286	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong90-101	Cong90-101	2.854	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong91	Cong91	1.35	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong92	Cong92	1.192	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong97	Cong97	0.8819	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Cong99	Cong99	1.873	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	201.4253	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	0.000121	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S36			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	197.7672	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong01	Cong01	0.033267	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong03	Cong03	2.135	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong08	Cong08	0.016633	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong100	Cong100	0.047	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong105a	Cong105a	0.2232	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong11-27	Cong11-27	2.762	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong114	Cong114	0.0267	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong118a	Cong118a	0.2707	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.1451	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0811	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong128	Cong128	0.0478	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong130	Cong130	0.0277	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong132	Cong132	0.0604	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong134	Cong134	0.0145	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0469	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong136	Cong136	0.028	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong137	Cong137	0.0135	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.312	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong141	Cong141	0.0506	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong146	Cong146	0.0724	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong151	Cong151	0.0671	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong153	Cong153	0.183	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong156	Cong156	0.0262	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.0037	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0276	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong1632	Cong1632	3.433	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong167	Cong167	0.0121	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong169a	Cong169a	0.003327	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong17	Cong17	0.8655	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong170	Cong170	0.0759	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong171	Cong171	0.0174	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong172	Cong172	0.0129	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong174	Cong174	0.0383	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong175	Cong175	0.0039	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong177	Cong177	0.0343	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong179	Cong179	0.0208	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong18	Cong18	1.0869	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong180	Cong180	0.153	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.149	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong183	Cong183	0.0664	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong185	Cong185	0.0055	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong190	Cong190	0.0027	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong193	Cong193	0.0077	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong194	Cong194	0.0316	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong195	Cong195	0.0115	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.0765	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong198	Cong198	0.0031	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong199	Cong199	0.0019	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong201	Cong201	0.0308	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong205	Cong205	0.001663	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong206	Cong206	0.007	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong207	Cong207	0.003	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong22	Cong22	0.3455	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong25	Cong25	0.3928	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong26	Cong26	0.7423	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong28	Cong28	1.4219	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong31	Cong31	1.0871	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong33	Cong33	0.1897	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong37-42	Cong37-42	0.7059	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong40	Cong40	0.17	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong44	Cong44	0.9533	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong45	Cong45	0.2431	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong48	Cong48	0.1861	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong49	Cong49	1.4969	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong52	Cong52	1.7419	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.461	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong63	Cong63	0.164	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong64	Cong64	0.525	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong66-95	Cong66-95	0.9375	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong70	Cong70	0.3739	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong71	Cong71	0.4259	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong74	Cong74	0.4122	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.492	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.41	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong82	Cong82	0.0911	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong83	Cong83	0.0868	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong84	Cong84	0.2332	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.775	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong91	Cong91	0.2344	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong92	Cong92	0.2012	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong97	Cong97	0.275	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Cong99	Cong99	0.4951	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	29.0927	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	2.589E-05	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S37			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	28.3049	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong01	Cong01	0.992	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong03	Cong03	4.203	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong08	Cong08	0.0375	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong100	Cong100	0.109	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong105a	Cong105a	0.1039	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong11-27	Cong11-27	4.715	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong114	Cong114	0.0443	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong118a	Cong118a	0.359	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong123a149	Cong123a149	0.12	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong126-178	Cong126-178	0.0326	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong128	Cong128	0.0309	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong130	Cong130	0.0328	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong132	Cong132	0.0498	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong134	Cong134	0.0253	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong135-144	Cong135-144	0.0625	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong136	Cong136	0.0436	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong137	Cong137	0.0144	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong138a-163	Cong138a-163	0.224	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong141	Cong141	0.0448	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong146	Cong146	0.079	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong151	Cong151	0.0645	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong153	Cong153	0.282	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong156	Cong156	0.0168	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong157a_200	Cong157a_200	0.0079	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong158-160	Cong158-160	0.0288	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong1632	Cong1632	8.654	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong167	Cong167	0.0171	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong169a	Cong169a	0.001395	K	mg/Kg			No
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong17	Cong17	6.764	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong170	Cong170	0.0521	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong171	Cong171	0.0193	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong172	Cong172	0.0201	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong174	Cong174	0.0526	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong175	Cong175	0.0052	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong177	Cong177	0.0432	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong179	Cong179	0.0198	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong18	Cong18	7.355	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong180	Cong180	0.179	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong182-187	Cong182-187	0.236	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong183	Cong183	0.0786	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong185	Cong185	0.0088	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong190	Cong190	0.0102	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong193	Cong193	0.0044	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong194	Cong194	0.0667	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong195	Cong195	0.0165	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong196-203	Cong196-203	0.0765	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong198	Cong198	0.0031	=	mg/Kg			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong199	Cong199	0.0059	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong201	Cong201	0.0567	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong206	Cong206	0.0225	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong207	Cong207	0.0048	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong22	Cong22	1.824	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong25	Cong25	0.875	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong26	Cong26	3.894	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong28	Cong28	7.926	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong31	Cong31	7.162	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong33	Cong33	0.7276	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong37-42	Cong37-42	1.011	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong40	Cong40	0.259	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong44	Cong44	3.791	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong45	Cong45	0.235	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong48	Cong48	0.231	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong49	Cong49	6.877	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong52	Cong52	7.674	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong56-60	Cong56-60	0.3298	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong63	Cong63	0.1307	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong64	Cong64	1.761	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong66-95	Cong66-95	1.196	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong70	Cong70	0.697	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong71	Cong71	0.666	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong74	Cong74	0.552	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong77a-110	Cong77a-110	0.606	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong81-87	Cong81-87	0.202	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong82	Cong82	0.0532	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong83	Cong83	0.0776	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong84	Cong84	0.1715	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong90-101	Cong90-101	0.558	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong91	Cong91	0.1953	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong92	Cong92	0.1822	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong97	Cong97	0.1799	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Cong99	Cong99	0.374	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	Total PCBs -Congeners	TotCongPCB	85.9143	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	TotCongPCB, Dioxin-like-PCBs TEQ	TotCongPCB_A	2.323E-05	=	mg/Kg			Yes
TMD_Tissue	10 Mile Canal	2010303-S38			4/28/2010	TI	congener	TotCongPCB, Non-dioxin-like-PCBs	TotCongPCB_B	85.1421	=	mg/Kg			Yes
TMD_SW_Canal1	SW4	SW4			7/28/2008	WS	PCB	Aroclor-1016	PCB-1016	1	U	ug/L			No
TMD_SW_Canal1	SW4	SW4			7/28/2008	WS	PCB	Aroclor-1221	PCB-1221	1	U	ug/L			No
TMD_SW_Canal1	SW4	SW4			7/28/2008	WS	PCB	Aroclor-1232	PCB-1232	1	U	ug/L			No
TMD_SW_Canal1	SW4	SW4			7/28/2008	WS	PCB	Aroclor-1242	PCB-1242	1	U	ug/L			No
TMD_SW_Canal1	SW4	SW4			7/28/2008	WS	PCB	Aroclor-1248	PCB-1248	1	U	ug/L			No
TMD_SW_Canal1	SW4	SW4			7/28/2008	WS	PCB	Aroclor-1254	PCB-1254	1	U	ug/L			No
TMD_SW_Canal1	SW4	SW4			7/28/2008	WS	PCB	Aroclor-1260	PCB-1260	1	U	ug/L			No
TMD_SW_Canal1	SW4	SW4			7/28/2008	WS	PCB	Aroclor-1262	PCB-1262	1	U	ug/L			No
TMD_SW_Canal1	SW4	SW4			7/28/2008	WS	PCB	Aroclor-1268	PCB-1268	1	U	ug/L			No
TMD_SW_Canal1	SW4	SW4			7/28/2008	WS	PCB	Total PCBs	TOTPCB	0	U	ug/L			No
TMD_SW_Canal2	SW5	SW5			7/28/2008	WS	PCB	Aroclor-1016	PCB-1016	1	U	ug/L			No
TMD_SW_Canal2	SW5	SW5			7/28/2008	WS	PCB	Aroclor-1221	PCB-1221	1	U	ug/L			No
TMD_SW_Canal2	SW5	SW5			7/28/2008	WS	PCB	Aroclor-1232	PCB-1232	1	U	ug/L			No
TMD_SW_Canal2	SW5	SW5			7/28/2008	WS	PCB	Aroclor-1242	PCB-1242	1	U	ug/L			No

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_SW_Canal2	SW5	SW5			7/28/2008	WS	PCB	Aroclor-1248	PCB-1248	1	U	ug/L			No
TMD_SW_Canal2	SW5	SW5			7/28/2008	WS	PCB	Aroclor-1254	PCB-1254	1	U	ug/L			No
TMD_SW_Canal2	SW5	SW5			7/28/2008	WS	PCB	Aroclor-1260	PCB-1260	1	U	ug/L			No
TMD_SW_Canal2	SW5	SW5			7/28/2008	WS	PCB	Aroclor-1262	PCB-1262	1	U	ug/L			No
TMD_SW_Canal2	SW5	SW5			7/28/2008	WS	PCB	Aroclor-1268	PCB-1268	1	U	ug/L			No
TMD_SW_Canal2	SW5	SW5			7/28/2008	WS	PCB	Total PCBs	TOTPCB	0	U	ug/L			No
TMD_SW_Lake	SW1	SW1			7/28/2008	WS	PCB	Aroclor-1016	PCB-1016	1	U	ug/L			No
TMD_SW_Lake	SW1	SW1			7/28/2008	WS	PCB	Aroclor-1221	PCB-1221	1	U	ug/L			No
TMD_SW_Lake	SW1	SW1			7/28/2008	WS	PCB	Aroclor-1232	PCB-1232	1	U	ug/L			No
TMD_SW_Lake	SW1	SW1			7/28/2008	WS	PCB	Aroclor-1242	PCB-1242	1	U	ug/L			No
TMD_SW_Lake	SW1	SW1			7/28/2008	WS	PCB	Aroclor-1248	PCB-1248	1	U	ug/L			No
TMD_SW_Lake	SW1	SW1			7/28/2008	WS	PCB	Aroclor-1254	PCB-1254	1	U	ug/L			No
TMD_SW_Lake	SW1	SW1			7/28/2008	WS	PCB	Aroclor-1260	PCB-1260	1	U	ug/L			No
TMD_SW_Lake	SW1	SW1			7/28/2008	WS	PCB	Aroclor-1262	PCB-1262	1	U	ug/L			No
TMD_SW_Lake	SW1	SW1			7/28/2008	WS	PCB	Aroclor-1268	PCB-1268	1	U	ug/L			No
TMD_SW_Lake	SW1	SW1			7/28/2008	WS	PCB	Total PCBs	TOTPCB	0	U	ug/L			No
TMD_SW_Lake	SW6	SW6			7/28/2008	WS	PCB	Aroclor-1016	PCB-1016	1	U	ug/L			No
TMD_SW_Lake	SW6	SW6			7/28/2008	WS	PCB	Aroclor-1221	PCB-1221	1	U	ug/L			No
TMD_SW_Lake	SW6	SW6			7/28/2008	WS	PCB	Aroclor-1232	PCB-1232	1	U	ug/L			No
TMD_SW_Lake	SW6	SW6			7/28/2008	WS	PCB	Aroclor-1242	PCB-1242	1	U	ug/L			No
TMD_SW_Lake	SW6	SW6			7/28/2008	WS	PCB	Aroclor-1248	PCB-1248	1	U	ug/L			No
TMD_SW_Lake	SW6	SW6			7/28/2008	WS	PCB	Aroclor-1254	PCB-1254	1	U	ug/L			No
TMD_SW_Lake	SW6	SW6			7/28/2008	WS	PCB	Aroclor-1260	PCB-1260	1	U	ug/L			No
TMD_SW_Lake	SW6	SW6			7/28/2008	WS	PCB	Aroclor-1262	PCB-1262	1	U	ug/L			No
TMD_SW_Lake	SW6	SW6			7/28/2008	WS	PCB	Aroclor-1268	PCB-1268	1	U	ug/L			No
TMD_SW_Lake	SW6	SW6			7/28/2008	WS	PCB	Total PCBs	TOTPCB	0	U	ug/L			No
TMD_SW_Lake	SW7	SW7			7/28/2008	WS	PCB	Aroclor-1016	PCB-1016	1	U	ug/L			No
TMD_SW_Lake	SW7	SW7			7/28/2008	WS	PCB	Aroclor-1221	PCB-1221	1	U	ug/L			No
TMD_SW_Lake	SW7	SW7			7/28/2008	WS	PCB	Aroclor-1232	PCB-1232	1	U	ug/L			No
TMD_SW_Lake	SW7	SW7			7/28/2008	WS	PCB	Aroclor-1242	PCB-1242	1	U	ug/L			No
TMD_SW_Lake	SW7	SW7			7/28/2008	WS	PCB	Aroclor-1248	PCB-1248	1	U	ug/L			No
TMD_SW_Lake	SW7	SW7			7/28/2008	WS	PCB	Aroclor-1254	PCB-1254	1	U	ug/L			No
TMD_SW_Lake	SW7	SW7			7/28/2008	WS	PCB	Aroclor-1260	PCB-1260	1	U	ug/L			No
TMD_SW_Lake	SW7	SW7			7/28/2008	WS	PCB	Aroclor-1262	PCB-1262	1	U	ug/L			No
TMD_SW_Lake	SW7	SW7			7/28/2008	WS	PCB	Aroclor-1268	PCB-1268	1	U	ug/L			No
TMD_SW_Lake	SW7	SW7			7/28/2008	WS	PCB	Total PCBs	TOTPCB	0	U	ug/L			No
TMD_SW_Outfall/Lange	Outfall	Outfall_022411			2/24/2011	WS	PCB	Total PCBs	TOTPCB	0.69	=	ug/L			Yes
TMD_SW_Outfall/Lange	Outfall	Outfall_051910			5/19/2010	WS	PCB	Total PCBs	TOTPCB	8.2	=	ug/L			Yes
TMD_SW_Outfall/Lange	Outfall	Outfall_062211			6/22/2011	WS	PCB	Total PCBs	TOTPCB	1.8	=	ug/L			Yes
TMD_SW_Outfall/Lange	Outfall	Outfall_081811			8/18/2011	WS	PCB	Total PCBs	TOTPCB	0.92	=	ug/L			Yes
TMD_SW_Outfall/Lange	Outfall	Outfall_111710			11/17/2010	WS	PCB	Total PCBs	TOTPCB	1.1	=	ug/L			Yes
TMD_SW_Outfall/Lange	SW2	SW2			7/28/2008	WS	PCB	Aroclor-1016	PCB-1016	1	U	ug/L			No
TMD_SW_Outfall/Lange	SW2	SW2			7/28/2008	WS	PCB	Aroclor-1221	PCB-1221	1	U	ug/L			No
TMD_SW_Outfall/Lange	SW2	SW2			7/28/2008	WS	PCB	Aroclor-1232	PCB-1232	1	U	ug/L			No
TMD_SW_Outfall/Lange	SW2	SW2			7/28/2008	WS	PCB	Aroclor-1242	PCB-1242	1	U	ug/L			No
TMD_SW_Outfall/Lange	SW2	SW2			7/28/2008	WS	PCB	Aroclor-1248	PCB-1248	4.9	J	ug/L			Yes
TMD_SW_Outfall/Lange	SW2	SW2			7/28/2008	WS	PCB	Aroclor-1254	PCB-1254	1	U	ug/L			No
TMD_SW_Outfall/Lange	SW2	SW2			7/28/2008	WS	PCB	Aroclor-1260	PCB-1260	0.35	J	ug/L			Yes
TMD_SW_Outfall/Lange	SW2	SW2			7/28/2008	WS	PCB	Aroclor-1262	PCB-1262	1	U	ug/L			No
TMD_SW_Outfall/Lange	SW2	SW2			7/28/2008	WS	PCB	Aroclor-1268	PCB-1268	1	U	ug/L			No
TMD_SW_Outfall/Lange	SW2	SW2			7/28/2008	WS	PCB	Total PCBs	TOTPCB	5.25	=	ug/L			Yes

TABLE 4

Analytical Data Used in the HHRA - Ten Mile Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

HHRA Assignment	Station ID	Sample ID	Upper Depth	Lower Depth	Date Collected	Matrix	Chem Group	Chemical	CASNumber	Result	ProjQual	Units	DL	RL	Detection
TMD_SW_Revere	SW3	SW3			7/28/2008	WS	PCB	Aroclor-1016	PCB-1016	1	U	ug/L			No
TMD_SW_Revere	SW3	SW3			7/28/2008	WS	PCB	Aroclor-1221	PCB-1221	1	U	ug/L			No
TMD_SW_Revere	SW3	SW3			7/28/2008	WS	PCB	Aroclor-1232	PCB-1232	1	U	ug/L			No
TMD_SW_Revere	SW3	SW3			7/28/2008	WS	PCB	Aroclor-1242	PCB-1242	1	U	ug/L			No
TMD_SW_Revere	SW3	SW3			7/28/2008	WS	PCB	Aroclor-1248	PCB-1248	1	U	ug/L			No
TMD_SW_Revere	SW3	SW3			7/28/2008	WS	PCB	Aroclor-1254	PCB-1254	1	U	ug/L			No
TMD_SW_Revere	SW3	SW3			7/28/2008	WS	PCB	Aroclor-1260	PCB-1260	1	U	ug/L			No
TMD_SW_Revere	SW3	SW3			7/28/2008	WS	PCB	Aroclor-1262	PCB-1262	1	U	ug/L			No
TMD_SW_Revere	SW3	SW3			7/28/2008	WS	PCB	Aroclor-1268	PCB-1268	1	U	ug/L			No
TMD_SW_Revere	SW3	SW3			7/28/2008	WS	PCB	Total PCBs	TOTPCB	0	U	ug/L			No

TABLE 5

Soil Samples Used in the HHRA - Martin Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Sample ID	Station ID	Upper Depth (feet)	Lower Depth (feet)	Date Collected	Property Location ID	Yard/Parkway/ Utility Corridor	Surface Soil	Total Soil	Residential Yards	Residential Parkways	Utility Corridors
TMD-SO-088-2/3	TMD-088	2	3	8/13/2015	088	Parkway		X			X
TMD-SO-088-6/7.5	TMD-088	6	7.5	8/13/2015	088	Parkway		X			X
TMD-SO-089-2/3	TMD-089	2	3	8/13/2015	089	Parkway		X			X
TMD-SO-089-5/6	TMD-089	5	6	8/13/2015	089	Parkway		X			X
TMD-SO-090-2/3	TMD-090	2	3	8/13/2015	090	Parkway		X			X
TMD-SO-090-6/7	TMD-090	6	7	8/13/2015	090	Parkway		X			X
TMD-SO-091-2/3	TMD-091	2	3	8/13/2015	091	Parkway		X			X
TMD-SO-091-7/8	TMD-091	7	8	8/13/2015	091	Parkway		X			X
TMD-SO-092-2/3	TMD-092	2	3	8/13/2015	092	Parkway		X			X
TMD-SO-092-7.5/8.5	TMD-092	7.5	8.5	8/13/2015	092	Parkway		X			X
TMD-SO-092-7.5/8.5R	TMD-092	7.5	8.5	8/13/2015	092	Parkway		X			X
TMD-SO-093-2/3	TMD-093	2	3	8/13/2015	093	Parkway		X			X
TMD-SO-093-9/10	TMD-093	9	10	8/13/2015	093	Parkway		X			X
TMD-SO-094-2/3	TMD-094	2	3	8/13/2015	094	Parkway		X			X
TMD-SO-094-3.5/4.2	TMD-094	3.5	4.2	8/13/2015	094	Parkway		X			X
TMD-SO-095-4.4/4.8	TMD-095	4.4	4.8	8/13/2015	095	Parkway		X			X
TMD-SO-095-4.4/4.8-R	TMD-095	4.4	4.8	8/14/2015	095	Parkway		X			X
TMD-SO-095-6.2/6.8	TMD-095	6.2	6.8	8/13/2015	095	Parkway		X			X
TMD-SO-096-2.8/3.8	TMD-096	2.8	3.8	8/13/2015	096	Parkway		X			X
TMD-SO-096-6.3/7.3	TMD-096	6.3	7.3	8/13/2015	096	Parkway		X			X
TMD-SO-097-1.5/2.5	TMD-097	1.5	2.5	8/13/2015	097	Parkway		X			X
TMD-SO-097-5/5.7	TMD-097	5	5.7	8/13/2015	097	Parkway		X			X
TMD-SO-102-2.4/3.4	TMD-102	2.4	3.4	8/13/2015	102	Parkway		X			X
TMD-SO-102-3.4/4.4	TMD-102	3.4	4.4	8/13/2015	102	Parkway		X			X
TMD-SO-103-1.4/2.4	TMD-103	1.4	2.4	8/13/2015	103	Parkway		X			X
TMD-SO-103-5/6	TMD-103	5	6	8/13/2015	103	Parkway		X			X
TMD-SO-105-2.2/3.2	TMD-105	2.2	3.2	8/13/2015	105	Parkway		X			X
TMD-SO-105-3.4/4	TMD-105	3.4	4	8/13/2015	105	Parkway		X			X
TMD-SO-106-3/3.6	TMD-106	3	3.6	8/13/2015	106	Parkway		X			X
TMD-SO-106-5/6	TMD-106	5	6	8/13/2015	106	Parkway		X			X
TMD-SO-107-1.9/2.9	TMD-107	1.9	2.9	8/13/2015	107	Parkway		X			X
TMD-SO-107-12.9/3.9	TMD-107	12.9	3.9	8/13/2015	107	Parkway		X			X
TMD-SO-108-2.3/3.3	TMD-108	2.3	3.3	8/13/2015	108	Parkway		X			X
TMD-SO-109-5.8/6.3	TMD-109	5.8	6.3	8/14/2015	109	Parkway		X			X
TMD-SO-109-6.3/6.8	TMD-109	6.3	6.8	8/14/2015	109	Parkway		X			X
TMD-SO-110-6.1/7	TMD-110	6.1	7	8/14/2015	110	Parkway		X			X
TMD-SO-111-1.5/2.5	TMD-111	1.5	2.5	8/14/2015	111	Parkway		X			X
TMD-SO-111-5/6	TMD-111	5	6	8/14/2015	111	Parkway		X			X
TMD-SO-112-1.7/2.7	TMD-112	1.7	2.7	8/14/2015	112	Parkway		X			X
TMD-SO-112-5/6	TMD-112	5	6	8/14/2015	112	Parkway		X			X
TMD-SO-113-2/3	TMD-113	2	3	8/14/2015	113	Parkway		X			X
TMD-SO-113-5/6	TMD-113	5	6	8/14/2015	113	Parkway		X			X
TMD-SO-114-2.5/3.5	TMD-114	2.5	3.5	8/14/2015	114	Parkway		X			X
TMD-SO-114-2.5/3.5-R	TMD-114	2.5	3.5	8/14/2015	114	Parkway		X			X
TMD-SO-114-5/5.6	TMD-114	5	5.6	8/14/2015	114	Parkway		X			X
TMD-SO-115-2.9/3.9	TMD-115	2.9	3.9	8/14/2015	115	Parkway		X			X
TMD-SO-115-5/5.4	TMD-115	5	5.4	8/14/2015	115	Parkway		X			X
TMD-SO-116-3.8/4.6	TMD-116	3.8	4.6	8/14/2015	116	Parkway		X			X
TMD-SO-116-5.8/6.8	TMD-116	5.8	6.8	8/14/2015	116	Parkway		X			X
TMD-SO-117-2.3/3.3	TMD-117	2.3	3.3	8/14/2015	117	Parkway		X			X

TABLE 6

Analytical Data Used in the HHRA - Martin Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

AOC_ID	Station ID	Sample ID	Collection Date	Upper Depth	Lower Depth	Sample Type	Chem Group	Param Name	Result	ProjQual	Units	Detect	Detect Limit	Reporting Limit
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1242	0.0927	U	MG/KG	No	0.0927	0.0927
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1221	0.0927	U	MG/KG	No	0.0927	0.0927
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1248	0.0927	U	MG/KG	No	0.0927	0.0927
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1262	0.0927	U	MG/KG	No	0.0927	0.0927
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1232	0.0927	U	MG/KG	No	0.0927	0.0927
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1268	0.0927	U	MG/KG	No	0.0927	0.0927
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1260	0.0927	U	MG/KG	No	0.0927	0.0927
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1254	0.0927	U	MG/KG	No	0.0927	0.0927
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1016	0.0927	U	MG/KG	No	0.0927	0.0927
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	Total PCBs	0.04635	U	MG/KG	No		
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-6.5/7	8/13/2015	6.5	7	N	PCB	PCB-1232	0.105	U	MG/KG	No	0.105	0.105
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-6.5/7	8/13/2015	6.5	7	N	PCB	Total PCBs	0.0525	U	MG/KG	No		
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-6.5/7	8/13/2015	6.5	7	N	PCB	PCB-1248	0.105	U	MG/KG	No	0.105	0.105
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-6.5/7	8/13/2015	6.5	7	N	PCB	PCB-1221	0.105	U	MG/KG	No	0.105	0.105
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-6.5/7	8/13/2015	6.5	7	N	PCB	PCB-1268	0.105	U	MG/KG	No	0.105	0.105
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-6.5/7	8/13/2015	6.5	7	N	PCB	PCB-1254	0.105	U	MG/KG	No	0.105	0.105
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-6.5/7	8/13/2015	6.5	7	N	PCB	PCB-1260	0.105	U	MG/KG	No	0.105	0.105
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-6.5/7	8/13/2015	6.5	7	N	PCB	PCB-1016	0.105	U	MG/KG	No	0.105	0.105
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-6.5/7	8/13/2015	6.5	7	N	PCB	PCB-1262	0.105	U	MG/KG	No	0.105	0.105
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-6.5/7	8/13/2015	6.5	7	N	PCB	PCB-1242	0.105	U	MG/KG	No	0.105	0.105
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3	8/13/2015	2	3	N	PCB	PCB-1242	0.104	U	MG/KG	No	0.104	0.104
MD_RES_TS_Yard	TMD-SO-100	TMD-SO-100-6.5/7	8/13/2015	6.5	7	N	PCB	PCB-1242	0.105	U	MG/KG	No	0.105	0.105
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3	8/13/2015	2	3	N	PCB	PCB-1242	0.104	U	MG/KG	No	0.104	0.104
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3	8/13/2015	2	3	N	PCB	PCB-1232	0.104	U	MG/KG	No	0.104	0.104
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3	8/13/2015	2	3	N	PCB	PCB-1260	0.104	U	MG/KG	No	0.104	0.104
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3	8/13/2015	2	3	N	PCB	PCB-1254	0.104	U	MG/KG	No	0.104	0.104
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3	8/13/2015	2	3	N	PCB	PCB-1221	0.104	U	MG/KG	No	0.104	0.104
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3	8/13/2015	2	3	N	PCB	PCB-1248	0.104	U	MG/KG	No	0.104	0.104
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3	8/13/2015	2	3	N	PCB	PCB-1016	0.104	U	MG/KG	No	0.104	0.104
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3	8/13/2015	2	3	N	PCB	PCB-1262	0.104	U	MG/KG	No	0.104	0.104
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3	8/13/2015	2	3	N	PCB	PCB-1268	0.104	U	MG/KG	No	0.104	0.104
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3	8/13/2015	2	3	N	PCB	Total PCBs	0.052	U	MG/KG	No		
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3-R	8/13/2015	2	3	N	PCB	Total PCBs	0.051	U	MG/KG	No		
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3-R	8/13/2015	2	3	N	PCB	PCB-1221	0.102	U	MG/KG	No	0.102	0.102
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3-R	8/13/2015	2	3	N	PCB	PCB-1242	0.102	U	MG/KG	No	0.102	0.102
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3-R	8/13/2015	2	3	N	PCB	PCB-1254	0.102	U	MG/KG	No	0.102	0.102
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3-R	8/13/2015	2	3	N	PCB	PCB-1268	0.102	U	MG/KG	No	0.102	0.102
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3-R	8/13/2015	2	3	N	PCB	PCB-1248	0.102	U	MG/KG	No	0.102	0.102
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3-R	8/13/2015	2	3	N	PCB	PCB-1016	0.102	U	MG/KG	No	0.102	0.102
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3-R	8/13/2015	2	3	N	PCB	PCB-1262	0.102	U	MG/KG	No	0.102	0.102
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3-R	8/13/2015	2	3	N	PCB	PCB-1260	0.102	U	MG/KG	No	0.102	0.102
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-2/3-R	8/13/2015	2	3	N	PCB	PCB-1232	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-2.4/3.4	8/13/2015	2.4	3.4	N	PCB	PCB-1232	0.0953	U	MG/KG	No	0.0953	0.0953
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-2.4/3.4	8/13/2015	2.4	3.4	N	PCB	PCB-1260	0.0953	U	MG/KG	No	0.0953	0.0953
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-2.4/3.4	8/13/2015	2.4	3.4	N	PCB	PCB-1242	0.0953	U	MG/KG	No	0.0953	0.0953
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-2.4/3.4	8/13/2015	2.4	3.4	N	PCB	PCB-1248	0.647	=	MG/KG	Yes	0.0953	0.0953
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-2.4/3.4	8/13/2015	2.4	3.4	N	PCB	PCB-1221	0.0953	U	MG/KG	No	0.0953	0.0953
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-2.4/3.4	8/13/2015	2.4	3.4	N	PCB	PCB-1268	0.0953	U	MG/KG	No	0.0953	0.0953
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-2.4/3.4	8/13/2015	2.4	3.4	N	PCB	PCB-1254	0.0953	U	MG/KG	No	0.0953	0.0953
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-2.4/3.4	8/13/2015	2.4	3.4	N	PCB	PCB-1016	0.0953	U	MG/KG	No	0.0953	0.0953

TABLE 6
Analytical Data Used in the HHRA - Martin Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

AOC_ID	Station ID	Sample ID	Collection Date	Upper Depth	Lower Depth	Sample Type	Chem Group	Param Name	Result	ProjQual	Units	Detect	Detect Limit	Reporting Limit
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-2.4/3.4	8/13/2015	2.4	3.4	N	PCB	PCB-1262	0.0953	U	MG/KG	No	0.0953	0.0953
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-2.4/3.4	8/13/2015	2.4	3.4	N	PCB	Total PCBs	0.647	=	MG/KG	Yes		
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-3.4/4.4	8/13/2015	3.4	4.4	N	PCB	PCB-1232	0.111	U	MG/KG	No	0.111	0.111
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-3.4/4.4	8/13/2015	3.4	4.4	N	PCB	PCB-1268	0.111	U	MG/KG	No	0.111	0.111
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-3.4/4.4	8/13/2015	3.4	4.4	N	PCB	PCB-1260	0.111	U	MG/KG	No	0.111	0.111
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-3.4/4.4	8/13/2015	3.4	4.4	N	PCB	PCB-1242	0.111	U	MG/KG	No	0.111	0.111
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-3.4/4.4	8/13/2015	3.4	4.4	N	PCB	PCB-1262	0.111	U	MG/KG	No	0.111	0.111
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-3.4/4.4	8/13/2015	3.4	4.4	N	PCB	PCB-1248	0.694	=	MG/KG	Yes	0.111	0.111
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-3.4/4.4	8/13/2015	3.4	4.4	N	PCB	PCB-1221	0.111	U	MG/KG	No	0.111	0.111
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-3.4/4.4	8/13/2015	3.4	4.4	N	PCB	PCB-1254	0.111	U	MG/KG	No	0.111	0.111
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-3.4/4.4	8/13/2015	3.4	4.4	N	PCB	Total PCBs	0.694	=	MG/KG	Yes		
MD_Utility_TS_B Street	TMD-SO-102	TMD-SO-102-3.4/4.4	8/13/2015	3.4	4.4	N	PCB	PCB-1016	0.111	U	MG/KG	No	0.111	0.111
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1242	0.0949	U	MG/KG	No	0.0949	0.0949
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	Total PCBs	0.04745	U	MG/KG	No		
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1254	0.0949	U	MG/KG	No	0.0949	0.0949
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1221	0.0949	U	MG/KG	No	0.0949	0.0949
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1016	0.0949	U	MG/KG	No	0.0949	0.0949
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1248	0.0949	U	MG/KG	No	0.0949	0.0949
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1232	0.0949	U	MG/KG	No	0.0949	0.0949
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1262	0.0949	U	MG/KG	No	0.0949	0.0949
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1268	0.0949	U	MG/KG	No	0.0949	0.0949
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-1.4/2.4	8/13/2015	1.4	2.4	N	PCB	PCB-1260	0.0949	U	MG/KG	No	0.0949	0.0949
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-5/6	8/13/2015	5	6	N	PCB	PCB-1254	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-5/6	8/13/2015	5	6	N	PCB	PCB-1260	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-5/6	8/13/2015	5	6	N	PCB	PCB-1268	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-5/6	8/13/2015	5	6	N	PCB	Total PCBs	0.0525	U	MG/KG	No		
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-5/6	8/13/2015	5	6	N	PCB	PCB-1221	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-5/6	8/13/2015	5	6	N	PCB	PCB-1016	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-5/6	8/13/2015	5	6	N	PCB	PCB-1232	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-5/6	8/13/2015	5	6	N	PCB	PCB-1262	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-5/6	8/13/2015	5	6	N	PCB	PCB-1242	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_BonBrae	TMD-SO-103	TMD-SO-103-5/6	8/13/2015	5	6	N	PCB	PCB-1248	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-2.2/3.2	8/13/2015	2.2	3.2	N	PCB	PCB-1221	0.1	U	MG/KG	No	0.1	0.1
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-2.2/3.2	8/13/2015	2.2	3.2	N	PCB	PCB-1260	0.1	U	MG/KG	No	0.1	0.1
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-2.2/3.2	8/13/2015	2.2	3.2	N	PCB	PCB-1268	0.1	U	MG/KG	No	0.1	0.1
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-2.2/3.2	8/13/2015	2.2	3.2	N	PCB	Total PCBs	11.2	=	MG/KG	Yes		
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-2.2/3.2	8/13/2015	2.2	3.2	N	PCB	PCB-1016	0.1	U	MG/KG	No	0.1	0.1
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-2.2/3.2	8/13/2015	2.2	3.2	N	PCB	PCB-1254	0.1	U	MG/KG	No	0.1	0.1
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-2.2/3.2	8/13/2015	2.2	3.2	N	PCB	PCB-1262	0.1	U	MG/KG	No	0.1	0.1
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-2.2/3.2	8/13/2015	2.2	3.2	N	PCB	PCB-1248	11.2	=	MG/KG	Yes	1	1
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-2.2/3.2	8/13/2015	2.2	3.2	N	PCB	PCB-1242	0.1	U	MG/KG	No	0.1	0.1
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-2.2/3.2	8/13/2015	2.2	3.2	N	PCB	PCB-1232	0.1	U	MG/KG	No	0.1	0.1
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-3.4/4	8/13/2015	3.4	4	N	PCB	PCB-1232	0.112	U	MG/KG	No	0.112	0.112
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-3.4/4	8/13/2015	3.4	4	N	PCB	Total PCBs	169	=	MG/KG	Yes		
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-3.4/4	8/13/2015	3.4	4	N	PCB	PCB-1260	0.112	U	MG/KG	No	0.112	0.112
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-3.4/4	8/13/2015	3.4	4	N	PCB	PCB-1254	0.112	U	MG/KG	No	0.112	0.112
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-3.4/4	8/13/2015	3.4	4	N	PCB	PCB-1221	0.112	U	MG/KG	No	0.112	0.112
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-3.4/4	8/13/2015	3.4	4	N	PCB	PCB-1248	169	=	MG/KG	Yes	11.2	11.2

TABLE 6
Analytical Data Used in the HHRA - Martin Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

AOC_ID	Station ID	Sample ID	Collection Date	Upper Depth	Lower Depth	Sample Type	Chem Group	Param Name	Result	ProjQual	Units	Detect	Detect Limit	Reporting Limit
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-3.4/4	8/13/2015	3.4	4	N	PCB	PCB-1016	0.112	U	MG/KG	No	0.112	0.112
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-3.4/4	8/13/2015	3.4	4	N	PCB	PCB-1262	0.112	U	MG/KG	No	0.112	0.112
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-3.4/4	8/13/2015	3.4	4	N	PCB	PCB-1242	0.112	U	MG/KG	No	0.112	0.112
MD_Utility_TS_BonBrae	TMD-SO-105	TMD-SO-105-3.4/4	8/13/2015	3.4	4	N	PCB	PCB-1268	0.112	U	MG/KG	No	0.112	0.112
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-3/3.6	8/13/2015	3	3.6	N	PCB	PCB-1268	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-3/3.6	8/13/2015	3	3.6	N	PCB	PCB-1248	0.305	J	MG/KG	Yes	0.107	0.107
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-3/3.6	8/13/2015	3	3.6	N	PCB	PCB-1262	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-3/3.6	8/13/2015	3	3.6	N	PCB	Total PCBs	0.305	=	MG/KG	Yes		
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-3/3.6	8/13/2015	3	3.6	N	PCB	PCB-1242	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-3/3.6	8/13/2015	3	3.6	N	PCB	PCB-1016	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-3/3.6	8/13/2015	3	3.6	N	PCB	PCB-1221	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-3/3.6	8/13/2015	3	3.6	N	PCB	PCB-1232	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-3/3.6	8/13/2015	3	3.6	N	PCB	PCB-1254	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-3/3.6	8/13/2015	3	3.6	N	PCB	PCB-1260	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-5/6	8/13/2015	5	6	N	PCB	PCB-1268	0.0863	U	MG/KG	No	0.0863	0.0863
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-5/6	8/13/2015	5	6	N	PCB	PCB-1260	0.0863	U	MG/KG	No	0.0863	0.0863
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-5/6	8/13/2015	5	6	N	PCB	Total PCBs	0.04315	U	MG/KG	No		
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-5/6	8/13/2015	5	6	N	PCB	PCB-1242	0.0863	U	MG/KG	No	0.0863	0.0863
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-5/6	8/13/2015	5	6	N	PCB	PCB-1262	0.0863	U	MG/KG	No	0.0863	0.0863
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-5/6	8/13/2015	5	6	N	PCB	PCB-1248	0.0863	U	MG/KG	No	0.0863	0.0863
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-5/6	8/13/2015	5	6	N	PCB	PCB-1221	0.0863	U	MG/KG	No	0.0863	0.0863
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-5/6	8/13/2015	5	6	N	PCB	PCB-1254	0.0863	U	MG/KG	No	0.0863	0.0863
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-5/6	8/13/2015	5	6	N	PCB	PCB-1232	0.0863	U	MG/KG	No	0.0863	0.0863
MD_Utility_TS_BonBrae	TMD-SO-106	TMD-SO-106-5/6	8/13/2015	5	6	N	PCB	PCB-1016	0.0863	U	MG/KG	No	0.0863	0.0863
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-1.9/2.9	8/13/2015	1.9	2.9	N	PCB	PCB-1221	0.09	U	MG/KG	No	0.09	0.09
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-1.9/2.9	8/13/2015	1.9	2.9	N	PCB	Total PCBs	2.57	=	MG/KG	Yes		
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-1.9/2.9	8/13/2015	1.9	2.9	N	PCB	PCB-1254	0.09	U	MG/KG	No	0.09	0.09
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-1.9/2.9	8/13/2015	1.9	2.9	N	PCB	PCB-1232	0.09	U	MG/KG	No	0.09	0.09
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-1.9/2.9	8/13/2015	1.9	2.9	N	PCB	PCB-1268	0.09	U	MG/KG	No	0.09	0.09
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-1.9/2.9	8/13/2015	1.9	2.9	N	PCB	PCB-1016	0.09	U	MG/KG	No	0.09	0.09
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-1.9/2.9	8/13/2015	1.9	2.9	N	PCB	PCB-1242	0.09	U	MG/KG	No	0.09	0.09
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-1.9/2.9	8/13/2015	1.9	2.9	N	PCB	PCB-1262	0.09	U	MG/KG	No	0.09	0.09
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-1.9/2.9	8/13/2015	1.9	2.9	N	PCB	PCB-1260	0.09	U	MG/KG	No	0.09	0.09
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-1.9/2.9	8/13/2015	1.9	2.9	N	PCB	PCB-1248	2.57	=	MG/KG	Yes	0.9	0.9
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-12.9/3.	8/13/2015	12.9	3.9	N	PCB	PCB-1221	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-12.9/3.	8/13/2015	12.9	3.9	N	PCB	PCB-1016	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-12.9/3.	8/13/2015	12.9	3.9	N	PCB	PCB-1242	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-12.9/3.	8/13/2015	12.9	3.9	N	PCB	PCB-1268	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-12.9/3.	8/13/2015	12.9	3.9	N	PCB	PCB-1248	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-12.9/3.	8/13/2015	12.9	3.9	N	PCB	PCB-1260	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-12.9/3.	8/13/2015	12.9	3.9	N	PCB	PCB-1262	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-12.9/3.	8/13/2015	12.9	3.9	N	PCB	Total PCBs	0.0505	U	MG/KG	No		
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-12.9/3.	8/13/2015	12.9	3.9	N	PCB	PCB-1232	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_BonBrae	TMD-SO-107	TMD-SO-107-12.9/3.	8/13/2015	12.9	3.9	N	PCB	PCB-1254	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_BonBrae	TMD-SO-108	TMD-SO-108-2.3/3.3	8/13/2015	2.3	3.3	N	PCB	PCB-1248	0.0941	=	MG/KG	Yes	0.0931	0.0931
MD_Utility_TS_BonBrae	TMD-SO-108	TMD-SO-108-2.3/3.3	8/13/2015	2.3	3.3	N	PCB	PCB-1016	0.0931	U	MG/KG	No	0.0931	0.0931
MD_Utility_TS_BonBrae	TMD-SO-108	TMD-SO-108-2.3/3.3	8/13/2015	2.3	3.3	N	PCB	Total PCBs	0.0941	=	MG/KG	Yes		
MD_Utility_TS_BonBrae	TMD-SO-108	TMD-SO-108-2.3/3.3	8/13/2015	2.3	3.3	N	PCB	PCB-1242	0.0931	U	MG/KG	No	0.0931	0.0931

TABLE 6
Analytical Data Used in the HHRA - Martin Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

AOC_ID	Station ID	Sample ID	Collection Date	Upper Depth	Lower Depth	Sample Type	Chem Group	Param Name	Result	ProjQual	Units	Detect	Detect Limit	Reporting Limit
MD_Utility_TS_BonBrae	TMD-SO-108	TMD-SO-108-2.3/3.3	8/13/2015	2.3	3.3	N	PCB	PCB-1232	0.0931	U	MG/KG	No	0.0931	0.0931
MD_Utility_TS_BonBrae	TMD-SO-108	TMD-SO-108-2.3/3.3	8/13/2015	2.3	3.3	N	PCB	PCB-1260	0.0931	U	MG/KG	No	0.0931	0.0931
MD_Utility_TS_BonBrae	TMD-SO-108	TMD-SO-108-2.3/3.3	8/13/2015	2.3	3.3	N	PCB	PCB-1268	0.0931	U	MG/KG	No	0.0931	0.0931
MD_Utility_TS_BonBrae	TMD-SO-108	TMD-SO-108-2.3/3.3	8/13/2015	2.3	3.3	N	PCB	PCB-1221	0.0931	U	MG/KG	No	0.0931	0.0931
MD_Utility_TS_BonBrae	TMD-SO-108	TMD-SO-108-2.3/3.3	8/13/2015	2.3	3.3	N	PCB	PCB-1254	0.0931	U	MG/KG	No	0.0931	0.0931
MD_Utility_TS_BonBrae	TMD-SO-108	TMD-SO-108-2.3/3.3	8/13/2015	2.3	3.3	N	PCB	PCB-1262	0.0931	U	MG/KG	No	0.0931	0.0931
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-5.8/6.3	8/14/2015	5.8	6.3	N	PCB	PCB-1248	0.36	=	MG/KG	Yes	0.0904	0.0904
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-5.8/6.3	8/14/2015	5.8	6.3	N	PCB	PCB-1016	0.0904	U	MG/KG	No	0.0904	0.0904
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-5.8/6.3	8/14/2015	5.8	6.3	N	PCB	PCB-1262	0.0904	U	MG/KG	No	0.0904	0.0904
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-5.8/6.3	8/14/2015	5.8	6.3	N	PCB	PCB-1232	0.0904	U	MG/KG	No	0.0904	0.0904
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-5.8/6.3	8/14/2015	5.8	6.3	N	PCB	PCB-1221	0.0904	U	MG/KG	No	0.0904	0.0904
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-5.8/6.3	8/14/2015	5.8	6.3	N	PCB	PCB-1268	0.0904	U	MG/KG	No	0.0904	0.0904
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-5.8/6.3	8/14/2015	5.8	6.3	N	PCB	PCB-1254	0.0904	U	MG/KG	No	0.0904	0.0904
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-5.8/6.3	8/14/2015	5.8	6.3	N	PCB	PCB-1260	0.0904	U	MG/KG	No	0.0904	0.0904
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-5.8/6.3	8/14/2015	5.8	6.3	N	PCB	PCB-1242	0.0904	U	MG/KG	No	0.0904	0.0904
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-5.8/6.3	8/14/2015	5.8	6.3	N	PCB	Total PCBs	0.36	=	MG/KG	Yes		
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-6.3/6.8	8/14/2015	6.3	6.8	N	PCB	PCB-1221	0.109	U	MG/KG	No	0.109	0.109
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-6.3/6.8	8/14/2015	6.3	6.8	N	PCB	Total PCBs	0.0545	U	MG/KG	No		
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-6.3/6.8	8/14/2015	6.3	6.8	N	PCB	PCB-1260	0.109	U	MG/KG	No	0.109	0.109
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-6.3/6.8	8/14/2015	6.3	6.8	N	PCB	PCB-1248	0.109	U	MG/KG	No	0.109	0.109
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-6.3/6.8	8/14/2015	6.3	6.8	N	PCB	PCB-1268	0.109	U	MG/KG	No	0.109	0.109
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-6.3/6.8	8/14/2015	6.3	6.8	N	PCB	PCB-1254	0.109	U	MG/KG	No	0.109	0.109
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-6.3/6.8	8/14/2015	6.3	6.8	N	PCB	PCB-1016	0.109	U	MG/KG	No	0.109	0.109
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-6.3/6.8	8/14/2015	6.3	6.8	N	PCB	PCB-1262	0.109	U	MG/KG	No	0.109	0.109
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-6.3/6.8	8/14/2015	6.3	6.8	N	PCB	PCB-1232	0.109	U	MG/KG	No	0.109	0.109
MD_Utility_TS_Jefferson St	TMD-SO-109	TMD-SO-109-6.3/6.8	8/14/2015	6.3	6.8	N	PCB	PCB-1242	0.109	U	MG/KG	No	0.109	0.109
MD_Utility_TS_Jefferson St	TMD-SO-110	TMD-SO-110-6.1/7	8/14/2015	6.1	7	N	PCB	PCB-1254	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-110	TMD-SO-110-6.1/7	8/14/2015	6.1	7	N	PCB	Total PCBs	0.051	U	MG/KG	No		
MD_Utility_TS_Jefferson St	TMD-SO-110	TMD-SO-110-6.1/7	8/14/2015	6.1	7	N	PCB	PCB-1242	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-110	TMD-SO-110-6.1/7	8/14/2015	6.1	7	N	PCB	PCB-1016	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-110	TMD-SO-110-6.1/7	8/14/2015	6.1	7	N	PCB	PCB-1260	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-110	TMD-SO-110-6.1/7	8/14/2015	6.1	7	N	PCB	PCB-1268	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-110	TMD-SO-110-6.1/7	8/14/2015	6.1	7	N	PCB	PCB-1221	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-110	TMD-SO-110-6.1/7	8/14/2015	6.1	7	N	PCB	PCB-1248	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-110	TMD-SO-110-6.1/7	8/14/2015	6.1	7	N	PCB	PCB-1262	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-110	TMD-SO-110-6.1/7	8/14/2015	6.1	7	N	PCB	PCB-1232	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-1.5/2.5	8/14/2015	1.5	2.5	N	PCB	PCB-1232	0.074	U	MG/KG	No	0.074	0.074
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-1.5/2.5	8/14/2015	1.5	2.5	N	PCB	PCB-1242	0.074	U	MG/KG	No	0.074	0.074
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-1.5/2.5	8/14/2015	1.5	2.5	N	PCB	PCB-1248	0.074	U	MG/KG	No	0.074	0.074
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-1.5/2.5	8/14/2015	1.5	2.5	N	PCB	PCB-1260	0.074	U	MG/KG	No	0.074	0.074
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-1.5/2.5	8/14/2015	1.5	2.5	N	PCB	PCB-1268	0.074	U	MG/KG	No	0.074	0.074
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-1.5/2.5	8/14/2015	1.5	2.5	N	PCB	PCB-1254	0.074	U	MG/KG	No	0.074	0.074
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-1.5/2.5	8/14/2015	1.5	2.5	N	PCB	PCB-1262	0.074	U	MG/KG	No	0.074	0.074
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-1.5/2.5	8/14/2015	1.5	2.5	N	PCB	Total PCBs	0.037	U	MG/KG	No		
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-1.5/2.5	8/14/2015	1.5	2.5	N	PCB	PCB-1221	0.074	U	MG/KG	No	0.074	0.074
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-1.5/2.5	8/14/2015	1.5	2.5	N	PCB	PCB-1016	0.074	U	MG/KG	No	0.074	0.074
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-5/6	8/14/2015	5	6	N	PCB	PCB-1016	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-5/6	8/14/2015	5	6	N	PCB	PCB-1254	0.107	U	MG/KG	No	0.107	0.107

TABLE 6
Analytical Data Used in the HHRA - Martin Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

AOC_ID	Station ID	Sample ID	Collection Date	Upper Depth	Lower Depth	Sample Type	Chem Group	Param Name	Result	ProjQual	Units	Detect	Detect Limit	Reporting Limit
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-5/6	8/14/2015	5	6	N	PCB	PCB-1260	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-5/6	8/14/2015	5	6	N	PCB	PCB-1268	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-5/6	8/14/2015	5	6	N	PCB	PCB-1221	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-5/6	8/14/2015	5	6	N	PCB	PCB-1248	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-5/6	8/14/2015	5	6	N	PCB	PCB-1262	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-5/6	8/14/2015	5	6	N	PCB	PCB-1242	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-5/6	8/14/2015	5	6	N	PCB	Total PCBs	0.0535	U	MG/KG	No		
MD_Utility_TS_Jefferson St	TMD-SO-111	TMD-SO-111-5/6	8/14/2015	5	6	N	PCB	PCB-1232	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-1.7/2.7	8/14/2015	1.7	2.7	N	PCB	PCB-1254	0.081	U	MG/KG	No	0.081	0.081
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-1.7/2.7	8/14/2015	1.7	2.7	N	PCB	PCB-1260	0.081	U	MG/KG	No	0.081	0.081
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-1.7/2.7	8/14/2015	1.7	2.7	N	PCB	PCB-1262	0.081	U	MG/KG	No	0.081	0.081
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-1.7/2.7	8/14/2015	1.7	2.7	N	PCB	PCB-1248	0.081	U	MG/KG	No	0.081	0.081
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-1.7/2.7	8/14/2015	1.7	2.7	N	PCB	PCB-1016	0.081	U	MG/KG	No	0.081	0.081
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-1.7/2.7	8/14/2015	1.7	2.7	N	PCB	PCB-1242	0.081	U	MG/KG	No	0.081	0.081
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-1.7/2.7	8/14/2015	1.7	2.7	N	PCB	PCB-1232	0.081	U	MG/KG	No	0.081	0.081
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-1.7/2.7	8/14/2015	1.7	2.7	N	PCB	Total PCBs	0.0405	U	MG/KG	No		
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-1.7/2.7	8/14/2015	1.7	2.7	N	PCB	PCB-1221	0.081	U	MG/KG	No	0.081	0.081
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-1.7/2.7	8/14/2015	1.7	2.7	N	PCB	PCB-1268	0.081	U	MG/KG	No	0.081	0.081
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-5/6	8/14/2015	5	6	N	PCB	PCB-1268	0.0959	U	MG/KG	No	0.0959	0.0959
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-5/6	8/14/2015	5	6	N	PCB	PCB-1260	0.0959	U	MG/KG	No	0.0959	0.0959
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-5/6	8/14/2015	5	6	N	PCB	PCB-1221	0.0959	U	MG/KG	No	0.0959	0.0959
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-5/6	8/14/2015	5	6	N	PCB	PCB-1232	0.0959	U	MG/KG	No	0.0959	0.0959
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-5/6	8/14/2015	5	6	N	PCB	PCB-1248	0.0959	U	MG/KG	No	0.0959	0.0959
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-5/6	8/14/2015	5	6	N	PCB	PCB-1016	0.0959	U	MG/KG	No	0.0959	0.0959
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-5/6	8/14/2015	5	6	N	PCB	PCB-1262	0.0959	U	MG/KG	No	0.0959	0.0959
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-5/6	8/14/2015	5	6	N	PCB	PCB-1242	0.0959	U	MG/KG	No	0.0959	0.0959
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-5/6	8/14/2015	5	6	N	PCB	PCB-1254	0.0959	U	MG/KG	No	0.0959	0.0959
MD_Utility_TS_Jefferson St	TMD-SO-112	TMD-SO-112-5/6	8/14/2015	5	6	N	PCB	Total PCBs	0.04795	U	MG/KG	No		
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-2/3	8/14/2015	2	3	N	PCB	Total PCBs	0.04215	U	MG/KG	No		
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-2/3	8/14/2015	2	3	N	PCB	PCB-1221	0.0843	U	MG/KG	No	0.0843	0.0843
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-2/3	8/14/2015	2	3	N	PCB	PCB-1260	0.0843	U	MG/KG	No	0.0843	0.0843
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-2/3	8/14/2015	2	3	N	PCB	PCB-1254	0.0843	U	MG/KG	No	0.0843	0.0843
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-2/3	8/14/2015	2	3	N	PCB	PCB-1242	0.0843	U	MG/KG	No	0.0843	0.0843
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-2/3	8/14/2015	2	3	N	PCB	PCB-1268	0.0843	U	MG/KG	No	0.0843	0.0843
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-2/3	8/14/2015	2	3	N	PCB	PCB-1248	0.0843	U	MG/KG	No	0.0843	0.0843
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-2/3	8/14/2015	2	3	N	PCB	PCB-1016	0.0843	U	MG/KG	No	0.0843	0.0843
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-2/3	8/14/2015	2	3	N	PCB	PCB-1262	0.0843	U	MG/KG	No	0.0843	0.0843
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-2/3	8/14/2015	2	3	N	PCB	PCB-1232	0.0843	U	MG/KG	No	0.0843	0.0843
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-5/6	8/14/2015	5	6	N	PCB	PCB-1016	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-5/6	8/14/2015	5	6	N	PCB	PCB-1232	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-5/6	8/14/2015	5	6	N	PCB	PCB-1260	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-5/6	8/14/2015	5	6	N	PCB	PCB-1254	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-5/6	8/14/2015	5	6	N	PCB	PCB-1242	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-5/6	8/14/2015	5	6	N	PCB	PCB-1248	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-5/6	8/14/2015	5	6	N	PCB	PCB-1262	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-5/6	8/14/2015	5	6	N	PCB	Total PCBs	0.0525	U	MG/KG	No		
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-5/6	8/14/2015	5	6	N	PCB	PCB-1268	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_Jefferson St	TMD-SO-113	TMD-SO-113-5/6	8/14/2015	5	6	N	PCB	PCB-1221	0.105	U	MG/KG	No	0.105	0.105

TABLE 6
Analytical Data Used in the HHRA - Martin Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

AOC_ID	Station ID	Sample ID	Collection Date	Upper Depth	Lower Depth	Sample Type	Chem Group	Param Name	Result	ProjQual	Units	Detect	Detect Limit	Reporting Limit
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1221	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1016	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1254	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1260	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1268	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1262	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1242	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	Total PCBs	0.051	U	MG/KG	No		
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1232	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1248	0.102	U	MG/KG	No	0.102	0.102
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1254	0.0986	U	MG/KG	No	0.0986	0.0986
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1262	0.0986	U	MG/KG	No	0.0986	0.0986
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1016	0.0986	U	MG/KG	No	0.0986	0.0986
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1232	0.0986	U	MG/KG	No	0.0986	0.0986
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1268	0.0986	U	MG/KG	No	0.0986	0.0986
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1260	0.0986	U	MG/KG	No	0.0986	0.0986
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1248	0.0986	U	MG/KG	No	0.0986	0.0986
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	Total PCBs	0.0493	U	MG/KG	No		
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1242	0.0986	U	MG/KG	No	0.0986	0.0986
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-2.5/3.5	8/14/2015	2.5	3.5	N	PCB	PCB-1221	0.0986	U	MG/KG	No	0.0986	0.0986
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-5/5.6	8/14/2015	5	5.6	N	PCB	PCB-1016	0.0901	U	MG/KG	No	0.0901	0.0901
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-5/5.6	8/14/2015	5	5.6	N	PCB	PCB-1221	0.0901	U	MG/KG	No	0.0901	0.0901
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-5/5.6	8/14/2015	5	5.6	N	PCB	PCB-1262	0.0901	U	MG/KG	No	0.0901	0.0901
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-5/5.6	8/14/2015	5	5.6	N	PCB	PCB-1242	0.0901	U	MG/KG	No	0.0901	0.0901
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-5/5.6	8/14/2015	5	5.6	N	PCB	Total PCBs	0.04505	U	MG/KG	No		
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-5/5.6	8/14/2015	5	5.6	N	PCB	PCB-1248	0.0901	U	MG/KG	No	0.0901	0.0901
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-5/5.6	8/14/2015	5	5.6	N	PCB	PCB-1232	0.0901	U	MG/KG	No	0.0901	0.0901
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-5/5.6	8/14/2015	5	5.6	N	PCB	PCB-1268	0.0901	U	MG/KG	No	0.0901	0.0901
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-5/5.6	8/14/2015	5	5.6	N	PCB	PCB-1260	0.0901	U	MG/KG	No	0.0901	0.0901
MD_Utility_TS_Jefferson St	TMD-SO-114	TMD-SO-114-5/5.6	8/14/2015	5	5.6	N	PCB	PCB-1254	0.0901	U	MG/KG	No	0.0901	0.0901
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-2.9/3.9	8/14/2015	2.9	3.9	N	PCB	PCB-1242	0.113	U	MG/KG	No	0.113	0.113
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-2.9/3.9	8/14/2015	2.9	3.9	N	PCB	Total PCBs	0.0565	U	MG/KG	No		
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-2.9/3.9	8/14/2015	2.9	3.9	N	PCB	PCB-1262	0.113	U	MG/KG	No	0.113	0.113
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-2.9/3.9	8/14/2015	2.9	3.9	N	PCB	PCB-1016	0.113	U	MG/KG	No	0.113	0.113
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-2.9/3.9	8/14/2015	2.9	3.9	N	PCB	PCB-1248	0.113	U	MG/KG	No	0.113	0.113
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-2.9/3.9	8/14/2015	2.9	3.9	N	PCB	PCB-1268	0.113	U	MG/KG	No	0.113	0.113
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-2.9/3.9	8/14/2015	2.9	3.9	N	PCB	PCB-1254	0.113	U	MG/KG	No	0.113	0.113
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-2.9/3.9	8/14/2015	2.9	3.9	N	PCB	PCB-1260	0.113	U	MG/KG	No	0.113	0.113
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-2.9/3.9	8/14/2015	2.9	3.9	N	PCB	PCB-1232	0.113	U	MG/KG	No	0.113	0.113
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-2.9/3.9	8/14/2015	2.9	3.9	N	PCB	PCB-1221	0.113	U	MG/KG	No	0.113	0.113
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-5/5.4	8/14/2015	5	5.4	N	PCB	PCB-1254	0.0945	U	MG/KG	No	0.0945	0.0945
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-5/5.4	8/14/2015	5	5.4	N	PCB	PCB-1232	0.0945	U	MG/KG	No	0.0945	0.0945
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-5/5.4	8/14/2015	5	5.4	N	PCB	PCB-1242	0.0945	U	MG/KG	No	0.0945	0.0945
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-5/5.4	8/14/2015	5	5.4	N	PCB	PCB-1268	0.0945	U	MG/KG	No	0.0945	0.0945
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-5/5.4	8/14/2015	5	5.4	N	PCB	PCB-1248	0.0945	U	MG/KG	No	0.0945	0.0945
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-5/5.4	8/14/2015	5	5.4	N	PCB	Total PCBs	0.04725	U	MG/KG	No		
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-5/5.4	8/14/2015	5	5.4	N	PCB	PCB-1260	0.0945	U	MG/KG	No	0.0945	0.0945
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-5/5.4	8/14/2015	5	5.4	N	PCB	PCB-1262	0.0945	U	MG/KG	No	0.0945	0.0945

TABLE 6
Analytical Data Used in the HHRA - Martin Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

AOC_ID	Station ID	Sample ID	Collection Date	Upper Depth	Lower Depth	Sample Type	Chem Group	Param Name	Result	ProjQual	Units	Detect	Detect Limit	Reporting Limit
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-5/5.4	8/14/2015	5	5.4	N	PCB	PCB-1016	0.0945	U	MG/KG	No	0.0945	0.0945
MD_Utility_TS_Jefferson St	TMD-SO-115	TMD-SO-115-5/5.4	8/14/2015	5	5.4	N	PCB	PCB-1221	0.0945	U	MG/KG	No	0.0945	0.0945
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-3.8/4.6	8/14/2015	3.8	4.6	N	PCB	PCB-1248	0.082	U	MG/KG	No	0.082	0.082
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-3.8/4.6	8/14/2015	3.8	4.6	N	PCB	PCB-1242	0.082	U	MG/KG	No	0.082	0.082
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-3.8/4.6	8/14/2015	3.8	4.6	N	PCB	PCB-1221	0.082	U	MG/KG	No	0.082	0.082
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-3.8/4.6	8/14/2015	3.8	4.6	N	PCB	PCB-1268	0.082	U	MG/KG	No	0.082	0.082
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-3.8/4.6	8/14/2015	3.8	4.6	N	PCB	PCB-1262	0.082	U	MG/KG	No	0.082	0.082
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-3.8/4.6	8/14/2015	3.8	4.6	N	PCB	PCB-1254	0.082	U	MG/KG	No	0.082	0.082
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-3.8/4.6	8/14/2015	3.8	4.6	N	PCB	PCB-1016	0.082	U	MG/KG	No	0.082	0.082
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-3.8/4.6	8/14/2015	3.8	4.6	N	PCB	PCB-1260	0.082	U	MG/KG	No	0.082	0.082
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-3.8/4.6	8/14/2015	3.8	4.6	N	PCB	Total PCBs	0.041	U	MG/KG	No		
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-3.8/4.6	8/14/2015	3.8	4.6	N	PCB	PCB-1232	0.082	U	MG/KG	No	0.082	0.082
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-5.8/6.8	8/14/2015	5.8	6.8	N	PCB	PCB-1016	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-5.8/6.8	8/14/2015	5.8	6.8	N	PCB	PCB-1262	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-5.8/6.8	8/14/2015	5.8	6.8	N	PCB	Total PCBs	0.0535	U	MG/KG	No		
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-5.8/6.8	8/14/2015	5.8	6.8	N	PCB	PCB-1248	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-5.8/6.8	8/14/2015	5.8	6.8	N	PCB	PCB-1260	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-5.8/6.8	8/14/2015	5.8	6.8	N	PCB	PCB-1221	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-5.8/6.8	8/14/2015	5.8	6.8	N	PCB	PCB-1254	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-5.8/6.8	8/14/2015	5.8	6.8	N	PCB	PCB-1268	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-5.8/6.8	8/14/2015	5.8	6.8	N	PCB	PCB-1242	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_Jefferson St	TMD-SO-116	TMD-SO-116-5.8/6.8	8/14/2015	5.8	6.8	N	PCB	PCB-1232	0.107	U	MG/KG	No	0.107	0.107
MD_Utility_TS_Jefferson St	TMD-SO-117	TMD-SO-117-2.3/3.3	8/14/2015	2.3	3.3	N	PCB	PCB-1221	0.103	U	MG/KG	No	0.103	0.103
MD_Utility_TS_Jefferson St	TMD-SO-117	TMD-SO-117-2.3/3.3	8/14/2015	2.3	3.3	N	PCB	PCB-1260	0.103	U	MG/KG	No	0.103	0.103
MD_Utility_TS_Jefferson St	TMD-SO-117	TMD-SO-117-2.3/3.3	8/14/2015	2.3	3.3	N	PCB	Total PCBs	0.0515	U	MG/KG	No		
MD_Utility_TS_Jefferson St	TMD-SO-117	TMD-SO-117-2.3/3.3	8/14/2015	2.3	3.3	N	PCB	PCB-1016	0.103	U	MG/KG	No	0.103	0.103
MD_Utility_TS_Jefferson St	TMD-SO-117	TMD-SO-117-2.3/3.3	8/14/2015	2.3	3.3	N	PCB	PCB-1254	0.103	U	MG/KG	No	0.103	0.103
MD_Utility_TS_Jefferson St	TMD-SO-117	TMD-SO-117-2.3/3.3	8/14/2015	2.3	3.3	N	PCB	PCB-1232	0.103	U	MG/KG	No	0.103	0.103
MD_Utility_TS_Jefferson St	TMD-SO-117	TMD-SO-117-2.3/3.3	8/14/2015	2.3	3.3	N	PCB	PCB-1268	0.103	U	MG/KG	No	0.103	0.103
MD_Utility_TS_Jefferson St	TMD-SO-117	TMD-SO-117-2.3/3.3	8/14/2015	2.3	3.3	N	PCB	PCB-1242	0.103	U	MG/KG	No	0.103	0.103
MD_Utility_TS_Jefferson St	TMD-SO-117	TMD-SO-117-2.3/3.3	8/14/2015	2.3	3.3	N	PCB	PCB-1262	0.103	U	MG/KG	No	0.103	0.103
MD_Utility_TS_Jefferson St	TMD-SO-117	TMD-SO-117-2.3/3.3	8/14/2015	2.3	3.3	N	PCB	PCB-1248	0.103	U	MG/KG	No	0.103	0.103
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-1.3/2.3	8/14/2015	1.3	2.3	N	PCB	PCB-1221	0.109	U	MG/KG	No	0.109	0.109
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-1.3/2.3	8/14/2015	1.3	2.3	N	PCB	PCB-1242	0.109	U	MG/KG	No	0.109	0.109
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-1.3/2.3	8/14/2015	1.3	2.3	N	PCB	PCB-1260	0.109	U	MG/KG	No	0.109	0.109
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-1.3/2.3	8/14/2015	1.3	2.3	N	PCB	PCB-1254	0.109	U	MG/KG	No	0.109	0.109
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-1.3/2.3	8/14/2015	1.3	2.3	N	PCB	PCB-1268	0.109	U	MG/KG	No	0.109	0.109
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-1.3/2.3	8/14/2015	1.3	2.3	N	PCB	PCB-1248	0.109	U	MG/KG	No	0.109	0.109
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-1.3/2.3	8/14/2015	1.3	2.3	N	PCB	PCB-1262	0.109	U	MG/KG	No	0.109	0.109
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-1.3/2.3	8/14/2015	1.3	2.3	N	PCB	PCB-1016	0.109	U	MG/KG	No	0.109	0.109
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-1.3/2.3	8/14/2015	1.3	2.3	N	PCB	Total PCBs	0.0545	U	MG/KG	No		
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-1.3/2.3	8/14/2015	1.3	2.3	N	PCB	PCB-1232	0.109	U	MG/KG	No	0.109	0.109
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-3.7/4.7	8/14/2015	3.7	4.7	N	PCB	PCB-1248	0.0992	U	MG/KG	No	0.0992	0.0992
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-3.7/4.7	8/14/2015	3.7	4.7	N	PCB	PCB-1232	0.0992	U	MG/KG	No	0.0992	0.0992
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-3.7/4.7	8/14/2015	3.7	4.7	N	PCB	PCB-1260	0.0992	U	MG/KG	No	0.0992	0.0992
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-3.7/4.7	8/14/2015	3.7	4.7	N	PCB	PCB-1254	0.0992	U	MG/KG	No	0.0992	0.0992
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-3.7/4.7	8/14/2015	3.7	4.7	N	PCB	PCB-1221	0.0992	U	MG/KG	No	0.0992	0.0992
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-3.7/4.7	8/14/2015	3.7	4.7	N	PCB	PCB-1016	0.0992	U	MG/KG	No	0.0992	0.0992

TABLE 6
Analytical Data Used in the HHRA - Martin Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

AOC_ID	Station ID	Sample ID	Collection Date	Upper Depth	Lower Depth	Sample Type	Chem Group	Param Name	Result	ProjQual	Units	Detect	Detect Limit	Reporting Limit
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-3.7/4.7	8/14/2015	3.7	4.7	N	PCB	PCB-1262	0.0992	U	MG/KG	No	0.0992	0.0992
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-3.7/4.7	8/14/2015	3.7	4.7	N	PCB	Total PCBs	0.0496	U	MG/KG	No		
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-3.7/4.7	8/14/2015	3.7	4.7	N	PCB	PCB-1268	0.0992	U	MG/KG	No	0.0992	0.0992
MD_RES_TS_Yard	TMD-SO-119	TMD-SO-119-3.7/4.7	8/14/2015	3.7	4.7	N	PCB	PCB-1242	0.0992	U	MG/KG	No	0.0992	0.0992
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1221	0.103	U	MG/KG	No	0.103	0.103
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	Total PCBs	2.37	=	MG/KG	Yes		
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1254	0.103	U	MG/KG	No	0.103	0.103
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1260	0.103	U	MG/KG	No	0.103	0.103
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1268	0.103	U	MG/KG	No	0.103	0.103
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1248	2.37	=	MG/KG	Yes	0.513	0.513
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1016	0.103	U	MG/KG	No	0.103	0.103
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1262	0.103	U	MG/KG	No	0.103	0.103
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1242	0.103	U	MG/KG	No	0.103	0.103
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1232	0.103	U	MG/KG	No	0.103	0.103
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1254	0.108	U	MG/KG	No	0.108	0.108
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1262	0.108	U	MG/KG	No	0.108	0.108
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1242	0.108	U	MG/KG	No	0.108	0.108
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1016	0.108	U	MG/KG	No	0.108	0.108
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1232	0.108	U	MG/KG	No	0.108	0.108
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1268	0.108	U	MG/KG	No	0.108	0.108
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1260	0.108	U	MG/KG	No	0.108	0.108
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1248	1.92	=	MG/KG	Yes	0.108	0.108
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	Total PCBs	1.92	=	MG/KG	Yes		
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-1.4/2.4	8/14/2015	1.4	2.4	N	PCB	PCB-1221	0.108	U	MG/KG	No	0.108	0.108
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-2.4/3	8/14/2015	2.4	3	N	PCB	PCB-1248	0.114	=	MG/KG	Yes	0.0928	0.0928
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-2.4/3	8/14/2015	2.4	3	N	PCB	Total PCBs	0.114	=	MG/KG	Yes		
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-2.4/3	8/14/2015	2.4	3	N	PCB	PCB-1232	0.0928	U	MG/KG	No	0.0928	0.0928
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-2.4/3	8/14/2015	2.4	3	N	PCB	PCB-1262	0.0928	U	MG/KG	No	0.0928	0.0928
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-2.4/3	8/14/2015	2.4	3	N	PCB	PCB-1268	0.0928	U	MG/KG	No	0.0928	0.0928
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-2.4/3	8/14/2015	2.4	3	N	PCB	PCB-1254	0.0928	U	MG/KG	No	0.0928	0.0928
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-2.4/3	8/14/2015	2.4	3	N	PCB	PCB-1260	0.0928	U	MG/KG	No	0.0928	0.0928
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-2.4/3	8/14/2015	2.4	3	N	PCB	PCB-1016	0.0928	U	MG/KG	No	0.0928	0.0928
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-2.4/3	8/14/2015	2.4	3	N	PCB	PCB-1242	0.0928	U	MG/KG	No	0.0928	0.0928
MD_RES_TS_Yard	TMD-SO-120	TMD-SO-120-2.4/3	8/14/2015	2.4	3	N	PCB	PCB-1221	0.0928	U	MG/KG	No	0.0928	0.0928
MD_RES_TS_Yard	TMD-SO-121	TMD-SO-121-5/5.9	8/14/2015	5	5.9	N	PCB	PCB-1248	8.59	=	MG/KG	Yes	1.12	1.12
MD_RES_TS_Yard	TMD-SO-121	TMD-SO-121-5/5.9	8/14/2015	5	5.9	N	PCB	PCB-1260	0.112	U	MG/KG	No	0.112	0.112
MD_RES_TS_Yard	TMD-SO-121	TMD-SO-121-5/5.9	8/14/2015	5	5.9	N	PCB	PCB-1254	0.112	U	MG/KG	No	0.112	0.112
MD_RES_TS_Yard	TMD-SO-121	TMD-SO-121-5/5.9	8/14/2015	5	5.9	N	PCB	PCB-1268	0.112	U	MG/KG	No	0.112	0.112
MD_RES_TS_Yard	TMD-SO-121	TMD-SO-121-5/5.9	8/14/2015	5	5.9	N	PCB	PCB-1242	0.112	U	MG/KG	No	0.112	0.112
MD_RES_TS_Yard	TMD-SO-121	TMD-SO-121-5/5.9	8/14/2015	5	5.9	N	PCB	PCB-1016	0.112	U	MG/KG	No	0.112	0.112
MD_RES_TS_Yard	TMD-SO-121	TMD-SO-121-5/5.9	8/14/2015	5	5.9	N	PCB	PCB-1262	0.112	U	MG/KG	No	0.112	0.112
MD_RES_TS_Yard	TMD-SO-121	TMD-SO-121-5/5.9	8/14/2015	5	5.9	N	PCB	Total PCBs	8.59	=	MG/KG	Yes		
MD_RES_TS_Yard	TMD-SO-121	TMD-SO-121-5/5.9	8/14/2015	5	5.9	N	PCB	PCB-1232	0.112	U	MG/KG	No	0.112	0.112
MD_RES_TS_Yard	TMD-SO-121	TMD-SO-121-5/5.9	8/14/2015	5	5.9	N	PCB	PCB-1221	0.112	U	MG/KG	No	0.112	0.112
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4	8/14/2015	2	2.4	N	PCB	PCB-1232	0.121	U	MG/KG	No	0.121	0.121
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4	8/14/2015	2	2.4	N	PCB	Total PCBs	0.0605	U	MG/KG	No		
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4	8/14/2015	2	2.4	N	PCB	PCB-1260	0.121	U	MG/KG	No	0.121	0.121
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4	8/14/2015	2	2.4	N	PCB	PCB-1242	0.121	U	MG/KG	No	0.121	0.121

TABLE 6
Analytical Data Used in the HHRA - Martin Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

AOC_ID	Station ID	Sample ID	Collection Date	Upper Depth	Lower Depth	Sample Type	Chem Group	Param Name	Result	ProjQual	Units	Detect	Detect Limit	Reporting Limit
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4	8/14/2015	2	2.4	N	PCB	PCB-1262	0.121	U	MG/KG	No	0.121	0.121
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4	8/14/2015	2	2.4	N	PCB	PCB-1248	0.121	U	MG/KG	No	0.121	0.121
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4	8/14/2015	2	2.4	N	PCB	PCB-1221	0.121	U	MG/KG	No	0.121	0.121
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4	8/14/2015	2	2.4	N	PCB	PCB-1254	0.121	U	MG/KG	No	0.121	0.121
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4	8/14/2015	2	2.4	N	PCB	PCB-1268	0.121	U	MG/KG	No	0.121	0.121
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4	8/14/2015	2	2.4	N	PCB	PCB-1016	0.121	U	MG/KG	No	0.121	0.121
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4-R	8/14/2015	2	2.4	N	PCB	PCB-1248	0.112	U	MG/KG	No	0.112	0.112
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4-R	8/14/2015	2	2.4	N	PCB	PCB-1268	0.112	U	MG/KG	No	0.112	0.112
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4-R	8/14/2015	2	2.4	N	PCB	PCB-1221	0.112	U	MG/KG	No	0.112	0.112
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4-R	8/14/2015	2	2.4	N	PCB	Total PCBs	0.056	U	MG/KG	No		
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4-R	8/14/2015	2	2.4	N	PCB	PCB-1016	0.112	U	MG/KG	No	0.112	0.112
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4-R	8/14/2015	2	2.4	N	PCB	PCB-1232	0.112	U	MG/KG	No	0.112	0.112
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4-R	8/14/2015	2	2.4	N	PCB	PCB-1262	0.112	U	MG/KG	No	0.112	0.112
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4-R	8/14/2015	2	2.4	N	PCB	PCB-1242	0.112	U	MG/KG	No	0.112	0.112
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4-R	8/14/2015	2	2.4	N	PCB	PCB-1254	0.112	U	MG/KG	No	0.112	0.112
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-2/2.4-R	8/14/2015	2	2.4	N	PCB	PCB-1260	0.112	U	MG/KG	No	0.112	0.112
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-2.2/3.2	8/14/2015	2.2	3.2	N	PCB	PCB-1260	0.0981	U	MG/KG	No	0.0981	0.0981
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-2.2/3.2	8/14/2015	2.2	3.2	N	PCB	PCB-1016	0.0981	U	MG/KG	No	0.0981	0.0981
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-2.2/3.2	8/14/2015	2.2	3.2	N	PCB	PCB-1221	0.0981	U	MG/KG	No	0.0981	0.0981
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-2.2/3.2	8/14/2015	2.2	3.2	N	PCB	PCB-1242	0.0981	U	MG/KG	No	0.0981	0.0981
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-2.2/3.2	8/14/2015	2.2	3.2	N	PCB	PCB-1262	0.0981	U	MG/KG	No	0.0981	0.0981
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-2.2/3.2	8/14/2015	2.2	3.2	N	PCB	PCB-1242	0.0981	U	MG/KG	No	0.0981	0.0981
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-2.2/3.2	8/14/2015	2.2	3.2	N	PCB	PCB-1262	0.0981	U	MG/KG	No	0.0981	0.0981
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-2.2/3.2	8/14/2015	2.2	3.2	N	PCB	Total PCBs	0.04905	U	MG/KG	No		
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-2.2/3.2	8/14/2015	2.2	3.2	N	PCB	PCB-1232	0.0981	U	MG/KG	No	0.0981	0.0981
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-2.2/3.2	8/14/2015	2.2	3.2	N	PCB	PCB-1254	0.0981	U	MG/KG	No	0.0981	0.0981
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-2.2/3.2	8/14/2015	2.2	3.2	N	PCB	PCB-1248	0.0981	U	MG/KG	No	0.0981	0.0981
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-2.2/3.2	8/14/2015	2.2	3.2	N	PCB	PCB-1268	0.0981	U	MG/KG	No	0.0981	0.0981
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-2/3	8/13/2015	2	3	N	PCB	Total PCBs	0.04685	U	MG/KG	No		
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-2/3	8/13/2015	2	3	N	PCB	PCB-1242	0.0937	U	MG/KG	No	0.0937	0.0937
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-2/3	8/13/2015	2	3	N	PCB	PCB-1262	0.0937	U	MG/KG	No	0.0937	0.0937
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-2/3	8/13/2015	2	3	N	PCB	PCB-1016	0.0937	U	MG/KG	No	0.0937	0.0937
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-2/3	8/13/2015	2	3	N	PCB	PCB-1248	0.0937	U	MG/KG	No	0.0937	0.0937
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-2/3	8/13/2015	2	3	N	PCB	PCB-1268	0.0937	U	MG/KG	No	0.0937	0.0937
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-2/3	8/13/2015	2	3	N	PCB	PCB-1260	0.0937	U	MG/KG	No	0.0937	0.0937
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-2/3	8/13/2015	2	3	N	PCB	PCB-1254	0.0937	U	MG/KG	No	0.0937	0.0937
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-2/3	8/13/2015	2	3	N	PCB	PCB-1221	0.0937	U	MG/KG	No	0.0937	0.0937
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-2/3	8/13/2015	2	3	N	PCB	PCB-1232	0.0937	U	MG/KG	No	0.0937	0.0937
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-6/7.5	8/13/2015	6	7.5	N	PCB	PCB-1248	0.364	J	MG/KG	Yes	0.0989	0.0989
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-6/7.5	8/13/2015	6	7.5	N	PCB	PCB-1268	0.0989	U	MG/KG	No	0.0989	0.0989
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-6/7.5	8/13/2015	6	7.5	N	PCB	PCB-1260	0.0989	U	MG/KG	No	0.0989	0.0989
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-6/7.5	8/13/2015	6	7.5	N	PCB	PCB-1254	0.0989	U	MG/KG	No	0.0989	0.0989
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-6/7.5	8/13/2015	6	7.5	N	PCB	PCB-1221	0.0989	U	MG/KG	No	0.0989	0.0989
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-6/7.5	8/13/2015	6	7.5	N	PCB	PCB-1016	0.0989	U	MG/KG	No	0.0989	0.0989
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-6/7.5	8/13/2015	6	7.5	N	PCB	PCB-1262	0.0989	U	MG/KG	No	0.0989	0.0989
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-6/7.5	8/13/2015	6	7.5	N	PCB	Total PCBs	0.364	=	MG/KG	Yes		
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-6/7.5	8/13/2015	6	7.5	N	PCB	PCB-1232	0.0989	U	MG/KG	No	0.0989	0.0989
MD_Utility_TS_B Street	TMD-SO-88	TMD-SO-088-6/7.5	8/13/2015	6	7.5	N	PCB	PCB-1242	0.0989	U	MG/KG	No	0.0989	0.0989
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-2/3	8/13/2015	2	3	N	PCB	PCB-1254	0.0922	U	MG/KG	No	0.0922	0.0922
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-2/3	8/13/2015	2	3	N	PCB	PCB-1221	0.0922	U	MG/KG	No	0.0922	0.0922

TABLE 6
Analytical Data Used in the HHRA - Martin Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

AOC_ID	Station ID	Sample ID	Collection Date	Upper Depth	Lower Depth	Sample Type	Chem Group	Param Name	Result	ProjQual	Units	Detect	Detect Limit	Reporting Limit
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-2/3	8/13/2015	2	3	N	PCB	PCB-1260	0.0922	U	MG/KG	No	0.0922	0.0922
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-2/3	8/13/2015	2	3	N	PCB	PCB-1268	0.0922	U	MG/KG	No	0.0922	0.0922
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-2/3	8/13/2015	2	3	N	PCB	PCB-1248	0.0922	U	MG/KG	No	0.0922	0.0922
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-2/3	8/13/2015	2	3	N	PCB	PCB-1262	0.0922	U	MG/KG	No	0.0922	0.0922
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-2/3	8/13/2015	2	3	N	PCB	PCB-1242	0.0922	U	MG/KG	No	0.0922	0.0922
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-2/3	8/13/2015	2	3	N	PCB	Total PCBs	0.0461	U	MG/KG	No		
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-2/3	8/13/2015	2	3	N	PCB	PCB-1016	0.0922	U	MG/KG	No	0.0922	0.0922
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-2/3	8/13/2015	2	3	N	PCB	PCB-1232	0.0922	U	MG/KG	No	0.0922	0.0922
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-5/6	8/13/2015	5	6	N	PCB	PCB-1016	0.0891	U	MG/KG	No	0.0891	0.0891
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-5/6	8/13/2015	5	6	N	PCB	PCB-1221	0.0891	U	MG/KG	No	0.0891	0.0891
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-5/6	8/13/2015	5	6	N	PCB	PCB-1232	0.0891	U	MG/KG	No	0.0891	0.0891
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-5/6	8/13/2015	5	6	N	PCB	PCB-1268	0.0891	U	MG/KG	No	0.0891	0.0891
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-5/6	8/13/2015	5	6	N	PCB	PCB-1262	0.0891	U	MG/KG	No	0.0891	0.0891
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-5/6	8/13/2015	5	6	N	PCB	PCB-1254	0.0891	U	MG/KG	No	0.0891	0.0891
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-5/6	8/13/2015	5	6	N	PCB	PCB-1248	0.0891	U	MG/KG	No	0.0891	0.0891
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-5/6	8/13/2015	5	6	N	PCB	PCB-1242	0.0891	U	MG/KG	No	0.0891	0.0891
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-5/6	8/13/2015	5	6	N	PCB	Total PCBs	0.04455	U	MG/KG	No		
MD_Utility_TS_B Street	TMD-SO-89	TMD-SO-089-5/6	8/13/2015	5	6	N	PCB	PCB-1260	0.0891	U	MG/KG	No	0.0891	0.0891
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-2/3	8/13/2015	2	3	N	PCB	PCB-1221	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-2/3	8/13/2015	2	3	N	PCB	PCB-1242	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-2/3	8/13/2015	2	3	N	PCB	PCB-1268	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-2/3	8/13/2015	2	3	N	PCB	PCB-1242	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-2/3	8/13/2015	2	3	N	PCB	PCB-1268	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-2/3	8/13/2015	2	3	N	PCB	Total PCBs	0.0505	U	MG/KG	No		
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-2/3	8/13/2015	2	3	N	PCB	PCB-1254	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-2/3	8/13/2015	2	3	N	PCB	PCB-1232	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-2/3	8/13/2015	2	3	N	PCB	PCB-1248	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-2/3	8/13/2015	2	3	N	PCB	PCB-1262	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-2/3	8/13/2015	2	3	N	PCB	PCB-1260	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-2/3	8/13/2015	2	3	N	PCB	PCB-1016	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-6/7	8/13/2015	6	7	N	PCB	PCB-1221	0.09	U	MG/KG	No	0.09	0.09
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-6/7	8/13/2015	6	7	N	PCB	PCB-1248	0.09	U	MG/KG	No	0.09	0.09
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-6/7	8/13/2015	6	7	N	PCB	PCB-1262	0.09	U	MG/KG	No	0.09	0.09
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-6/7	8/13/2015	6	7	N	PCB	PCB-1242	0.09	U	MG/KG	No	0.09	0.09
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-6/7	8/13/2015	6	7	N	PCB	Total PCBs	0.045	U	MG/KG	No		
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-6/7	8/13/2015	6	7	N	PCB	PCB-1260	0.09	U	MG/KG	No	0.09	0.09
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-6/7	8/13/2015	6	7	N	PCB	PCB-1232	0.09	U	MG/KG	No	0.09	0.09
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-6/7	8/13/2015	6	7	N	PCB	PCB-1254	0.09	U	MG/KG	No	0.09	0.09
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-6/7	8/13/2015	6	7	N	PCB	PCB-1268	0.09	U	MG/KG	No	0.09	0.09
MD_Utility_TS_B Street	TMD-SO-90	TMD-SO-090-6/7	8/13/2015	6	7	N	PCB	PCB-1016	0.09	U	MG/KG	No	0.09	0.09
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-2/3	8/13/2015	2	3	N	PCB	PCB-1260	0.0988	U	MG/KG	No	0.0988	0.0988
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-2/3	8/13/2015	2	3	N	PCB	PCB-1016	0.0988	U	MG/KG	No	0.0988	0.0988
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-2/3	8/13/2015	2	3	N	PCB	PCB-1232	0.0988	U	MG/KG	No	0.0988	0.0988
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-2/3	8/13/2015	2	3	N	PCB	Total PCBs	0.2184	=	MG/KG	Yes		
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-2/3	8/13/2015	2	3	N	PCB	PCB-1221	0.0988	U	MG/KG	No	0.0988	0.0988
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-2/3	8/13/2015	2	3	N	PCB	PCB-1268	0.0988	U	MG/KG	No	0.0988	0.0988
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-2/3	8/13/2015	2	3	N	PCB	PCB-1254	0.169	=	MG/KG	Yes	0.0988	0.0988
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-2/3	8/13/2015	2	3	N	PCB	PCB-1262	0.0988	U	MG/KG	No	0.0988	0.0988
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-2/3	8/13/2015	2	3	N	PCB	PCB-1242	0.0988	U	MG/KG	No	0.0988	0.0988
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-2/3	8/13/2015	2	3	N	PCB	PCB-1248	0.0988	U	MG/KG	No	0.0988	0.0988

TABLE 6
Analytical Data Used in the HHRA - Martin Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

AOC_ID	Station ID	Sample ID	Collection Date	Upper Depth	Lower Depth	Sample Type	Chem Group	Param Name	Result	ProjQual	Units	Detect	Detect Limit	Reporting Limit
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-7/8	8/13/2015	7	8	N	PCB	PCB-1016	0.0935	U	MG/KG	No	0.0935	0.0935
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-7/8	8/13/2015	7	8	N	PCB	PCB-1232	0.0935	U	MG/KG	No	0.0935	0.0935
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-7/8	8/13/2015	7	8	N	PCB	Total PCBs	0.04675	U	MG/KG	No		
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-7/8	8/13/2015	7	8	N	PCB	PCB-1242	0.0935	U	MG/KG	No	0.0935	0.0935
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-7/8	8/13/2015	7	8	N	PCB	PCB-1262	0.0935	U	MG/KG	No	0.0935	0.0935
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-7/8	8/13/2015	7	8	N	PCB	PCB-1248	0.0935	U	MG/KG	No	0.0935	0.0935
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-7/8	8/13/2015	7	8	N	PCB	PCB-1221	0.0935	U	MG/KG	No	0.0935	0.0935
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-7/8	8/13/2015	7	8	N	PCB	PCB-1268	0.0935	U	MG/KG	No	0.0935	0.0935
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-7/8	8/13/2015	7	8	N	PCB	PCB-1260	0.0935	U	MG/KG	No	0.0935	0.0935
MD_Utility_TS_B Street	TMD-SO-91	TMD-SO-091-7/8	8/13/2015	7	8	N	PCB	PCB-1254	0.0935	U	MG/KG	No	0.0935	0.0935
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-2/3	8/13/2015	2	3	N	PCB	PCB-1262	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-2/3	8/13/2015	2	3	N	PCB	PCB-1260	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-2/3	8/13/2015	2	3	N	PCB	PCB-1254	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-2/3	8/13/2015	2	3	N	PCB	PCB-1268	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-2/3	8/13/2015	2	3	N	PCB	PCB-1221	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-2/3	8/13/2015	2	3	N	PCB	PCB-1248	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-2/3	8/13/2015	2	3	N	PCB	PCB-1242	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-2/3	8/13/2015	2	3	N	PCB	Total PCBs	0.053	U	MG/KG	No		
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-2/3	8/13/2015	2	3	N	PCB	PCB-1232	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-2/3	8/13/2015	2	3	N	PCB	PCB-1016	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1254	0.0951	U	MG/KG	No	0.0951	0.0951
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-2/3	8/13/2015	2	3	N	PCB	PCB-1016	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1254	0.0951	U	MG/KG	No	0.0951	0.0951
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1016	0.0951	U	MG/KG	No	0.0951	0.0951
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1262	0.0951	U	MG/KG	No	0.0951	0.0951
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1248	0.175	J	MG/KG	Yes	0.0951	0.0951
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1232	0.0951	U	MG/KG	No	0.0951	0.0951
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1268	0.0951	U	MG/KG	No	0.0951	0.0951
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1260	0.0951	U	MG/KG	No	0.0951	0.0951
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	Total PCBs	0.175	=	MG/KG	Yes		
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1242	0.0951	U	MG/KG	No	0.0951	0.0951
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1221	0.0951	U	MG/KG	No	0.0951	0.0951
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1262	0.0832	U	MG/KG	No	0.0832	0.0832
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1260	0.0832	U	MG/KG	No	0.0832	0.0832
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1248	0.0832	U	MG/KG	No	0.0832	0.0832
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1242	0.0832	U	MG/KG	No	0.0832	0.0832
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	Total PCBs	0.0416	U	MG/KG	No		
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1232	0.0832	U	MG/KG	No	0.0832	0.0832
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1254	0.0832	U	MG/KG	No	0.0832	0.0832
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1221	0.0832	U	MG/KG	No	0.0832	0.0832
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1016	0.0832	U	MG/KG	No	0.0832	0.0832
MD_Utility_TS_B Street	TMD-SO-92	TMD-SO-092-7.5/8.5	8/13/2015	7.5	8.5	N	PCB	PCB-1268	0.0832	U	MG/KG	No	0.0832	0.0832
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-2/3	8/13/2015	2	3	N	PCB	PCB-1248	0.0801	U	MG/KG	No	0.0801	0.0801
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-2/3	8/13/2015	2	3	N	PCB	Total PCBs	0.04005	U	MG/KG	No		
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-2/3	8/13/2015	2	3	N	PCB	PCB-1016	0.0801	U	MG/KG	No	0.0801	0.0801
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-2/3	8/13/2015	2	3	N	PCB	PCB-1260	0.0801	U	MG/KG	No	0.0801	0.0801
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-2/3	8/13/2015	2	3	N	PCB	PCB-1254	0.0801	U	MG/KG	No	0.0801	0.0801
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-2/3	8/13/2015	2	3	N	PCB	PCB-1221	0.0801	U	MG/KG	No	0.0801	0.0801
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-2/3	8/13/2015	2	3	N	PCB	PCB-1262	0.0801	U	MG/KG	No	0.0801	0.0801
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-2/3	8/13/2015	2	3	N	PCB	PCB-1242	0.0801	U	MG/KG	No	0.0801	0.0801

TABLE 6
Analytical Data Used in the HHRA - Martin Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

AOC_ID	Station ID	Sample ID	Collection Date	Upper Depth	Lower Depth	Sample Type	Chem Group	Param Name	Result	ProjQual	Units	Detect	Detect Limit	Reporting Limit
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-2/3	8/13/2015	2	3	N	PCB	PCB-1232	0.0801	U	MG/KG	No	0.0801	0.0801
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-2/3	8/13/2015	2	3	N	PCB	PCB-1268	0.0801	U	MG/KG	No	0.0801	0.0801
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-9/10	8/13/2015	9	10	N	PCB	PCB-1232	0.093	U	MG/KG	No	0.093	0.093
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-9/10	8/13/2015	9	10	N	PCB	PCB-1254	0.093	U	MG/KG	No	0.093	0.093
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-9/10	8/13/2015	9	10	N	PCB	PCB-1221	0.093	U	MG/KG	No	0.093	0.093
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-9/10	8/13/2015	9	10	N	PCB	PCB-1248	0.093	U	MG/KG	No	0.093	0.093
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-9/10	8/13/2015	9	10	N	PCB	PCB-1268	0.093	U	MG/KG	No	0.093	0.093
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-9/10	8/13/2015	9	10	N	PCB	PCB-1262	0.093	U	MG/KG	No	0.093	0.093
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-9/10	8/13/2015	9	10	N	PCB	PCB-1242	0.093	U	MG/KG	No	0.093	0.093
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-9/10	8/13/2015	9	10	N	PCB	PCB-1260	0.093	U	MG/KG	No	0.093	0.093
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-9/10	8/13/2015	9	10	N	PCB	PCB-1016	0.093	U	MG/KG	No	0.093	0.093
MD_Utility_TS_B Street	TMD-SO-93	TMD-SO-093-9/10	8/13/2015	9	10	N	PCB	Total PCBs	0.0465	U	MG/KG	No		
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-2/3	8/13/2015	2	3	N	PCB	PCB-1232	0.0775	U	MG/KG	No	0.0775	0.0775
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-2/3	8/13/2015	2	3	N	PCB	Total PCBs	0.0985	=	MG/KG	Yes		
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-2/3	8/13/2015	2	3	N	PCB	PCB-1221	0.0775	U	MG/KG	No	0.0775	0.0775
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-2/3	8/13/2015	2	3	N	PCB	PCB-1268	0.0775	U	MG/KG	No	0.0775	0.0775
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-2/3	8/13/2015	2	3	N	PCB	PCB-1254	0.0775	U	MG/KG	No	0.0775	0.0775
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-2/3	8/13/2015	2	3	N	PCB	PCB-1260	0.0775	U	MG/KG	No	0.0775	0.0775
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-2/3	8/13/2015	2	3	N	PCB	PCB-1016	0.0775	U	MG/KG	No	0.0775	0.0775
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-2/3	8/13/2015	2	3	N	PCB	PCB-1248	0.0985	=	MG/KG	Yes	0.0775	0.0775
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-2/3	8/13/2015	2	3	N	PCB	PCB-1242	0.0775	U	MG/KG	No	0.0775	0.0775
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-2/3	8/13/2015	2	3	N	PCB	PCB-1262	0.0775	U	MG/KG	No	0.0775	0.0775
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-3.5/4.2	8/13/2015	3.5	4.2	N	PCB	PCB-1268	0.0947	U	MG/KG	No	0.0947	0.0947
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-3.5/4.2	8/13/2015	3.5	4.2	N	PCB	PCB-1260	0.0947	U	MG/KG	No	0.0947	0.0947
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-3.5/4.2	8/13/2015	3.5	4.2	N	PCB	PCB-1254	0.0947	U	MG/KG	No	0.0947	0.0947
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-3.5/4.2	8/13/2015	3.5	4.2	N	PCB	Total PCBs	0.472	=	MG/KG	Yes		
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-3.5/4.2	8/13/2015	3.5	4.2	N	PCB	PCB-1221	0.0947	U	MG/KG	No	0.0947	0.0947
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-3.5/4.2	8/13/2015	3.5	4.2	N	PCB	PCB-1232	0.0947	U	MG/KG	No	0.0947	0.0947
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-3.5/4.2	8/13/2015	3.5	4.2	N	PCB	PCB-1016	0.0947	U	MG/KG	No	0.0947	0.0947
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-3.5/4.2	8/13/2015	3.5	4.2	N	PCB	PCB-1262	0.0947	U	MG/KG	No	0.0947	0.0947
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-3.5/4.2	8/13/2015	3.5	4.2	N	PCB	PCB-1242	0.0947	U	MG/KG	No	0.0947	0.0947
MD_Utility_TS_B Street	TMD-SO-94	TMD-SO-094-3.5/4.2	8/13/2015	3.5	4.2	N	PCB	PCB-1248	0.472	=	MG/KG	Yes	0.0947	0.0947
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/13/2015	4.4	4.8	N	PCB	PCB-1268	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/13/2015	4.4	4.8	N	PCB	PCB-1232	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/13/2015	4.4	4.8	N	PCB	PCB-1254	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/13/2015	4.4	4.8	N	PCB	PCB-1260	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/13/2015	4.4	4.8	N	PCB	PCB-1221	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/13/2015	4.4	4.8	N	PCB	PCB-1016	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/13/2015	4.4	4.8	N	PCB	PCB-1248	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/13/2015	4.4	4.8	N	PCB	Total PCBs	0.053	U	MG/KG	No		
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/13/2015	4.4	4.8	N	PCB	PCB-1262	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/13/2015	4.4	4.8	N	PCB	PCB-1242	0.106	U	MG/KG	No	0.106	0.106
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/14/2015	4.4	4.8	N	PCB	PCB-1254	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/14/2015	4.4	4.8	N	PCB	PCB-1221	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/14/2015	4.4	4.8	N	PCB	PCB-1232	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/14/2015	4.4	4.8	N	PCB	PCB-1248	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/14/2015	4.4	4.8	N	PCB	PCB-1268	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/14/2015	4.4	4.8	N	PCB	Total PCBs	0.0505	U	MG/KG	No		

TABLE 6

Analytical Data Used in the HHRA - Martin Drain

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

AOC_ID	Station ID	Sample ID	Collection Date	Upper Depth	Lower Depth	Sample Type	Chem Group	Param Name	Result	ProjQual	Units	Detect	Detect Limit	Reporting Limit
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/14/2015	4.4	4.8	N	PCB	PCB-1242	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/14/2015	4.4	4.8	N	PCB	PCB-1260	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/14/2015	4.4	4.8	N	PCB	PCB-1262	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-4.4/4.8	8/14/2015	4.4	4.8	N	PCB	PCB-1016	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-6.2/6.8	8/13/2015	6.2	6.8	N	PCB	PCB-1260	0.111	U	MG/KG	No	0.111	0.111
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-6.2/6.8	8/13/2015	6.2	6.8	N	PCB	PCB-1232	0.111	U	MG/KG	No	0.111	0.111
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-6.2/6.8	8/13/2015	6.2	6.8	N	PCB	PCB-1242	0.111	U	MG/KG	No	0.111	0.111
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-6.2/6.8	8/13/2015	6.2	6.8	N	PCB	PCB-1248	0.111	U	MG/KG	No	0.111	0.111
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-6.2/6.8	8/13/2015	6.2	6.8	N	PCB	PCB-1268	0.111	U	MG/KG	No	0.111	0.111
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-6.2/6.8	8/13/2015	6.2	6.8	N	PCB	PCB-1221	0.111	U	MG/KG	No	0.111	0.111
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-6.2/6.8	8/13/2015	6.2	6.8	N	PCB	PCB-1254	0.111	U	MG/KG	No	0.111	0.111
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-6.2/6.8	8/13/2015	6.2	6.8	N	PCB	PCB-1016	0.111	U	MG/KG	No	0.111	0.111
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-6.2/6.8	8/13/2015	6.2	6.8	N	PCB	Total PCBs	0.0555	U	MG/KG	No		
MD_Utility_TS_B Street	TMD-SO-95	TMD-SO-095-6.2/6.8	8/13/2015	6.2	6.8	N	PCB	PCB-1262	0.111	U	MG/KG	No	0.111	0.111
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-2.8/3.8	8/13/2015	2.8	3.8	N	PCB	PCB-1016	0.0794	U	MG/KG	No	0.0794	0.0794
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-2.8/3.8	8/13/2015	2.8	3.8	N	PCB	PCB-1242	0.0794	U	MG/KG	No	0.0794	0.0794
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-2.8/3.8	8/13/2015	2.8	3.8	N	PCB	PCB-1260	0.0794	U	MG/KG	No	0.0794	0.0794
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-2.8/3.8	8/13/2015	2.8	3.8	N	PCB	PCB-1254	0.0794	U	MG/KG	No	0.0794	0.0794
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-2.8/3.8	8/13/2015	2.8	3.8	N	PCB	PCB-1268	0.0794	U	MG/KG	No	0.0794	0.0794
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-2.8/3.8	8/13/2015	2.8	3.8	N	PCB	PCB-1232	0.0794	U	MG/KG	No	0.0794	0.0794
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-2.8/3.8	8/13/2015	2.8	3.8	N	PCB	PCB-1248	0.225	=	MG/KG	Yes	0.0794	0.0794
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-2.8/3.8	8/13/2015	2.8	3.8	N	PCB	PCB-1262	0.0794	U	MG/KG	No	0.0794	0.0794
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-2.8/3.8	8/13/2015	2.8	3.8	N	PCB	Total PCBs	0.225	=	MG/KG	Yes		
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-2.8/3.8	8/13/2015	2.8	3.8	N	PCB	PCB-1221	0.0794	U	MG/KG	No	0.0794	0.0794
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-6.3/7.3	8/13/2015	6.3	7.3	N	PCB	PCB-1242	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-6.3/7.3	8/13/2015	6.3	7.3	N	PCB	PCB-1254	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-6.3/7.3	8/13/2015	6.3	7.3	N	PCB	PCB-1260	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-6.3/7.3	8/13/2015	6.3	7.3	N	PCB	PCB-1268	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-6.3/7.3	8/13/2015	6.3	7.3	N	PCB	PCB-1221	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-6.3/7.3	8/13/2015	6.3	7.3	N	PCB	PCB-1232	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-6.3/7.3	8/13/2015	6.3	7.3	N	PCB	PCB-1248	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-6.3/7.3	8/13/2015	6.3	7.3	N	PCB	PCB-1016	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-6.3/7.3	8/13/2015	6.3	7.3	N	PCB	Total PCBs	0.0525	U	MG/KG	No		
MD_Utility_TS_B Street	TMD-SO-96	TMD-SO-096-6.3/7.3	8/13/2015	6.3	7.3	N	PCB	PCB-1262	0.105	U	MG/KG	No	0.105	0.105
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-1.5/2.5	8/13/2015	1.5	2.5	N	PCB	PCB-1248	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-1.5/2.5	8/13/2015	1.5	2.5	N	PCB	PCB-1260	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-1.5/2.5	8/13/2015	1.5	2.5	N	PCB	PCB-1016	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-1.5/2.5	8/13/2015	1.5	2.5	N	PCB	PCB-1268	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-1.5/2.5	8/13/2015	1.5	2.5	N	PCB	PCB-1262	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-1.5/2.5	8/13/2015	1.5	2.5	N	PCB	PCB-1221	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-1.5/2.5	8/13/2015	1.5	2.5	N	PCB	PCB-1254	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-1.5/2.5	8/13/2015	1.5	2.5	N	PCB	Total PCBs	0.0505	U	MG/KG	No		
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-1.5/2.5	8/13/2015	1.5	2.5	N	PCB	PCB-1242	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-1.5/2.5	8/13/2015	1.5	2.5	N	PCB	PCB-1232	0.101	U	MG/KG	No	0.101	0.101
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-5/5.7	8/13/2015	5	5.7	N	PCB	PCB-1242	0.125	U	MG/KG	No	0.125	0.125
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-5/5.7	8/13/2015	5	5.7	N	PCB	PCB-1254	0.355	=	MG/KG	Yes	0.125	0.125
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-5/5.7	8/13/2015	5	5.7	N	PCB	PCB-1221	0.125	U	MG/KG	No	0.125	0.125
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-5/5.7	8/13/2015	5	5.7	N	PCB	PCB-1268	0.125	U	MG/KG	No	0.125	0.125

TABLE 6
Analytical Data Used in the HHRA - Martin Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

AOC_ID	Station ID	Sample ID	Collection Date	Upper Depth	Lower Depth	Sample Type	Chem Group	Param Name	Result	ProjQual	Units	Detect	Detect Limit	Reporting Limit
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-5/5.7	8/13/2015	5	5.7	N	PCB	PCB-1232	0.125	U	MG/KG	No	0.125	0.125
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-5/5.7	8/13/2015	5	5.7	N	PCB	PCB-1260	0.125	U	MG/KG	No	0.125	0.125
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-5/5.7	8/13/2015	5	5.7	N	PCB	PCB-1248	0.125	U	MG/KG	No	0.125	0.125
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-5/5.7	8/13/2015	5	5.7	N	PCB	PCB-1016	0.125	U	MG/KG	No	0.125	0.125
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-5/5.7	8/13/2015	5	5.7	N	PCB	PCB-1262	0.125	U	MG/KG	No	0.125	0.125
MD_Utility_TS_B Street	TMD-SO-97	TMD-SO-097-5/5.7	8/13/2015	5	5.7	N	PCB	Total PCBs	0.4175	=	MG/KG	Yes		
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-6/6.7	8/13/2015	6	6.7	N	PCB	PCB-1221	0.111	U	MG/KG	No	0.111	0.111
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-6/6.7	8/13/2015	6	6.7	N	PCB	PCB-1242	0.111	U	MG/KG	No	0.111	0.111
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-6/6.7	8/13/2015	6	6.7	N	PCB	PCB-1262	0.111	U	MG/KG	No	0.111	0.111
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-6/6.7	8/13/2015	6	6.7	N	PCB	PCB-1016	0.111	U	MG/KG	No	0.111	0.111
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-6/6.7	8/13/2015	6	6.7	N	PCB	PCB-1248	0.111	U	MG/KG	No	0.111	0.111
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-6/6.7	8/13/2015	6	6.7	N	PCB	PCB-1232	0.111	U	MG/KG	No	0.111	0.111
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-6/6.7	8/13/2015	6	6.7	N	PCB	PCB-1268	0.111	U	MG/KG	No	0.111	0.111
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-6/6.7	8/13/2015	6	6.7	N	PCB	PCB-1260	0.111	U	MG/KG	No	0.111	0.111
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-6/6.7	8/13/2015	6	6.7	N	PCB	PCB-1254	0.111	U	MG/KG	No	0.111	0.111
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-6/6.7	8/13/2015	6	6.7	N	PCB	Total PCBs	0.0555	U	MG/KG	No		
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-1.8/2.8	8/13/2015	1.8	2.8	N	PCB	PCB-1262	0.0888	U	MG/KG	No	0.0888	0.0888
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-1.8/2.8	8/13/2015	1.8	2.8	N	PCB	PCB-1232	0.0888	U	MG/KG	No	0.0888	0.0888
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-1.8/2.8	8/13/2015	1.8	2.8	N	PCB	Total PCBs	0.952	=	MG/KG	Yes		
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-1.8/2.8	8/13/2015	1.8	2.8	N	PCB	PCB-1260	0.0888	U	MG/KG	No	0.0888	0.0888
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-1.8/2.8	8/13/2015	1.8	2.8	N	PCB	PCB-1248	0.952	=	MG/KG	Yes	0.0888	0.0888
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-1.8/2.8	8/13/2015	1.8	2.8	N	PCB	PCB-1221	0.0888	U	MG/KG	No	0.0888	0.0888
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-1.8/2.8	8/13/2015	1.8	2.8	N	PCB	PCB-1242	0.0888	U	MG/KG	No	0.0888	0.0888
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-1.8/2.8	8/13/2015	1.8	2.8	N	PCB	PCB-1268	0.0888	U	MG/KG	No	0.0888	0.0888
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-1.8/2.8	8/13/2015	1.8	2.8	N	PCB	PCB-1254	0.0888	U	MG/KG	No	0.0888	0.0888
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-1.8/2.8	8/13/2015	1.8	2.8	N	PCB	PCB-1016	0.0888	U	MG/KG	No	0.0888	0.0888
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/13/2015	6.4	6.9	N	PCB	PCB-1268	0.121	U	MG/KG	No	0.121	0.121
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/13/2015	6.4	6.9	N	PCB	PCB-1260	0.121	U	MG/KG	No	0.121	0.121
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/13/2015	6.4	6.9	N	PCB	PCB-1242	0.121	U	MG/KG	No	0.121	0.121
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/13/2015	6.4	6.9	N	PCB	PCB-1254	0.121	U	MG/KG	No	0.121	0.121
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/13/2015	6.4	6.9	N	PCB	PCB-1221	0.121	U	MG/KG	No	0.121	0.121
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/13/2015	6.4	6.9	N	PCB	PCB-1232	0.121	U	MG/KG	No	0.121	0.121
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/13/2015	6.4	6.9	N	PCB	PCB-1248	0.121	U	MG/KG	No	0.121	0.121
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/13/2015	6.4	6.9	N	PCB	PCB-1016	0.121	U	MG/KG	No	0.121	0.121
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/13/2015	6.4	6.9	N	PCB	PCB-1262	0.121	U	MG/KG	No	0.121	0.121
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/13/2015	6.4	6.9	N	PCB	Total PCBs	0.0605	U	MG/KG	No		
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/14/2015	6.4	6.9	N	PCB	PCB-1232	0.116	U	MG/KG	No	0.116	0.116
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/14/2015	6.4	6.9	N	PCB	PCB-1016	0.116	U	MG/KG	No	0.116	0.116
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/14/2015	6.4	6.9	N	PCB	PCB-1221	0.116	U	MG/KG	No	0.116	0.116
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/14/2015	6.4	6.9	N	PCB	PCB-1268	0.116	U	MG/KG	No	0.116	0.116
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/14/2015	6.4	6.9	N	PCB	PCB-1254	0.116	U	MG/KG	No	0.116	0.116
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/14/2015	6.4	6.9	N	PCB	PCB-1262	0.116	U	MG/KG	No	0.116	0.116
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/14/2015	6.4	6.9	N	PCB	PCB-1248	0.116	U	MG/KG	No	0.116	0.116
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/14/2015	6.4	6.9	N	PCB	Total PCBs	0.058	U	MG/KG	No		
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/14/2015	6.4	6.9	N	PCB	PCB-1242	0.116	U	MG/KG	No	0.116	0.116
MD_RES_TS_Yard	TMD-SO-99	TMD-SO-099-6.4/6.9	8/14/2015	6.4	6.9	N	PCB	PCB-1260	0.116	U	MG/KG	No	0.116	0.116
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1268	0.0919	U	MG/KG	No	0.0919	0.0919
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1232	0.0919	U	MG/KG	No	0.0919	0.0919

TABLE 6
Analytical Data Used in the HHRA - Martin Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

AOC_ID	Station ID	Sample ID	Collection Date	Upper Depth	Lower Depth	Sample Type	Chem Group	Param Name	Result	ProjQual	Units	Detect	Detect Limit	Reporting Limit
MD_RES_SS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1221	0.0919	U	MG/KG	No	0.0919	0.0919
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1016	0.0919	U	MG/KG	No	0.0919	0.0919
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1254	0.0919	U	MG/KG	No	0.0919	0.0919
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1262	0.0919	U	MG/KG	No	0.0919	0.0919
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1242	0.0919	U	MG/KG	No	0.0919	0.0919
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1221	0.0919	U	MG/KG	No	0.0919	0.0919
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	Total PCBs	0.04595	U	MG/KG	No		
MD_RES_SS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	Total PCBs	0.04595	U	MG/KG	No		
MD_RES_SS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1248	0.0919	U	MG/KG	No	0.0919	0.0919
MD_RES_SS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1254	0.0919	U	MG/KG	No	0.0919	0.0919
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1260	0.0919	U	MG/KG	No	0.0919	0.0919
MD_RES_TS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1248	0.0919	U	MG/KG	No	0.0919	0.0919
MD_RES_SS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1232	0.0919	U	MG/KG	No	0.0919	0.0919
MD_RES_SS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1260	0.0919	U	MG/KG	No	0.0919	0.0919
MD_RES_SS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1016	0.0919	U	MG/KG	No	0.0919	0.0919
MD_RES_SS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1262	0.0919	U	MG/KG	No	0.0919	0.0919
MD_RES_SS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1242	0.0919	U	MG/KG	No	0.0919	0.0919
MD_RES_SS_Yard	TMD-SO-101	TMD-SO-101-1/2	8/13/2015	1	2	N	PCB	PCB-1268	0.0919	U	MG/KG	No	0.0919	0.0919
MD_RES_SS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1248	0.103	U	MG/KG	No	0.103	0.103
MD_RES_SS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1016	0.103	U	MG/KG	No	0.103	0.103
MD_RES_SS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1262	0.103	U	MG/KG	No	0.103	0.103
MD_RES_SS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1221	0.103	U	MG/KG	No	0.103	0.103
MD_RES_SS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1254	0.103	U	MG/KG	No	0.103	0.103
MD_RES_SS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1260	0.103	U	MG/KG	No	0.103	0.103
MD_RES_SS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1232	0.103	U	MG/KG	No	0.103	0.103
MD_RES_SS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1268	0.103	U	MG/KG	No	0.103	0.103
MD_RES_SS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1242	0.103	U	MG/KG	No	0.103	0.103
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1242	0.103	U	MG/KG	No	0.103	0.103
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	Total PCBs	0.0515	U	MG/KG	No		
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1268	0.103	U	MG/KG	No	0.103	0.103
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1262	0.103	U	MG/KG	No	0.103	0.103
MD_RES_SS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	Total PCBs	0.0515	U	MG/KG	No		
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1016	0.103	U	MG/KG	No	0.103	0.103
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1248	0.103	U	MG/KG	No	0.103	0.103
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1221	0.103	U	MG/KG	No	0.103	0.103
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1254	0.103	U	MG/KG	No	0.103	0.103
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1260	0.103	U	MG/KG	No	0.103	0.103
MD_RES_TS_Yard	TMD-SO-122	TMD-SO-122-1.6/2	8/14/2015	1.6	2	N	PCB	PCB-1232	0.103	U	MG/KG	No	0.103	0.103
MD_RES_SS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1254	0.107	U	MG/KG	No	0.107	0.107
MD_RES_SS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1262	0.107	U	MG/KG	No	0.107	0.107
MD_RES_SS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1016	0.107	U	MG/KG	No	0.107	0.107
MD_RES_SS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1248	0.107	U	MG/KG	No	0.107	0.107
MD_RES_SS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1232	0.107	U	MG/KG	No	0.107	0.107
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1254	0.107	U	MG/KG	No	0.107	0.107
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1016	0.107	U	MG/KG	No	0.107	0.107
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1248	0.107	U	MG/KG	No	0.107	0.107
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1232	0.107	U	MG/KG	No	0.107	0.107
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1242	0.107	U	MG/KG	No	0.107	0.107

TABLE 6
Analytical Data Used in the HHRA - Martin Drain
Remedial Investigation/Feasibility Study
Ten Mile Drain, St. Clair Shores, Michigan

AOC_ID	Station ID	Sample ID	Collection Date	Upper Depth	Lower Depth	Sample Type	Chem Group	Param Name	Result	ProjQual	Units	Detect	Detect Limit	Reporting Limit
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	Total PCBs	0.0535	U	MG/KG	No		
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1260	0.107	U	MG/KG	No	0.107	0.107
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1268	0.107	U	MG/KG	No	0.107	0.107
MD_RES_SS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1242	0.107	U	MG/KG	No	0.107	0.107
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1262	0.107	U	MG/KG	No	0.107	0.107
MD_RES_TS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1221	0.107	U	MG/KG	No	0.107	0.107
MD_RES_SS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1268	0.107	U	MG/KG	No	0.107	0.107
MD_RES_SS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1260	0.107	U	MG/KG	No	0.107	0.107
MD_RES_SS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	PCB-1221	0.107	U	MG/KG	No	0.107	0.107
MD_RES_SS_Yard	TMD-SO-123	TMD-SO-123-1.1/2.1	8/14/2015	1.1	2.1	N	PCB	Total PCBs	0.0535	U	MG/KG	No		
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1260	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_SS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	Total PCBs	0.04165	U	MG/KG	No		
MD_RES_SS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1254	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_SS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1268	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_SS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1221	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_SS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1232	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_SS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1248	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_SS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1260	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_SS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1262	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_SS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1242	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1232	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_SS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1242	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1248	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1262	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1242	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	Total PCBs	0.04165	U	MG/KG	No		
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1016	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1254	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1268	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_TS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1221	0.0833	U	MG/KG	No	0.0833	0.0833
MD_RES_SS_Yard	TMD-SO-98	TMD-SO-098-0.3/1.3	8/13/2015	0.3	1.3	N	PCB	PCB-1016	0.0833	U	MG/KG	No	0.0833	0.0833

TABLE 7

Calculation of Polychlorinated Biphenyl Toxic Equivalents (PCB TEQs) for Fish Tissue

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

StationID	Date Collected	Sample ID	Units	Cong105a	Cong114	Cong118a	Cong123	Cong126	Cong156	Cong157	Cong167	Cong169a	Cong170	Cong180	Cong189	Cong77	Cong81	PCB TEQ
10 Mile Canal	4/28/2010	2010303-S01	ug/Kg	11.7	1.3	19.3	0	0	0.4	0	0	0	1.2	0.8	0	0	0	34.7
10 Mile Canal	4/28/2010	2010303-S02	ug/Kg	27.2	2.8	44.3	0	0	1.3	0	0.6	0	3.2	2.5	0	0	0	81.9
10 Mile Canal	4/28/2010	2010303-S03	ug/Kg	14	1.6	21	0	0	0.8	0	0.3	0	1.9	1.4	0	0	0	41
10 Mile Canal	4/28/2010	2010303-S04	ug/Kg	7.9	1	21.1	0	0	0.5	0	0.3	0	1.7	1.6	0	0	0	34.1
10 Mile Canal	4/28/2010	2010303-S05	ug/Kg	2.1	0.4	4.3	0	0	0.2	0	0	0	0.4	0.3	0	0	0	7.7
10 Mile Canal	4/28/2010	2010303-S06	ug/Kg	28.4	2.9	82	0	0	1.1	0	0.5	0	2.3	1.9	0	0	0	119.1
10 Mile Canal	4/28/2010	2010303-S07	ug/Kg	28.5	4.6	132.4	0	0	2.5	0	1.2	0	7.2	9.9	0	0	0	186.3
10 Mile Canal	4/28/2010	2010303-S08	ug/Kg	23.6	2.7	47.7	0	0	1	0	0.4	0	2.3	2.3	0	0	0	80
10 Mile Canal	4/28/2010	2010303-S09	ug/Kg	21.6	2.3	43.9	0	0	1	0	0.4	0	2.3	1.8	0	0	0	73.3
10 Mile Canal	4/28/2010	2010303-S10	ug/Kg	6.3	2	10.9	0	0	0.8	0	0.4	0	1.5	2.8	0	0	0	24.7
10 Mile Canal	4/28/2010	2010303-S11	ug/Kg	11.4	1.5	19.9	0	0	0.7	0	0.3	0	1.6	2.6	0	0	0	38
10 Mile Canal	4/28/2010	2010303-S12	ug/Kg	0.5	0	0.9	0	0	0	0	0	0	0.2	0.4	0	0	0	2
10 Mile Canal	4/28/2010	2010303-S13	ug/Kg	24.9	5	42.4	0	0	2.8	0	1.2	0	5.2	8.3	0	0	0	89.8
10 Mile Canal	4/28/2010	2010303-S14	ug/Kg	1.7	0.3	4.5	0	0	0.4	0	0.3	0	1.5	2.8	0	0	0	11.5
10 Mile Canal	4/28/2010	2010303-S15	ug/Kg	3.8	0.5	8.1	0	0	0.2	0	0	0	0.6	1.1	0	0	0	14.3
10 Mile Canal	4/28/2010	2010303-S16	ug/Kg	1.5	0.3	3.6	0	0	0	0	0.3	0	1.9	3.4	0	0	0	11
10 Mile Canal	4/28/2010	2010303-S17	ug/Kg	8.6	1.2	16.8	0	0	0.7	0	0.4	0	2	3.8	0	0	0	33.5
10 Mile Canal	4/28/2010	2010303-S18	ug/Kg	2.9	0.4	5.6	0	0	0.2	0	0	0	0.6	1.1	0	0	0	10.8
10 Mile Canal	4/28/2010	2010303-S19	ug/Kg	2.3	0.3	44.6	0	0	0	0	0	0	0.6	1	0	0	0	48.8
10 Mile Canal	4/28/2010	2010303-S20	ug/Kg	13.9	3.7	43.7	0	0	3.4	0	1.2	0	6.9	13.3	0	0	0	86.1
10 Mile Canal	4/28/2010	2010303-S21	ug/Kg	16.1	4.4	34.2	0	0	3.9	0	1.5	0	10	17.6	0	0	0	87.7
10 Mile Canal	4/28/2010	2010303-S22	ug/Kg	0	0	4.2	0	0	0	0	0	0	0	1.3	0	0	0	5.5
10 Mile Canal	4/28/2010	2010303-S23	ug/Kg	4.4	0.7	8.6	0	0	0.3	0	0	0	1	1.6	0	0	0	16.6
10 Mile Canal	4/28/2010	2010303-S24	ug/Kg	3.1	0	4.7	0	0	0.2	0	0	0	0.3	0.4	0	0	0	8.7
10 Mile Canal	4/28/2010	2010303-S25	ug/Kg	2.1	0	4.4	0	0	0.2	0	0	0	0.2	0.5	0	0	0	7.4
10 Mile Canal	4/28/2010	2010303-S26	ug/Kg	7.2	0	15.5	0	0	0	0	0	0	1.1	2.7	0	0	0	26.5
10 Mile Canal	4/28/2010	2010303-S27	ug/Kg	96.7	14.8	278	0	0	10.3	0	3.5	0	32.5	59.2	0	0	0	495
10 Mile Canal	4/28/2010	2010303-S28	ug/Kg	89.3	13.8	240.6	0	0	12.4	0	4.5	0	33.1	60.9	0	0	0	454.6
10 Mile Canal	4/28/2010	2010303-S29	ug/Kg	356	63.5	996.7	0	0	49.2	0	21.6	0	132.2	203	0	0	0	1822.2
10 Mile Canal	4/28/2010	2010303-S30	ug/Kg	36.9	6.8	98.5	0	0	4.7	0	1.9	0	15.5	29.3	0	0	0	193.6
10 Mile Canal	4/28/2010	2010303-S31	ug/Kg	39.7	5.4	97.5	0	0	3.7	0	0	0	11.5	20.8	0	0	0	178.6
10 Mile Canal	4/28/2010	2010303-S32	ug/Kg	305.7	54.2	997	0	0	40.7	0	19.5	0	172.1	308	0	0	0	1897.2
10 Mile Canal	4/28/2010	2010303-S33	ug/Kg	278.6	46.2	794.6	0	0	34.6	0	16.6	0	100.4	192.9	0	0	0	1463.9
10 Mile Canal	4/28/2010	2010303-S34	ug/Kg	342.4	54.7	1077	0	0	41.8	0	21	0	134.6	275	0	0	0	1946.5
10 Mile Canal	4/28/2010	2010303-S35	ug/Kg	170.2	32.4	406.8	0	0	23.9	0	15	0	80.3	168.2	0	0	0	896.8
10 Mile Canal	4/28/2010	2010303-S36	ug/Kg	644	76.2	1908	0	0	112	0	28.2	0	322.3	567.4	0	0	0	3658.1
10 Mile Canal	4/28/2010	2010303-S37	ug/Kg	223.2	26.7	270.7	0	0	26.2	0	12.1	0	75.9	153	0	0	0	787.8
10 Mile Canal	4/28/2010	2010303-S38	ug/Kg	103.9	44.3	359	0	0	16.8	0	17.1	0	52.1	179	0	0	0	772.2

Notes:

(1) The concentrations for each PCB congener were multiplied by their respective TEFs and were then summed on a sample-specific basis. Concentrations that were not detected were included in the TEQ calculations as zero.

(2) TEFs were obtained from USEPA's User's Guide for the Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites (November 2013).

TABLE 8

Calculation of Total Polychlorinated Biphenyls (PCBs) [(1)] for Fish Tissue

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

StationID	Date Collected	Sample ID	Units	Cong01	Cong03	Cong08	Cong100	Cong11	Cong11-27	Cong123a149	Cong126-178	Cong128	Cong130	Cong132	Cong134	Cong135-144	Cong136
10 Mile Canal	4/28/2010	2010303-S01	ug/Kg	0	1114.9	1.7	1.8	0	1347	4.1	1.2	1.2	0.4	2.3	0.6	1.7	1.6
10 Mile Canal	4/28/2010	2010303-S02	ug/Kg	0	983.8	5.7	2.5	0	1233.6	10.3	1.8	3.3	1.4	5.4	1.5	4.7	3.8
10 Mile Canal	4/28/2010	2010303-S03	ug/Kg	0	1073.5	12.5	1.9	0	1377.1	5.2	1.2	1.8	0.7	3	0.8	2.4	1.9
10 Mile Canal	4/28/2010	2010303-S04	ug/Kg	0	118	0	0	0	229.7	3.9	1.1	1.4	0.5	2	0.4	1.3	0
10 Mile Canal	4/28/2010	2010303-S05	ug/Kg	0	43.7	1.6	1.1	0	58	1.1	0	0.4	0	0.5	0	0	0
10 Mile Canal	4/28/2010	2010303-S06	ug/Kg	0	759.2	39.5	6.2	0	5705.3	11	0	2.8	1.3	5.8	1.8	5.5	4.1
10 Mile Canal	4/28/2010	2010303-S07	ug/Kg	0	0	23.7	6.1	0	4657.7	18.8	3.5	4.7	2.8	8.1	2.9	7.7	5.3
10 Mile Canal	4/28/2010	2010303-S08	ug/Kg	0	530.2	26	4.9	0	981.4	9.8	1.6	2.4	1.1	5.2	1.6	4.8	3.8
10 Mile Canal	4/28/2010	2010303-S09	ug/Kg	0	0	22.8	4.2	0	3981	8.7	1.5	2.3	1.2	4.8	1.4	4.2	3.2
10 Mile Canal	4/28/2010	2010303-S10	ug/Kg	175	2961.2	23.5	7	0	1892	7.4	0	1.8	1	0	1	3.6	2.4
10 Mile Canal	4/28/2010	2010303-S11	ug/Kg	182	1625.4	19.7	13.4	0	1239	5.8	0	1.6	0.9	0	3.9	2.7	1.8
10 Mile Canal	4/28/2010	2010303-S12	ug/Kg	0	57.9	0	0	0	26.4	0	0	0.2	0	0	0	0	0
10 Mile Canal	4/28/2010	2010303-S13	ug/Kg	656	1960	48.7	29.2	0	1659	16.3	3.4	3.9	3.5	0	8.3	8.7	5.8
10 Mile Canal	4/28/2010	2010303-S14	ug/Kg	0	70.2	3.3	0.6	0	53.4	2.3	0.8	0.9	0.4	0.6	0	0.5	0
10 Mile Canal	4/28/2010	2010303-S15	ug/Kg	68.4	664.6	3.3	3.2	0	456	1.8	0	0.5	0.3	0.7	1.2	0.6	0
10 Mile Canal	4/28/2010	2010303-S16	ug/Kg	0	80.8	0	0.5	0	41.3	2.6	0.9	1	0.5	1	0	0.6	0
10 Mile Canal	4/28/2010	2010303-S17	ug/Kg	84.7	979.1	4.3	6.5	0	507	4.6	0.8	1.5	0.8	1.7	4.1	1.8	1.2
10 Mile Canal	4/28/2010	2010303-S18	ug/Kg	73.6	375.7	4	1.8	0	309	1.4	0	0.5	0	0.6	0	0	0
10 Mile Canal	4/28/2010	2010303-S19	ug/Kg	39.6	292.4	285	1.5	0	275.9	1.3	0	0.4	0	0.5	0	0	0
10 Mile Canal	4/28/2010	2010303-S20	ug/Kg	27.1	364.1	3.3	19	0	429	14.7	3.1	3.9	3.5	5.3	2.5	6.3	3.4
10 Mile Canal	4/28/2010	2010303-S21	ug/Kg	23.9	367.1	2.3	20.1	0	455	19.7	2.6	4.9	4.5	9	3.1	8.2	5.1
10 Mile Canal	4/28/2010	2010303-S22	ug/Kg	0	166.4	0	0	0	120.2	0	0	0	0	0	0	0	0
10 Mile Canal	4/28/2010	2010303-S23	ug/Kg	31.6	430.8	4.3	3.6	0	315	2.3	0.8	0.7	0.4	0.8	0.3	0.8	0.6
10 Mile Canal	4/28/2010	2010303-S24	ug/Kg	12.7	219.2	2.4	1.8	0	255.2	1.1	0	0.4	0	0.8	0	0	0
10 Mile Canal	4/28/2010	2010303-S25	ug/Kg	125	1218.2	2.1	2.1	0	920	0.9	0	0.2	0	0.7	0	0	0.6
10 Mile Canal	4/28/2010	2010303-S26	ug/Kg	0	441.3	0	0	0	424	3.6	0	1.1	0	1.8	0	0	0
10 Mile Canal	4/28/2010	2010303-S27	ug/Kg	284	4983	26.9	76.9	0	7701	73.4	7.4	18.9	13.1	30.6	11	27.3	19.2
10 Mile Canal	4/28/2010	2010303-S28	ug/Kg	164	3889	16.6	71.3	0	4890	76	6.9	18.9	13.1	31.1	10.7	27.5	18.4
10 Mile Canal	4/28/2010	2010303-S29	ug/Kg	144	5405	12.9	159	0	9405	290.2	28.8	84	57.2	131.9	35.5	114.2	61.2
10 Mile Canal	4/28/2010	2010303-S30	ug/Kg	24.8	975	0	26.6	0	1472	38.1	5.5	8.9	0	15	4.3	13.4	9.5
10 Mile Canal	4/28/2010	2010303-S31	ug/Kg	121	3254	9	21.7	0	2307	27.7	3.8	6.6	0	10.3	3	9.1	6
10 Mile Canal	4/28/2010	2010303-S32	ug/Kg	623	10935	34.4	153	0	15521	349.7	28.7	85.7	49.2	99.1	38.8	90.3	59.8
10 Mile Canal	4/28/2010	2010303-S33	ug/Kg	0	11132	91.5	166.3	0	12717.3	245.4	37.5	62.3	43.9	103.4	38.1	95	68.6
10 Mile Canal	4/28/2010	2010303-S34	ug/Kg	654	8589	66.5	159	0	11741	281.4	44.9	77	49.9	94.1	33.8	95.4	57.9
10 Mile Canal	4/28/2010	2010303-S35	ug/Kg	700	7666	56.6	107	0	8526	130.9	27	39.8	31.1	49	21.9	52.6	35
10 Mile Canal	4/28/2010	2010303-S36	ug/Kg	254	8307	19.2	216	0	26997	739	60.4	181.8	58.1	277.3	48.3	115.9	80.2
10 Mile Canal	4/28/2010	2010303-S37	ug/Kg	0	2135	0	47	0	2762	145.1	81.1	47.8	27.7	60.4	14.5	46.9	28
10 Mile Canal	4/28/2010	2010303-S38	ug/Kg	992	4203	37.5	109	0	4715	120	32.6	30.9	32.8	49.8	25.3	62.5	43.6

Notes:

(1) Only non-dioxin-like PCBs are included on this table.

Concentrations that were not detected were included as zero.

TABLE 8

Calculation of Total Polychlorinated Biphenyls (PCBs) [(1)] for Fish

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

StationID	Date Collected	Sample ID	Units	Cong137	Cong138a-163	Cong141	Cong146	Cong151	Cong153	Cong157a_200	Cong158-160	Cong1632	Cong17	Cong171	Cong172	Cong174	Cong175
10 Mile Canal	4/28/2010	2010303-S01	ug/Kg	0.3	6.2	1.1	0.9	2.1	3.3	0	0.6	1156.6	954.5	0	0	0.9	0
10 Mile Canal	4/28/2010	2010303-S02	ug/Kg	0.7	16.9	2.8	3.2	5.1	11.3	0.3	1.6	1010.3	691	0.8	0.3	2.5	0
10 Mile Canal	4/28/2010	2010303-S03	ug/Kg	0.4	8.7	1.5	1.2	2.5	4.4	0	0.8	1177.8	408.1	0.4	0	1.3	0
10 Mile Canal	4/28/2010	2010303-S04	ug/Kg	0.3	7.4	1.2	1.4	1.9	5.1	0	0.7	184.5	165.5	0.4	0.2	1	0
10 Mile Canal	4/28/2010	2010303-S05	ug/Kg	0.2	2	0.5	0.3	0.4	1.4	0	0	38.4	35.5	0	0	0.4	0
10 Mile Canal	4/28/2010	2010303-S06	ug/Kg	0.6	15.4	2.7	2.7	5.6	8.4	0.3	1.2	1356.3	1065.2	0.5	0.3	1.9	0
10 Mile Canal	4/28/2010	2010303-S07	ug/Kg	1.5	34.5	4.4	11.4	12.8	30.5	0.6	2.6	472	362.9	1.8	1.2	4.5	0
10 Mile Canal	4/28/2010	2010303-S08	ug/Kg	0.6	14.1	2.4	3	5.3	9.3	0.2	1.1	791.9	637	0.5	0.3	1.8	0
10 Mile Canal	4/28/2010	2010303-S09	ug/Kg	0.5	12.8	2.3	2.4	4.6	7.2	0.2	1.3	1590	1275	0.5	0.2	1.9	0
10 Mile Canal	4/28/2010	2010303-S10	ug/Kg	0.4	10.6	1.8	2.7	4	9.1	0	0.9	1601	1680	0.4	0.3	1.9	0
10 Mile Canal	4/28/2010	2010303-S11	ug/Kg	0.4	9.4	1.6	2.2	3.1	7.8	0	0.8	1348	999	0.4	0.2	1.9	0
10 Mile Canal	4/28/2010	2010303-S12	ug/Kg	0	0.8	0	0	0	0.9	0	0	26.8	17.9	0	0	0.7	0
10 Mile Canal	4/28/2010	2010303-S13	ug/Kg	1.6	26.7	4.6	8.7	10	24.4	0.3	2.9	983	772	2.1	1.2	5.3	0.3
10 Mile Canal	4/28/2010	2010303-S14	ug/Kg	0.2	5.9	0.9	1.3	1	5.8	0	0.5	50.1	45.1	0.4	0.3	1.5	0
10 Mile Canal	4/28/2010	2010303-S15	ug/Kg	0	3.2	0.5	0.9	1	2.9	0	0	389	302.3	0	0	0.9	0
10 Mile Canal	4/28/2010	2010303-S16	ug/Kg	0.2	6.6	1.2	1.4	1.3	6.8	0	0.5	28	28.3	1	0.3	1.9	0
10 Mile Canal	4/28/2010	2010303-S17	ug/Kg	0.4	9.2	1.5	2.3	2.4	9	0	0.8	648	544	0.6	0.4	1.2	0
10 Mile Canal	4/28/2010	2010303-S18	ug/Kg	0	2.9	0.5	0.7	0.7	2.9	0	0	212	264	0	0	0.9	0
10 Mile Canal	4/28/2010	2010303-S19	ug/Kg	0	2.6	0.4	0.7	0.7	2.4	0	0	115	73.2	0	0	0.7	0
10 Mile Canal	4/28/2010	2010303-S20	ug/Kg	1.5	31	4.9	10.6	8.9	32.8	0.3	2.9	366	234	1.8	1.1	5.8	0.3
10 Mile Canal	4/28/2010	2010303-S21	ug/Kg	2.1	40.1	5.8	13.3	13.2	41.5	0.4	4.3	385	217.9	2.8	1.8	9.1	0.6
10 Mile Canal	4/28/2010	2010303-S22	ug/Kg	0	4.3	0	0	0	1.9	0	0	110.4	96.7	0	0	2.3	0
10 Mile Canal	4/28/2010	2010303-S23	ug/Kg	0.2	4.9	0.7	1.3	1.4	4	0	0	243	186	0	0.2	1.2	0
10 Mile Canal	4/28/2010	2010303-S24	ug/Kg	0	2.5	0.5	0.4	0.8	1.5	0	0	190.9	113.2	0	0	0.3	0
10 Mile Canal	4/28/2010	2010303-S25	ug/Kg	0	1.7	0	0.5	0.7	1.3	0	0	729	555	0	0	0	0
10 Mile Canal	4/28/2010	2010303-S26	ug/Kg	0	7.8	0	1.9	2.1	7.7	0	0	249	273	0	0	0	0
10 Mile Canal	4/28/2010	2010303-S27	ug/Kg	5.2	127.7	16.8	38.4	40.4	118	0.9	0	5460	3259	9.9	5.7	22.1	0
10 Mile Canal	4/28/2010	2010303-S28	ug/Kg	5.6	133.8	17.1	39.1	41.8	107	1	0	3564	2248	7.9	4.6	23.5	1.5
10 Mile Canal	4/28/2010	2010303-S29	ug/Kg	23.8	555	81.3	123.6	138.9	430	7.1	47.1	7164	4288	32.5	20.8	89	6.2
10 Mile Canal	4/28/2010	2010303-S30	ug/Kg	2.5	66.1	8.8	20.3	21.1	66.1	0	0	995	454	4.3	2.4	10.9	0.8
10 Mile Canal	4/28/2010	2010303-S31	ug/Kg	2	48.2	6.4	12.8	41	39.2	0	0	1690	1144	2.6	1.6	7.4	0
10 Mile Canal	4/28/2010	2010303-S32	ug/Kg	20.8	648.4	63.8	183.6	193.2	541	7.3	40.3	10099	6697	36.4	23.6	85.4	6.8
10 Mile Canal	4/28/2010	2010303-S33	ug/Kg	19.5	442.4	57.7	124	134.9	430	6.5	38.2	8479.9	6824.9	26.7	18.7	71.3	6
10 Mile Canal	4/28/2010	2010303-S34	ug/Kg	22.8	543.1	68.2	140	145.1	529	7.7	46.2	7396	9477	31.8	22.4	75.2	7.4
10 Mile Canal	4/28/2010	2010303-S35	ug/Kg	14.2	315.3	43.4	80.3	75.7	317	4.1	29	5371	4053	22.3	16.1	39.8	4.2
10 Mile Canal	4/28/2010	2010303-S36	ug/Kg	23.7	1332	71.9	384	415	1049	13.7	46.7	19439	9132.5	34	35.2	96.3	10.7
10 Mile Canal	4/28/2010	2010303-S37	ug/Kg	13.5	312	50.6	72.4	67.1	183	3.7	27.6	3433	865.5	17.4	12.9	38.3	3.9
10 Mile Canal	4/28/2010	2010303-S38	ug/Kg	14.4	224	44.8	79	64.5	282	7.9	28.8	8654	6764	19.3	20.1	52.6	5.2

Notes:

(1) Only non-dioxin-like PCBs are included on this table.

Concentrations that were not detected were included as zero.

TABLE 8

Calculation of Total Polychlorinated Biphenyls (PCBs) [(1)] for Fish

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

StationID	Date Collected	Sample ID	Units	Cong177	Cong179	Cong18	Cong182-187	Cong183	Cong185	Cong190	Cong193	Cong194	Cong195	Cong196-203	Cong198	Cong199	Cong201
10 Mile Canal	4/28/2010	2010303-S01	ug/Kg	0.5	0	1208.9	0.7	0.2	0	0	0	0	0	0	0	0	0
10 Mile Canal	4/28/2010	2010303-S02	ug/Kg	1.7	0.9	851.4	2.5	0.5	0.2	0	0.3	0.2	0.3	0	0	0	0.5
10 Mile Canal	4/28/2010	2010303-S03	ug/Kg	0.9	0	530	1.1	0.3	0	0	0.2	0.2	0.2	0	0	0	0.3
10 Mile Canal	4/28/2010	2010303-S04	ug/Kg	0.6	0	167.7	1.5	0.4	0	0	0.2	0.2	0.2	0	0	0	0.3
10 Mile Canal	4/28/2010	2010303-S05	ug/Kg	0	0	50.6	0	0	0	0	0	0	0	0	0	0	0
10 Mile Canal	4/28/2010	2010303-S06	ug/Kg	1.3	0.5	1515	1.7	0.4	0	0	0.3	0	0.5	0	0	0	0.3
10 Mile Canal	4/28/2010	2010303-S07	ug/Kg	4	2.1	493.4	10.1	2.6	0.6	0	1	2.1	1.2	1.2	0	0.3	2.3
10 Mile Canal	4/28/2010	2010303-S08	ug/Kg	1.3	0.3	857	2.2	0.5	0	0	0.3	0	0.2	0	0	0	0.4
10 Mile Canal	4/28/2010	2010303-S09	ug/Kg	1.3	0.4	1759	1.7	0.4	0	0	0.3	0.4	0.5	0	0	0	0.4
10 Mile Canal	4/28/2010	2010303-S10	ug/Kg	0.9	0.7	2214	3.1	1.7	0	0	0.2	0.4	0.2	0.4	0	0	0.5
10 Mile Canal	4/28/2010	2010303-S11	ug/Kg	0.9	0	1225	2.6	1.4	0	0	0.2	0.3	0.2	0.3	0	0	0.4
10 Mile Canal	4/28/2010	2010303-S12	ug/Kg	0	0	23.6	0	0.2	0	0	0	0	0	0	0	0	0
10 Mile Canal	4/28/2010	2010303-S13	ug/Kg	4.1	2.8	962	12.1	5	0.6	0	0.9	1.9	1	1.6	0	0.2	2.3
10 Mile Canal	4/28/2010	2010303-S14	ug/Kg	0.6	0.2	32	2.9	1.5	0	0	0.2	0.4	0.2	0.3	0	0	0.5
10 Mile Canal	4/28/2010	2010303-S15	ug/Kg	0.3	0.2	449	1.2	0.6	0	0	0	0	0	0	0	0	0.2
10 Mile Canal	4/28/2010	2010303-S16	ug/Kg	0.9	0.3	370.3	3.7	1.8	0.2	0	0.2	0.5	0.3	0.4	0	0	0.7
10 Mile Canal	4/28/2010	2010303-S17	ug/Kg	1	0.5	776	4.1	2.2	0.2	0	0.3	0.9	0.4	0.6	0	0	0.9
10 Mile Canal	4/28/2010	2010303-S18	ug/Kg	0.3	0	170	1.1	0.6	0	0	0	0	0	0	0	0	0.2
10 Mile Canal	4/28/2010	2010303-S19	ug/Kg	0.3	0	105	1.1	0.6	0	0	0	0.2	0	0	0	0	0.3
10 Mile Canal	4/28/2010	2010303-S20	ug/Kg	4.3	1.9	227	21.5	7.9	0.5	0	0.9	3.3	1	1.1	0	0.2	5.4
10 Mile Canal	4/28/2010	2010303-S21	ug/Kg	5.9	3.5	163	23.2	10.7	0.9	0	1.7	5	1.7	5	0	0.3	4.8
10 Mile Canal	4/28/2010	2010303-S22	ug/Kg	0	0	108	0	0	0	0	0	0	0	0	0	0	4.1
10 Mile Canal	4/28/2010	2010303-S23	ug/Kg	0.5	0.3	274	1.9	0.9	0	0	0	0.2	0.2	0	0	0	0.3
10 Mile Canal	4/28/2010	2010303-S24	ug/Kg	0.3	0	164	0.7	0	0	0	0	0	0	0	0	0	0.6
10 Mile Canal	4/28/2010	2010303-S25	ug/Kg	0	0	769	0.7	0.4	0	0	0	0	0	0	0	0	0.8
10 Mile Canal	4/28/2010	2010303-S26	ug/Kg	0	0	17.1	3.1	1.5	0	0	0	0	0	0	0	0	0.7
10 Mile Canal	4/28/2010	2010303-S27	ug/Kg	17.4	13.3	3785	77	28.1	2.1	1.7	3.5	17.1	6.6	17.1	0.7	1.3	16.5
10 Mile Canal	4/28/2010	2010303-S28	ug/Kg	17.4	13.4	2063	87.5	24.7	2.3	1.1	4.1	16.5	5.6	17	0.5	1.6	16.5
10 Mile Canal	4/28/2010	2010303-S29	ug/Kg	70.4	46.6	2424	295	112	9.6	2.7	22.6	62.8	20.3	58.5	3.2	5.7	53.6
10 Mile Canal	4/28/2010	2010303-S30	ug/Kg	9	7.5	508	39.2	16.1	1.2	0	2	6.9	2.3	8	0	0	8
10 Mile Canal	4/28/2010	2010303-S31	ug/Kg	5.8	4.7	1288	36.8	9.3	0.8	0	1.3	5.6	1.9	5.6	0	0	4.8
10 Mile Canal	4/28/2010	2010303-S32	ug/Kg	74.2	63	6065	541	163	10.4	1.7	18.3	89.6	29.6	77.7	4	7.1	88.9
10 Mile Canal	4/28/2010	2010303-S33	ug/Kg	53.7	42.9	8878	246	100	8.1	2.8	1.1	46.1	18.4	52.8	1.8	6.2	49.7
10 Mile Canal	4/28/2010	2010303-S34	ug/Kg	64.3	42.1	5612	367	124	9.9	2.8	17.2	62.3	23.5	64.7	3.3	5.9	59.9
10 Mile Canal	4/28/2010	2010303-S35	ug/Kg	41.6	24	6020	214	75.5	6.2	1.8	11.9	39	14.6	39.6	1.2	2.8	33.9
10 Mile Canal	4/28/2010	2010303-S36	ug/Kg	78.4	128.5	5716	1028	283	15.8	18.2	8	117	31.2	135	5.4	12.6	167
10 Mile Canal	4/28/2010	2010303-S37	ug/Kg	34.3	20.8	1086.9	149	66.4	5.5	2.7	7.7	31.6	11.5	76.5	3.1	1.9	30.8
10 Mile Canal	4/28/2010	2010303-S38	ug/Kg	43.2	19.8	7355	236	78.6	8.8	10.2	4.4	66.7	16.5	76.5	3.1	5.9	56.7

Notes:

(1) Only non-dioxin-like PCBs are included on this table.

Concentrations that were not detected were included as zero.

TABLE 8

Calculation of Total Polychlorinated Biphenyls (PCBs) [(1)] for Fish

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

StationID	Date Collected	Sample ID	Units	Cong205	Cong206	Cong207	Cong22	Cong25	Cong26	Cong27	Cong28	Cong31	Cong33	Cong37-42	Cong40	Cong44	Cong45
10 Mile Canal	4/28/2010	2010303-S01	ug/Kg	0	0	0	476.3	521.7	627.4	0	1360.7	1305.6	797.7	367.5	4.6	600.6	87.8
10 Mile Canal	4/28/2010	2010303-S02	ug/Kg	0	0	0	365.5	412.3	522.4	0	976.8	953.2	650.4	374.8	5.6	560.2	79.2
10 Mile Canal	4/28/2010	2010303-S03	ug/Kg	0	0	0	181.3	521.2	615.6	0	563.9	535.9	781.7	355.1	4.5	536.2	77.5
10 Mile Canal	4/28/2010	2010303-S04	ug/Kg	0	0	0	58.4	73.2	97.1	0	197.6	192.4	110.6	73.6	1.6	107.4	15.5
10 Mile Canal	4/28/2010	2010303-S05	ug/Kg	0	0	0	18.5	18.5	34.7	0	68.8	68.1	14.5	18.9	4.5	31.7	5.3
10 Mile Canal	4/28/2010	2010303-S06	ug/Kg	0.4	0	0	428.2	519.2	493.2	0	1385.8	1386.8	831.7	1028.6	13.9	798.5	441.6
10 Mile Canal	4/28/2010	2010303-S07	ug/Kg	0.3	2.5	0.2	149.1	191.3	252.5	0	519.5	497.6	174.8	962.1	14.6	434.3	359.1
10 Mile Canal	4/28/2010	2010303-S08	ug/Kg	0	0	0	234.1	357.4	357.4	0	772.9	761.8	496.6	1123.3	12.1	546.1	472.2
10 Mile Canal	4/28/2010	2010303-S09	ug/Kg	0	0	0	528	628	777	0	1636	1603	988	777	9.1	1553	313
10 Mile Canal	4/28/2010	2010303-S10	ug/Kg	0	0	0	514	585	725	0	2058	1376	892	155	157	695	57.3
10 Mile Canal	4/28/2010	2010303-S11	ug/Kg	0	0	0	447	440.3	537	0	1333	906	711	276	98.4	436	107
10 Mile Canal	4/28/2010	2010303-S12	ug/Kg	0	0	0	8.2	9.4	12.3	0	20.8	16.2	13.9	6.3	2.1	9.9	2.2
10 Mile Canal	4/28/2010	2010303-S13	ug/Kg	0	0	0	224	538.1	364.2	0	851	659	682	360.7	127	554	129
10 Mile Canal	4/28/2010	2010303-S14	ug/Kg	0	0	0	12.8	18	23.4	0	49.5	39.5	22.3	12.9	4	23.9	4.3
10 Mile Canal	4/28/2010	2010303-S15	ug/Kg	0	0	0	115.7	144.8	165	0	389.3	301.9	196.8	92.3	25.9	123	34.9
10 Mile Canal	4/28/2010	2010303-S16	ug/Kg	0	0	0	5.3	11.4	13.8	0	32	21.3	15.7	13.4	3.9	11.5	3.6
10 Mile Canal	4/28/2010	2010303-S17	ug/Kg	0	0	0	217.9	248.8	320.6	0	748.7	560	385.9	125.7	43.7	298	44.4
10 Mile Canal	4/28/2010	2010303-S18	ug/Kg	0	0	0	59.2	87.7	102.4	0	219	178	108.3	53.2	12.8	76	18.7
10 Mile Canal	4/28/2010	2010303-S19	ug/Kg	0	0	0	27.9	73.4	92.7	0	95.1	83.8	49.4	35.2	16.2	84	14.1
10 Mile Canal	4/28/2010	2010303-S20	ug/Kg	0.5	0.6	0	84.6	128.6	200	0	406	298	42.4	183	39	168	34.9
10 Mile Canal	4/28/2010	2010303-S21	ug/Kg	0.6	0.8	0	68.8	121	197	0	364	257	39.6	127	48.2	140	40.5
10 Mile Canal	4/28/2010	2010303-S22	ug/Kg	0	0	0	34.3	36	48.4	0	108	95.2	61.5	32.1	9.7	44.5	11.7
10 Mile Canal	4/28/2010	2010303-S23	ug/Kg	0	0	0	70.3	94.2	103.8	0	266.9	190.7	115.2	58.9	19	93.7	23.1
10 Mile Canal	4/28/2010	2010303-S24	ug/Kg	0.2	0	0	49.9	61.4	83	0	159.3	149.1	92.2	44.3	14.6	59.9	17.8
10 Mile Canal	4/28/2010	2010303-S25	ug/Kg	0.2	0	0	191	298.5	282	0	658	478	332.2	144.4	55.3	252.4	35.7
10 Mile Canal	4/28/2010	2010303-S26	ug/Kg	0	0	0	98.4	105	138	0	348	198	177	113	32	139	34.2
10 Mile Canal	4/28/2010	2010303-S27	ug/Kg	0	4.6	1.5	1220	1507	2370	0	4049	3938	1308	1350	340	1962	321
10 Mile Canal	4/28/2010	2010303-S28	ug/Kg	0	4.5	1.5	712	871	1464	0	2869	2202	718	995	238	1263	231
10 Mile Canal	4/28/2010	2010303-S29	ug/Kg	1.3	14	4.3	1196	1399	2830	0	6455	3841	836	2562	611	6146	421
10 Mile Canal	4/28/2010	2010303-S30	ug/Kg	0	1.6	0	201	250	474	0	916	703	57.2	340	80	466	76.1
10 Mile Canal	4/28/2010	2010303-S31	ug/Kg	0	1.1	0	365.6	509	785	0	1273	1153	761.4	456	135	694	131
10 Mile Canal	4/28/2010	2010303-S32	ug/Kg	2.1	22.1	6.2	1920	2297	4267	0	7500	6142	2265.9	2891	777	3812	6623
10 Mile Canal	4/28/2010	2010303-S33	ug/Kg	0	14.7	5.2	2688.2	3102.2	5368.8	0	10574.3	9241.2	2802.6	3072.5	831.7	4393.7	725.8
10 Mile Canal	4/28/2010	2010303-S34	ug/Kg	2.2	17.6	5.4	1984	2488	3937	0	7162	5894	2195	3042	754	3986	591
10 Mile Canal	4/28/2010	2010303-S35	ug/Kg	2.1	12.4	3.2	1751	2255	2971	0	6412	6065	2053.6	1851	531	2691	655
10 Mile Canal	4/28/2010	2010303-S36	ug/Kg	1.5	40.5	12.4	2471	3098	7027	0	14006	9890	1723	5326	1240	6563	1021
10 Mile Canal	4/28/2010	2010303-S37	ug/Kg	0	7	3	345.5	392.8	742.3	0	1421.9	1087.1	189.7	705.9	170	953.3	243.1
10 Mile Canal	4/28/2010	2010303-S38	ug/Kg	0	22.5	4.8	1824	875	3894	0	7926	7162	727.6	1011	259	3791	235

Notes:

(1) Only non-dioxin-like PCBs are included on this table.

Concentrations that were not detected were included as zero.

TABLE 8

Calculation of Total Polychlorinated Biphenyls (PCBs) [(1)] for Fish

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

StationID	Date Collected	Sample ID	Units	Cong48	Cong49	Cong52	Cong56-60	Cong63	Cong64	Cong66-95	Cong70	Cong71	Cong74	Cong77a-110	Cong81-87	Cong82	Cong83
10 Mile Canal	4/28/2010	2010303-S01	ug/Kg	0	560.2	745.4	177.9	15.6	292.9	217.9	282.1	195.7	87.2	54.5	28.6	8.8	5.6
10 Mile Canal	4/28/2010	2010303-S02	ug/Kg	23.5	654.3	660.6	29.6	20.9	273.1	324.7	282.1	205.7	203.2	76.2	51.9	15.7	9.2
10 Mile Canal	4/28/2010	2010303-S03	ug/Kg	30.5	527	692.2	175.5	15.3	269.6	321.2	318.1	187.3	115.9	46.1	51.4	11	5.9
10 Mile Canal	4/28/2010	2010303-S04	ug/Kg	11.6	143.9	170.6	42	5.4	49.5	93.9	84.3	43.4	42	22.8	15	4.2	2.2
10 Mile Canal	4/28/2010	2010303-S05	ug/Kg	4.9	43.5	58.6	11.1	1.6	16.8	20.9	19.7	9.7	9.2	7.7	4.6	1.2	0.7
10 Mile Canal	4/28/2010	2010303-S06	ug/Kg	24.7	515.7	700.8	43.1	43.9	251.5	911.8	903.9	542.4	392.8	137.9	69	22.4	17.2
10 Mile Canal	4/28/2010	2010303-S07	ug/Kg	28.9	208.1	311.2	63.3	48.2	98	895.8	777.3	534.1	401.8	147.2	73.3	19.1	20.8
10 Mile Canal	4/28/2010	2010303-S08	ug/Kg	26.2	280.8	419.9	41.9	37.9	141.8	0	195.1	585.8	435.2	120	61.4	19.6	14.6
10 Mile Canal	4/28/2010	2010303-S09	ug/Kg	20.3	660	874	33.7	32.4	307	710	642	405	310	103.5	52.2	16.2	12.6
10 Mile Canal	4/28/2010	2010303-S10	ug/Kg	44.1	583	786	65.2	9.8	4.1	123	340	78.3	49.2	32.2	15.3	5	4.3
10 Mile Canal	4/28/2010	2010303-S11	ug/Kg	83.4	418.1	654	120.4	16	211.7	226.3	215.7	131.7	95.2	60.9	26.2	8.1	8.2
10 Mile Canal	4/28/2010	2010303-S12	ug/Kg	1.5	9.7	13.1	2.7	0.3	4.3	4.9	4.7	3	2.1	2.3	0.9	0	0
10 Mile Canal	4/28/2010	2010303-S13	ug/Kg	109.1	326.6	430.4	142.7	49.3	0	297.5	270.2	189.5	127.6	106.5	60.6	16.4	17.5
10 Mile Canal	4/28/2010	2010303-S14	ug/Kg	4.5	24.2	31.8	5.3	1.1	9.8	13.3	9.6	6.1	5.6	7.2	3.2	0.5	0.7
10 Mile Canal	4/28/2010	2010303-S15	ug/Kg	35.5	141.8	191.9	42.1	5.1	68.7	58.9	52.7	40	19.5	18.9	8.4	2.4	1.9
10 Mile Canal	4/28/2010	2010303-S16	ug/Kg	3.8	14.6	19.1	5	1	9.6	12.3	10	6.9	5	6.5	2.8	0.5	0.6
10 Mile Canal	4/28/2010	2010303-S17	ug/Kg	40.2	312.8	415	59.4	10	142.1	121.4	165.5	64.4	50.5	37.2	18.6	5.9	4.5
10 Mile Canal	4/28/2010	2010303-S18	ug/Kg	11.2	76.6	99.9	18.8	2.9	31.2	39.6	34.8	23.3	16.5	12.2	5.4	1.4	1.2
10 Mile Canal	4/28/2010	2010303-S19	ug/Kg	19.1	88.7	58.2	15.9	2.5	41	35.1	38.5	19.4	14.6	10.8	5.2	1.4	1.1
10 Mile Canal	4/28/2010	2010303-S20	ug/Kg	52.6	325	359	49.1	25.7	93.5	197	113	93.4	89.4	102.8	38.5	7.9	1.4
10 Mile Canal	4/28/2010	2010303-S21	ug/Kg	3.9	293	321	52.3	36	75.2	129.5	81.5	88.2	58.5	130.3	48.6	8.8	1.4
10 Mile Canal	4/28/2010	2010303-S22	ug/Kg	15.2	57.7	75.7	13.8	2.2	26	30.6	26	16	11.4	12	5.6	1.5	0
10 Mile Canal	4/28/2010	2010303-S23	ug/Kg	9.9	97.3	130.5	29.2	5.6	44.8	59.3	55.8	32.2	25.8	20.6	9.8	2.5	1.7
10 Mile Canal	4/28/2010	2010303-S24	ug/Kg	10.1	68.9	94.2	20.7	3.4	33.4	39.1	35.7	21.6	18.2	11.5	5.8	1.8	1.1
10 Mile Canal	4/28/2010	2010303-S25	ug/Kg	34.7	283	313.1	57.6	3.7	129.8	116.5	134	78.8	18.3	12.3	5.5	1.6	1.4
10 Mile Canal	4/28/2010	2010303-S26	ug/Kg	37.3	150	198	53.8	9.1	72.4	111	96.7	56.5	47.1	35.9	17.1	4.3	3.2
10 Mile Canal	4/28/2010	2010303-S27	ug/Kg	370	2898	3321	482	148	875	1253	1179	867	587	538	154	46.8	59.3
10 Mile Canal	4/28/2010	2010303-S28	ug/Kg	320	2005	2253	352	123.5	671	1008	787	648	472	464	141.5	41	59.1
10 Mile Canal	4/28/2010	2010303-S29	ug/Kg	1435	5791	6187	926	383	1779	3790	1943	1657	1637	1723	754	174	194
10 Mile Canal	4/28/2010	2010303-S30	ug/Kg	121	781	931	124	49.9	241	372	254	227	178	202	64	16.6	26
10 Mile Canal	4/28/2010	2010303-S31	ug/Kg	182.6	804	970	208	42.3	353	490	421	260	216	201.8	64.1	19.6	19.5
10 Mile Canal	4/28/2010	2010303-S32	ug/Kg	1342.5	6912	7589	910.9	420.4	1873	3391	2022	1960	1579	1711	734.1	136.5	214
10 Mile Canal	4/28/2010	2010303-S33	ug/Kg	1238.9	7246.6	8447.5	1910	386.7	2484.5	3358.3	2377.1	1707.8	1513.7	1510.7	631	136.3	177.5
10 Mile Canal	4/28/2010	2010303-S34	ug/Kg	1092	3370	6344	1087	388.5	1985	3817	2242	1701	1769.6	1759	702.4	145.3	183
10 Mile Canal	4/28/2010	2010303-S35	ug/Kg	1091.5	3370	4119	841	198	1340	1790	1456	951	782.1	817	403.7	79.7	91.7
10 Mile Canal	4/28/2010	2010303-S36	ug/Kg	3098	13661	14784	1471	761.5	2986	6589	3662.4	3668	2806.4	3308	1461	278	452
10 Mile Canal	4/28/2010	2010303-S37	ug/Kg	186.1	1496.9	1741.9	461	164	525	937.5	373.9	425.9	412.2	492	410	91.1	86.8
10 Mile Canal	4/28/2010	2010303-S38	ug/Kg	231	6877	7674	329.8	130.7	1761	1196	697	666	552	606	202	53.2	77.6

Notes:

(1) Only non-dioxin-like PCBs are included on this table.

Concentrations that were not detected were included as zero.

TABLE 8

Calculation of Total Polychlorinated Biphenyls (PCBs) [(1)] for Fish

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

StationID	Date Collected	Sample ID	Units	Cong84	Cong90-101	Cong91	Cong92	Cong97	Cong99	Total PCB (Non-Dioxin-Like)
10 Mile Canal	4/28/2010	2010303-S01	ug/Kg	30.1	36.5	16.8	12.3	18.4	20.1	14771.8
10 Mile Canal	4/28/2010	2010303-S02	ug/Kg	37.4	77.4	29.4	5.3	33.9	48.5	12826.1
10 Mile Canal	4/28/2010	2010303-S03	ug/Kg	24.8	36.8	17.5	11.9	20.2	22.5	11695.9
10 Mile Canal	4/28/2010	2010303-S04	ug/Kg	8.9	22.8	8.1	7	9.2	14.5	2627.7
10 Mile Canal	4/28/2010	2010303-S05	ug/Kg	2.8	7.4	2.2	1.8	3	4.1	751.1
10 Mile Canal	4/28/2010	2010303-S06	ug/Kg	76	99.3	49.5	4.3	46.8	52.8	22757.3
10 Mile Canal	4/28/2010	2010303-S07	ug/Kg	69.3	131.7	59.6	6.2	47.7	85.1	13787.5
10 Mile Canal	4/28/2010	2010303-S08	ug/Kg	67.2	93.2	43.3	5.9	40.8	53.4	11720.4
10 Mile Canal	4/28/2010	2010303-S09	ug/Kg	57.6	79.1	37.7	5.4	34.8	44.3	21948.5
10 Mile Canal	4/28/2010	2010303-S10	ug/Kg	17.6	22.1	11	9.3	10.9	16.7	20052.5
10 Mile Canal	4/28/2010	2010303-S11	ug/Kg	30	39.8	14.5	17.7	19	27.3	14418.2
10 Mile Canal	4/28/2010	2010303-S12	ug/Kg	0.6	1.4	0	0	0.5	0.8	309.5
10 Mile Canal	4/28/2010	2010303-S13	ug/Kg	63.7	112.7	54.2	47.5	43.4	81.7	14276.5
10 Mile Canal	4/28/2010	2010303-S14	ug/Kg	1.6	6.4	1.7	1.8	1.8	4	635.6
10 Mile Canal	4/28/2010	2010303-S15	ug/Kg	7.7	13.7	5.8	5	5.7	8.4	4676.5
10 Mile Canal	4/28/2010	2010303-S16	ug/Kg	1.7	5.6	1.3	1.5	1.7	3.2	830.6
10 Mile Canal	4/28/2010	2010303-S17	ug/Kg	19.3	28.9	13.2	10.7	12.1	21.1	8151.5
10 Mile Canal	4/28/2010	2010303-S18	ug/Kg	4.7	8.7	3.6	3	3.6	5.5	2742.8
10 Mile Canal	4/28/2010	2010303-S19	ug/Kg	4.2	8.4	3.3	2.9	3.1	5	2150
10 Mile Canal	4/28/2010	2010303-S20	ug/Kg	24.3	92.9	38.3	41.2	27.3	59.1	5279.1
10 Mile Canal	4/28/2010	2010303-S21	ug/Kg	30.5	116.3	52.1	52.1	32.2	80	4985
10 Mile Canal	4/28/2010	2010303-S22	ug/Kg	4.6	9.2	3.4	4.5	3.8	5.4	1420.3
10 Mile Canal	4/28/2010	2010303-S23	ug/Kg	7	16.5	6.4	5.9	6.3	10.4	3126.5
10 Mile Canal	4/28/2010	2010303-S24	ug/Kg	5.2	8.6	3.9	3.7	4	4.7	2096.6
10 Mile Canal	4/28/2010	2010303-S25	ug/Kg	6.1	8.8	4.2	4.2	4.2	5.5	8279.9
10 Mile Canal	4/28/2010	2010303-S26	ug/Kg	12.4	27.1	9.8	9.2	11.2	16.5	3796.9
10 Mile Canal	4/28/2010	2010303-S27	ug/Kg	158	432	176	153	160	287	58879.4
10 Mile Canal	4/28/2010	2010303-S28	ug/Kg	146	375	179	156	128	244	39841.7
10 Mile Canal	4/28/2010	2010303-S29	ug/Kg	498	1429	611	494	532	926	91302.8
10 Mile Canal	4/28/2010	2010303-S30	ug/Kg	57.3	185.1	67.3	67.2	56.9	117.8	12557.6
10 Mile Canal	4/28/2010	2010303-S31	ug/Kg	58.7	143.8	57.3	53.3	61.4	90.4	21119.9
10 Mile Canal	4/28/2010	2010303-S32	ug/Kg	505	1532	675	576	464	961	127981.5
10 Mile Canal	4/28/2010	2010303-S33	ug/Kg	466.5	1301.2	524.9	473.2	443.3	860.5	131006.7
10 Mile Canal	4/28/2010	2010303-S34	ug/Kg	421	1538	506	463.8	511.3	1021	110019.8
10 Mile Canal	4/28/2010	2010303-S35	ug/Kg	274.9	759	274	253	266	493	81258.3
10 Mile Canal	4/28/2010	2010303-S36	ug/Kg	1028.6	2854	1350	1192	881.9	1873	197767.2
10 Mile Canal	4/28/2010	2010303-S37	ug/Kg	233.2	775	234.4	201.2	275	495.1	28304.9
10 Mile Canal	4/28/2010	2010303-S38	ug/Kg	171.5	558	195.3	182.2	179.9	374	85142.1

Notes:

(1) Only non-dioxin-like PCBs are included on this table.

Concentrations that were not detected were included as zero.

Appendix C
FIELDS Group Replicate Calculations

Description	ID	Interval	Replicates	Param. Name	Detect	Flags	Result	Ave_of_reps	abs_diff	Std_Dev_all	Dry_wt_Cor_dups_ave	Ave_of_reps	abs_diff	Std Dev_500-10,000
TMD-SO-010-0/0.5R1	10	0/0.5	R1	PCBtotal	y		1600	1433	167	465.3425769	1600	1433	167	206.9266198
TMD-SO-010-0/0.5R2	10	0/0.5	R2	PCBtotal	y		600	1433	833		600	1433	833	
TMD-SO-010-0/0.5R3	10	0/0.5	R3	PCBtotal	y		2100	1433	667	LCL 95% one-tailed cutoff = 3237	2100	1433	667	
TMD-SO-010-1/1.5R1	10	1/1.5	R1	PCBtotal	y	J	310	283	27	z(0.05)=1.64	1400	1567	167	
TMD-SO-010-1/1.5R2	10	1/1.5	R2	PCBtotal	y	J	270	283	13		1700	1567	133	
TMD-SO-010-1/1.5R3	10	1/1.5	R3	PCBtotal	y	J	270	283	13	LCL 97.5% one-tailed cutoff = 3088	1600	1567	33	LCL 95% one-tailed cutoff = 3640
TMD-SO-010-2.5/3R1	10	2.5/3	R1	PCBtotal	n	U	380	330	50	z(0.025)=1.96	2900	2500	400	t(0.05, 17 df)=1.7396
TMD-SO-010-2.5/3R2	10	2.5/3	R2	PCBtotal	n	U	400	330	70		2300	2500	200	
TMD-SO-010-2.5/3R2	10	2.5/3	R2	PCBtotal	y	J	210	330	120	LCL 99% one-tailed cutoff = 2916	2300	2500	200	LCL 97.5% one-tailed cutoff = 3563
TMD-SO-011-0.5/1R1	11	0.5/1	R1	PCBtotal	y		1400	1567	167	z(0.01)=2.33	380	592	212	t(0.025, 17df)=2.1098
TMD-SO-011-0.5/1R2	11	0.5/1	R2	PCBtotal	y		1700	1567	133		630	592	38	
TMD-SO-011-0.5/1R3	11	0.5/1	R3	PCBtotal	y		1600	1567	33	Formula=4000-(Zalpha*standard deviation)	765	592	173	LCL 99% one-tailed cutoff = 3468
TMD-SO-011-0/0.5/R3	11	0/0.5	R3	PCBtotal	y		2900	2500	400		1550	1317	233	t(0.01, 17df)=2.5669
TMD-SO-011-0/0.5R1	11	0/0.5	R1	PCBtotal	y		2300	2500	200		1400	1317	83	
TMD-SO-011-0/0.5R2	11	0/0.5	R2	PCBtotal	y		2300	2500	200		1000	1317	317	Formula=4000-(t, alpha, df*standard deviation)
TMD-SO-011-1/1.5R1	11	1/1.5	R1	PCBtotal	y		380	592	212		2400	2553	153	
TMD-SO-011-1/1.5R2	11	1/1.5	R2	PCBtotal	y		630	592	38		2820	2553	267	
TMD-SO-011-1/1.5R3-FD	11	1/1.5	R3-FD	PCBtotal	y		765	592	173		2438	2553	115	
TMD-SO-011-2.5/3R1	11	2.5/3	R1	PCBtotal	y	J	280	373	93					
TMD-SO-011-2.5/3R3	11	2.5/3	R3	PCBtotal	y		470	373	97					
TMD-SO-011-2.5/3R3	11	2.5/3	R3	PCBtotal	n	U	370	373	3					
TMD-SO-019-0/0.5R2-FD	19	0/0.5	R2-FD	PCBtotal	y		1550	1317	233					
TMD-SO-019-0/0.5R3	19	0/0.5	R3	PCBtotal	y		1400	1317	83					
TMD-SO-019-0/05R1	19	0/0.5	R1	PCBtotal	y		1000	1317	317					
TMD-SO-019-1/1.5R1	19	1/1.5	R1	PCBtotal	y	J	340	443	103					
TMD-SO-019-1/1.5R2	19	1/1.5	R2	PCBtotal	y	J	370	443	73					
TMD-SO-019-1/1.5R3	19	1/1.5	R3	PCBtotal	y		620	443	177					
TMD-SO-019-2.5/3R1	19	2.5/3	R1	PCBtotal	n	U	370	337	33					
TMD-SO-019-2.5/3R2	19	2.5/3	R2	PCBtotal	y	J	230	337	107					
TMD-SO-019-2.5/3R3	19	2.5/3	R3	PCBtotal	n	U	410	337	73					
TMD-SO-028-0/0.5R1	28	0/0.5	R1	PCBtotal	n	U	360	358	2					
TMD-SO-028-0/0.5R2	28	0/0.5	R2	PCBtotal	n	U	360	358	2					
TMD-SO-028-0/0.5R3-FD	28	0/0.5	R3-FD	PCBtotal	n	U	355	358	3					
TMD-SO-028-1/1.5R1	28	1/1.5	R1	PCBtotal	n	U	380	367	13					
TMD-SO-028-1/1.5R2	28	1/1.5	R2	PCBtotal	n	U	370	367	3					
TMD-SO-028-1/1.5R3	28	1/1.5	R3	PCBtotal	n	U	350	367	17					
TMD-SO-028-2.5/3R1	28	2.5/3	R1	PCBtotal	n	U	400	363	37					
TMD-SO-028-2.5/3R2	28	2.5/3	R2	PCBtotal	n	U	400	363	37					
TMD-SO-028-2.5/3R3	28	2.5/3	R3	PCBtotal	n	U	290	363	73					
TMD-SO-040-0/0.5R1	40	0/0.5	R1	PCBtotal	n	U	290	293	3					
TMD-SO-040-0/0.5R2-FD	40	0/0.5	R2-FD	PCBtotal	n	U	350	293	57					
TMD-SO-040-0/0.5R3	40	0/0.5	R3	PCBtotal	n	U	240	293	53					
TMD-SO-040-1/1.5R1	40	1/1.5	R1	PCBtotal	n	U	340	343	3					
TMD-SO-040-1/1.5R2	40	1/1.5	R2	PCBtotal	n	U	390	343	47					
TMD-SO-040-1/1.5R3	40	1/1.5	R3	PCBtotal	n	U	300	343	43					
TMD-SO-040-2.5/3R1	40	2.5/3	R1	PCBtotal	n	U	320	347	27					
TMD-SO-040-2.5/3R2	40	2.5/3	R2	PCBtotal	n	U	370	347	23					
TMD-SO-040-2.5/3R3	40	2.5/3	R3	PCBtotal	n	U	350	347	3					
TMD-SO-041-0/0.5R1	41	0/0.5	R1	PCBtotal	n	U	320	307	13					
TMD-SO-041-0/0.5R2	41	0/0.5	R2	PCBtotal	n	U	350	307	43					
TMD-SO-041-0/0.5R3	41	0/0.5	R3	PCBtotal	y	J	250	307	57					
TMD-SO-041-1/1.5R1	41	1/1.5	R1	PCBtotal	y		450	350	100					
TMD-SO-041-1/1.5R2-FD	41	1/1.5	R2-FD	PCBtotal	y	J	270	350	80					
TMD-SO-041-1/1.5R3	41	1/1.5	R3	PCBtotal	n	U	330	350	20					
TMD-SO-041-2.5/3R1	41	2.5/3	R1	PCBtotal	n	U	380	363	17					
TMD-SO-041-2.5/3R2	41	2.5/3	R2	PCBtotal	n	U	340	363	23					
TMD-SO-041-2.5/3R3	41	2.5/3	R3	PCBtotal	n	U	370	363	7					
TMD-SO-055-0/0.5R1	55	0/0.5	R1	PCBtotal	y		11000	14040	3040					
TMD-SO-055-0/0.5R2	55	0/0.5	R2	PCBtotal	y		15680	14040	1640					
TMD-SO-055-0/0.5R3	55	0/0.5	R3	PCBtotal	y		15440	14040	1400					
TMD-SO-055-1/1.5R1	55	1/1.5	R1	PCBtotal	y		2400	2553	153					
TMD-SO-055-1/1.5R2	55	1/1.5	R2	PCBtotal	y		2820	2553	267					
TMD-SO-055-1/1.5R3	55	1/1.5	R3	PCBtotal	y		2438	2553	115					

Description	ID	Interval	Replicates	Param. Name	Detect	Result	Ave_of_reps	abs_diff	Std_Dev_all
TMD-SO-010-0/0.5R1	10	0/0.5	R1	PCBtotal	y	1600	1433.3	166.7	412.676919
TMD-SO-010-0/0.5R2	10	0/0.5	R2	PCBtotal	y	600	1433.3	833.3	
TMD-SO-010-0/0.5R3	10	0/0.5	R3	PCBtotal	y	2100	1433.3	666.7	LCL 95% one-tailed cutoff = 3323
TMD-SO-010-1/1.5R1	10	1/1.5	R1	PCBtotal	y	310	283.3	26.7	z(0.05)=1.64
TMD-SO-010-1/1.5R2	10	1/1.5	R2	PCBtotal	y	270	283.3	13.3	
TMD-SO-010-1/1.5R3	10	1/1.5	R3	PCBtotal	y	270	283.3	13.3	LCL 97.5% one-tailed cutoff = 3191
TMD-SO-010-2.5/3R1	10	2.5/3	R1	PCBtotal	n	380	330.0	50.0	z(0.025)=1.96
TMD-SO-010-2.5/3R2	10	2.5/3	R2	PCBtotal	n	400	330.0	70.0	
TMD-SO-010-2.5/3R2	10	2.5/3	R2	PCBtotal	y	210	330.0	120.0	LCL 99% one-tailed cutoff = 3038
TMD-SO-011-0.5/1R1	11	0.5/1	R1	PCBtotal	y	1400	1566.7	166.7	z(0.01)=2.33
TMD-SO-011-0.5/1R2	11	0.5/1	R2	PCBtotal	y	1700	1566.7	133.3	
TMD-SO-011-0.5/1R3	11	0.5/1	R3	PCBtotal	y	1600	1566.7	33.3	Formula=4000-(Zalpha*standard deviation)
TMD-SO-011-0/0.5/R3	11	0/0.5	R3	PCBtotal	y	2900	2500.0	400.0	
TMD-SO-011-0/0.5R1	11	0/0.5	R1	PCBtotal	y	2300	2500.0	200.0	
TMD-SO-011-0/0.5R2	11	0/0.5	R2	PCBtotal	y	2300	2500.0	200.0	
TMD-SO-011-1/1.5R1	11	1/1.5	R1	PCBtotal	y	380	591.7	211.7	
TMD-SO-011-1/1.5R2	11	1/1.5	R2	PCBtotal	y	630	591.7	38.3	
TMD-SO-011-1/1.5R3-FD	11	1/1.5	R3-FD	PCBtotal	y	765	591.7	173.3	
TMD-SO-011-2.5/3R1	11	2.5/3	R1	PCBtotal	y	280	373.3	93.3	
TMD-SO-011-2.5/3R3	11	2.5/3	R3	PCBtotal	y	470	373.3	96.7	
TMD-SO-011-2.5/3R3	11	2.5/3	R3	PCBtotal	n	370	373.3	3.3	
TMD-SO-019-0/0.5R2-FD	19	0/0.5	R2-FD	PCBtotal	y	1550	1316.7	233.3	
TMD-SO-019-0/0.5R3	19	0/0.5	R3	PCBtotal	y	1400	1316.7	83.3	
TMD-SO-019-0/05R1	19	0/0.5	R1	PCBtotal	y	1000	1316.7	316.7	
TMD-SO-019-1/1.5R1	19	1/1.5	R1	PCBtotal	y	340	443.3	103.3	
TMD-SO-019-1/1.5R2	19	1/1.5	R2	PCBtotal	y	370	443.3	73.3	
TMD-SO-019-1/1.5R3	19	1/1.5	R3	PCBtotal	y	620	443.3	176.7	
TMD-SO-019-2.5/3R1	19	2.5/3	R1	PCBtotal	n	370	336.7	33.3	
TMD-SO-019-2.5/3R2	19	2.5/3	R2	PCBtotal	y	230	336.7	106.7	
TMD-SO-019-2.5/3R3	19	2.5/3	R3	PCBtotal	n	410	336.7	73.3	
TMD-SO-028-0/0.5R1	28	0/0.5	R1	PCBtotal	n	360	358.3	1.7	
TMD-SO-028-0/0.5R2	28	0/0.5	R2	PCBtotal	n	360	358.3	1.7	
TMD-SO-028-0/0.5R3-FD	28	0/0.5	R3-FD	PCBtotal	n	355	358.3	3.3	
TMD-SO-028-1/1.5R1	28	1/1.5	R1	PCBtotal	n	380	366.7	13.3	
TMD-SO-028-1/1.5R2	28	1/1.5	R2	PCBtotal	n	370	366.7	3.3	
TMD-SO-028-1/1.5R3	28	1/1.5	R3	PCBtotal	n	350	366.7	16.7	
TMD-SO-028-2.5/3R1	28	2.5/3	R1	PCBtotal	n	400	363.3	36.7	
TMD-SO-028-2.5/3R2	28	2.5/3	R2	PCBtotal	n	400	363.3	36.7	
TMD-SO-028-2.5/3R3	28	2.5/3	R3	PCBtotal	n	290	363.3	73.3	
TMD-SO-040-0/0.5R1	40	0/0.5	R1	PCBtotal	n	290	293.3	3.3	
TMD-SO-040-0/0.5R2-FD	40	0/0.5	R2-FD	PCBtotal	n	350	293.3	56.7	
TMD-SO-040-0/0.5R3	40	0/0.5	R3	PCBtotal	n	240	293.3	53.3	
TMD-SO-040-1/1.5R1	40	1/1.5	R1	PCBtotal	n	340	343.3	3.3	
TMD-SO-040-1/1.5R2	40	1/1.5	R2	PCBtotal	n	390	343.3	46.7	
TMD-SO-040-1/1.5R3	40	1/1.5	R3	PCBtotal	n	300	343.3	43.3	
TMD-SO-040-2.5/3R1	40	2.5/3	R1	PCBtotal	n	320	346.7	26.7	

Description	ID	Interval	Replicates	Param. Name	Detect	Result	Ave_of_reps	abs_diff	Std_Dev_all
TMD-SO-040-2.5/3R2	40	2.5/3	R2	PCBtotal	n	370	346.7	23.3	
TMD-SO-040-2.5/3R3	40	2.5/3	R3	PCBtotal	n	350	346.7	3.3	
TMD-SO-041-0/0.5R1	41	0/0.5	R1	PCBtotal	n	320	306.7	13.3	
TMD-SO-041-0/0.5R2	41	0/0.5	R2	PCBtotal	n	350	306.7	43.3	
TMD-SO-041-0/0.5R3	41	0/0.5	R3	PCBtotal	y	250	306.7	56.7	
TMD-SO-041-1/1.5R1	41	1/1.5	R1	PCBtotal	y	450	350.0	100.0	
TMD-SO-041-1/1.5R2-FD	41	1/1.5	R2-FD	PCBtotal	y	270	350.0	80.0	
TMD-SO-041-1/1.5R3	41	1/1.5	R3	PCBtotal	n	330	350.0	20.0	
TMD-SO-041-2.5/3R1	41	2.5/3	R1	PCBtotal	n	380	363.3	16.7	
TMD-SO-041-2.5/3R2	41	2.5/3	R2	PCBtotal	n	340	363.3	23.3	
TMD-SO-041-2.5/3R3	41	2.5/3	R3	PCBtotal	n	370	363.3	6.7	
TMD-SO-055-0/0.5R1	55	0/0.5	R1	PCBtotal	y	11000	14040.0	3040.0	
TMD-SO-055-0/0.5R2	55	0/0.5	R2	PCBtotal	y	15680	14040.0	1640.0	
TMD-SO-055-0/0.5R3	55	0/0.5	R3	PCBtotal	y	15440	14040.0	1400.0	
TMD-SO-055-1/1.5R1	55	1/1.5	R1	PCBtotal	y	2400	2552.7	152.7	
TMD-SO-055-1/1.5R2	55	1/1.5	R2	PCBtotal	y	2820	2552.7	267.3	
TMD-SO-055-1/1.5R3	55	1/1.5	R3	PCBtotal	y	2438	2552.7	114.7	
TMD-SO-060-0/0.5R1	60	0/0.5	R1	Total_PCB	y	540	476.7	63.3	
TMD-SO-060-0/0.5R2	60	0/0.5	R2	Total_PCB	n	310	476.7	166.7	
TMD-SO-060-0/0.5R3	60	0/0.5	R3	Total_PCB	y	580	476.7	103.3	
TMD-SO-060-1/1.5R1	60	1/1.5	R1	Total_PCB	n	300	326.7	26.7	
TMD-SO-060-1/1.5R2	60	1/1.5	R2	Total_PCB	n	320	326.7	6.7	
TMD-SO-060-1/1.5R3	60	1/1.5	R3	Total_PCB	n	360	326.7	33.3	
TMD-SO-060-2.5/3R1	60	2.5/3	R1	Total_PCB	n	370	330.0	40.0	
TMD-SO-060-2.5/3R2-FD	60	2.5/3	R2	Total_PCB	n	290	330.0	40.0	
TMD-SO-060-2.5/3R3	60	2.5/3	R3	Total_PCB	n	330	330.0	0.0	
TMD-SO-074-0/0.5R1	74	0/0.5	R1	Total_PCB	y	1070	870.0	200.0	
TMD-SO-074-0/0.5R2-FD	74	0/0.5	R2	Total_PCB	y	990	870.0	120.0	
TMD-SO-074-0/0.5R3	74	0/0.5	R3	Total_PCB	y	550	870.0	320.0	
TMD-SO-074-1/1.5R1	74	1/1.5	R1	Total_PCB	y	500	380.0	120.0	
TMD-SO-074-1/1.5R2	74	1/1.5	R2	Total_PCB	y	410	380.0	30.0	
TMD-SO-074-1/1.5R3	74	1/1.5	R3	Total_PCB	y	230	380.0	150.0	
TMD-SO-074-2.5/3R1	74	2.5/3	R1	Total_PCB	n	270	313.3	43.3	
TMD-SO-074-2.5/3R2	74	2.5/3	R2	Total_PCB	n	320	313.3	6.7	
TMD-SO-074-2.5/3R3	74	2.5/3	R3	Total_PCB	n	350	313.3	36.7	
TMD-SO-078-0/0.5R1	78	0/0.5	R1	Total_PCB	y	3000	2953.3	46.7	
TMD-SO-078-0/0.5R2	78	0/0.5	R2	Total_PCB	y	1960	2953.3	993.3	
TMD-SO-078-0/0.5R3	78	0/0.5	R3	Total_PCB	y	3900	2953.3	946.7	
TMD-SO-078-1/1.5R1	78	1/1.5	R1	Total_PCB	y	1530	1106.7	423.3	
TMD-SO-078-1/1.5R2-FD	78	1/1.5	R2	Total_PCB	y	970	1106.7	136.7	
TMD-SO-078-1/1.5R3	78	1/1.5	R3	Total_PCB	y	820	1106.7	286.7	
TMD-SO-078-2.5/3R1	78	2.5/3	R1	Total_PCB	n	340	343.3	3.3	
TMD-SO-078-2.5/3R2	78	2.5/3	R2	Total_PCB	n	340	343.3	3.3	
TMD-SO-078-2.5/3R3	78	2.5/3	R3	Total_PCB	n	350	343.3	6.7	

Description	ID	Interval	Replicates	Param. Name	Detect	Result	Ave_of_reps	abs_diff	Std_Dev_all
TMD-SO-010-0/0.5R1	10	0/0.5	R1	PCBtotal	y	1600	1433.3	166.7	265.3242928
TMD-SO-010-0/0.5R2	10	0/0.5	R2	PCBtotal	y	600	1433.3	833.3	
TMD-SO-010-0/0.5R3	10	0/0.5	R3	PCBtotal	y	2100	1433.3	666.7	LCL 95% one-tailed cutoff = 3565
TMD-SO-011-0.5/1R1	11	0.5/1	R1	PCBtotal	y	1400	1566.7	166.7	z(0.05)=1.64
TMD-SO-011-0.5/1R2	11	0.5/1	R2	PCBtotal	y	1700	1566.7	133.3	
TMD-SO-011-0.5/1R3	11	0.5/1	R3	PCBtotal	y	1600	1566.7	33.3	LCL 97.5% one-tailed cutoff = 3480
TMD-SO-011-0/0.5/R3	11	0/0.5	R3	PCBtotal	y	2900	2500.0	400.0	z(0.025)=1.96
TMD-SO-011-0/0.5R1	11	0/0.5	R1	PCBtotal	y	2300	2500.0	200.0	
TMD-SO-011-0/0.5R2	11	0/0.5	R2	PCBtotal	y	2300	2500.0	200.0	LCL 99% one-tailed cutoff = 3382
TMD-SO-011-1/1.5R1	11	1/1.5	R1	PCBtotal	y	380	591.7	211.7	z(0.01)=2.33
TMD-SO-011-1/1.5R2	11	1/1.5	R2	PCBtotal	y	630	591.7	38.3	
TMD-SO-011-1/1.5R3-FD	11	1/1.5	R3-FD	PCBtotal	y	765	591.7	173.3	ormula=4000-(Zalpha*standard deviation)
TMD-SO-019-0/0.5R2-FD	19	0/0.5	R2-FD	PCBtotal	y	1550	1316.7	233.3	
TMD-SO-019-0/0.5R3	19	0/0.5	R3	PCBtotal	y	1400	1316.7	83.3	
TMD-SO-019-0/05R1	19	0/0.5	R1	PCBtotal	y	1000	1316.7	316.7	
TMD-SO-055-1/1.5R1	55	1/1.5	R1	PCBtotal	y	2400	2552.7	152.7	
TMD-SO-055-1/1.5R2	55	1/1.5	R2	PCBtotal	y	2820	2552.7	267.3	
TMD-SO-055-1/1.5R3	55	1/1.5	R3	PCBtotal	y	2438	2552.7	114.7	
TMD-SO-074-0/0.5R1	74	0/0.5	R1	Total_PCB	y	1070	870.0	200.0	
TMD-SO-074-0/0.5R2-FD	74	0/0.5	R2	Total_PCB	y	990	870.0	120.0	
TMD-SO-074-0/0.5R3	74	0/0.5	R3	Total_PCB	y	550	870.0	320.0	
TMD-SO-078-0/0.5R1	78	0/0.5	R1	Total_PCB	y	3000	2953.3	46.7	
TMD-SO-078-0/0.5R2	78	0/0.5	R2	Total_PCB	y	1960	2953.3	993.3	
TMD-SO-078-0/0.5R3	78	0/0.5	R3	Total_PCB	y	3900	2953.3	946.7	
TMD-SO-078-1/1.5R1	78	1/1.5	R1	Total_PCB	y	1530	1106.7	423.3	
TMD-SO-078-1/1.5R2-FD	78	1/1.5	R2	Total_PCB	y	970	1106.7	136.7	
TMD-SO-078-1/1.5R3	78	1/1.5	R3	Total_PCB	y	820	1106.7	286.7	

Appendix D
Analytical Summary Tables

TABLE 1

PCB Results in Yards of Residential Properties - Surface Soil (0 - 2 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2,3]
TMD-003	003	TMD-SO-003-0/0.5	Total PCBs	0.42	U	mg/Kg	No
TMD-003	003	TMD-SO-003-1/1.5	Total PCBs	0.39	U	mg/Kg	No
TMD-004	004	TMD-SO-004-0/0.5	Total PCBs	0.39	U	mg/Kg	No
TMD-004	004	TMD-SO-004-1/1.5	Total PCBs	0.39	U	mg/Kg	No
TMD-005	005	TMD-SO-005-0.5/1	Total PCBs	0.6604	=	mg/Kg	No
TMD-005	005	TMD-SO-005-0/0.5	Total PCBs	1.49	=	mg/Kg	No
TMD-005	005	TMD-SO-005-1/1.5	Total PCBs	0.39	U	mg/Kg	No
TMD-006	006	TMD-SO-006-0/0.5	Total PCBs	0.0209	U	mg/Kg	No
TMD-006	006	TMD-SO-006-1/1.5	Total PCBs	0.38	U	mg/Kg	No
TMD-007	007	TMD-SO-007-0/0.5	Total PCBs	0.36	U	mg/Kg	No
TMD-007	007	TMD-SO-007-1/1.5	Total PCBs	0.37	U	mg/Kg	No
TMD-008	008	TMD-SO-008-0/0.5	Total PCBs	0.38	U	mg/Kg	No
TMD-008	008	TMD-SO-008-1/1.5	Total PCBs	0.4	U	mg/Kg	No
TMD-009	009	TMD-SO-009-0/0.5	Total PCBs	0.58	=	mg/Kg	No
TMD-009	009	TMD-SO-009-1/1.5	Total PCBs	0.0207	U	mg/Kg	No
TMD-010	010	TMD-SO-010-0/0.5R1	Total PCBs	1.8	=	mg/Kg	No
TMD-010	010	TMD-SO-010-0/0.5R2	Total PCBs	1.4	=	mg/Kg	No
TMD-010	010	TMD-SO-010-0/0.5R3	Total PCBs	2.305	=	mg/Kg	No
TMD-010	010	TMD-SO-010-1/1.5R1	Total PCBs	0.505	=	mg/Kg	No
TMD-010	010	TMD-SO-010-1/1.5R2	Total PCBs	0.465	=	mg/Kg	No
TMD-010	010	TMD-SO-010-1/1.5R3	Total PCBs	0.465	=	mg/Kg	No
TMD-011	011	TMD-SO-011-0.5/1	Total PCBs	1.885	=	mg/Kg	No
TMD-011	011	TMD-SO-011-0.5/1R2	Total PCBs	1.895	=	mg/Kg	No
TMD-011	011	TMD-SO-011-0.5/1R3	Total PCBs	1.785	=	mg/Kg	No
TMD-011	011	TMD-SO-011-0/0.5/R	Total PCBs	3.105	=	mg/Kg	No
TMD-011	011	TMD-SO-011-0/0.5R1	Total PCBs	2.5	=	mg/Kg	No
TMD-011	011	TMD-SO-011-0/0.5R2	Total PCBs	2.49	=	mg/Kg	No
TMD-011	011	TMD-SO-011-1/1.5R1	Total PCBs	0.57	=	mg/Kg	No
TMD-011	011	TMD-SO-011-1/1.5R2	Total PCBs	0.81	=	mg/Kg	No
TMD-011	011	TMD-SO-011-1/1.5R3	Total PCBs	1.13	=	mg/Kg	No
TMD-012	012	TMD-SO-012-0/0.5	Total PCBs	0.37	U	mg/Kg	No
TMD-012	012	TMD-SO-012-1/1.5	Total PCBs	0.38	U	mg/Kg	No
TMD-013	013	TMD-SO-013-0/0.5	Total PCBs	0.835	=	mg/Kg	No
TMD-013	013	TMD-SO-013-1/1.5	Total PCBs	0.35	U	mg/Kg	No
TMD-014	014	TMD-SO-014-0/0.5	Total PCBs	0.42	U	mg/Kg	No
TMD-014	014	TMD-SO-014-1/1.5	Total PCBs	0.41	U	mg/Kg	No
TMD-015	015	TMD-SO-015-0/0.5	Total PCBs	1.6102	=	mg/Kg	No
TMD-015	015	TMD-SO-015-1/1.5	Total PCBs	0.36	U	mg/Kg	No
TMD-016	016	TMD-SO-016-0/0.5	Total PCBs	0.39	=	mg/Kg	No
TMD-016	016	TMD-SO-016-1.5/2	Total PCBs	0.38	U	mg/Kg	No
TMD-016	016	TMD-SO-016-1/1.5	Total PCBs	3.47	=	mg/Kg	**Yes**
TMD-017	017	TMD-SO-017-0/0.5	Total PCBs	0.38	U	mg/Kg	No
TMD-017	017	TMD-SO-017-1/1.5	Total PCBs	0.39	U	mg/Kg	No
TMD-017	017	TMD-SO-017-2.5/3	Total PCBs	0.42	U	mg/Kg	No
TMD-018	018	TMD-SO-018-1/1.5	Total PCBs	0.0198	U	mg/Kg	No
TMD-019	019	TMD-SO-019-0/0.5R1	Total PCBs	1.19	=	mg/Kg	No
TMD-019	019	TMD-SO-019-0/0.5R2	Total PCBs	1.88	=	mg/Kg	No
TMD-019	019	TMD-SO-019-0/0.5R3	Total PCBs	1.4098	=	mg/Kg	No

TABLE 1

PCB Results in Yards of Residential Properties - Surface Soil (0 - 2 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2,3]
TMD-019	019	TMD-SO-019-1/1.5R1	Total PCBs	0.535	=	mg/Kg	No
TMD-019	019	TMD-SO-019-1/1.5R2	Total PCBs	0.56	=	mg/Kg	No
TMD-019	019	TMD-SO-019-1/1.5R3	Total PCBs	0.81	=	mg/Kg	No
TMD-020	020	TMD-SO-020-0/0.5	Total PCBs	0.36	=	mg/Kg	No
TMD-020	020	TMD-SO-020-1/1.5	Total PCBs	0.68	=	mg/Kg	No
TMD-021	021	TMD-SO-021-0/0.5	Total PCBs	0.4	U	mg/Kg	No
TMD-021	021	TMD-SO-021-1/1.5	Total PCBs	0.0202	U	mg/Kg	No
TMD-022	022	TMD-SO-022-0/0.5	Total PCBs	0.36	U	mg/Kg	No
TMD-022	022	TMD-SO-022-1/1.5	Total PCBs	1.38	=	mg/Kg	No
TMD-023	023	TMD-SO-023-0/0.5	Total PCBs	0.485	=	mg/Kg	No
TMD-023	023	TMD-SO-023-1/1.5	Total PCBs	0.12585	=	mg/Kg	No
TMD-024	024	TMD-SO-024-0/0.5	Total PCBs	0.985	=	mg/Kg	No
TMD-024	024	TMD-SO-024-1/1.5	Total PCBs	0.625	=	mg/Kg	No
TMD-025	025	TMD-SO-025-0/0.5	Total PCBs	1.89	=	mg/Kg	No
TMD-025	025	TMD-SO-025-1/1.5	Total PCBs	0.535	=	mg/Kg	No
TMD-026	026	TMD-SO-026-0/0.5	Total PCBs	1.815	=	mg/Kg	No
TMD-026	026	TMD-SO-026-1/1.5	Total PCBs	0.50045	=	mg/Kg	No
TMD-027	027	TMD-SO-027-0/0.5	Total PCBs	0.63	=	mg/Kg	No
TMD-027	027	TMD-SO-027-1/1.5	Total PCBs	0.75	=	mg/Kg	No
TMD-028	028	TMD-SO-028-0/0.5R1	Total PCBs	0.36	U	mg/Kg	No
TMD-028	028	TMD-SO-028-0/0.5R2	Total PCBs	0.36	U	mg/Kg	No
TMD-028	028	TMD-SO-028-0/0.5R3	Total PCBs	0.35	U	mg/Kg	No
TMD-028	028	TMD-SO-028-1/1.5R1	Total PCBs	0.38	U	mg/Kg	No
TMD-028	028	TMD-SO-028-1/1.5R2	Total PCBs	0.0199	U	mg/Kg	No
TMD-028	028	TMD-SO-028-1/1.5R3	Total PCBs	0.35	U	mg/Kg	No
TMD-029	029	TMD-SO-029-0/0.5	Total PCBs	1.865	=	mg/Kg	No
TMD-029	029	TMD-SO-029-1/1.5	Total PCBs	1.08	=	mg/Kg	No
TMD-030	030	TMD-SO-030-0/0.5	Total PCBs	0.0199	U	mg/Kg	No
TMD-030	030	TMD-SO-030-1/1.5	Total PCBs	0.39	U	mg/Kg	No
TMD-031	031	TMD-SO-031-1/1.5	Total PCBs	0.38	=	mg/Kg	No
TMD-032	032	TMD-SO-032-0/0.5	Total PCBs	1.365	=	mg/Kg	No
TMD-032	032	TMD-SO-032-1/1.5	Total PCBs	0.33	U	mg/Kg	No
TMD-033	033	TMD-SO-033-0.5/1	Total PCBs	0.34	U	mg/Kg	No
TMD-033	033	TMD-SO-033-0/0.5	Total PCBs	2.9106	=	mg/Kg	No
TMD-033	033	TMD-SO-033-1/1.5	Total PCBs	0.68	=	mg/Kg	No
TMD-034	034	TMD-SO-034-0/0.5	Total PCBs	0.35	=	mg/Kg	No
TMD-034	034	TMD-SO-034-1/1.5	Total PCBs	0.3	U	mg/Kg	No
TMD-035	035	TMD-SO-035-0/0.5	Total PCBs	0.4	U	mg/Kg	No
TMD-035	035	TMD-SO-035-1/1.5	Total PCBs	0.34	U	mg/Kg	No
TMD-036	036	TMD-SO-036-0/0.5	Total PCBs	0.0202	U	mg/Kg	No
TMD-036	036	TMD-SO-036-1/1.5	Total PCBs	1.06	=	mg/Kg	No
TMD-037	037	TMD-SO-037-0/0.5	Total PCBs	0.38	U	mg/Kg	No
TMD-037	037	TMD-SO-037-1/1.5	Total PCBs	0.3	U	mg/Kg	No
TMD-038	038	TMD-SO-038-0/0.5	Total PCBs	0.705	=	mg/Kg	No
TMD-038	038	TMD-SO-038-1/1.5	Total PCBs	0.33	U	mg/Kg	No
TMD-039	039	TMD-SO-039-0/0.5	Total PCBs	0.4399	=	mg/Kg	No
TMD-039	039	TMD-SO-039-1/1.5	Total PCBs	0.35	U	mg/Kg	No
TMD-040	040	TMD-SO-040-0/0.5R1	Total PCBs	0.29	U	mg/Kg	No

TABLE 1

PCB Results in Yards of Residential Properties - Surface Soil (0 - 2 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2,3]
TMD-040	040	TMD-SO-040-0/0.5R2	Total PCBs	0.33	U	mg/Kg	No
TMD-040	040	TMD-SO-040-0/0.5R3	Total PCBs	0.0196	U	mg/Kg	No
TMD-040	040	TMD-SO-040-1/1.5R1	Total PCBs	0.34	U	mg/Kg	No
TMD-040	040	TMD-SO-040-1/1.5R2	Total PCBs	0.39	U	mg/Kg	No
TMD-040	040	TMD-SO-040-1/1.5R3	Total PCBs	0.3	U	mg/Kg	No
TMD-041	041	TMD-SO-041-0/0.5R1	Total PCBs	0.32	U	mg/Kg	No
TMD-041	041	TMD-SO-041-0/0.5R2	Total PCBs	0.35	U	mg/Kg	No
TMD-041	041	TMD-SO-041-0/0.5R3	Total PCBs	1.319	=	mg/Kg	No
TMD-041	041	TMD-SO-041-1/1.5R1	Total PCBs	0.64	=	mg/Kg	No
TMD-041	041	TMD-SO-041-1/1.5R2	Total PCBs	0.355	=	mg/Kg	No
TMD-041	041	TMD-SO-041-1/1.5R3	Total PCBs	0.33	U	mg/Kg	No
TMD-043	043	TMD-SO-043-0/0.5	Total PCBs	4.98	=	mg/Kg	**Yes**
TMD-043	043	TMD-SO-043-1.5/2	Total PCBs	7.19	=	mg/Kg	**Yes**
TMD-043	043	TMD-SO-043-1/1.5	Total PCBs	8.19	=	mg/Kg	**Yes**
TMD-045	045	TMD-SO-045-0/0.5	Total PCBs	2.37	=	mg/Kg	No
TMD-045	045	TMD-SO-045-1/1.5	Total PCBs	0.39	U	mg/Kg	No
TMD-049	049	TMD-SO-049-0/0.5	Total PCBs	2.195	=	mg/Kg	No
TMD-049	049	TMD-SO-049-1.5/2	Total PCBs	0.3831	=	mg/Kg	No
TMD-049	049	TMD-SO-049-1/1.5	Total PCBs	1.8	=	mg/Kg	No
TMD-052	052	TMD-SO-052-0/0.5	Total PCBs	7.8	=	mg/Kg	**Yes**
TMD-052	052	TMD-SO-052-1/1.5	Total PCBs	0.38	U	mg/Kg	No
TMD-054	054	TMD-SO-054-0/0.5	Total PCBs	2.985	=	mg/Kg	No
TMD-054	054	TMD-SO-054-1.5/2	Total PCBs	0.936	=	mg/Kg	No
TMD-054	054	TMD-SO-054-1/1.5	Total PCBs	3.3	=	mg/Kg	No
TMD-056	056	TMD-SO-056-0/0.5	Total PCBs	1.155	=	mg/Kg	No
TMD-056	056	TMD-SO-056-1/1.5	Total PCBs	0.63	=	mg/Kg	No
TMD-058	058	TMD-SO-058-0/0.5	Total PCBs	0.885	=	mg/Kg	No
TMD-058	058	TMD-SO-058-1/1.5	Total PCBs	0.34	U	mg/Kg	No
TMD-060	060	TMD-SO-060-0/0.5R1	Total PCBs	0.69	=	mg/Kg	No
TMD-060	060	TMD-SO-060-0/0.5R2	Total PCBs	0.31	U	mg/Kg	No
TMD-060	060	TMD-SO-060-0/0.5R3	Total PCBs	0.96	=	mg/Kg	No
TMD-060	060	TMD-SO-060-1/1.5R1	Total PCBs	0.3	U	mg/Kg	No
TMD-060	060	TMD-SO-060-1/1.5R2	Total PCBs	0.32	U	mg/Kg	No
TMD-060	060	TMD-SO-060-1/1.5R3	Total PCBs	0.36	U	mg/Kg	No
TMD-062	062	TMD-SO-062-0/0.5	Total PCBs	0.3	U	mg/Kg	No
TMD-062	062	TMD-SO-062-1/1.5	Total PCBs	0.3	U	mg/Kg	No
TMD-064	064	TMD-SO-064-0/0.5	Total PCBs	0.705	=	mg/Kg	No
TMD-064	064	TMD-SO-064-1/1.5	Total PCBs	1.6	=	mg/Kg	No
TMD-066	066	TMD-SO-066-0/0.5	Total PCBs	1.11	=	mg/Kg	No
TMD-066	066	TMD-SO-066-1/1.5	Total PCBs	1.519	=	mg/Kg	No
TMD-067	067	TMD-SO-067-0/0.5	Total PCBs	1.73	=	mg/Kg	No
TMD-067	067	TMD-SO-067-1/1.5	Total PCBs	0.74	=	mg/Kg	No
TMD-070	070	TMD-SO-070-0/0.5	Total PCBs	0.37	U	mg/Kg	No
TMD-070	070	TMD-SO-070-1/1.5	Total PCBs	0.81	=	mg/Kg	No
TMD-072	072	TMD-SO-072-0/0.5	Total PCBs	0.34	U	mg/Kg	No
TMD-072	072	TMD-SO-072-1/1.5	Total PCBs	0.28	U	mg/Kg	No
TMD-073	073	TMD-SO-073-0/0.5	Total PCBs	0.3	U	mg/Kg	No
TMD-073	073	TMD-SO-073-1/1.5	Total PCBs	0.34	U	mg/Kg	No

TABLE 1

PCB Results in Yards of Residential Properties - Surface Soil (0 - 2 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2,3]
TMD-074	074	TMD-SO-074-0/0.5R1	Total PCBs	2.18	=	mg/Kg	No
TMD-074	074	TMD-SO-074-0/0.5R2	Total PCBs	1.08	=	mg/Kg	No
TMD-074	074	TMD-SO-074-0/0.5R3	Total PCBs	0.73	=	mg/Kg	No
TMD-074	074	TMD-SO-074-1/1.5R1	Total PCBs	0.5	=	mg/Kg	No
TMD-074	074	TMD-SO-074-1/1.5R2	Total PCBs	0.536	=	mg/Kg	No
TMD-074	074	TMD-SO-074-1/1.5R3	Total PCBs	0.38	=	mg/Kg	No
TMD-075	075	TMD-SO-075-0/0.5	Total PCBs	0.33	U	mg/Kg	No
TMD-075	075	TMD-SO-075-1/1.5	Total PCBs	0.91	=	mg/Kg	No
TMD-077	077	TMD-SO-077-0/0.5	Total PCBs	9.4	=	mg/Kg	**Yes**
TMD-077	077	TMD-SO-077-1/1.5	Total PCBs	0.355	=	mg/Kg	No
TMD-078	078	TMD-SO-078-0/0.5R1	Total PCBs	3	=	mg/Kg	No
TMD-078	078	TMD-SO-078-0/0.5R2	Total PCBs	1.96	=	mg/Kg	No
TMD-078	078	TMD-SO-078-0/0.5R3	Total PCBs	3.9	=	mg/Kg	**Yes**
TMD-078	078	TMD-SO-078-1/1.5R1	Total PCBs	1.53	=	mg/Kg	No
TMD-078	078	TMD-SO-078-1/1.5R2	Total PCBs	1.33	=	mg/Kg	No
TMD-078	078	TMD-SO-078-1/1.5R3	Total PCBs	0.82	=	mg/Kg	No
TMD-080	080	TMD-SO-080-0/0.5	Total PCBs	0.29	U	mg/Kg	No
TMD-080	080	TMD-SO-080-1/1.5	Total PCBs	0.33	U	mg/Kg	No
TMD-082	082	TMD-SO-082-0/0.5	Total PCBs	0.38	U	mg/Kg	No
TMD-082	082	TMD-SO-082-1/1.5	Total PCBs	0.29	U	mg/Kg	No
TMD-084	084	TMD-SO-084-0/0.5	Total PCBs	0.019	U	mg/Kg	No
TMD-084	084	TMD-SO-084-1/1.5	Total PCBs	0.33	U	mg/Kg	No

Notes:

[1] Total PCBs represent the sum of individual Aroclor analyses for each sample.

[2] Detected results were compared to the Michigan Department of Environmental Quality residential cleanup cr

[3] EPA has concluded that a field screening concentration of 3.4 ppm in residential yards or parkways is equivalent to 4 ppm in a fixed laboratory (for comparison to the residential cleanup level). Therefore, if a sample >3.4 ppm, it is considered to exceed 4 ppm.

U - Not Detected

= - Detect

mg/Kg - milligram per kilogram

TABLE 2

PCB Results in Yards of Residential Properties - Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-003	003	TMD-SO-003-0/0.5	Total PCBs	0.42	U	mg/Kg	No
TMD-003	003	TMD-SO-003-1/1.5	Total PCBs	0.39	U	mg/Kg	No
TMD-003	003	TMD-SO-003-2.5/3	Total PCBs	0.38	U	mg/Kg	No
TMD-004	004	TMD-SO-004-0/0.5	Total PCBs	0.39	U	mg/Kg	No
TMD-004	004	TMD-SO-004-1/1.5	Total PCBs	0.39	U	mg/Kg	No
TMD-004	004	TMD-SO-004-2.5/3	Total PCBs	0.38	U	mg/Kg	No
TMD-005	005	TMD-SO-005-0.5/1	Total PCBs	0.6604	=	mg/Kg	No
TMD-005	005	TMD-SO-005-0/0.5	Total PCBs	1.49	=	mg/Kg	No
TMD-005	005	TMD-SO-005-1/1.5	Total PCBs	0.39	U	mg/Kg	No
TMD-005	005	TMD-SO-005-2.5/3	Total PCBs	0.39	U	mg/Kg	No
TMD-006	006	TMD-SO-006-0/0.5	Total PCBs	0.0209	U	mg/Kg	No
TMD-006	006	TMD-SO-006-1/1.5	Total PCBs	0.38	U	mg/Kg	No
TMD-006	006	TMD-SO-006-2.5/3	Total PCBs	0.39	U	mg/Kg	No
TMD-007	007	TMD-SO-007-0/0.5	Total PCBs	0.36	U	mg/Kg	No
TMD-007	007	TMD-SO-007-1/1.5	Total PCBs	0.37	U	mg/Kg	No
TMD-007	007	TMD-SO-007-2.5/3	Total PCBs	0.36	U	mg/Kg	No
TMD-008	008	TMD-SO-008-0/0.5	Total PCBs	0.38	U	mg/Kg	No
TMD-008	008	TMD-SO-008-1/1.5	Total PCBs	0.4	U	mg/Kg	No
TMD-008	008	TMD-SO-008-2.5/3	Total PCBs	0.38	U	mg/Kg	No
TMD-009	009	TMD-SO-009-0/0.5	Total PCBs	0.58	=	mg/Kg	No
TMD-009	009	TMD-SO-009-1/1.5	Total PCBs	0.0207	U	mg/Kg	No
TMD-009	009	TMD-SO-009-2.5/3	Total PCBs	0.44	U	mg/Kg	No
TMD-010	010	TMD-SO-010-0/0.5R1	Total PCBs	1.8	=	mg/Kg	No
TMD-010	010	TMD-SO-010-0/0.5R2	Total PCBs	1.4	=	mg/Kg	No
TMD-010	010	TMD-SO-010-0/0.5R3	Total PCBs	2.305	=	mg/Kg	No
TMD-010	010	TMD-SO-010-1/1.5R1	Total PCBs	0.505	=	mg/Kg	No
TMD-010	010	TMD-SO-010-1/1.5R2	Total PCBs	0.465	=	mg/Kg	No
TMD-010	010	TMD-SO-010-1/1.5R3	Total PCBs	0.465	=	mg/Kg	No
TMD-010	010	TMD-SO-010-2.5/3R1	Total PCBs	0.38	U	mg/Kg	No
TMD-010	010	TMD-SO-010-2.5/3R2	Total PCBs	0.4	U	mg/Kg	No
TMD-010	010	TMD-SO-010-2.5/3R3	Total PCBs	0.4	=	mg/Kg	No
TMD-010	010	TMD-SO-010-2/2.5-R3	Total PCBs	0.405	=	mg/Kg	No
TMD-011	011	TMD-SO-011-0.5/1	Total PCBs	1.885	=	mg/Kg	No
TMD-011	011	TMD-SO-011-0.5/1R2	Total PCBs	1.895	=	mg/Kg	No
TMD-011	011	TMD-SO-011-0.5/1R3	Total PCBs	1.785	=	mg/Kg	No
TMD-011	011	TMD-SO-011-0/0.5/R3	Total PCBs	3.105	=	mg/Kg	No
TMD-011	011	TMD-SO-011-0/0.5R1	Total PCBs	2.5	=	mg/Kg	No
TMD-011	011	TMD-SO-011-0/0.5R2	Total PCBs	2.49	=	mg/Kg	No
TMD-011	011	TMD-SO-011-1/1.5R1	Total PCBs	0.57	=	mg/Kg	No
TMD-011	011	TMD-SO-011-1/1.5R2	Total PCBs	0.81	=	mg/Kg	No
TMD-011	011	TMD-SO-011-1/1.5R3	Total PCBs	1.13	=	mg/Kg	No
TMD-011	011	TMD-SO-011-2.5/3R1	Total PCBs	0.465	=	mg/Kg	No
TMD-011	011	TMD-SO-011-2.5/3R2	Total PCBs	0.67	=	mg/Kg	No
TMD-011	011	TMD-SO-011-2.5/3R3	Total PCBs	0.0198	U	mg/Kg	No
TMD-012	012	TMD-SO-012-0/0.5	Total PCBs	0.37	U	mg/Kg	No
TMD-012	012	TMD-SO-012-1/1.5	Total PCBs	0.38	U	mg/Kg	No
TMD-012	012	TMD-SO-012-2.5/3	Total PCBs	0.35	U	mg/Kg	No
TMD-013	013	TMD-SO-013-0/0.5	Total PCBs	0.835	=	mg/Kg	No
TMD-013	013	TMD-SO-013-1/1.5	Total PCBs	0.35	U	mg/Kg	No
TMD-013	013	TMD-SO-013-2.5/3	Total PCBs	0.725	=	mg/Kg	No
TMD-014	014	TMD-SO-014-0/0.5	Total PCBs	0.42	U	mg/Kg	No

TABLE 2

PCB Results in Yards of Residential Properties - Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-014	014	TMD-SO-014-1/1.5	Total PCBs	0.41	U	mg/Kg	No
TMD-014	014	TMD-SO-014-2.5/3	Total PCBs	0.39	U	mg/Kg	No
TMD-015	015	TMD-SO-015-0/0.5	Total PCBs	1.6102	=	mg/Kg	No
TMD-015	015	TMD-SO-015-1/1.5	Total PCBs	0.36	U	mg/Kg	No
TMD-015	015	TMD-SO-015-2.5/3	Total PCBs	0.34	U	mg/Kg	No
TMD-016	016	TMD-SO-016-0/0.5	Total PCBs	0.39	=	mg/Kg	No
TMD-016	016	TMD-SO-016-1.5/2	Total PCBs	0.38	U	mg/Kg	No
TMD-016	016	TMD-SO-016-1/1.5	Total PCBs	3.47	=	mg/Kg	**Yes**
TMD-016	016	TMD-SO-016-2.5/3	Total PCBs	0.38	U	mg/Kg	No
TMD-017	017	TMD-SO-017-0/0.5	Total PCBs	0.38	U	mg/Kg	No
TMD-017	017	TMD-SO-017-1/1.5	Total PCBs	0.39	U	mg/Kg	No
TMD-017	017	TMD-SO-017-2.5/3	Total PCBs	0.42	U	mg/Kg	No
TMD-018	018	TMD-SO-018-0/0.5	Total PCBs	0.36	U	mg/Kg	No
TMD-018	018	TMD-SO-018-1/1.5	Total PCBs	0.0198	U	mg/Kg	No
TMD-018	018	TMD-SO-018-2.5/3	Total PCBs	0.39	U	mg/Kg	No
TMD-019	019	TMD-SO-019-0/0.5R1	Total PCBs	1.19	=	mg/Kg	No
TMD-019	019	TMD-SO-019-0/0.5R2	Total PCBs	1.88	=	mg/Kg	No
TMD-019	019	TMD-SO-019-0/0.5R3	Total PCBs	1.4098	=	mg/Kg	No
TMD-019	019	TMD-SO-019-1/1.5R1	Total PCBs	0.535	=	mg/Kg	No
TMD-019	019	TMD-SO-019-1/1.5R2	Total PCBs	0.56	=	mg/Kg	No
TMD-019	019	TMD-SO-019-1/1.5R3	Total PCBs	0.81	=	mg/Kg	No
TMD-019	019	TMD-SO-019-2.5/3R2	Total PCBs	0.42	=	mg/Kg	No
TMD-019	019	TMD-SO-019-2.5/3R3	Total PCBs	0.41	U	mg/Kg	No
TMD-020	020	TMD-SO-020-0/0.5	Total PCBs	0.36	=	mg/Kg	No
TMD-020	020	TMD-SO-020-1/1.5	Total PCBs	0.68	=	mg/Kg	No
TMD-020	020	TMD-SO-020-2.5/3	Total PCBs	0.39	U	mg/Kg	No
TMD-020	020	TMD-SO-020-2.5/3R1	Total PCBs	0.37	U	mg/Kg	No
TMD-021	021	TMD-SO-021-0/0.5	Total PCBs	0.4	U	mg/Kg	No
TMD-021	021	TMD-SO-021-1/1.5	Total PCBs	0.0202	U	mg/Kg	No
TMD-021	021	TMD-SO-021-2.5/3	Total PCBs	0.38	U	mg/Kg	No
TMD-022	022	TMD-SO-022-0/0.5	Total PCBs	0.36	U	mg/Kg	No
TMD-022	022	TMD-SO-022-1/1.5	Total PCBs	1.38	=	mg/Kg	No
TMD-022	022	TMD-SO-022-2.5/3	Total PCBs	0.4	U	mg/Kg	No
TMD-023	023	TMD-SO-023-0/0.5	Total PCBs	0.485	=	mg/Kg	No
TMD-023	023	TMD-SO-023-1/1.5	Total PCBs	0.12585	=	mg/Kg	No
TMD-023	023	TMD-SO-023-2.5/3	Total PCBs	0.49	=	mg/Kg	No
TMD-024	024	TMD-SO-024-0/0.5	Total PCBs	0.985	=	mg/Kg	No
TMD-024	024	TMD-SO-024-1/1.5	Total PCBs	0.625	=	mg/Kg	No
TMD-024	024	TMD-SO-024-2.5/3	Total PCBs	0.4	U	mg/Kg	No
TMD-025	025	TMD-SO-025-0/0.5	Total PCBs	1.89	=	mg/Kg	No
TMD-025	025	TMD-SO-025-1/1.5	Total PCBs	0.535	=	mg/Kg	No
TMD-025	025	TMD-SO-025-2.5/3	Total PCBs	0.515	=	mg/Kg	No
TMD-026	026	TMD-SO-026-0/0.5	Total PCBs	1.815	=	mg/Kg	No
TMD-026	026	TMD-SO-026-1/1.5	Total PCBs	0.50045	=	mg/Kg	No
TMD-026	026	TMD-SO-026-2.5/3	Total PCBs	0.695	=	mg/Kg	No
TMD-027	027	TMD-SO-027-0/0.5	Total PCBs	0.63	=	mg/Kg	No
TMD-027	027	TMD-SO-027-1/1.5	Total PCBs	0.75	=	mg/Kg	No
TMD-027	027	TMD-SO-027-2.5/3	Total PCBs	0.41	U	mg/Kg	No
TMD-028	028	TMD-SO-028-0/0.5R1	Total PCBs	0.36	U	mg/Kg	No
TMD-028	028	TMD-SO-028-0/0.5R2	Total PCBs	0.36	U	mg/Kg	No
TMD-028	028	TMD-SO-028-0/0.5R3	Total PCBs	0.35	U	mg/Kg	No

TABLE 2

PCB Results in Yards of Residential Properties - Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-028	028	TMD-SO-028-1/1.5R1	Total PCBs	0.38	U	mg/Kg	No
TMD-028	028	TMD-SO-028-1/1.5R2	Total PCBs	0.0199	U	mg/Kg	No
TMD-028	028	TMD-SO-028-1/1.5R3	Total PCBs	0.35	U	mg/Kg	No
TMD-028	028	TMD-SO-028-2.5/3R1	Total PCBs	0.4	U	mg/Kg	No
TMD-028	028	TMD-SO-028-2.5/3R2	Total PCBs	0.4	U	mg/Kg	No
TMD-028	028	TMD-SO-028-2.5/3R3	Total PCBs	0.29	U	mg/Kg	No
TMD-029	029	TMD-SO-029-0/0.5	Total PCBs	1.865	=	mg/Kg	No
TMD-029	029	TMD-SO-029-1/1.5	Total PCBs	1.08	=	mg/Kg	No
TMD-029	029	TMD-SO-029-2.5/3	Total PCBs	0.585	=	mg/Kg	No
TMD-030	030	TMD-SO-030-0/0.5	Total PCBs	0.0199	U	mg/Kg	No
TMD-030	030	TMD-SO-030-1/1.5	Total PCBs	0.39	U	mg/Kg	No
TMD-030	030	TMD-SO-030-2.5/3	Total PCBs	0.4	U	mg/Kg	No
TMD-031	031	TMD-SO-031-0/0.5	Total PCBs	0.49	=	mg/Kg	No
TMD-031	031	TMD-SO-031-1/1.5	Total PCBs	0.38	=	mg/Kg	No
TMD-031	031	TMD-SO-031-2.5/3	Total PCBs	0.725	=	mg/Kg	No
TMD-032	032	TMD-SO-032-0/0.5	Total PCBs	1.365	=	mg/Kg	No
TMD-032	032	TMD-SO-032-1/1.5	Total PCBs	0.33	U	mg/Kg	No
TMD-032	032	TMD-SO-032-2.5/3	Total PCBs	0.41	=	mg/Kg	No
TMD-033	033	TMD-SO-033-0.5/1	Total PCBs	0.34	U	mg/Kg	No
TMD-033	033	TMD-SO-033-0/0.5	Total PCBs	2.9106	=	mg/Kg	No
TMD-033	033	TMD-SO-033-1/1.5	Total PCBs	0.68	=	mg/Kg	No
TMD-033	033	TMD-SO-033-2.5/3	Total PCBs	0.45	=	mg/Kg	No
TMD-034	034	TMD-SO-034-0/0.5	Total PCBs	0.35	=	mg/Kg	No
TMD-034	034	TMD-SO-034-1/1.5	Total PCBs	0.3	U	mg/Kg	No
TMD-034	034	TMD-SO-034-2.5/3	Total PCBs	0.32	U	mg/Kg	No
TMD-035	035	TMD-SO-035-0/0.5	Total PCBs	0.4	U	mg/Kg	No
TMD-035	035	TMD-SO-035-1/1.5	Total PCBs	0.34	U	mg/Kg	No
TMD-035	035	TMD-SO-035-2.5/3	Total PCBs	0.28	U	mg/Kg	No
TMD-036	036	TMD-SO-036-0/0.5	Total PCBs	0.0202	U	mg/Kg	No
TMD-036	036	TMD-SO-036-1/1.5	Total PCBs	1.06	=	mg/Kg	No
TMD-036	036	TMD-SO-036-2.5/3	Total PCBs	0.41	=	mg/Kg	No
TMD-037	037	TMD-SO-037-0/0.5	Total PCBs	0.38	U	mg/Kg	No
TMD-037	037	TMD-SO-037-1/1.5	Total PCBs	0.3	U	mg/Kg	No
TMD-037	037	TMD-SO-037-2.5/3	Total PCBs	0.26	U	mg/Kg	No
TMD-038	038	TMD-SO-038-0/0.5	Total PCBs	0.705	=	mg/Kg	No
TMD-038	038	TMD-SO-038-1/1.5	Total PCBs	0.33	U	mg/Kg	No
TMD-038	038	TMD-SO-038-2.5/3	Total PCBs	0.37	U	mg/Kg	No
TMD-039	039	TMD-SO-039-0/0.5	Total PCBs	0.4399	=	mg/Kg	No
TMD-039	039	TMD-SO-039-1/1.5	Total PCBs	0.35	U	mg/Kg	No
TMD-039	039	TMD-SO-039-2.5/3	Total PCBs	0.34	U	mg/Kg	No
TMD-040	040	TMD-SO-040-0/0.5R1	Total PCBs	0.29	U	mg/Kg	No
TMD-040	040	TMD-SO-040-0/0.5R2	Total PCBs	0.33	U	mg/Kg	No
TMD-040	040	TMD-SO-040-0/0.5R3	Total PCBs	0.0196	U	mg/Kg	No
TMD-040	040	TMD-SO-040-1/1.5R1	Total PCBs	0.34	U	mg/Kg	No
TMD-040	040	TMD-SO-040-1/1.5R2	Total PCBs	0.39	U	mg/Kg	No
TMD-040	040	TMD-SO-040-1/1.5R3	Total PCBs	0.3	U	mg/Kg	No
TMD-040	040	TMD-SO-040-2.5/3R1	Total PCBs	0.32	U	mg/Kg	No
TMD-040	040	TMD-SO-040-2.5/3R2	Total PCBs	0.37	U	mg/Kg	No
TMD-040	040	TMD-SO-040-2.5/3R3	Total PCBs	0.35	U	mg/Kg	No
TMD-041	041	TMD-SO-041-0/0.5R1	Total PCBs	0.32	U	mg/Kg	No
TMD-041	041	TMD-SO-041-0/0.5R2	Total PCBs	0.35	U	mg/Kg	No

TABLE 2

PCB Results in Yards of Residential Properties - Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-041	041	TMD-SO-041-0/0.5R3	Total PCBs	1.319	=	mg/Kg	No
TMD-041	041	TMD-SO-041-1/1.5R1	Total PCBs	0.64	=	mg/Kg	No
TMD-041	041	TMD-SO-041-1/1.5R2	Total PCBs	0.355	=	mg/Kg	No
TMD-041	041	TMD-SO-041-1/1.5R3	Total PCBs	0.33	U	mg/Kg	No
TMD-041	041	TMD-SO-041-2.5/3R1	Total PCBs	0.38	U	mg/Kg	No
TMD-041	041	TMD-SO-041-2.5/3R2	Total PCBs	0.34	U	mg/Kg	No
TMD-041	041	TMD-SO-041-2.5/3R3	Total PCBs	0.37	U	mg/Kg	No
TMD-043	043	TMD-SO-043-0/0.5	Total PCBs	4.98	=	mg/Kg	**Yes**
TMD-043	043	TMD-SO-043-1.5/2	Total PCBs	7.19	=	mg/Kg	**Yes**
TMD-043	043	TMD-SO-043-1/1.5	Total PCBs	8.19	=	mg/Kg	**Yes**
TMD-045	045	TMD-SO-045-0/0.5	Total PCBs	2.37	=	mg/Kg	No
TMD-045	045	TMD-SO-045-1/1.5	Total PCBs	0.39	U	mg/Kg	No
TMD-046	046	TMD-SO-046-0/0.5	Total PCBs	2.405	=	mg/Kg	No
TMD-046	046	TMD-SO-046-1/1.5	Total PCBs	1.395	=	mg/Kg	No
TMD-047	047	TMD-SO-047-0/0.5	Total PCBs	6.48	=	mg/Kg	**Yes**
TMD-047	047	TMD-SO-047-1.5/2	Total PCBs	1.005	=	mg/Kg	No
TMD-047	047	TMD-SO-047-1/1.5	Total PCBs	7.9	=	mg/Kg	**Yes**
TMD-049	049	TMD-SO-049-0/0.5	Total PCBs	2.195	=	mg/Kg	No
TMD-049	049	TMD-SO-049-1.5/2	Total PCBs	0.3831	=	mg/Kg	No
TMD-049	049	TMD-SO-049-1/1.5	Total PCBs	1.8	=	mg/Kg	No
TMD-052	052	TMD-SO-052-0/0.5	Total PCBs	7.8	=	mg/Kg	**Yes**
TMD-052	052	TMD-SO-052-1/1.5	Total PCBs	0.38	U	mg/Kg	No
TMD-054	054	TMD-SO-054-0/0.5	Total PCBs	2.985	=	mg/Kg	No
TMD-054	054	TMD-SO-054-1.5/2	Total PCBs	0.936	=	mg/Kg	No
TMD-054	054	TMD-SO-054-1/1.5	Total PCBs	3.3	=	mg/Kg	No
TMD-056	056	TMD-SO-056-0/0.5	Total PCBs	1.155	=	mg/Kg	No
TMD-056	056	TMD-SO-056-1/1.5	Total PCBs	0.63	=	mg/Kg	No
TMD-058	058	TMD-SO-058-0/0.5	Total PCBs	0.885	=	mg/Kg	No
TMD-058	058	TMD-SO-058-1/1.5	Total PCBs	0.34	U	mg/Kg	No
TMD-058	058	TMD-SO-058-2.5/3	Total PCBs	0.37	U	mg/Kg	No
TMD-060	060	TMD-SO-060-0/0.5R1	Total PCBs	0.69	=	mg/Kg	No
TMD-060	060	TMD-SO-060-0/0.5R2	Total PCBs	0.31	U	mg/Kg	No
TMD-060	060	TMD-SO-060-0/0.5R3	Total PCBs	0.96	=	mg/Kg	No
TMD-060	060	TMD-SO-060-1/1.5R1	Total PCBs	0.3	U	mg/Kg	No
TMD-060	060	TMD-SO-060-1/1.5R2	Total PCBs	0.32	U	mg/Kg	No
TMD-060	060	TMD-SO-060-1/1.5R3	Total PCBs	0.36	U	mg/Kg	No
TMD-060	060	TMD-SO-060-2.5/3R1	Total PCBs	0.37	U	mg/Kg	No
TMD-060	060	TMD-SO-060-2.5/3R2	Total PCBs	0.27	U	mg/Kg	No
TMD-060	060	TMD-SO-060-2.5/3R3	Total PCBs	0.33	U	mg/Kg	No
TMD-062	062	TMD-SO-062-0/0.5	Total PCBs	0.3	U	mg/Kg	No
TMD-062	062	TMD-SO-062-1/1.5	Total PCBs	0.3	U	mg/Kg	No
TMD-062	062	TMD-SO-062-2.5/3	Total PCBs	0.3	U	mg/Kg	No
TMD-064	064	TMD-SO-064-0/0.5	Total PCBs	0.705	=	mg/Kg	No
TMD-064	064	TMD-SO-064-1/1.5	Total PCBs	1.6	=	mg/Kg	No
TMD-064	064	TMD-SO-064-2.5/3	Total PCBs	0.34	U	mg/Kg	No
TMD-066	066	TMD-SO-066-0/0.5	Total PCBs	1.11	=	mg/Kg	No
TMD-066	066	TMD-SO-066-1/1.5	Total PCBs	1.519	=	mg/Kg	No
TMD-066	066	TMD-SO-066-2.5/3	Total PCBs	0.33	U	mg/Kg	No
TMD-067	067	TMD-SO-067-0/0.5	Total PCBs	1.73	=	mg/Kg	No
TMD-067	067	TMD-SO-067-1/1.5	Total PCBs	0.74	=	mg/Kg	No
TMD-067	067	TMD-SO-067-2.5/3	Total PCBs	0.33	U	mg/Kg	No

TABLE 2

PCB Results in Yards of Residential Properties - Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-070	070	TMD-SO-070-0/0.5	Total PCBs	0.37	U	mg/Kg	No
TMD-070	070	TMD-SO-070-1/1.5	Total PCBs	0.81	=	mg/Kg	No
TMD-070	070	TMD-SO-070-2.5/3	Total PCBs	0.545	=	mg/Kg	No
TMD-072	072	TMD-SO-072-0/0.5	Total PCBs	0.34	U	mg/Kg	No
TMD-072	072	TMD-SO-072-1/1.5	Total PCBs	0.28	U	mg/Kg	No
TMD-072	072	TMD-SO-072-2.5/3	Total PCBs	0.29	U	mg/Kg	No
TMD-073	073	TMD-SO-073-0/0.5	Total PCBs	0.3	U	mg/Kg	No
TMD-073	073	TMD-SO-073-1/1.5	Total PCBs	0.34	U	mg/Kg	No
TMD-073	073	TMD-SO-073-2.5/3	Total PCBs	0.27	U	mg/Kg	No
TMD-074	074	TMD-SO-074-0/0.5R1	Total PCBs	2.18	=	mg/Kg	No
TMD-074	074	TMD-SO-074-0/0.5R2	Total PCBs	1.08	=	mg/Kg	No
TMD-074	074	TMD-SO-074-0/0.5R3	Total PCBs	0.73	=	mg/Kg	No
TMD-074	074	TMD-SO-074-1/1.5R1	Total PCBs	0.5	=	mg/Kg	No
TMD-074	074	TMD-SO-074-1/1.5R2	Total PCBs	0.536	=	mg/Kg	No
TMD-074	074	TMD-SO-074-1/1.5R3	Total PCBs	0.38	=	mg/Kg	No
TMD-074	074	TMD-SO-074-2.5/3R1	Total PCBs	0.27	U	mg/Kg	No
TMD-074	074	TMD-SO-074-2.5/3R2	Total PCBs	0.32	U	mg/Kg	No
TMD-074	074	TMD-SO-074-2.5/3R3	Total PCBs	0.35	U	mg/Kg	No
TMD-075	075	TMD-SO-075-0/0.5	Total PCBs	0.33	U	mg/Kg	No
TMD-075	075	TMD-SO-075-1/1.5	Total PCBs	0.91	=	mg/Kg	No
TMD-077	077	TMD-SO-077-0/0.5	Total PCBs	9.4	=	mg/Kg	**Yes**
TMD-077	077	TMD-SO-077-1/1.5	Total PCBs	0.355	=	mg/Kg	No
TMD-077	077	TMD-SO-077-2.5/3	Total PCBs	0.3295	=	mg/Kg	No
TMD-078	078	TMD-SO-078-0/0.5R1	Total PCBs	3	=	mg/Kg	No
TMD-078	078	TMD-SO-078-0/0.5R2	Total PCBs	1.96	=	mg/Kg	No
TMD-078	078	TMD-SO-078-0/0.5R3	Total PCBs	3.9	=	mg/Kg	**Yes**
TMD-078	078	TMD-SO-078-1/1.5R1	Total PCBs	1.53	=	mg/Kg	No
TMD-078	078	TMD-SO-078-1/1.5R2	Total PCBs	1.33	=	mg/Kg	No
TMD-078	078	TMD-SO-078-1/1.5R3	Total PCBs	0.82	=	mg/Kg	No
TMD-078	078	TMD-SO-078-2.5/3R1	Total PCBs	0.34	U	mg/Kg	No
TMD-078	078	TMD-SO-078-2.5/3R2	Total PCBs	0.34	U	mg/Kg	No
TMD-078	078	TMD-SO-078-2.5/3R3	Total PCBs	0.35	U	mg/Kg	No
TMD-080	080	TMD-SO-080-0/0.5	Total PCBs	0.29	U	mg/Kg	No
TMD-080	080	TMD-SO-080-1/1.5	Total PCBs	0.33	U	mg/Kg	No
TMD-082	082	TMD-SO-082-0/0.5	Total PCBs	0.38	U	mg/Kg	No
TMD-082	082	TMD-SO-082-1/1.5	Total PCBs	0.29	U	mg/Kg	No
TMD-084	084	TMD-SO-084-0/0.5	Total PCBs	0.019	U	mg/Kg	No
TMD-084	084	TMD-SO-084-1/1.5	Total PCBs	0.33	U	mg/Kg	No

[1] Total PCBs represent the sum of individual Aroclor analyses for each sample.

[2] Detected results were compared to the Michigan Department of Environmental Quality residential cleanup cr

[3] EPA has concluded that a field screening concentration of 3.4 ppm in residential yards or parkways is equivalent to 4 ppm in a fixed laboratory (for comparison to the residential cleanup level). Therefore, if a sample >3.4 ppm, it is considered to exceed 4 ppm.

U - Not Detected

= - Detect

mg/Kg - milligram per kilogram

TABLE 3

PCB Results in Parkways of Residential Properties - Surface Soil (0 - 2 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-002-27	002	TMD-SO-002-27-0/1	Total PCBs	89.195	=	mg/Kg	**Yes**
TMD-002-28	002	TMD-SO-002-28-0/1	Total PCBs	38.19	=	mg/Kg	**Yes**
TMD-044	044	TMD-SO-044-0/0.5	Total PCBs	14.18	=	mg/Kg	**Yes**
TMD-044	044	TMD-SO-044-1.5/2	Total PCBs	1.265	=	mg/Kg	No
TMD-044	044	TMD-SO-044-1/1.5	Total PCBs	2.58	=	mg/Kg	No
TMD-050	050	TMD-SO-050-0/0.5	Total PCBs	3.475	=	mg/Kg	**Yes**
TMD-050	050	TMD-SO-050-1.5/2	Total PCBs	1.02	=	mg/Kg	No
TMD-050	050	TMD-SO-050-1/1.5	Total PCBs	3.19	=	mg/Kg	No
TMD-051	051	TMD-SO-051-0/0.5	Total PCBs	8.895	=	mg/Kg	**Yes**
TMD-051	051	TMD-SO-051-1.5/2	Total PCBs	0.244	=	mg/Kg	No
TMD-051	051	TMD-SO-051-1/1.5	Total PCBs	3.97	=	mg/Kg	**Yes**
TMD-053	053	TMD-SO-053-1.5/2	Total PCBs	11.89	=	mg/Kg	**Yes**
TMD-059	059	TMD-SO-059-0/0.5	Total PCBs	1.7	=	mg/Kg	No
TMD-059	059	TMD-SO-059-1/1.5	Total PCBs	0.46	=	mg/Kg	No
TMD-061	061	TMD-SO-061-0/0.5	Total PCBs	2.7	=	mg/Kg	No
TMD-061	061	TMD-SO-061-1/1.5	Total PCBs	0.53	=	mg/Kg	No
TMD-071	071	TMD-SO-071-0/0.5	Total PCBs	5.6	=	mg/Kg	**Yes**
TMD-071	071	TMD-SO-071-1/1.5	Total PCBs	0.31	U	mg/Kg	No
TMD-079	079	TMD-SO-079-0/0.5	Total PCBs	0.36	U	mg/Kg	No
TMD-079	079	TMD-SO-079-1/1.5	Total PCBs	0.0192	U	mg/Kg	No
TMD-081	081	TMD-SO-081-0/0.5	Total PCBs	0.47	=	mg/Kg	No
TMD-081	081	TMD-SO-081-1/1.5	Total PCBs	0.29	U	mg/Kg	No
TMD-083	083	TMD-SO-083-0/0.5	Total PCBs	0.39	U	mg/Kg	No
TMD-083	083	TMD-SO-083-1/1.5	Total PCBs	0.26	U	mg/Kg	No
TMD-085	085	TMD-SO-085-0/0.5	Total PCBs	5.6	=	mg/Kg	**Yes**
TMD-086	086	TMD-SO-086-0/0.5	Total PCBs	1.625	=	mg/Kg	No
TMD-087	087	TMD-SO-087-0/0.5	Total PCBs	1.59	=	mg/Kg	No

Notes:

[1] Total PCBs represent the sum of individual Aroclor analyses for each sample.

[2] Detected results were compared to the Michigan Department of Environmental Quality residential cleanup crite

[3] EPA has concluded that a field screening concentration of 3.4 ppm in residential yards or parkways is equivalent to 4 ppm in a fixed laboratory (for comparison to the residential cleanup level). Therefore, if a sample >3.4 ppm, it is considered to exceed 4 ppm.

U - Not Detected

= - Detect

mg/Kg - milligram per kilogram

TABLE 4

PCB Results in Yards of Commercial Properties - Surface Soil (0 - 2 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-002-21	002	TMD-SO-002-21-0.5/1	Total PCBs	99	=	mg/Kg	**Yes**
TMD-002-23	002	TMD-SO-002-23-0.5/1	Total PCBs	0.96	=	mg/Kg	No
TMD-002-23	002	TMD-SO-002-23-1/1.5	Total PCBs	71	=	mg/Kg	**Yes**
TMD-002-24	002	TMD-SO-002-24-0.5/1	Total PCBs	240	=	mg/Kg	**Yes**
TMD-002-25	002	TMD-SO-002-25-0.5/1	Total PCBs	19	=	mg/Kg	**Yes**
TMD-002-25	002	TMD-SO-002-25-1.5/2	Total PCBs	46	=	mg/Kg	**Yes**
TMD-002-29	002	TMD-SO-002-29-0.5/1	Total PCBs	7	=	mg/Kg	No
TMD-002-30	002	TMD-SO-002-30-0.5/1	Total PCBs	530	=	mg/Kg	**Yes**
TMD-002-31	002	TMD-SO-002-31/1/2	Total PCBs	60	=	mg/Kg	**Yes**
TMD-002-32	002	TMD-SO-002-32-1/2	Total PCBs	0.80	=	mg/Kg	No
TMD-002-33	002	TMD-SO-002-33-0.5/1	Total PCBs	140	=	mg/Kg	**Yes**
TMD-002-33	002	TMD-SO-002-33-0.5/1R	Total PCBs	140	=	mg/Kg	**Yes**

Notes:

[1] Total PCBs represent the sum of individual Aroclor analyses for each sample.

[2] Detected results were compared to the Michigan Department of Environmental Quality non-residential cleanup criteria of 16 ppm

= - Detect

mg/kg - milligram per Kilogram

TABLE 5

PCB Results in Yards of Commercial Properties - Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-002-21	002	TMD-SO-002-21-0.5/1	Total PCBs	99.17	=	mg/Kg	**Yes**
TMD-002-21	002	TMD-SO-002-21-5/7	Total PCBs	0.37	U	mg/Kg	No
TMD-002-23	002	TMD-SO-002-23-0.5/1	Total PCBs	0.958	=	mg/Kg	No
TMD-002-23	002	TMD-SO-002-23-1/1.5	Total PCBs	71.17	=	mg/Kg	**Yes**
TMD-002-23	002	TMD-SO-002-23-5/7	Total PCBs	0.39	U	mg/Kg	No
TMD-002-23	002	TMD-SO-002-23-5/7R	Total PCBs	0.4	U	mg/Kg	No
TMD-002-24	002	TMD-SO-002-24-0.5/1	Total PCBs	240.195	=	mg/Kg	**Yes**
TMD-002-24	002	TMD-SO-002-24-5/7	Total PCBs	0.34	U	mg/Kg	No
TMD-002-25	002	TMD-SO-002-25-0.5/1	Total PCBs	19.165	=	mg/Kg	**Yes**
TMD-002-25	002	TMD-SO-002-25-1.5/2	Total PCBs	46.19	=	mg/Kg	**Yes**
TMD-002-25	002	TMD-SO-002-25-2/3	Total PCBs	1.405	=	mg/Kg	No
TMD-002-25	002	TMD-SO-002-25-5/7	Total PCBs	0.345	=	mg/Kg	No
TMD-002-29	002	TMD-SO-002-29-0.5/1	Total PCBs	7.485	=	mg/Kg	No
TMD-002-29	002	TMD-SO-002-29-5/7	Total PCBs	0.46	=	mg/Kg	No
TMD-002-30	002	TMD-SO-002-30-0.5/1	Total PCBs	530.18	=	mg/Kg	**Yes**
TMD-002-30	002	TMD-SO-002-30-5/7	Total PCBs	0.36	U	mg/Kg	No
TMD-002-31	002	TMD-SO-002-31/1/2	Total PCBs	60.21	=	mg/Kg	**Yes**
TMD-002-31	002	TMD-SO-002-31-10/12	Total PCBs	0.615	=	mg/Kg	No
TMD-002-32	002	TMD-SO-002-32-1/2	Total PCBs	0.8	=	mg/Kg	No
TMD-002-32	002	TMD-SO-002-32-5/7	Total PCBs	0.41	U	mg/Kg	No
TMD-002-33	002	TMD-SO-002-33-0.5/1	Total PCBs	140.18	=	mg/Kg	**Yes**
TMD-002-33	002	TMD-SO-002-33-0.5/1R	Total PCBs	140.195	=	mg/Kg	**Yes**
TMD-002-33	002	TMD-SO-002-33-4/5	Total PCBs	0.655	=	mg/Kg	No
TMD-002-34	002	TMD-SO-002-34-4/5	Total PCBs	0.44	=	mg/Kg	No
TMD-002-35	002	TMD-SO-002-35-3.5/4.5	Total PCBs	1.295	=	mg/Kg	No

Notes:

[1] Total PCBs represent the sum of individual Aroclor analyses for each sample.

[2] Detected results were compared to the Michigan Department of Environmental Quality non-residential cleanup criteria

U - Non-detect

= - Detect

mg/kg - milligram per Kilogram

TABLE 6

PCB Results in Parkways of Commercial Properties - Surface Soil (0 - 2 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-001-01	001	TMD-SO-001-01-0/1.0	Total PCBs	0.4	U	mg/Kg	No
TMD-001-02	001	TMD-SO-001-02-0.5/1	Total PCBs	0.39	U	mg/Kg	No
TMD-001-03	001	TMD-SO-001-03-0.5/1.0	Total PCBs	0.41	U	mg/Kg	No
TMD-001-04	001	TMD-SO-001-04-0.5/1.0	Total PCBs	0.39	U	mg/Kg	No
TMD-001-05	001	TMD-SO-001-05-0.5/1	Total PCBs	0.38	U	mg/Kg	No
TMD-001-06	001	TMD-SO-001-06-0.5/1	Total PCBs	0.38	U	mg/Kg	No
TMD-001-07	001	TMD-SO-001-07-0.5/1	Total PCBs	0.4	U	mg/Kg	No
TMD-001-08	001	TMD-SO-001-08-0.5/1	Total PCBs	0.39	U	mg/Kg	No
TMD-001-09	001	TMD-SO-001-09-0.5/1	Total PCBs	0.39	U	mg/Kg	No
TMD-001-09	001	TMD-SO-001-09-0.5/1R	Total PCBs	0.38	U	mg/Kg	No
TMD-001-10	001	TMD-SO-001-10-0/1	Total PCBs	1.525	=	mg/Kg	No
TMD-001-11	001	TMD-SO-001-11-0/1	Total PCBs	1.29	=	mg/Kg	No
TMD-001-12	001	TMD-SO-001-12-0/1	Total PCBs	3.005	=	mg/Kg	No
TMD-001-13	001	TMD-SO-001-13-0/1	Total PCBs	4.905	=	mg/Kg	No
TMD-001-13	001	TMD-SO-001-13-0/1R	Total PCBs	8.4	=	mg/Kg	No

Notes:

[1] Total PCBs represent the sum of individual Aroclor analyses for each sample.

[2] Detected results were compared to the Michigan Department of Environmental Quality non-residential cleanup criteria of 16 ppm.

U - Non-detect

= - Detect

mg/kg - milligram per Kilogram

TABLE 7

PCB Results in Utility Corridors along Harper Avenue - Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-001_2011	001	TMD-SO-001/0-1	Total PCBs	0.34	U	mg/Kg	No
TMD-001_2011	001	TMD-SO-001/2-3	Total PCBs	0.26	U	mg/Kg	No
TMD-001_2011	001	TMD-SO-001/4-5	Total PCBs	0.39	U	mg/Kg	No
TMD-001_2011	001	TMD-SO-001/6-7	Total PCBs	0.26	U	mg/Kg	No
TMD-001_2011	001	TMD-SO-001/7-8	Total PCBs	0.32	U	mg/Kg	No
TMD-001-01	001	TMD-SO-001-01-0/1.0	Total PCBs	0.4	U	mg/Kg	No
TMD-001-01	001	TMD-SO-001-01-5/7	Total PCBs	0.38	U	mg/Kg	No
TMD-001-02	001	TMD-SO-001-02-0.5/1	Total PCBs	0.39	U	mg/Kg	No
TMD-001-02	001	TMD-SO-001-02-5/7	Total PCBs	0.37	U	mg/Kg	No
TMD-001-03	001	TMD-SO-001-03-0.5/1.0	Total PCBs	0.41	U	mg/Kg	No
TMD-001-03	001	TMD-SO-001-03-5/7	Total PCBs	0.35	U	mg/Kg	No
TMD-001-04	001	TMD-SO-001-04-0.5/1.0	Total PCBs	0.39	U	mg/Kg	No
TMD-001-04	001	TMD-SO-001-04-5/7	Total PCBs	0.35	U	mg/Kg	No
TMD-001-05	001	TMD-SO-001-05-0.5/1	Total PCBs	0.38	U	mg/Kg	No
TMD-001-05	001	TMD-SO-001-05-5/7	Total PCBs	0.36	U	mg/Kg	No
TMD-001-06	001	TMD-SO-001-06-0.5/1	Total PCBs	0.38	U	mg/Kg	No
TMD-001-06	001	TMD-SO-001-06-5/7	Total PCBs	0.38	U	mg/Kg	No
TMD-001-07	001	TMD-SO-001-07-0.5/1	Total PCBs	0.4	U	mg/Kg	No
TMD-001-07	001	TMD-SO-001-07-5/7	Total PCBs	0.37	U	mg/Kg	No
TMD-001-08	001	TMD-SO-001-08-0.5/1	Total PCBs	0.39	U	mg/Kg	No
TMD-001-08	001	TMD-SO-001-08-5/7	Total PCBs	0.35	U	mg/Kg	No
TMD-001-09	001	TMD-SO-001-09-0.5/1	Total PCBs	0.39	U	mg/Kg	No
TMD-001-09	001	TMD-SO-001-09-0.5/1R	Total PCBs	0.38	U	mg/Kg	No
TMD-001-09	001	TMD-SO-001-09-5/7	Total PCBs	0.37	U	mg/Kg	No
TMD-001-10	001	TMD-SO-001-10-0/1	Total PCBs	1.525	=	mg/Kg	No
TMD-001-10	001	TMD-SO-001-10-5/7	Total PCBs	0.36	U	mg/Kg	No
TMD-001-11	001	TMD-SO-001-11-0/1	Total PCBs	1.29	=	mg/Kg	No
TMD-001-11	001	TMD-SO-001-11-5/7	Total PCBs	0.35	U	mg/Kg	No
TMD-001-12	001	TMD-SO-001-12-0/1	Total PCBs	3.005	=	mg/Kg	No
TMD-001-12	001	TMD-SO-001-12-5/7	Total PCBs	0.38	U	mg/Kg	No
TMD-001-13	001	TMD-SO-001-13-0/1	Total PCBs	4.905	=	mg/Kg	No
TMD-001-13	001	TMD-SO-001-13-0/1R	Total PCBs	8.4	=	mg/Kg	No
TMD-001-13	001	TMD-SO-001-13-5/7	Total PCBs	0.36	U	mg/Kg	No
TMD-002_2011	002	TMD-SO-002/0-1	Total PCBs	0.36	U	mg/Kg	No
TMD-002_2011	002	TMD-SO-002/2-3	Total PCBs	0.35	U	mg/Kg	No
TMD-002_2011	002	TMD-SO-002/5-6	Total PCBs	0.26	U	mg/Kg	No
TMD-002_2011	002	TMD-SO-002/6-7	Total PCBs	0.34	U	mg/Kg	No
TMD-002-01	002	TMD-SO-002-01-5/7	Total PCBs	0.36	U	mg/Kg	No
TMD-002-02	002	TMD-SO-002-02-5/7	Total PCBs	0.0188	U	mg/Kg	No
TMD-002-03	002	TMD-SO-002-03-5/7	Total PCBs	0.34	U	mg/Kg	No
TMD-002-04	002	TMD-SO-002-04-5/7	Total PCBs	0.38	U	mg/Kg	No
TMD-002-05	002	TMD-SO-002-05-5/7	Total PCBs	0.38	U	mg/Kg	No
TMD-002-06	002	TMD-SO-002-06-5/7	Total PCBs	0.35	U	mg/Kg	No
TMD-002-07	002	TMD-SO-002-07-5/7	Total PCBs	0.37	U	mg/Kg	No
TMD-002-08	002	TMD-SO-002-08-3/4.5	Total PCBs	0.39	U	mg/Kg	No
TMD-002-08	002	TMD-SO-002-08-5/7	Total PCBs	2.59	=	mg/Kg	No
TMD-002-09	002	TMD-SO-002-09-2.3/2.6	Total PCBs	4.275	=	mg/Kg	No
TMD-002-09	002	TMD-SO-002-09-5/7	Total PCBs	0.37	U	mg/Kg	No
TMD-002-10	002	TMD-SO-002-10-5/7	Total PCBs	0.34	U	mg/Kg	No
TMD-002-11	002	TMD-SO-002-11-5/7	Total PCBs	0.39	U	mg/Kg	No
TMD-002-12	002	TMD-SO-002-12-5/7	Total PCBs	0.36	U	mg/Kg	No
TMD-002-13	002	TMD-SO-002-13-5/7	Total PCBs	0.38	U	mg/Kg	No
TMD-002-14	002	TMD-SO-002-14-5/7	Total PCBs	0.38	U	mg/Kg	No
TMD-002-15	002	TMD-SO-002-15-5/7	Total PCBs	0.39	U	mg/Kg	No
TMD-002-15	002	TMD-SO-002-15-5/7R	Total PCBs	0.39	U	mg/Kg	No
TMD-002-16	002	TMD-SO-002-16-5/7	Total PCBs	0.38	U	mg/Kg	No
TMD-002-17	002	TMD-SO-002-17-5/7	Total PCBs	0.36	U	mg/Kg	No

TABLE 7

PCB Results in Utility Corridors along Harper Avenue - Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-002-18	002	TMD-SO-002-18-5/7	Total PCBs	0.38	U	mg/Kg	No
TMD-002-19	002	TMD-SO-002-19-5/7	Total PCBs	0.35	U	mg/Kg	No
TMD-002-20	002	TMD-SO-002-20-5/7	Total PCBs	0.4	U	mg/Kg	No
TMD-002-26	002	TMD-SO-002-26-5/7	Total PCBs	6.49	=	mg/Kg	No
TMD-002-26	002	TMD-SO-002-26-8/10	Total PCBs	0.38	U	mg/Kg	No
TMD-003_2011	003	TMD-SO-003/0-1	Total PCBs	0.34	U	mg/Kg	No
TMD-003_2011	003	TMD-SO-003/2-3	Total PCBs	0.32	U	mg/Kg	No
TMD-003_2011	003	TMD-SO-003/4-5	Total PCBs	0.4	U	mg/Kg	No
TMD-003_2011	003	TMD-SO-003/5-6	Total PCBs	0.35	U	mg/Kg	No
TMD-004_2011	004	TMD-SO-004/0-1	Total PCBs	0.36	U	mg/Kg	No
TMD-004_2011	004	TMD-SO-004/2-3	Total PCBs	0.36	U	mg/Kg	No
TMD-004_2011	004	TMD-SO-004/4-5	Total PCBs	0.42	U	mg/Kg	No
TMD-004_2011	004	TMD-SO-004/6-7	Total PCBs	0.33	U	mg/Kg	No
TMD-004_2011	004	TMD-SO-004/7-8	Total PCBs	0.34	U	mg/Kg	No
TMD-005_2011	005	TMD-SO-005/0-1	Total PCBs	0.37	U	mg/Kg	No
TMD-005_2011	005	TMD-SO-005/2-3	Total PCBs	0.3	U	mg/Kg	No
TMD-005_2011	005	TMD-SO-005/4-5	Total PCBs	0.32	U	mg/Kg	No
TMD-005_2011	005	TMD-SO-005/7.5-8.5	Total PCBs	0.3	U	mg/Kg	No
TMD-005_2011	005	TMD-SO-005/8.5-9.5	Total PCBs	0.28	U	mg/Kg	No
TMD-005_2011	005	TMD-SO-005/9.5-10	Total PCBs	0.28	U	mg/Kg	No
TMD-006_2011	006	TMD-SO-006/1-2	Total PCBs	0.27	U	mg/Kg	No
TMD-006_2011	006	TMD-SO-006/2-3	Total PCBs	0.33	U	mg/Kg	No
TMD-006_2011	006	TMD-SO-006/5-6	Total PCBs	0.35	U	mg/Kg	No
TMD-006_2011	006	TMD-SO-006/6-7	Total PCBs	0.32	U	mg/Kg	No
TMD-007_2011	007	TMD-SO-007/0-1	Total PCBs	0.33	U	mg/Kg	No
TMD-007_2011	007	TMD-SO-007/2-3	Total PCBs	0.35	U	mg/Kg	No
TMD-007_2011	007	TMD-SO-007/4-5	Total PCBs	0.3	U	mg/Kg	No
TMD-007_2011	007	TMD-SO-007/6-7	Total PCBs	0.33	U	mg/Kg	No
TMD-007_2011	007	TMD-SO-007/7-8	Total PCBs	0.3	U	mg/Kg	No
TMD-007_2011	007	TMD-SO-007/9-10	Total PCBs	0.29	U	mg/Kg	No
TMD-008_2011	008	TMD-SO-008/0-1	Total PCBs	0.24	U	mg/Kg	No
TMD-008_2011	008	TMD-SO-008/6-7	Total PCBs	0.26	U	mg/Kg	No
TMD-008_2011	008	TMD-SO-008/7-8	Total PCBs	0.29	U	mg/Kg	No
TMD-009_2011	009	TMD-SO-009/1-2	Total PCBs	0.435	=	mg/Kg	No
TMD-009_2011	009	TMD-SO-009/2-3	Total PCBs	0.23	U	mg/Kg	No
TMD-009_2011	009	TMD-SO-009/4-5	Total PCBs	0.32	U	mg/Kg	No
TMD-009_2011	009	TMD-SO-009/5-6	Total PCBs	0.31	U	mg/Kg	No
TMD-009_2011	009	TMD-SO-009/6-7	Total PCBs	0.37	U	mg/Kg	No
TMD-009_2011	009	TMD-SO-009/7-8	Total PCBs	0.32	U	mg/Kg	No
TMD-010_2011	010	TMD-SO-010/0-1	Total PCBs	0.73	=	mg/Kg	No
TMD-010_2011	010	TMD-SO-010/2-2.5	Total PCBs	0.32	=	mg/Kg	No
TMD-010_2011	010	TMD-SO-010/6-7	Total PCBs	0.25	U	mg/Kg	No
TMD-010_2011	010	TMD-SO-010/7-8	Total PCBs	0.28	U	mg/Kg	No
TMD-011_2011	011	TMD-SO-011/0-1	Total PCBs	2.19	=	mg/Kg	No
TMD-011_2011	011	TMD-SO-011/1-2	Total PCBs	0.32	U	mg/Kg	No
TMD-011_2011	011	TMD-SO-011/5-6	Total PCBs	0.28	U	mg/Kg	No
TMD-011_2011	011	TMD-SO-011/6-7	Total PCBs	0.33	U	mg/Kg	No
TMD-012_2011	012	TMD-SO-012/0-1	Total PCBs	1.13	=	mg/Kg	No
TMD-012_2011	012	TMD-SO-012/2-3	Total PCBs	0.36	U	mg/Kg	No
TMD-012_2011	012	TMD-SO-012/5-6	Total PCBs	0.29	U	mg/Kg	No
TMD-012_2011	012	TMD-SO-012/6-7	Total PCBs	0.31	U	mg/Kg	No
TMD-013_2011	013	TMD-SO-013/0-1	Total PCBs	0.34	U	mg/Kg	No
TMD-013_2011	013	TMD-SO-013/2-3	Total PCBs	0.29	U	mg/Kg	No
TMD-013_2011	013	TMD-SO-013/5-6	Total PCBs	0.22	U	mg/Kg	No
TMD-013_2011	013	TMD-SO-013/6-7	Total PCBs	0.33	U	mg/Kg	No
TMD-014_2011	014	TMD-SO-014/0-1	Total PCBs	0.51	=	mg/Kg	No
TMD-014_2011	014	TMD-SO-014/2-3	Total PCBs	0.3	U	mg/Kg	No

TABLE 7

PCB Results in Utility Corridors along Harper Avenue - Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-014_2011	014	TMD-SO-014/4-5	Total PCBs	0.35	U	mg/Kg	No
TMD-014_2011	014	TMD-SO-014/6-7	Total PCBs	0.32	U	mg/Kg	No
TMD-014_2011	014	TMD-SO-014/8-9	Total PCBs	0.29	U	mg/Kg	No
TMD-042	042	TMD-SO-042-0/1	Total PCBs	1.555	=	mg/Kg	No
TMD-042	042	TMD-SO-042-2/3	Total PCBs	0.31	U	mg/Kg	No

Notes:

[1] Total PCBs represent the sum of individual Aroclor analyses for each sample.

[2] Detected results were compared to the Michigan Department of Environmental Quality non-residential cleanup criteria of 16 ppm.

U - Non-detect

= - Detect

mg/kg - milligram per Kilogram

TABLE 8

PCB Results in Utility Corridors along Bon Brea Street - Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-019_2011	019	TMD-SO-019/5-6	Total PCBs	0.465	=	mg/Kg	No
TMD-021_2011	021	TMD-SO-021/0-1	Total PCBs	1.45	=	mg/Kg	No
TMD-021_2011	021	TMD-SO-021/2-3	Total PCBs	0.33	U	mg/Kg	No
TMD-021_2011	021	TMD-SO-021/4-5	Total PCBs	0.34	U	mg/Kg	No
TMD-021_2011	021	TMD-SO-021/6-7	Total PCBs	0.3	U	mg/Kg	No
TMD-021_2011	021	TMD-SO-021/7-8	Total PCBs	0.28	U	mg/Kg	No
TMD-022_2011	022	TMD-SO-022/0-1	Total PCBs	0.62	=	mg/Kg	No
TMD-022_2011	022	TMD-SO-022/2-3	Total PCBs	0.33	U	mg/Kg	No
TMD-022_2011	022	TMD-SO-022/5-6	Total PCBs	0.36	U	mg/Kg	No
TMD-022_2011	022	TMD-SO-022/6-7	Total PCBs	0.35	U	mg/Kg	No
TMD-025_2011	025	TMD-SO-025/1-2	Total PCBs	80.165	=	mg/Kg	**Yes**
TMD-025_2011	025	TMD-SO-025/2-3	Total PCBs	300.185	=	mg/Kg	**Yes**
TMD-025_2011	025	TMD-SO-025/6.3-7.3	Total PCBs	56.14	=	mg/Kg	**Yes**
TMD-025_2011	025	TMD-SO-025/7.3-8.3	Total PCBs	0.795	=	mg/Kg	No
TMD-028_2011	028	TMD-SO-028/1-2	Total PCBs	10.145	=	mg/Kg	No
TMD-028_2011	028	TMD-SO-028/2-3	Total PCBs	0.495	=	mg/Kg	No
TMD-028_2011	028	TMD-SO-028/6-7	Total PCBs	0.35	U	mg/Kg	No
TMD-031_2011	031	TMD-SO-031/1-2	Total PCBs	0.565	=	mg/Kg	No
TMD-031_2011	031	TMD-SO-031/2-3	Total PCBs	0.35	U	mg/Kg	No
TMD-031_2011	031	TMD-SO-031/4-5	Total PCBs	0.3	U	mg/Kg	No
TMD-031_2011	031	TMD-SO-031/5-6	Total PCBs	1	=	mg/Kg	No
TMD-041_2011	041	TMD-SO-041/1-2	Total PCBs	0.38	U	mg/Kg	No
TMD-041_2011	041	TMD-SO-041/2-3	Total PCBs	0.32	U	mg/Kg	No
TMD-041_2011	041	TMD-SO-041/4-5	Total PCBs	0.33	U	mg/Kg	No
TMD-041_2011	041	TMD-SO-041/6-7	Total PCBs	0.34	U	mg/Kg	No
TMD-041_2011	041	TMD-SO-041/7-8	Total PCBs	0.32	U	mg/Kg	No
TMD-041_2011	041	TMD-SO-041/8-9	Total PCBs	0.29	U	mg/Kg	No
TMD-041_2011	041	TMD-SO-041/9-10	Total PCBs	0.29	U	mg/Kg	No
TMD-046_2011	046	TMD-SO-046/10-11	Total PCBs	0.37	U	mg/Kg	No
TMD-046_2011	046	TMD-SO-046/1-2	Total PCBs	1.94	=	mg/Kg	No
TMD-046_2011	046	TMD-SO-046/2-3	Total PCBs	0.28	U	mg/Kg	No
TMD-046_2011	046	TMD-SO-046/4-4.8	Total PCBs	0.29	U	mg/Kg	No
TMD-046_2011	046	TMD-SO-046/6-7	Total PCBs	0.28	U	mg/Kg	No
TMD-046_2011	046	TMD-SO-046/8-9	Total PCBs	0.25	U	mg/Kg	No
TMD-047_2011	047	TMD-SO-047/1-2	Total PCBs	0.3	U	mg/Kg	No
TMD-047_2011	047	TMD-SO-047/2-3	Total PCBs	0.34	U	mg/Kg	No
TMD-047_2011	047	TMD-SO-047/4-5	Total PCBs	0.24	U	mg/Kg	No
TMD-047_2011	047	TMD-SO-047/6-7	Total PCBs	0.31	U	mg/Kg	No
TMD-049_2011	049	TMD-SO-049/10-11	Total PCBs	0.34	U	mg/Kg	No
TMD-049_2011	049	TMD-SO-049/11.5-12.5	Total PCBs	0.31	U	mg/Kg	No
TMD-049_2011	049	TMD-SO-049/1-2	Total PCBs	3.64	=	mg/Kg	No
TMD-049_2011	049	TMD-SO-049/2-3	Total PCBs	2.835	=	mg/Kg	No
TMD-049_2011	049	TMD-SO-049/5-6	Total PCBs	2.24	=	mg/Kg	No
TMD-052_2011	052	TMD-SO-052/1-2	Total PCBs	44.3	=	mg/Kg	**Yes**
TMD-052_2011	052	TMD-SO-052/2-3	Total PCBs	3.685	=	mg/Kg	No
TMD-052_2011	052	TMD-SO-052/4-5	Total PCBs	0.38	U	mg/Kg	No
TMD-086_2011	086	TMD-SO-086/1-2	Total PCBs	0.36	U	mg/Kg	No
TMD-086_2011	086	TMD-SO-086/2-2.5	Total PCBs	0.29	U	mg/Kg	No
TMD-086_2011	086	TMD-SO-086/6-7	Total PCBs	0.39	U	mg/Kg	No
TMD-088_2011	088	TMD-SO-088/5.5-6	Total PCBs	0.35	U	mg/Kg	No
TMD-089_2011	089	TMD-SO-089/2-3	Total PCBs	0.29	U	mg/Kg	No
TMD-089_2011	089	TMD-SO-089/7-8	Total PCBs	0.42	U	mg/Kg	No

Notes:

[1] Total PCBs represent the sum of individual Aroclor analyses for each sample.

[2] Detected results were compared to the Michigan Department of Environmental Quality non-residential cleanup criteria of 16 ppm

U - Non-detect

= - Detect

mg/kg - milligram per Kilogram

TABLE 9

PCB Results in Utility Corridors along Frazho Street - Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-051_2011	051	TMD-SO-051/1-2	Total PCBs	0.8	=	mg/Kg	No
TMD-051_2011	051	TMD-SO-051/2-3	Total PCBs	0.26	U	mg/Kg	No
TMD-051_2011	051	TMD-SO-051/5-6	Total PCBs	0.27	U	mg/Kg	No
TMD-051_2011	051	TMD-SO-051/7-8	Total PCBs	0.29	U	mg/Kg	No
TMD-051_2011	051	TMD-SO-051/8.5-9.5	Total PCBs	0.32	U	mg/Kg	No
TMD-077_2011	077	TMD-SO-077/2-2.5	Total PCBs	0.34	U	mg/Kg	No
TMD-077_2011	077	TMD-SO-077/3-4	Total PCBs	0.31	U	mg/Kg	No
TMD-077_2011	077	TMD-SO-077/6-7	Total PCBs	0.3	U	mg/Kg	No
TMD-077_2011	077	TMD-SO-077/7-8	Total PCBs	0.4	U	mg/Kg	No
TMD-077_2011	077	TMD-SO-077/8-9	Total PCBs	0.31	U	mg/Kg	No

Notes:

[1] Total PCBs represent the sum of individual Aroclor analyses for each sample.

[2] Detected results were compared to the Michigan Department of Environmental Quality non-residential cleanup criteria of 16 ppm.

U - Non-detect

= - Detect

mg/kg - milligram per Kilogram

TABLE 10

PCB Results in Utility Corridors along Lakeland Street - Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-002-27	002	TMD-SO-002-27-0/1	Total PCBs	89.195	=	mg/Kg	**Yes**
TMD-002-27	002	TMD-SO-002-27-1/2.5	Total PCBs	3.5	=	mg/Kg	No
TMD-002-27	002	TMD-SO-002-27-1/2.5	Total PCBs	2.095	=	mg/Kg	No
TMD-002-27	002	TMD-SO-002-27-5/7	Total PCBs	0.4	U	mg/Kg	No
TMD-002-27	002	TMD-SO-002-27-8/10	Total PCBs	0.37	U	mg/Kg	No
TMD-002-28	002	TMD-SO-002-28-0/1	Total PCBs	38.19	=	mg/Kg	**Yes**
TMD-002-28	002	TMD-SO-002-28-2/3.5	Total PCBs	0.57	=	mg/Kg	No
TMD-002-28	002	TMD-SO-002-28-5/6	Total PCBs	3.8	=	mg/Kg	No
TMD-002-28	002	TMD-SO-002-28-8/10	Total PCBs	0.5	=	mg/Kg	No
TMD-044	044	TMD-SO-044-0/0.5	Total PCBs	14.18	=	mg/Kg	No
TMD-044	044	TMD-SO-044-1.5/2	Total PCBs	1.265	=	mg/Kg	No
TMD-044	044	TMD-SO-044-1/1.5	Total PCBs	2.58	=	mg/Kg	No
TMD-050	050	TMD-SO-050-0/0.5	Total PCBs	3.475	=	mg/Kg	No
TMD-050	050	TMD-SO-050-1.5/2	Total PCBs	1.02	=	mg/Kg	No
TMD-050	050	TMD-SO-050-1/1.5	Total PCBs	3.19	=	mg/Kg	No
TMD-050_201	050	TMD-SO-050/0-1	Total PCBs	2.535	=	mg/Kg	No
TMD-050_201	050	TMD-SO-050/2-2.4	Total PCBs	0.36	U	mg/Kg	No
TMD-050_201	050	TMD-SO-050/6-7	Total PCBs	0.3	U	mg/Kg	No
TMD-050_201	050	TMD-SO-050/7.5-8.5	Total PCBs	0.27	U	mg/Kg	No
TMD-051	051	TMD-SO-051-0/0.5	Total PCBs	8.895	=	mg/Kg	No
TMD-051	051	TMD-SO-051-1.5/2	Total PCBs	0.244	=	mg/Kg	No
TMD-051	051	TMD-SO-051-1/1.5	Total PCBs	3.97	=	mg/Kg	No
TMD-053	053	TMD-SO-053-1.5/2	Total PCBs	11.89	=	mg/Kg	No
TMD-057	057	TMD-SO-057-2.5/3	Total PCBs	0.26	U	mg/Kg	No
TMD-059	059	TMD-SO-059-0/0.5	Total PCBs	1.7	=	mg/Kg	No
TMD-059	059	TMD-SO-059-1/1.5	Total PCBs	0.46	=	mg/Kg	No
TMD-059	059	TMD-SO-059-2.5/3	Total PCBs	0.05255	=	mg/Kg	No
TMD-061	061	TMD-SO-061-0/0.5	Total PCBs	2.7	=	mg/Kg	No
TMD-061	061	TMD-SO-061-1/1.5	Total PCBs	0.53	=	mg/Kg	No
TMD-061	061	TMD-SO-061-2.5/3	Total PCBs	0.37	U	mg/Kg	No
TMD-063	063	TMD-SO-063-2.5/3	Total PCBs	0.26	U	mg/Kg	No
TMD-065	065	TMD-SO-065-2.5/3	Total PCBs	0.415	=	mg/Kg	No
TMD-068	068	TMD-SO-068-2.5/3	Total PCBs	0.42	=	mg/Kg	No
TMD-069	069	TMD-SO-069-2.5/3	Total PCBs	0.36	U	mg/Kg	No
TMD-071	071	TMD-SO-071-0/0.5	Total PCBs	5.6	=	mg/Kg	No
TMD-071	071	TMD-SO-071-1/1.5	Total PCBs	0.31	U	mg/Kg	No
TMD-071	071	TMD-SO-071-2.5/3	Total PCBs	0.31	U	mg/Kg	No
TMD-079	079	TMD-SO-079-0/0.5	Total PCBs	0.36	U	mg/Kg	No
TMD-079	079	TMD-SO-079-1/1.5	Total PCBs	0.0192	U	mg/Kg	No
TMD-081	081	TMD-SO-081-0/0.5	Total PCBs	0.47	=	mg/Kg	No
TMD-081	081	TMD-SO-081-1/1.5	Total PCBs	0.29	U	mg/Kg	No
TMD-083	083	TMD-SO-083-0/0.5	Total PCBs	0.39	U	mg/Kg	No
TMD-083	083	TMD-SO-083-1/1.5	Total PCBs	0.26	U	mg/Kg	No
TMD-085	085	TMD-SO-085-0/0.5	Total PCBs	5.6	=	mg/Kg	No
TMD-086	086	TMD-SO-086-0/0.5	Total PCBs	1.625	=	mg/Kg	No
TMD-087	087	TMD-SO-087-0/0.5	Total PCBs	1.59	=	mg/Kg	No

Notes:

[1] Total PCBs represent the sum of individual Aroclor analyses for each sample.

[2] Detected results were compared to the Michigan Department of Environmental Quality non-residential cleanup criteria of 16 ppm.

U - Non-detect

= - Detect

mg/kg - milligram per Kilogram

TABLE 11

PCB Results in Utility Corridors along the Ten Mile Drain - Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-015_2011	015	TMD-SO-015/4-5	Total PCBs	0.29	U	mg/Kg	No
TMD-015_2011	015	TMD-SO-015/5-6	Total PCBs	0.38	U	mg/Kg	No
TMD-015_2011	015	TMD-SO-015/6-7	Total PCBs	0.26	U	mg/Kg	No
TMD-016_2011	016	TMD-SO-016/0-1	Total PCBs	3.47	=	mg/Kg	No
TMD-016_2011	016	TMD-SO-016/2-3	Total PCBs	130.18	=	mg/Kg	**Yes**
TMD-016_2011	016	TMD-SO-016/6-7	Total PCBs	4.895	=	mg/Kg	No
TMD-017_2011	017	TMD-SO-017/0-1	Total PCBs	1.5	=	mg/Kg	No
TMD-017_2011	017	TMD-SO-017/2-3	Total PCBs	2.225	=	mg/Kg	No
TMD-017_2011	017	TMD-SO-017/6-7	Total PCBs	0.32	U	mg/Kg	No
TMD-018_2011	018	TMD-SO-018/0-1	Total PCBs	0.35	U	mg/Kg	No
TMD-018_2011	018	TMD-SO-018/2-3	Total PCBs	0.31	U	mg/Kg	No
TMD-018_2011	018	TMD-SO-018/6-7	Total PCBs	0.29	U	mg/Kg	No
TMD-019_2011	019	TMD-SO-019/0-1	Total PCBs	1.13	=	mg/Kg	No
TMD-019_2011	019	TMD-SO-019/2-3	Total PCBs	3.35	=	mg/Kg	No
TMD-019_2011	019	TMD-SO-019/7-8	Total PCBs	1.48	=	mg/Kg	No
TMD-020_2011	020	TMD-SO-020/1-2	Total PCBs	0.31	=	mg/Kg	No
TMD-020_2011	020	TMD-SO-020/2-3	Total PCBs	0.385	=	mg/Kg	No
TMD-020_2011	020	TMD-SO-020/6-7	Total PCBs	2.765	=	mg/Kg	No
TMD-023_2011	023	TMD-SO-023/1-2	Total PCBs	3.46	=	mg/Kg	No
TMD-023_2011	023	TMD-SO-023/2-3	Total PCBs	3.34	=	mg/Kg	No
TMD-023_2011	023	TMD-SO-023/6-7	Total PCBs	0.485	=	mg/Kg	No
TMD-024_2011	024	TMD-SO-024/1-2	Total PCBs	7.335	=	mg/Kg	No
TMD-024_2011	024	TMD-SO-024/2-3	Total PCBs	7.225	=	mg/Kg	No
TMD-024_2011	024	TMD-SO-024/6-7	Total PCBs	0.915	=	mg/Kg	No
TMD-026_2011	026	TMD-SO-026/1-2	Total PCBs	0.37	=	mg/Kg	No
TMD-026_2011	026	TMD-SO-026/2-3	Total PCBs	1.475	=	mg/Kg	No
TMD-026_2011	026	TMD-SO-026/6-7	Total PCBs	1.465	=	mg/Kg	No
TMD-027_2011	027	TMD-SO-027/1-2	Total PCBs	37.17	=	mg/Kg	**Yes**
TMD-027_2011	027	TMD-SO-027/2-3	Total PCBs	8.855	=	mg/Kg	No
TMD-027_2011	027	TMD-SO-027/6-7	Total PCBs	0.34	U	mg/Kg	No
TMD-029_2011	029	TMD-SO-029/1-2	Total PCBs	5.55	=	mg/Kg	No
TMD-029_2011	029	TMD-SO-029/2-3	Total PCBs	0.38	=	mg/Kg	No
TMD-029_2011	029	TMD-SO-029/6-7	Total PCBs	0.26	U	mg/Kg	No
TMD-030_2011	030	TMD-SO-030/1-2	Total PCBs	2.14	=	mg/Kg	No
TMD-030_2011	030	TMD-SO-030/2-3	Total PCBs	0.25	U	mg/Kg	No
TMD-030_2011	030	TMD-SO-030/5-6	Total PCBs	0.3	U	mg/Kg	No
TMD-030_2011	030	TMD-SO-030/6-7	Total PCBs	0.23	U	mg/Kg	No
TMD-032_2011	032	TMD-SO-032/1-2	Total PCBs	2.255	=	mg/Kg	No
TMD-032_2011	032	TMD-SO-032/2-3	Total PCBs	0.26	U	mg/Kg	No
TMD-032_2011	032	TMD-SO-032/5-6	Total PCBs	0.29	U	mg/Kg	No
TMD-032_2011	032	TMD-SO-032/6-7	Total PCBs	0.23	U	mg/Kg	No
TMD-033_2011	033	TMD-SO-033/1-2	Total PCBs	1.44	=	mg/Kg	No
TMD-033_2011	033	TMD-SO-033/2-3	Total PCBs	0.26	U	mg/Kg	No
TMD-033_2011	033	TMD-SO-033/6.9-7.9	Total PCBs	0.27	U	mg/Kg	No
TMD-033_2011	033	TMD-SO-033/7.9-8.9	Total PCBs	0.34	U	mg/Kg	No
TMD-034_2011	034	TMD-SO-034/1-2	Total PCBs	0.385	=	mg/Kg	No
TMD-034_2011	034	TMD-SO-034/2-3	Total PCBs	0.36	U	mg/Kg	No
TMD-035_2011	035	TMD-SO-035/1-2	Total PCBs	0.77	=	mg/Kg	No

TABLE 11

PCB Results in Utility Corridors along the Ten Mile Drain - Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-035_2011	035	TMD-SO-035/2-3	Total PCBs	0.375	=	mg/Kg	No
TMD-035_2011	035	TMD-SO-035/5-6	Total PCBs	0.825	=	mg/Kg	No
TMD-035_2011	035	TMD-SO-035/6-7	Total PCBs	0.28	U	mg/Kg	No
TMD-036_2011	036	TMD-SO-036/1-2	Total PCBs	1.75	=	mg/Kg	No
TMD-036_2011	036	TMD-SO-036/2-3	Total PCBs	0.25	U	mg/Kg	No
TMD-036_2011	036	TMD-SO-036/5-5.5	Total PCBs	0.25	U	mg/Kg	No
TMD-037_2011	037	TMD-SO-037/1-2	Total PCBs	0.28	U	mg/Kg	No
TMD-037_2011	037	TMD-SO-037/2-3	Total PCBs	0.22	U	mg/Kg	No
TMD-037_2011	037	TMD-SO-037/5-5.9	Total PCBs	0.34	U	mg/Kg	No
TMD-037_2011	037	TMD-SO-037/7.3-8	Total PCBs	0.64	=	mg/Kg	No
TMD-038_2011	038	TMD-SO-038/1-2	Total PCBs	0.27	U	mg/Kg	No
TMD-038_2011	038	TMD-SO-038/2.5-3.5	Total PCBs	0.22	U	mg/Kg	No
TMD-038_2011	038	TMD-SO-038/5-6	Total PCBs	0.36	U	mg/Kg	No
TMD-039_2011	039	TMD-SO-039/1-2	Total PCBs	0.37	U	mg/Kg	No
TMD-039_2011	039	TMD-SO-039/2-3	Total PCBs	0.38	U	mg/Kg	No
TMD-039_2011	039	TMD-SO-039/3-4	Total PCBs	0.26	U	mg/Kg	No
TMD-039_2011	039	TMD-SO-039/4-5	Total PCBs	0.26	U	mg/Kg	No
TMD-039_2011	039	TMD-SO-039/5-6	Total PCBs	0.31	U	mg/Kg	No
TMD-040_2011	040	TMD-SO-040/1-2	Total PCBs	0.32	U	mg/Kg	No
TMD-040_2011	040	TMD-SO-040/2-3	Total PCBs	0.3	U	mg/Kg	No
TMD-040_2011	040	TMD-SO-040/5-6	Total PCBs	0.24	U	mg/Kg	No
TMD-042_2011	042	TMD-SO-042/1-2	Total PCBs	0.335	=	mg/Kg	No
TMD-042_2011	042	TMD-SO-042/2-3	Total PCBs	0.22	U	mg/Kg	No
TMD-042_2011	042	TMD-SO-042/6-7	Total PCBs	2.705	=	mg/Kg	No
TMD-043_2011	043	TMD-SO-043/1-2	Total PCBs	1.645	=	mg/Kg	No
TMD-043_2011	043	TMD-SO-043/2-3	Total PCBs	0.845	=	mg/Kg	No
TMD-043_2011	043	TMD-SO-043/6-7	Total PCBs	0.29	U	mg/Kg	No
TMD-044_2011	044	TMD-SO-044/1-2	Total PCBs	0.25	U	mg/Kg	No
TMD-044_2011	044	TMD-SO-044/2-3	Total PCBs	0.32	U	mg/Kg	No
TMD-045_2011	045	TMD-SO-045/1-2	Total PCBs	0.21	U	mg/Kg	No
TMD-045_2011	045	TMD-SO-045/2-3	Total PCBs	0.25	U	mg/Kg	No
TMD-053_2011	053	TMD-SO-053/1-2	Total PCBs	0.28	U	mg/Kg	No
TMD-053_2011	053	TMD-SO-053/2-3	Total PCBs	0.27	U	mg/Kg	No
TMD-053_2011	053	TMD-SO-053/5-6	Total PCBs	0.29	U	mg/Kg	No
TMD-054_2011	054	TMD-SO-054/1-2	Total PCBs	1.105	=	mg/Kg	No
TMD-054_2011	054	TMD-SO-054/2-3	Total PCBs	1.25	=	mg/Kg	No
TMD-054_2011	054	TMD-SO-054/9-10	Total PCBs	1.92	=	mg/Kg	No
TMD-055_2011	055	TMD-SO-055/2-3	Total PCBs	0.35	U	mg/Kg	No
TMD-055_2011	055	TMD-SO-055/5-6	Total PCBs	0.3	U	mg/Kg	No
TMD-055_2011	055	TMD-SO-055/7-8	Total PCBs	172.7	=	mg/Kg	**Yes**
TMD-055_2011	055	TMD-SO-055/9-10	Total PCBs	0.405	=	mg/Kg	No
TMD-056_2011	056	TMD-SO-056/1-2	Total PCBs	3.945	=	mg/Kg	No
TMD-056_2011	056	TMD-SO-056/2-3	Total PCBs	2.66	=	mg/Kg	No
TMD-056_2011	056	TMD-SO-056/6-7	Total PCBs	3.14	=	mg/Kg	No
TMD-057_2011	057	TMD-SO-057/2-3	Total PCBs	0.24	U	mg/Kg	No
TMD-057_2011	057	TMD-SO-057/4-4.8	Total PCBs	0.25	U	mg/Kg	No
TMD-057_2011	057	TMD-SO-057/6-7	Total PCBs	1.615	=	mg/Kg	No
TMD-057_2011	057	TMD-SO-057/7-7.8	Total PCBs	0.7	=	mg/Kg	No

TABLE 11

PCB Results in Utility Corridors along the Ten Mile Drain - Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-059_2011	059	TMD-SO-059/1-2	Total PCBs	0.32	U	mg/Kg	No
TMD-059_2011	059	TMD-SO-059/2-3	Total PCBs	0.24	U	mg/Kg	No
TMD-059_2011	059	TMD-SO-059/6-7	Total PCBs	0.24	U	mg/Kg	No
TMD-060_2011	060	TMD-SO-060/1-2	Total PCBs	0.305	=	mg/Kg	No
TMD-060_2011	060	TMD-SO-060/2-3	Total PCBs	0.24	U	mg/Kg	No
TMD-060_2011	060	TMD-SO-060/5-6	Total PCBs	0.3	U	mg/Kg	No
TMD-060_2011	060	TMD-SO-060/6-6.7	Total PCBs	13.2	=	mg/Kg	No
TMD-061_2011	061	TMD-SO-061/6-7	Total PCBs	0.25	U	mg/Kg	No
TMD-062_2011	062	TMD-SO-062/1-2	Total PCBs	0.23	U	mg/Kg	No
TMD-062_2011	062	TMD-SO-062/2-3	Total PCBs	0.25	U	mg/Kg	No
TMD-062_2011	062	TMD-SO-062/5-6	Total PCBs	0.24	U	mg/Kg	No
TMD-064_2011	064	TMD-SO-064/1-2	Total PCBs	0.33	U	mg/Kg	No
TMD-064_2011	064	TMD-SO-064/2-3	Total PCBs	1.24	=	mg/Kg	No
TMD-064_2011	064	TMD-SO-064/6-7	Total PCBs	0.26	U	mg/Kg	No
TMD-064_2011	064	TMD-SO-064/8-9	Total PCBs	6.025	=	mg/Kg	No
TMD-065_2011	065	TMD-SO-065/1.3-2	Total PCBs	0.31	U	mg/Kg	No
TMD-065_2011	065	TMD-SO-065/2-3	Total PCBs	0.28	U	mg/Kg	No
TMD-065_2011	065	TMD-SO-065/6-7	Total PCBs	0.27	U	mg/Kg	No
TMD-065_2011	065	TMD-SO-065/7-8	Total PCBs	0.31	U	mg/Kg	No
TMD-068_2011	068	TMD-SO-068/6-7	Total PCBs	0.27	U	mg/Kg	No
TMD-068_2011	068	TMD-SO-068/7-8	Total PCBs	0.27	U	mg/Kg	No
TMD-069_2011	069	TMD-SO-069/1-2	Total PCBs	0.26	U	mg/Kg	No
TMD-069_2011	069	TMD-SO-069/2-3	Total PCBs	0.3	U	mg/Kg	No
TMD-069_2011	069	TMD-SO-069/6-7	Total PCBs	0.31	U	mg/Kg	No
TMD-069_2011	069	TMD-SO-069/8-8.8	Total PCBs	0.28	U	mg/Kg	No
TMD-070_2011	070	TMD-SO-070/1-2	Total PCBs	457	=	mg/Kg	**Yes**
TMD-070_2011	070	TMD-SO-070/2-3	Total PCBs	0.775	=	mg/Kg	No
TMD-070_2011	070	TMD-SO-070/6-6.7	Total PCBs	0.25	U	mg/Kg	No
TMD-070_2011	070	TMD-SO-070/8-9	Total PCBs	1.825	=	mg/Kg	No
TMD-071_2011	071	TMD-SO-071/1-2	Total PCBs	7.92	=	mg/Kg	No
TMD-071_2011	071	TMD-SO-071/2-3	Total PCBs	1.545	=	mg/Kg	No
TMD-071_2011	071	TMD-SO-071/6-7	Total PCBs	4.86	=	mg/Kg	No
TMD-071_2011	071	TMD-SO-071/9-9.7	Total PCBs	0.415	=	mg/Kg	No
TMD-073_2011	073	TMD-SO-073/0-1	Total PCBs	0.32	=	mg/Kg	No
TMD-073_2011	073	TMD-SO-073/2-3	Total PCBs	0.29	U	mg/Kg	No
TMD-073_2011	073	TMD-SO-073/6-7	Total PCBs	0.32	U	mg/Kg	No
TMD-074_2011	074	TMD-SO-074/4-5	Total PCBs	0.31	U	mg/Kg	No
TMD-074_2011	074	TMD-SO-074/6-7	Total PCBs	0.27	U	mg/Kg	No
TMD-074_2011	074	TMD-SO-074/8-9	Total PCBs	0.29	U	mg/Kg	No
TMD-075_2011	075	TMD-SO-075/1-2	Total PCBs	0.3	U	mg/Kg	No
TMD-075_2011	075	TMD-SO-075/2-3	Total PCBs	0.28	U	mg/Kg	No
TMD-075_2011	075	TMD-SO-075/5.5-6.5	Total PCBs	0.21	U	mg/Kg	No
TMD-078_2011	078	TMD-SO-078/1-2	Total PCBs	0.32	U	mg/Kg	No
TMD-078_2011	078	TMD-SO-078/2-3	Total PCBs	0.34	U	mg/Kg	No
TMD-078_2011	078	TMD-SO-078/6-7	Total PCBs	0.23	U	mg/Kg	No
TMD-079_2011	079	TMD-SO-079/7-8	Total PCBs	0.27	U	mg/Kg	No
TMD-080_2011	080	TMD-SO-080/7.5-8.5	Total PCBs	0.32	U	mg/Kg	No
TMD-081_2011	081	TMD-SO-081/1-2	Total PCBs	0.24	U	mg/Kg	No

TABLE 11

PCB Results in Utility Corridors along the Ten Mile Drain - Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-081_2011	081	TMD-SO-081/2-3	Total PCBs	0.3	U	mg/Kg	No
TMD-081_2011	081	TMD-SO-081/6-7	Total PCBs	0.33	U	mg/Kg	No
TMD-082_2011	082	TMD-SO-082/1-2	Total PCBs	0.29	U	mg/Kg	No
TMD-082_2011	082	TMD-SO-082/2-3	Total PCBs	0.25	U	mg/Kg	No
TMD-082_2011	082	TMD-SO-082/6-6.5	Total PCBs	17.27	=	mg/Kg	**Yes**
TMD-083_2011	083	TMD-SO-083/1-2	Total PCBs	0.39	U	mg/Kg	No
TMD-083_2011	083	TMD-SO-083/2-3	Total PCBs	0.27	U	mg/Kg	No
TMD-083_2011	083	TMD-SO-083/5-6	Total PCBs	0.47	=	mg/Kg	No
TMD-084_2011	084	TMD-SO-084/1-2	Total PCBs	0.41	=	mg/Kg	No
TMD-084_2011	084	TMD-SO-084/2-3	Total PCBs	0.27	U	mg/Kg	No
TMD-084_2011	084	TMD-SO-084/6-7	Total PCBs	0.22	U	mg/Kg	No
TMD-090_2011	090	TMD-SO-090/1-2	Total PCBs	1.35	=	mg/Kg	No
TMD-090_2011	090	TMD-SO-090/2-3	Total PCBs	0.32	U	mg/Kg	No
TMD-090_2011	090	TMD-SO-090/6-7	Total PCBs	0.27	U	mg/Kg	No
TMD-092_2011	092	TMD-SO-092/4-5	Total PCBs	0.22	U	mg/Kg	No
TMD-092_2011	092	TMD-SO-092/5-6	Total PCBs	0.24	U	mg/Kg	No
TMD-093_2011	093	TMD-SO-093/1-2	Total PCBs	0.31	U	mg/Kg	No
TMD-093_2011	093	TMD-SO-093/2-3	Total PCBs	0.28	U	mg/Kg	No
TMD-093_2011	093	TMD-SO-093/6-7	Total PCBs	0.3	U	mg/Kg	No
TMD-094_2011	094	TMD-SO-094/1-2	Total PCBs	0.31	U	mg/Kg	No
TMD-094_2011	094	TMD-SO-094/2-3	Total PCBs	0.33	U	mg/Kg	No
TMD-094_2011	094	TMD-SO-094/5-6	Total PCBs	0.32	U	mg/Kg	No

Notes:

[1] Total PCBs represent the sum of individual Aroclor analyses for each sample.

[2] Detected results were compared to the Michigan Department of Environmental Quality non-residential cleanup criteria of

U - Non-detect

= - Detect

mg/kg - milligram per Kilogram

TABLE 12

PCB Results in Parkways of Residential Properties - Martin Drain Surface Soil (0 - 2 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-SO-101	101	TMD-SO-101-1/2	Total PCBs	0.04595	U	MG/KG	No
TMD-SO-122	122	TMD-SO-122-1.6/2	Total PCBs	0.0515	U	MG/KG	No
TMD-SO-123	123	TMD-SO-123-1.1/2.1	Total PCBs	0.0535	U	MG/KG	No
TMD-SO-98	98	TMD-SO-098-0.3/1.3	Total PCBs	0.04165	U	MG/KG	No

Notes:

[1] Total PCBs represent the sum of individual Aroclor analyses for each sample.

[2] Detected results were compared to the Michigan Department of Environmental Quality residential cleanup criteria of 4 ppm.

[3] EPA has concluded that a field screening concentration of 3.4 ppm in residential yards or parkways is equivalent to 4 ppm in a fixed laboratory (for comparison to the residential cleanup level). Therefore, if a sample >3.4 ppm, it is considered to exceed 4

U - Not Detected

mg/Kg - milligram per kilogram

TABLE 13

PCB Results in Yards of Residential Properties - Martin Drain Total Soil (0 - 7 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-SO-98	98	TMD-SO-098-6/6.7	Total PCBs	0.0555	U	MG/KG	No
TMD-SO-98	98	TMD-SO-098-0.3/1.3	Total PCBs	0.04165	U	MG/KG	No
TMD-SO-99	99	TMD-SO-099-1.8/2.8	Total PCBs	0.952	=	MG/KG	No
TMD-SO-99	99	TMD-SO-099-6.4/6.9	Total PCBs	0.0605	U	MG/KG	No
TMD-SO-99	99	TMD-SO-099-6.4/6.9-R	Total PCBs	0.058	U	MG/KG	No
TMD-SO-100	100	TMD-SO-100-1.4/2.4	Total PCBs	0.04635	U	MG/KG	No
TMD-SO-100	100	TMD-SO-100-6.5/7	Total PCBs	0.0525	U	MG/KG	No
TMD-SO-101	101	TMD-SO-101-2/3	Total PCBs	0.052	U	MG/KG	No
TMD-SO-101	101	TMD-SO-101-2/3-R	Total PCBs	0.051	U	MG/KG	No
TMD-SO-101	101	TMD-SO-101-1/2	Total PCBs	0.04595	U	MG/KG	No
TMD-SO-119	119	TMD-SO-119-1.3/2.3	Total PCBs	0.0545	U	MG/KG	No
TMD-SO-119	119	TMD-SO-119-3.7/4.7	Total PCBs	0.0496	U	MG/KG	No
TMD-SO-120	120	TMD-SO-120-1.4/2.4	Total PCBs	2.37	=	MG/KG	No
TMD-SO-120	120	TMD-SO-120-1.4/2.4-R	Total PCBs	1.92	=	MG/KG	No
TMD-SO-120	120	TMD-SO-120-2.4/3	Total PCBs	0.114	=	MG/KG	No
TMD-SO-121	121	TMD-SO-121-5/5.9	Total PCBs	8.59	=	MG/KG	Yes
TMD-SO-122	122	TMD-SO-122-2/2.4	Total PCBs	0.0605	U	MG/KG	No
TMD-SO-122	122	TMD-SO-122-2/2.4-R	Total PCBs	0.056	U	MG/KG	No
TMD-SO-122	122	TMD-SO-122-1.6/2	Total PCBs	0.0515	U	MG/KG	No
TMD-SO-123	123	TMD-SO-123-2.2/3.2	Total PCBs	0.04905	U	MG/KG	No
TMD-SO-123	123	TMD-SO-123-1.1/2.1	Total PCBs	0.0535	U	MG/KG	No

[1] Total PCBs represent the sum of individual Aroclor analyses for each sample.

[2] Detected results were compared to the Michigan Department of Environmental Quality residential cleanup criteria of 4 ppm.

[3] EPA has concluded that a field screening concentration of 3.4 ppm in residential yards or parkways is equivalent to 4 ppm in a fixed laboratory (for comparison to the residential cleanup level). Therefore, if a sample >3.4 ppm, it is considered to exceed 4 ppm.

U - Not Detected

= - Detect

mg/Kg - milligram per kilogram

TABLE 14

PCB Results in Utility Corridors along B Street - Martin Drain Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-SO-88	88	TMD-SO-088-2/3	Total PCBs	0.04685	U	MG/KG	No
TMD-SO-88	88	TMD-SO-088-6/7.5	Total PCBs	0.364	=	MG/KG	No
TMD-SO-89	89	TMD-SO-089-2/3	Total PCBs	0.0461	U	MG/KG	No
TMD-SO-89	89	TMD-SO-089-5/6	Total PCBs	0.04455	U	MG/KG	No
TMD-SO-90	90	TMD-SO-090-2/3	Total PCBs	0.0505	U	MG/KG	No
TMD-SO-90	90	TMD-SO-090-6/7	Total PCBs	0.045	U	MG/KG	No
TMD-SO-91	91	TMD-SO-091-2/3	Total PCBs	0.2184	=	MG/KG	No
TMD-SO-91	91	TMD-SO-091-7/8	Total PCBs	0.04675	U	MG/KG	No
TMD-SO-92	92	TMD-SO-092-2/3	Total PCBs	0.053	U	MG/KG	No
TMD-SO-92	92	TMD-SO-092-7.5/8.5	Total PCBs	0.175	=	MG/KG	No
TMD-SO-92	92	TMD-SO-092-7.5/8.5R	Total PCBs	0.0416	U	MG/KG	No
TMD-SO-93	93	TMD-SO-093-2/3	Total PCBs	0.04005	U	MG/KG	No
TMD-SO-93	93	TMD-SO-093-9/10	Total PCBs	0.0465	U	MG/KG	No
TMD-SO-94	94	TMD-SO-094-2/3	Total PCBs	0.0985	=	MG/KG	No
TMD-SO-94	94	TMD-SO-094-3.5/4.2	Total PCBs	0.472	=	MG/KG	No
TMD-SO-95	95	TMD-SO-095-4.4/4.8	Total PCBs	0.053	U	MG/KG	No
TMD-SO-95	95	TMD-SO-095-4.4/4.8-R	Total PCBs	0.0505	U	MG/KG	No
TMD-SO-95	95	TMD-SO-095-6.2/6.8	Total PCBs	0.0555	U	MG/KG	No
TMD-SO-96	96	TMD-SO-096-2.8/3.8	Total PCBs	0.225	=	MG/KG	No
TMD-SO-96	96	TMD-SO-096-6.3/7.3	Total PCBs	0.0525	U	MG/KG	No
TMD-SO-97	97	TMD-SO-097-1.5/2.5	Total PCBs	0.0505	U	MG/KG	No
TMD-SO-97	97	TMD-SO-097-5/5.7	Total PCBs	0.4175	=	MG/KG	No
TMD-SO-102	102	TMD-SO-102-2.4/3.4	Total PCBs	0.647	=	MG/KG	No
TMD-SO-102	102	TMD-SO-102-3.4/4.4	Total PCBs	0.694	=	MG/KG	No

Notes:

[1] Total PCBs represent the sum of individual Aroclor analyses for each sample.

[2] Detected results were compared to the Michigan Department of Environmental Quality non-residential cleanup criteria of 16 ppm.

U - Non-detect

= - Detect

mg/kg - milligram per Kilogram

TABLE 15

PCB Results in Utility Corridors along Bon Brea Street - Martin Drain Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-SO-103	103	TMD-SO-103-1.4/2.4	Total PCBs	0.04745	U	MG/KG	No
TMD-SO-103	103	TMD-SO-103-5/6	Total PCBs	0.0525	U	MG/KG	No
TMD-SO-105	105	TMD-SO-105-2.2/3.2	Total PCBs	11.2	=	MG/KG	No
TMD-SO-105	105	TMD-SO-105-3.4/4	Total PCBs	169	=	MG/KG	Yes
TMD-SO-106	106	TMD-SO-106-3/3.6	Total PCBs	0.305	=	MG/KG	No
TMD-SO-106	106	TMD-SO-106-5/6	Total PCBs	0.04315	U	MG/KG	No
TMD-SO-107	107	TMD-SO-107-1.9/2.9	Total PCBs	2.57	=	MG/KG	No
TMD-SO-107	107	TMD-SO-107-12.9/3.9	Total PCBs	0.0505	U	MG/KG	No
TMD-SO-108	108	TMD-SO-108-2.3/3.3	Total PCBs	0.0941	=	MG/KG	No

Notes:

[1] Total PCBs represent the sum of individual Aroclor analyses for each sample.

[2] Detected results were compared to the Michigan Department of Environmental Quality non-residential cleanup criteria of 16 ppm.

U - Non-detect

= - Detect

mg/kg - milligram per Kilogram

TABLE 16

PCB Results in Utility Corridors along Jefferson Street - Martin Drain Total Soil (0 - 10 ft)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Station ID	Property Location ID	Sample ID	Chemical [1]	Result	Qualifier	Units	Exceedance [2]
TMD-SO-109	109	TMD-SO-109-5.8/6.3	Total PCBs	0.36	=	MG/KG	No
TMD-SO-109	109	TMD-SO-109-6.3/6.8	Total PCBs	0.0545	U	MG/KG	No
TMD-SO-110	110	TMD-SO-110-6.1/7	Total PCBs	0.051	U	MG/KG	No
TMD-SO-111	111	TMD-SO-111-1.5/2.5	Total PCBs	0.037	U	MG/KG	No
TMD-SO-111	111	TMD-SO-111-5/6	Total PCBs	0.0535	U	MG/KG	No
TMD-SO-112	112	TMD-SO-112-1.7/2.7	Total PCBs	0.0405	U	MG/KG	No
TMD-SO-112	112	TMD-SO-112-5/6	Total PCBs	0.04795	U	MG/KG	No
TMD-SO-113	113	TMD-SO-113-2/3	Total PCBs	0.04215	U	MG/KG	No
TMD-SO-113	113	TMD-SO-113-5/6	Total PCBs	0.0525	U	MG/KG	No
TMD-SO-114	114	TMD-SO-114-2.5/3.5	Total PCBs	0.051	U	MG/KG	No
TMD-SO-114	114	TMD-SO-114-2.5/3.5-R	Total PCBs	0.0493	U	MG/KG	No
TMD-SO-114	114	TMD-SO-114-5/5.6	Total PCBs	0.04505	U	MG/KG	No
TMD-SO-115	115	TMD-SO-115-2.9/3.9	Total PCBs	0.0565	U	MG/KG	No
TMD-SO-115	115	TMD-SO-115-5/5.4	Total PCBs	0.04725	U	MG/KG	No
TMD-SO-116	116	TMD-SO-116-3.8/4.6	Total PCBs	0.041	U	MG/KG	No
TMD-SO-116	116	TMD-SO-116-5.8/6.8	Total PCBs	0.0535	U	MG/KG	No
TMD-SO-117	117	TMD-SO-117-2.3/3.3	Total PCBs	0.0515	U	MG/KG	No

Notes:

[1] Total PCBs represent the sum of individual Aroclor analyses for each sample.

[2] Detected results were compared to the Michigan Department of Environmental Quality non-residential cleanup criteria of 16 ppm.

U - Non-detect

= - Detect

mg/kg - milligram per Kilogram

TABLE 17

Summary of Human Health Risk Estimates and Chemicals of Concern

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Scenario Time Frame	Medium	Exposure Medium	Receptor Population	Risks and COCs[1]			
				ELCR	HI	Carcinogenic COCs	Non-Carcinogenic COCs
Current and Future	Surface Soil (0 - 2 ft) and Total Soil (0 - 10 ft) TMD	Surface Soil (Yard and Parkway) and Total Soil (Yard)	Resident (adult)		≤ 1		total PCBs
			Resident (child)		3		
			Resident (adult/child aggregate)	1.E-05			
			Commercial Worker	2.E-05	≤ 1		
	Total Soil (0 - 10 ft) MD	Total Soil (Yard)	Resident (adult)		≤ 1		total PCBs
			Resident (child)		3		
			Resident (adult/child aggregate)	1.E-05			
Current/Future	Surface Water	Surface Water	Recreational User (adult)	8.E-04	69	total PCBs	total PCBs
			Recreational User (child)	4.E-04	112	total PCBs	total PCBs
	Fish	Fish Tissue	Recreational Angler (adult)	2.E-02	1827	PCB TEQ (Dioxin-like PCBs) Non-dioxin-like-PCBs	PCB TEQ (Dioxin-like PCBs) Non-dioxin-like-PCBs
			Recreational Angler (child)	1.E-02	3249	PCB TEQ (Dioxin-like PCBs) Non-dioxin-like-PCBs	PCB TEQ (Dioxin-like PCBs) Non-dioxin-like-PCBs
	Total Soil (0 - 10 ft) TMD	Total Soil (Utility Corridors along Harper Avenue)	Utility Worker	2.E-08	≤ 1		
		Total Soil (Utility Corridors along Bon Brae Street)	Utility Worker	2.E-06	15		total PCBs
		Total Soil (Utility Corridors along Lakeland Street)	Utility Worker	5.E-07	4		total PCBs
		Total Soil (Utility Corridors along Ten-Mile Drain)	Utility Worker	5.E-07	4		total PCBs
	Total Soil (0 - 10 ft) MD	Total Soil (Utility Corridors along Bon Brae Street)	Utility Worker	5.E-06	34		total PCBs

Notes

ELCR = Excess Lifetime Cancer Risk

HQ/HI = Hazard Quotient/Hazard Index

TMD = Ten Mile Drain

MD = Martin Drain

[1]Chemicals of Concern (COCs) were identified in the following manner:

Cancer: If an individual PCB posing ELCR exceeding $1x10^{-4}$ for a receptor, that PCB parameter was identified as a COC.

Non-Cancer: If an individual PCB parameter HI exceeds 1 for a receptor, that PCB parameter was identified as a COC.

Appendix E
PRO UCL Calculations

ProUCL Output

HHRA Grouping: Fish Tissue

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	3/17/2014 5:31:37 PM
From File	TMD_Tissue_ProUCL_input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Total PCBs -Congeners (mg/Kg)

General Statistics

Total Number of Observations	38	Number of Distinct Observations	38
		Number of Missing Observations	0
Minimum	0.312	Mean	31.87
Maximum	201.4	Median	12.83
SD	46.87	Std. Error of Mean	7.604
Coefficient of Variation	1.471	Skewness	2.063

Normal GOF Test

Shapiro Wilk Test Statistic	0.685	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.938	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.313	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.144	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	44.7	95% Adjusted-CLT UCL (Chen-1995)	47.1
		95% Modified-t UCL (Johnson-1978)	45.12

Gamma GOF Test

A-D Test Statistic	0.865	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.805	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.154	**Kolmogrov-Smirnoff Gamma GOF Test**
5% K-S Critical Value	0.151	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	0.578	k star (bias corrected MLE)	0.55
Theta hat (MLE)	55.15	Theta star (bias corrected MLE)	57.96
nu hat (MLE)	43.92	nu star (bias corrected)	41.79
MLE Mean (bias corrected)	31.87	MLE Sd (bias corrected)	42.98
		Approximate Chi Square Value (0.05)	27.97
Adjusted Level of Significance	0.0434	Adjusted Chi Square Value	27.5

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	47.61	95% Adjusted Gamma UCL (use when n<50)	48.43

Lognormal GOF Test

57	Shapiro Wilk Test Statistic					0.971	**Shapiro Wilk Lognormal GOF Test**					
58	5% Shapiro Wilk Critical Value					0.938	Data appear Lognormal at 5% Significance Level					
59	Lilliefors Test Statistic					0.0975	**Lilliefors Lognormal GOF Test**					
60	5% Lilliefors Critical Value					0.144	Data appear Lognormal at 5% Significance Level					
61	**Data appear Lognormal at 5% Significance Level**											
62												
63	**Lognormal Statistics**											
64	Minimum of Logged Data					-1.166	Mean of logged Data					2.387
65	Maximum of Logged Data					5.305	SD of logged Data					1.637
66												
67	**Assuming Lognormal Distribution**											
68	95% H-UCL					98.86	90% Chebyshev (MVUE) UCL					79.3
69	95% Chebyshev (MVUE) UCL					97.76	97.5% Chebyshev (MVUE) UCL					123.4
70	99% Chebyshev (MVUE) UCL					173.7						
71												
72	**Nonparametric Distribution Free UCL Statistics**											
73	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
74												
75	**Nonparametric Distribution Free UCLs**											
76	95% CLT UCL					44.38	95% Jackknife UCL					44.7
77	95% Standard Bootstrap UCL					44.08	95% Bootstrap-t UCL					49.21
78	95% Hall's Bootstrap UCL					46.89	95% Percentile Bootstrap UCL					45
79	95% BCA Bootstrap UCL					49.24						
80	90% Chebyshev(Mean, Sd) UCL					54.68	95% Chebyshev(Mean, Sd) UCL					65.01
81	97.5% Chebyshev(Mean, Sd) UCL					79.36	99% Chebyshev(Mean, Sd) UCL					107.5
82												
83	**Suggested UCL to Use**											
84	95% Chebyshev (Mean, Sd) UCL					65.01						
85												
86	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
87	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
88	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
89	For additional insight the user may want to consult a statistician.											
90												
91												
92	**TotCongPCB, Dioxin-like-PCBs TEQ (mg/Kg)**											
93												
94	**General Statistics**											
95	Total Number of Observations					38	Number of Distinct Observations					38
96							Number of Missing Observations					0
97	Minimum					6.6000E-8	Mean					1.3467E-5
98	Maximum					1.2096E-4	Median					2.4195E-6
99	SD					2.5508E-5	Std. Error of Mean					4.1379E-6
100	Coefficient of Variation					N/A	Skewness					2.708
101												
102	**Normal GOF Test**											
103	Shapiro Wilk Test Statistic					0.588	**Shapiro Wilk GOF Test**					
104	5% Shapiro Wilk Critical Value					0.938	Data Not Normal at 5% Significance Level					
105	Lilliefors Test Statistic					0.347	**Lilliefors GOF Test**					
106	5% Lilliefors Critical Value					0.144	Data Not Normal at 5% Significance Level					
107	**Data Not Normal at 5% Significance Level**											
108												
109	**Assuming Normal Distribution**											
110	**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**					
111	95% Student's-t UCL					2.0448E-5	95% Adjusted-CLT UCL (Chen-1995)					2.2216E-5
112							95% Modified-t UCL (Johnson-1978)					2.0751E-5

113											
114	**Gamma GOF Test**										
115	A-D Test Statistic				1.865	**Anderson-Darling Gamma GOF Test**					
116	5% A-D Critical Value				0.835	Data Not Gamma Distributed at 5% Significance Level					
117	K-S Test Statistic				0.215	**Kolmogrov-Smimoff Gamma GOF Test**					
118	5% K-S Critical Value				0.153	Data Not Gamma Distributed at 5% Significance Level					
119	**Data Not Gamma Distributed at 5% Significance Level**										
120											
121	**Gamma Statistics**										
122	k hat (MLE)				0.4	k star (bias corrected MLE)					0.386
123	Theta hat (MLE)				3.3650E-5	Theta star (bias corrected MLE)					3.4874E-5
124	nu hat (MLE)				30.42	nu star (bias corrected)					29.35
125	MLE Mean (bias corrected)				1.3467E-5	MLE Sd (bias corrected)					2.1672E-5
126						Approximate Chi Square Value (0.05)					17.98
127	Adjusted Level of Significance				0.0434	Adjusted Chi Square Value					17.61
128											
129	**Assuming Gamma Distribution**										
130	95% Approximate Gamma UCL (use when n>=50))				2.1981E-5	95% Adjusted Gamma UCL (use when n<50)					2.2442E-5
131											
132	**Lognormal GOF Test**										
133	Shapiro Wilk Test Statistic				0.959	**Shapiro Wilk Lognormal GOF Test**					
134	5% Shapiro Wilk Critical Value				0.938	Data appear Lognormal at 5% Significance Level					
135	Lilliefors Test Statistic				0.104	**Lilliefors Lognormal GOF Test**					
136	5% Lilliefors Critical Value				0.144	Data appear Lognormal at 5% Significance Level					
137	**Data appear Lognormal at 5% Significance Level**										
138											
139	**Lognormal Statistics**										
140	Minimum of Logged Data				-16.53	Mean of logged Data					-12.86
141	Maximum of Logged Data				-9.02	SD of logged Data					1.941
142											
143	**Assuming Lognormal Distribution**										
144	95% H-UCL				5.4930E-5	90% Chebyshev (MVUE) UCL					3.4849E-5
145	95% Chebyshev (MVUE) UCL				4.3810E-5	97.5% Chebyshev (MVUE) UCL					5.6248E-5
146	99% Chebyshev (MVUE) UCL				8.0679E-5						
147											
148	**Nonparametric Distribution Free UCL Statistics**										
149	**Data appear to follow a Discernible Distribution at 5% Significance Level**										
150											
151	**Nonparametric Distribution Free UCLs**										
152	95% CLT UCL				2.0274E-5	95% Jackknife UCL					2.0448E-5
153	95% Standard Bootstrap UCL				2.0115E-5	95% Bootstrap-t UCL					2.4464E-5
154	95% Hall's Bootstrap UCL				2.3465E-5	95% Percentile Bootstrap UCL					2.1070E-5
155	95% BCA Bootstrap UCL				2.2529E-5						
156	90% Chebyshev(Mean, Sd) UCL				2.5881E-5	95% Chebyshev(Mean, Sd) UCL					3.1504E-5
157	97.5% Chebyshev(Mean, Sd) UCL				3.9309E-5	99% Chebyshev(Mean, Sd) UCL					5.4639E-5
158											
159	**Suggested UCL to Use**										
160	95% Chebyshev (Mean, Sd) UCL				3.1504E-5						
161											
162	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.										
163	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)										
164	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.										
165	For additional insight the user may want to consult a statistician.										
166											
167											
168	**TotCongPCB, Non-dioxin-like-PCBs (mg/Kg)**										

169											
170	**General Statistics**										
171	Total Number of Observations				38	Number of Distinct Observations					38
172						Number of Missing Observations					0
173	Minimum				0.31	Mean					31.46
174	Maximum				197.8	Median					12.69
175	SD				46.13	Std. Error of Mean					7.483
176	Coefficient of Variation				1.466	Skewness					2.053
177											
178	**Normal GOF Test**										
179	Shapiro Wilk Test Statistic				0.687	**Shapiro Wilk GOF Test**					
180	5% Shapiro Wilk Critical Value				0.938	Data Not Normal at 5% Significance Level					
181	Lilliefors Test Statistic				0.312	**Lilliefors GOF Test**					
182	5% Lilliefors Critical Value				0.144	Data Not Normal at 5% Significance Level					
183	**Data Not Normal at 5% Significance Level**										
184											
185	**Assuming Normal Distribution**										
186	**95% Normal UCL**					**95% UCLs (Adjusted for Skewness)**					
187	95% Student's-t UCL				44.08	95% Adjusted-CLT UCL (Chen-1995)					46.43
188						95% Modified-t UCL (Johnson-1978)					44.5
189											
190	**Gamma GOF Test**										
191	A-D Test Statistic				0.856	**Anderson-Darling Gamma GOF Test**					
192	5% A-D Critical Value				0.805	Data Not Gamma Distributed at 5% Significance Level					
193	K-S Test Statistic				0.152	**Kolmogrov-Smimoff Gamma GOF Test**					
194	5% K-S Critical Value				0.151	Data Not Gamma Distributed at 5% Significance Level					
195	**Data Not Gamma Distributed at 5% Significance Level**										
196											
197	**Gamma Statistics**										
198	k hat (MLE)				0.579	k star (bias corrected MLE)					0.551
199	Theta hat (MLE)				54.28	Theta star (bias corrected MLE)					57.06
200	nu hat (MLE)				44.04	nu star (bias corrected)					41.89
201	MLE Mean (bias corrected)				31.46	MLE Sd (bias corrected)					42.37
202						Approximate Chi Square Value (0.05)					28.06
203	Adjusted Level of Significance				0.0434	Adjusted Chi Square Value					27.59
204											
205	**Assuming Gamma Distribution**										
206	95% Approximate Gamma UCL (use when n>=50))				46.97	95% Adjusted Gamma UCL (use when n<50)					47.77
207											
208	**Lognormal GOF Test**										
209	Shapiro Wilk Test Statistic				0.971	**Shapiro Wilk Lognormal GOF Test**					
210	5% Shapiro Wilk Critical Value				0.938	Data appear Lognormal at 5% Significance Level					
211	Lilliefors Test Statistic				0.0991	**Lilliefors Lognormal GOF Test**					
212	5% Lilliefors Critical Value				0.144	Data appear Lognormal at 5% Significance Level					
213	**Data appear Lognormal at 5% Significance Level**										
214											
215	**Lognormal Statistics**										
216	Minimum of Logged Data				-1.173	Mean of logged Data					2.377
217	Maximum of Logged Data				5.287	SD of logged Data					1.636
218											
219	**Assuming Lognormal Distribution**										
220	95% H-UCL				97.61	90% Chebyshev (MVUE) UCL					78.35
221	95% Chebyshev (MVUE) UCL				96.59	97.5% Chebyshev (MVUE) UCL					121.9
222	99% Chebyshev (MVUE) UCL				171.6						
223											

	A	B	C	D	E	F	G	H	I	J	K	L
224	**Nonparametric Distribution Free UCL Statistics**											
225	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
226												
227	**Nonparametric Distribution Free UCLs**											
228	95% CLT UCL					43.76	95% Jackknife UCL					44.08
229	95% Standard Bootstrap UCL					43.46	95% Bootstrap-t UCL					48.27
230	95% Hall's Bootstrap UCL					46.76	95% Percentile Bootstrap UCL					44.42
231	95% BCA Bootstrap UCL					47						
232	90% Chebyshev(Mean, Sd) UCL					53.9	95% Chebyshev(Mean, Sd) UCL					64.07
233	97.5% Chebyshev(Mean, Sd) UCL					78.19	99% Chebyshev(Mean, Sd) UCL					105.9
234												
235	**Suggested UCL to Use**											
236	95% Chebyshev (Mean, Sd) UCL					64.07						
237												
238	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
239	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
240	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
241	For additional insight the user may want to consult a statistician.											
242												

ProUCL Output

HHRA Grouping: Utility Corridors along Bon Brea Street

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	3/17/2014 8:33:16 PM
From File	TMD_Utility_TS_BonBrae_ProUCL_input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Total PCBs (mg/Kg)

General Statistics

Total Number of Observations	52	Number of Distinct Observations	32
Number of Detects	17	Number of Non-Detects	35
Number of Distinct Detects	17	Number of Distinct Non-Detects	15
Minimum Detect	0.465	Minimum Non-Detect	0.24
Maximum Detect	300.2	Maximum Non-Detect	0.42
Variance Detects	5404	Percent Non-Detects	67.31%
Mean Detects	30.04	SD Detects	73.51
Median Detects	2.24	CV Detects	2.447
Skewness Detects	3.491	Kurtosis Detects	13
Mean of Logged Detects	1.35	SD of Logged Detects	2.002

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.461	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.892	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.371	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.215	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	9.982	Standard Error of Mean	6.162
SD	43.11	95% KM (BCA) UCL	21.7
95% KM (t) UCL	20.3	95% KM (Percentile Bootstrap) UCL	21.12
95% KM (z) UCL	20.12	95% KM Bootstrap t UCL	54.37
90% KM Chebyshev UCL	28.47	95% KM Chebyshev UCL	36.84
97.5% KM Chebyshev UCL	48.46	99% KM Chebyshev UCL	71.29

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.694	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.835	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.322	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.226	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.331	k star (bias corrected MLE)	0.312
Theta hat (MLE)	90.83	Theta star (bias corrected MLE)	96.41
nu hat (MLE)	11.24	nu star (bias corrected)	10.59
MLE Mean (bias corrected)	30.04	MLE Sd (bias corrected)	53.82

57	**Gamma Kaplan-Meier (KM) Statistics**											
58	k hat (KM)				0.0536	nu hat (KM)						5.577
59	Approximate Chi Square Value (5.58, α)				1.428	Adjusted Chi Square Value (5.58, β)						1.369
60	95% Gamma Approximate KM-UCL (use when n>=50)				38.99	95% Gamma Adjusted KM-UCL (use when n<50)						40.65
61	Gamma (KM) may not be used when k hat (KM) is < 0.1											
62												
63	**Gamma ROS Statistics using Imputed Non-Detects**											
64	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
65	GROS may not be used when kstar of detected data is small such as < 0.1											
66	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
67	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
68	Minimum				0.01	Mean						9.827
69	Maximum				300.2	Median						0.01
70	SD				43.56	CV						4.433
71	k hat (MLE)				0.155	k star (bias corrected MLE)						0.159
72	Theta hat (MLE)				63.5	Theta star (bias corrected MLE)						61.94
73	nu hat (MLE)				16.1	nu star (bias corrected)						16.5
74	MLE Mean (bias corrected)				9.827	MLE Sd (bias corrected)						24.67
75						Adjusted Level of Significance (β)						0.0454
76	Approximate Chi Square Value (16.50, α)				8.317	Adjusted Chi Square Value (16.50, β)						8.15
77	95% Gamma Approximate UCL (use when n>=50)				19.5	95% Gamma Adjusted UCL (use when n<50)						19.9
78												
79	**Lognormal GOF Test on Detected Observations Only**											
80	Shapiro Wilk Test Statistic				0.88	**Shapiro Wilk GOF Test**						
81	5% Shapiro Wilk Critical Value				0.892	Detected Data Not Lognormal at 5% Significance Level						
82	Lilliefors Test Statistic				0.215	**Lilliefors GOF Test**						
83	5% Lilliefors Critical Value				0.215	Detected Data Not Lognormal at 5% Significance Level						
84	**Detected Data Not Lognormal at 5% Significance Level**											
85												
86	**Lognormal ROS Statistics Using Imputed Non-Detects**											
87	Mean in Original Scale				9.83	Mean in Log Scale						-3.067
88	SD in Original Scale				43.56	SD in Log Scale						3.566
89	95% t UCL (assumes normality of ROS data)				19.95	95% Percentile Bootstrap UCL						20.35
90	95% BCA Bootstrap UCL				27.77	95% Bootstrap t UCL						47.09
91	95% H-UCL (Log ROS)				502.8							
92												
93	**DL/2 Statistics**											
94	**DL/2 Normal**					**DL/2 Log-Transformed**						
95	Mean in Original Scale				9.93	Mean in Log Scale						-0.788
96	SD in Original Scale				43.54	SD in Log Scale						1.879
97	95% t UCL (Assumes normality)				20.04	95% H-Stat UCL						6.521
98	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
99												
100	**Nonparametric Distribution Free UCL Statistics**											
101	**Data do not follow a Discernible Distribution at 5% Significance Level**											
102												
103	**Suggested UCL to Use**											
104	99% KM (Chebyshev) UCL				71.29							
105												
106	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
107	Recommendations are based upon data size, data distribution, and skewness.											
108	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
109	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
110												

1	**ProUCL Output**											
2	**HHRA Grouping:** Utility Corridors along Harper Avenue											
3	*Remedial Investigation/Feasibility Study*											
4	*Ten Mile Drain, St. Clair Shores, Michigan*											
5												
6	**UCL Statistics for Data Sets with Non-Detects**											
7												
8	User Selected Options											
9	Date/Time of Computation	8/12/2014 9:45:20 AM										
10	From File	TMD_Utility_TS_Harper_proUCL_082014.xls										
11	Full Precision	OFF										
12	Confidence Coefficient	95%										
13	mber of Bootstrap Operations	2000										
14												
15	**Total PCBs (mg/Kg)**											
16												
17	**General Statistics**											
18	Total Number of Observations	119	Number of Distinct Observations	36								
19	Number of Detects	15	Number of Non-Detects	104								
20	Number of Distinct Detects	15	Number of Distinct Non-Detects	22								
21	Minimum Detect	0.32	Minimum Non-Detect	0.0188								
22	Maximum Detect	8.4	Maximum Non-Detect	0.42								
23	Variance Detects	5.792	Percent Non-Detects	87.39%								
24	Mean Detects	2.623	SD Detects	2.407								
25	Median Detects	1.555	CV Detects	0.917								
26	Skewness Detects	1.299	Kurtosis Detects	1.034								
27	Mean of Logged Detects	0.544	SD of Logged Detects	0.998								
28												
29	**Normal GOF Test on Detects Only**											
30	Shapiro Wilk Test Statistic	0.854	**Shapiro Wilk GOF Test**									
31	5% Shapiro Wilk Critical Value	0.881	Detected Data Not Normal at 5% Significance Level									
32	Lilliefors Test Statistic	0.205	**Lilliefors GOF Test**									
33	5% Lilliefors Critical Value	0.229	Detected Data appear Normal at 5% Significance Level									
34	**Detected Data appear Approximate Normal at 5% Significance Level**											
35												
36	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
37	Mean	0.352	Standard Error of Mean	0.114								
38	SD	1.195	95% KM (BCA) UCL	0.737								
39	95% KM (t) UCL	0.54	95% KM (Percentile Bootstrap) UCL	0.654								
40	95% KM (z) UCL	0.539	95% KM Bootstrap t UCL	0.562								
41	90% KM Chebyshev UCL	0.692	95% KM Chebyshev UCL	0.847								
42	97.5% KM Chebyshev UCL	1.061	99% KM Chebyshev UCL	1.481								
43												
44	**Gamma GOF Tests on Detected Observations Only**											
45	A-D Test Statistic	0.211	**Anderson-Darling GOF Test**									
46	5% A-D Critical Value	0.757	Detected data appear Gamma Distributed at 5% Significance Level									
47	K-S Test Statistic	0.133	**Kolmogrov-Smirnoff GOF**									
48	5% K-S Critical Value	0.226	Detected data appear Gamma Distributed at 5% Significance Level									
49	**Detected data appear Gamma Distributed at 5% Significance Level**											
50												
51	**Gamma Statistics on Detected Data Only**											
52	k hat (MLE)	1.331	k star (bias corrected MLE)	1.109								
53	Theta hat (MLE)	1.971	Theta star (bias corrected MLE)	2.365								
54	nu hat (MLE)	39.92	nu star (bias corrected)	33.27								
55	MLE Mean (bias corrected)	2.623	MLE Sd (bias corrected)	2.491								
56												

	A	B	C	D	E	F	G	H	I	J	K	L
57	**Gamma Kaplan-Meier (KM) Statistics**											
58	k hat (KM)					0.0868	nu hat (KM)					20.66
59	Approximate Chi Square Value (20.66, α)					11.34	Adjusted Chi Square Value (20.66, β)					11.25
60	5% Gamma Approximate KM-UCL (use when n>=50)					0.641	95% Gamma Adjusted KM-UCL (use when n<50)					0.646
61	Gamma (KM) may not be used when k hat (KM) is < 0.1											
62												
63	**Gamma ROS Statistics using Imputed Non-Detects**											
64	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
65	GROS may not be used when kstar of detected data is small such as < 0.1											
66	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
67	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
68	Minimum					0.01	Mean					0.339
69	Maximum					8.4	Median					0.01
70	SD					1.202	CV					3.543
71	k hat (MLE)					0.247	k star (bias corrected MLE)					0.247
72	Theta hat (MLE)					1.372	Theta star (bias corrected MLE)					1.375
73	nu hat (MLE)					58.89	nu star (bias corrected)					58.73
74	MLE Mean (bias corrected)					0.339	MLE Sd (bias corrected)					0.683
75							Adjusted Level of Significance (β)					0.048
76	Approximate Chi Square Value (58.73, α)					42.11	Adjusted Chi Square Value (58.73, β)					41.94
77	95% Gamma Approximate UCL (use when n>=50)					0.473	95% Gamma Adjusted UCL (use when n<50)					0.475
78												
79	**Lognormal GOF Test on Detected Observations Only**											
80	Shapiro Wilk Test Statistic					0.972	**Shapiro Wilk GOF Test**					
81	5% Shapiro Wilk Critical Value					0.881	Detected Data appear Lognormal at 5% Significance Level					
82	Lilliefors Test Statistic					0.0886	**Lilliefors GOF Test**					
83	5% Lilliefors Critical Value					0.229	Detected Data appear Lognormal at 5% Significance Level					
84	**Detected Data appear Lognormal at 5% Significance Level**											
85												
86	**Lognormal ROS Statistics Using Imputed Non-Detects**											
87	Mean in Original Scale					0.368	Mean in Log Scale					-3.581
88	SD in Original Scale					1.196	SD in Log Scale					2.199
89	95% t UCL (assumes normality of ROS data)					0.55	95% Percentile Bootstrap UCL					0.553
90	95% BCA Bootstrap UCL					0.605	95% Bootstrap t UCL					0.642
91	95% H-UCL (Log ROS)					0.645						
92												
93	**UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed**											
94	KM Mean (logged)					-3.359	95% H-UCL (KM -Log)					0.177
95	KM SD (logged)					1.562	95% Critical H Value (KM-Log)					2.812
96	KM Standard Error of Mean (logged)					0.159						
97												
98	**DL/2 Statistics**											
99	**DL/2 Normal**						**DL/2 Log-Transformed**					
100	Mean in Original Scale					0.478	Mean in Log Scale					-1.51
101	SD in Original Scale					1.165	SD in Log Scale					0.905
102	95% t UCL (Assumes normality)					0.655	95% H-Stat UCL					0.397
103	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
104												
105	**Nonparametric Distribution Free UCL Statistics**											
106	**Detected Data appear Approximate Normal Distributed at 5% Significance Level**											
107												
108	**Suggested UCL to Use**											
109	95% KM (t) UCL					0.54	95% KM (Percentile Bootstrap) UCL					0.654
110												
111	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
112	Recommendations are based upon data size, data distribution, and skewness.											
113	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
114	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											

1	**ProUCL Output**											
2	**HHRA Grouping:** Utility Corridors along Harper Avenue											
3	*Remedial Investigation/Feasibility Study*											
4	*Ten Mile Drain, St. Clair Shores, Michigan*											
5												
6	**UCL Statistics for Data Sets with Non-Detects**											
7												
8	User Selected Options											
9	Date/Time of Computation	8/12/2014 9:52:07 AM										
10	From File	TMD_Utility_TS_Landland_proUCL_082014.xls										
11	Full Precision	OFF										
12	Confidence Coefficient	95%										
13	mber of Bootstrap Operations	2000										
14												
15	**Total PCBs (mg/Kg)**											
16												
17	**General Statistics**											
18	Total Number of Observations	46	Number of Distinct Observations	39								
19	Number of Detects	30	Number of Non-Detects	16								
20	Number of Distinct Detects	29	Number of Distinct Non-Detects	10								
21	Minimum Detect	0.0526	Minimum Non-Detect	0.0192								
22	Maximum Detect	89.2	Maximum Non-Detect	0.4								
23	Variance Detects	293.1	Percent Non-Detects	34.78%								
24	Mean Detects	7.075	SD Detects	17.12								
25	Median Detects	2.315	CV Detects	2.42								
26	Skewness Detects	4.273	Kurtosis Detects	19.6								
27	Mean of Logged Detects	0.703	SD of Logged Detects	1.546								
28												
29	**Normal GOF Test on Detects Only**											
30	Shapiro Wilk Test Statistic	0.415	**Shapiro Wilk GOF Test**									
31	5% Shapiro Wilk Critical Value	0.927	Detected Data Not Normal at 5% Significance Level									
32	Lilliefors Test Statistic	0.368	**Lilliefors GOF Test**									
33	5% Lilliefors Critical Value	0.162	Detected Data Not Normal at 5% Significance Level									
34	**Detected Data Not Normal at 5% Significance Level**											
35												
36	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
37	Mean	4.649	Standard Error of Mean	2.098								
38	SD	13.99	95% KM (BCA) UCL	9.015								
39	95% KM (t) UCL	8.173	95% KM (Percentile Bootstrap) UCL	8.276								
40	95% KM (z) UCL	8.101	95% KM Bootstrap t UCL	19.11								
41	90% KM Chebyshev UCL	10.94	95% KM Chebyshev UCL	13.8								
42	97.5% KM Chebyshev UCL	17.75	99% KM Chebyshev UCL	25.53								
43												
44	**Gamma GOF Tests on Detected Observations Only**											
45	A-D Test Statistic	1.691	**Anderson-Darling GOF Test**									
46	5% A-D Critical Value	0.809	Detected Data Not Gamma Distributed at 5% Significance Level									
47	K-S Test Statistic	0.222	**Kolmogrov-Smirnoff GOF**									
48	5% K-S Critical Value	0.169	Detected Data Not Gamma Distributed at 5% Significance Level									
49	**Detected Data Not Gamma Distributed at 5% Significance Level**											
50												
51	**Gamma Statistics on Detected Data Only**											
52	k hat (MLE)	0.506	k star (bias corrected MLE)	0.477								
53	Theta hat (MLE)	13.99	Theta star (bias corrected MLE)	14.82								
54	nu hat (MLE)	30.34	nu star (bias corrected)	28.64								
55	MLE Mean (bias corrected)	7.075	MLE Sd (bias corrected)	10.24								
56												

57	**Gamma Kaplan-Meier (KM) Statistics**											
58	k hat (KM)				0.11	nu hat (KM)					10.16	
59	Approximate Chi Square Value (10.16, α)				4.039	Adjusted Chi Square Value (10.16, β)					3.915	
60	5% Gamma Approximate KM-UCL (use when n>=50)				11.69	95% Gamma Adjusted KM-UCL (use when n<50)					12.06	
61												
62	**Gamma ROS Statistics using Imputed Non-Detects**											
63	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
64	GROS may not be used when kstar of detected data is small such as < 0.1											
65	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
66	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
67	Minimum				0.01	Mean					4.618	
68	Maximum				89.2	Median					0.515	
69	SD				14.16	CV					3.066	
70	k hat (MLE)				0.263	k star (bias corrected MLE)					0.261	
71	Theta hat (MLE)				17.53	Theta star (bias corrected MLE)					17.71	
72	nu hat (MLE)				24.24	nu star (bias corrected)					23.99	
73	MLE Mean (bias corrected)				4.618	MLE Sd (bias corrected)					9.043	
74						Adjusted Level of Significance (β)					0.0448	
75	Approximate Chi Square Value (23.99, α)				13.84	Adjusted Chi Square Value (23.99, β)					13.59	
76	95% Gamma Approximate UCL (use when n>=50)				8.004	95% Gamma Adjusted UCL (use when n<50)					8.151	
77												
78	**Lognormal GOF Test on Detected Observations Only**											
79	Shapiro Wilk Test Statistic				0.978	**Shapiro Wilk GOF Test**						
80	5% Shapiro Wilk Critical Value				0.927	Detected Data appear Lognormal at 5% Significance Level						
81	Lilliefors Test Statistic				0.0976	**Lilliefors GOF Test**						
82	5% Lilliefors Critical Value				0.162	Detected Data appear Lognormal at 5% Significance Level						
83	**Detected Data appear Lognormal at 5% Significance Level**											
84												
85	**Lognormal ROS Statistics Using Imputed Non-Detects**											
86	Mean in Original Scale				4.645	Mean in Log Scale					-0.451	
87	SD in Original Scale				14.15	SD in Log Scale					2.056	
88	95% t UCL (assumes normality of ROS data)				8.148	95% Percentile Bootstrap UCL					8.536	
89	95% BCA Bootstrap UCL				11.38	95% Bootstrap t UCL					19.26	
90	95% H-UCL (Log ROS)				16.2							
91												
92	**UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed**											
93	KM Mean (logged)				-0.531	95% H-UCL (KM -Log)					21.87	
94	KM SD (logged)				2.178	95% Critical H Value (KM-Log)					3.83	
95	KM Standard Error of Mean (logged)				0.393							
96												
97	**DL/2 Statistics**											
98	**DL/2 Normal**					**DL/2 Log-Transformed**						
99	Mean in Original Scale				4.667	Mean in Log Scale					-0.239	
100	SD in Original Scale				14.14	SD in Log Scale					1.848	
101	95% t UCL (Assumes normality)				8.169	95% H-Stat UCL					10.98	
102	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
103												
104	**Nonparametric Distribution Free UCL Statistics**											
105	**Detected Data appear Lognormal Distributed at 5% Significance Level**											
106												
107	**Suggested UCL to Use**											
108	97.5% KM (Chebyshev) UCL				17.75							
109												
110	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
111	Recommendations are based upon data size, data distribution, and skewness.											
112	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
113	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											

1	**ProUCL Output**											
2	**HHRA Grouping:** Utility Corridors along Ten-Mile Drain											
3	*Remedial Investigation/Feasibility Study*											
4	*Ten Mile Drain, St. Clair Shores, Michigan*											
5												
6	**UCL Statistics for Data Sets with Non-Detects**											
7												
8	User Selected Options											
9	Date/Time of Computation	7/1/2014 2:56:25 PM										
10	From File	TMD_Utility_TS_TMD_proUCL_031414.xls										
11	Full Precision	OFF										
12	Confidence Coefficient	95%										
13	mber of Bootstrap Operations	2000										
14												
15	**Total PCBs (mg/Kg)**											
16												
17	**General Statistics**											
18	Total Number of Observations	175	Number of Distinct Observations	79								
19	Number of Detects	66	Number of Non-Detects	109								
20	Number of Distinct Detects	64	Number of Distinct Non-Detects	19								
21	Minimum Detect	0.305	Minimum Non-Detect	0.21								
22	Maximum Detect	457	Maximum Non-Detect	0.39								
23	Variance Detects	3758	Percent Non-Detects	62.29%								
24	Mean Detects	14.43	SD Detects	61.3								
25	Median Detects	1.49	CV Detects	4.249								
26	Skewness Detects	6.343	Kurtosis Detects	43.67								
27	Mean of Logged Detects	0.64	SD of Logged Detects	1.51								
28												
29	**Normal GOF Test on Detects Only**											
30	Shapiro Wilk Test Statistic	0.253	**Normal GOF Test on Detected Observations Only**									
31	5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level									
32	Lilliefors Test Statistic	0.445	**Lilliefors GOF Test**									
33	5% Lilliefors Critical Value	0.109	Detected Data Not Normal at 5% Significance Level									
34	**Detected Data Not Normal at 5% Significance Level**											
35												
36	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
37	Mean	5.572	Standard Error of Mean	2.894								
38	SD	37.99	95% KM (BCA) UCL	11.4								
39	95% KM (t) UCL	10.36	95% KM (Percentile Bootstrap) UCL	10.65								
40	95% KM (z) UCL	10.33	95% KM Bootstrap t UCL	20.96								
41	90% KM Chebyshev UCL	14.25	95% KM Chebyshev UCL	18.19								
42	97.5% KM Chebyshev UCL	23.64	99% KM Chebyshev UCL	34.36								
43												
44	**Gamma GOF Tests on Detected Observations Only**											
45	A-D Test Statistic	9.995	**Anderson-Darling GOF Test**									
46	5% A-D Critical Value	0.857	Detected Data Not Gamma Distributed at 5% Significance Leve									
47	K-S Test Statistic	0.3	**Kolmogrov-Smirnoff GOF**									
48	5% K-S Critical Value	0.119	Detected Data Not Gamma Distributed at 5% Significance Leve									
49	**Detected Data Not Gamma Distributed at 5% Significance Level**											
50												

	A	B	C	D	E	F	G	H	I	J	K	L
1	**ProUCL Output**											
2	**HHRA Grouping:** Utility Corridors along Ten-Mile Drain											
3	*Remedial Investigation/Feasibility Study*											
4	*Ten Mile Drain, St. Clair Shores, Michigan*											
5												
51	**Gamma Statistics on Detected Data Only**											
52	k hat (MLE)					0.334	k star (bias corrected MLE)					0.329
53	Theta hat (MLE)					43.2	Theta star (bias corrected MLE)					43.87
54	nu hat (MLE)					44.08	nu star (bias corrected)					43.41
55	MLE Mean (bias corrected)					14.43	MLE Sd (bias corrected)					25.16
56												
57	**Gamma Kaplan-Meier (KM) Statistics**											
58	k hat (KM)					0.0215	nu hat (KM)					7.531
59	Approximate Chi Square Value (7.53, α)					2.466	Adjusted Chi Square Value (7.53, β)					2.442
60	5% Gamma Approximate KM-UCL (use when n>=50)					17.01	95% Gamma Adjusted KM-UCL (use when n<50)					17.18
61	Gamma (KM) may not be used when k hat (KM) is < 0.1											
62												
63	**Gamma ROS Statistics using Imputed Non-Detects**											
64	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
65	GROS may not be used when kstar of detected data is small such as < 0.1											
66	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
67	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
68	Minimum					0.01	Mean					5.447
69	Maximum					457	Median					0.01
70	SD					38.12	CV					6.998
71	k hat (MLE)					0.174	k star (bias corrected MLE)					0.175
72	Theta hat (MLE)					31.31	Theta star (bias corrected MLE)					31.16
73	nu hat (MLE)					60.89	nu star (bias corrected)					61.18
74	MLE Mean (bias corrected)					5.447	MLE Sd (bias corrected)					13.03
75							Adjusted Level of Significance (β)					0.0486
76	Approximate Chi Square Value (61.18, α)					44.19	Adjusted Chi Square Value (61.18, β)					44.07
77	95% Gamma Approximate UCL (use when n>=50)					7.541	95% Gamma Adjusted UCL (use when n<50)					7.562
78												
79	**Lognormal GOF Test on Detected Observations Only**											
80	Lilliefors Test Statistic					0.117	**Lilliefors GOF Test**					
81	5% Lilliefors Critical Value					0.109	Detected Data Not Lognormal at 5% Significance Level					
82	**Detected Data Not Lognormal at 5% Significance Level**											
83												
84	**Lognormal ROS Statistics Using Imputed Non-Detects**											
85	Mean in Original Scale					5.471	Mean in Log Scale					-2.095
86	SD in Original Scale					38.11	SD in Log Scale					2.573
87	95% t UCL (assumes normality of ROS data)					10.24	95% Percentile Bootstrap UCL					10.89
88	95% BCA Bootstrap UCL					13.38	95% Bootstrap t UCL					20.69
89	95% H-UCL (Log ROS)					7.19						
90												
91	**DL/2 Statistics**											
92	**DL/2 Normal**						**DL/2 Log-Transformed**					
93	Mean in Original Scale					5.53	Mean in Log Scale					-0.976
94	SD in Original Scale					38.1	SD in Log Scale					1.567
95	95% t UCL (Assumes normality)					10.29	95% H-Stat UCL					1.777

	A	B	C	D	E	F	G	H	I	J	K	L
1	**ProUCL Output**											
2	**HHRA Grouping:** Utility Corridors along Ten-Mile Drain											
3	*Remedial Investigation/Feasibility Study*											
4	*Ten Mile Drain, St. Clair Shores, Michigan*											
5												
96	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
97												
98	**Nonparametric Distribution Free UCL Statistics**											
99	**Data do not follow a Discernible Distribution at 5% Significance Level**											
100												
101	**Suggested UCL to Use**											
102	95% KM (Chebyshev) UCL					18.19						
103												
104	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
105	Recommendations are based upon data size, data distribution, and skewness.											
106	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
107	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
108												

ProUCL Output

HHRA Grouping: Utility Corridors along Bon Brae Street (Martin Drain)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	12/17/2015 10:55:35 AM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Total PCBs (MG/KG)

General Statistics

Total Number of Observations	9	Number of Distinct Observations	9
Number of Detects	5	Number of Non-Detects	4
Number of Distinct Detects	5	Number of Distinct Non-Detects	4
Minimum Detect	0.0941	Minimum Non-Detect	0.0432
Maximum Detect	169	Maximum Non-Detect	0.0525
Variance Detects	5496	Percent Non-Detects	44.44%
Mean Detects	36.63	SD Detects	74.13
Median Detects	2.57	CV Detects	2.024
Skewness Detects	2.216	Kurtosis Detects	4.924
Mean of Logged Detects	0.988	SD of Logged Detects	2.965

Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest. For example, you may want to use Chebyshev UCL to estimate EPC (ITRC, 2012). Chebyshev UCL can be computed using the Nonparametric and All UCL Options of ProUCL 5.0

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.6	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.762	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.434	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.396	Detected Data Not Normal at 5% Significance Level	

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	20.37	Standard Error of Mean	19.63
SD	52.66	95% KM (BCA) UCL	56.4
95% KM (t) UCL	56.87	95% KM (Percentile Bootstrap) UCL	56.67
95% KM (z) UCL	52.65	95% KM Bootstrap t UCL	1019
90% KM Chebyshev UCL	79.25	95% KM Chebyshev UCL	105.9
97.5% KM Chebyshev UCL	142.9	99% KM Chebyshev UCL	215.6

ProUCL Output

HHRA Grouping: Utility Corridors along Bon Brae Street (Martin Drain)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

Gamma GOF Tests on Detected Observations Only			
A-D Test Statistic	0.38	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.751	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.244	**Kolmogrov-Smirnoff GOF**	
5% K-S Critical Value	0.382	Detected data appear Gamma Distributed at 5% Significance Level	
Detected data appear Gamma Distributed at 5% Significance Level			
Gamma Statistics on Detected Data Only			
k hat (MLE)	0.269	k star (bias corrected MLE)	0.241
Theta hat (MLE)	136.4	Theta star (bias corrected MLE)	152.1
nu hat (MLE)	2.687	nu star (bias corrected)	2.408
MLE Mean (bias corrected)	36.63	MLE Sd (bias corrected)	74.65
Gamma Kaplan-Meier (KM) Statistics			
k hat (KM)	0.15	nu hat (KM)	2.694
Approximate Chi Square Value (2.69, α)	0.288	Adjusted Chi Square Value (2.69, β)	0.182
95% Gamma Approximate KM-UCL (use when n>=50)	190.7	95% Gamma Adjusted KM-UCL (use when n<50)	301.8
Gamma ROS Statistics using Imputed Non-Detects			
GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs			
GROS may not be used when kstar of detected data is small such as < 0.1			
For such situations, GROS method tends to yield inflated values of UCLs and BTVs			
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates			
Minimum	0.01	Mean	20.36
Maximum	169	Median	0.0941
SD	55.86	CV	2.744
k hat (MLE)	0.168	k star (bias corrected MLE)	0.186
Theta hat (MLE)	121.5	Theta star (bias corrected MLE)	109.6
nu hat (MLE)	3.017	nu star (bias corrected)	3.345
MLE Mean (bias corrected)	20.36	MLE Sd (bias corrected)	47.23
		Adjusted Level of Significance (β)	0.0231
Approximate Chi Square Value (3.34, α)	0.481	Adjusted Chi Square Value (3.34, β)	0.309
95% Gamma Approximate UCL (use when n>=50)	141.4	95% Gamma Adjusted UCL (use when n<50)	220.7
Lognormal GOF Test on Detected Observations Only			
Shapiro Wilk Test Statistic	0.973	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.762	Detected Data appear Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.168	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.396	Detected Data appear Lognormal at 5% Significance Level	
Detected Data appear Lognormal at 5% Significance Level			
Lognormal ROS Statistics Using Imputed Non-Detects			
Mean in Original Scale	20.35	Mean in Log Scale	-2.857
SD in Original Scale	55.86	SD in Log Scale	5.018
95% t UCL (assumes normality of ROS data)	54.98	95% Percentile Bootstrap UCL	57.59
95% BCA Bootstrap UCL	76.64	95% Bootstrap t UCL	1343
95% H-UCL (Log ROS)	7.006E+14		

ProUCL Output

HHRA Grouping: Utility Corridors along Bon Brae Street (Martin Drain)

Remedial Investigation/Feasibility Study

Ten Mile Drain, St. Clair Shores, Michigan

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	-0.848	95% H-UCL (KM -Log)	74574
KM SD (logged)	2.85	95% Critical H Value (KM-Log)	7.948
KM Standard Error of Mean (logged)	1.062		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	20.36	Mean in Log Scale	-1.106
SD in Original Scale	55.86	SD in Log Scale	3.25
95% t UCL (Assumes normality)	54.99	95% H-Stat UCL	2064754

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Gamma Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (BCA) UCL	56.4	95% GROS Adjusted Gamma UCL	220.7
95% Adjusted Gamma KM-UCL	301.8		

Warning: Recommended UCL exceeds the maximum observation

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Attachment H
Ecological Risk Assessment

REGION 5 RAC2

REMEDIAL ACTION CONTRACT FOR

Remedial, Enforcement Oversight, and
Non-Time Critical Removal Activities at Sites of Release
or Threatened Release of Hazardous Substances in Region 5

FINAL

Screening-Level Ecological Risk Assessment

Ten-Mile Drain Superfund Site
St. Clair Shores, Macomb County, Michigan
Remedial Investigation/Feasibility Study

WA No. 165-RICO-B5BP/Contract No. EP-S5-06-01

February 2016

PREPARED FOR

U.S. Environmental Protection Agency

PREPARED BY

ch2m.

Ecology and Environment, Inc.
Environmental Design International, Inc.
Teska Associates, Inc.

FOR OFFICIAL USE ONLY

F I N A L

Screening-Level Ecological Risk Assessment
Ten-Mile Drain Superfund Site, St. Clair Shores, Macomb County, Michigan

Remedial Investigation/Feasibility Study
WA No. 165-RICO-B5BP/Contract No. EP-S5-06-01

Prepared for

February 2016

ch2m

Executive Summary

This screening level ecological risk assessment (SLERA) was prepared for the Ten-Mile Drain (TMD) site in St. Clair Shores, Michigan, which consists of residential areas near the TMD potential source area and the canals downstream of the TMD. The suspected polychlorinated biphenyl (PCB) source area of the TMD site is mostly covered by an asphalt parking lot. Surface and stormwater collect in the TMD storm sewer system and discharge to Lange and Revere Street canals of St. Clair Lake. Data from historical investigation activities conducted by the Michigan Department of Environmental Quality, City of St. Clair Shores, United States Environmental Protection Agency (EPA) since 2010 were used to complete this SLERA.

The SLERA was conducted in accordance with EPA guidance (EPA 1992, 1997, 1998). The data generated from the investigation activities were used to assess both lower trophic level (direct exposure) and upper trophic level (food web exposure) risks for a variety of terrestrial and aquatic receptors using multiple lines of evidence in a weight-of-evidence (WOE) process. The WOE process includes assessing risk estimates in context with the extent, magnitude, and ecological significance of each line of evidence.

Based on the WOE evaluation, total PCBs were identified across all assessment endpoints for aquatic receptor exposure scenarios (lower and upper trophic levels) as a chemical of potential ecological concern (COPEC), in the Lange and Revere canals surface water and sediment.

The WOE evaluation presented in this SLERA identified that the sediment and surface water COPEC, total PCBs, requires consideration in the feasibility study (FS) based on risk to semiaquatic wildlife populations, benthic invertebrate, and water-column biota communities, including forage fish.

Based on the WOE evaluation, total PCBs were not identified as presenting unacceptable ecological risk in upland terrestrial soils.

2Contents

Executive Summary ..... **iii**

Acronyms and Abbreviations ..... **vii**

1 Introduction **1-1**
1.1 Project Description 1-1
1.2 Site Location 1-1
1.3 Site History 1-1
1.4 Site Features 1-2
1.5 Document Organization 1-2

2 Screening-Level Problem Formulation **2-1**
2.1 Ecological Setting and Habitats 2-1
2.2 Conceptual Site Model 2-1
2.2.1 Source Area 2-2
2.2.2 Transport Pathways and Exposure Media 2-2
2.2.3 Exposure Pathways and Routes 2-2
2.2.4 Receptors and Assessment and Measurement Endpoints 2-3
2.3 Summary of Available Data 2-3
2.3.1 Residential Property Surface Soil 2-4
2.3.2 Lange and Revere Street Canals Sediment 2-5
2.3.3 Ten-Mile Drain Outfall Surface Water 2-5
2.3.4 Lake St. Clair Fish 2-5

3 Exposure Assessment **3-1**
3.1 Direct Exposure 3-1
3.2 Food Web Exposure 3-1
3.2.1 Dietary Intake 3-1
3.2.2 Model Parameterization 3-2

4 Effects Assessment **4-1**
4.1 Medium-Specific 4-1
4.2 Tissue Residue 4-1
4.3 Ingestion 4-1

5 Risk Characterization **5-1**
5.1 Screening Level Risk Evaluation 5-1
5.2 Scientific Management Decision Point 5-1

6 Baseline Ecological Risk Assessment **6-1**
6.1 Refined Risk Characterization 6-1
6.1.1 Direct Exposure 6-1
6.1.2 Food-Web Exposure 6-2
6.2 Risk Description 6-2
6.2.1 COPECs for Plants, Invertebrates, and Fish 6-2
6.2.2 COPECs for Wildlife 6-3

7 Uncertainty **7-1**
7.1 Chemical Analytical Results and Screening 7-1
7.1.1 Data Collection 7-1

7.1.2 Undetected Contaminants 7-1
7.2 Food-Web Exposure Modeling 7-1
7.2.1 Exposure Parameters 7-1
7.2.2 Area Use Factors 7-2
7.2.3 Bioaccumulation 7-2
7.2.4 Toxicity Reference Values for Wildlife 7-2
7.2.5 Hazard Quotients and Risk 7-2

8 Summary and Conclusions 8-1

9 References 9-1

Appendixes

A ProUCL EPC Calculation Outputs
B Fish Biota-Sediment Accumulation Factor Calculation

Tables

2-1 Threatened and Endangered Species for Macomb County, Michigan
2-2 Assessment Endpoints, Level of Biological Organization, Measurement Endpoints, and Representative Receptors
2-3 SLERA Surface Soil Analytical Dataset
2-4 SLERA Sediment Analytical Dataset
2-5 SLERA Surface Water Analytical Dataset
2-6 ERA Fish Analytical Dataset
3-1 Exposure Parameters for Upper Trophic Level Ecological Receptors
3-2 Lower Trophic Level Ecological Screening Values and Exposure Point Concentrations
3-3 Plant BCFs and Invertebrate BAFs
4-1 Ingestion Screening Values for Mammals and Birds
5-1 Lower Trophic Level Screening Evaluation
6-1 Refined Lower Trophic Level Evaluation
6-2 Upper Trophic Level Wildlife Hazard Quotients

Figures

1-1 Site Location Map
2-1 Ecological Conceptual Site Model
2-2 Bon Brae Street Residential Soil Sampling Locations
2-3 Lange Revere Street Canals Residential Soil Sampling Locations
2-4 Lakeland Street Residential Soil Sampling Locations
2-5 Former Martin Drain Soil Sampling
2-6 Former Martin Drain Soil Sampling
2-7 Former Martin Drain Soil Sampling
2-8 Sediment Sample Locations

Acronyms and Abbreviations

BAF	bioaccumulation factor
BCF	bioconcentration factor
BERA	baseline ecological risk assessment
BSAF	biota-sediment accumulation factor
bgs	below ground surface
CH2M	CH2M HILL
COPC	chemicals of potential concern
COPEC	chemical of potential ecological concern
CRL	Central Regional Laboratory
CSM	conceptual site model
EC&T	Environmental Consulting & Technology, Inc.
EPA	United States Environmental Protection Agency
EPC	exposure point concentration
ERA	ecological risk assessment
ESV	ecological screening value
FIELDS	**FI**eld **E**nvironmental **D**ecision **S**upport
FIR	food ingestion rate
FS	feasibility study
HQ	hazard quotient
kg	kilogram
LOAEL	lowest observed adverse effect level
MATC	maximum allowable toxic concentrations
MCPWO	Macomb County Public Works Office
MDEQ	Michigan Department of Environmental Quality
µg/L	microgram per liter
mg/kg	milligram per kilogram
NOAEL	no observed adverse effect level
PCB	polychlorinated biphenyl
RI	remedial investigation
SLERA	screening level ecological risk assessment
TCRA	time critical removal action
TMD	Ten-Mile Drain
TRV	toxicity reference values
UCL	upper confidence limit
WIR	drinking water ingestion rate
WOE	weight-of-evidence

SECTION 1

Introduction

1.1 Project Description

This screening-level ecological risk assessment (SLERA) was prepared for the Ten-Mile Drain (TMD) Site in St. Clair Shores, Michigan (Figure 1-1). The area assessed consists of terrestrial habitat within residential and commercial areas near the suspected TMD source area and aquatic habitat within the canal downstream of the TMD. This SLERA was conducted according to U.S. Environmental Protection Agency (EPA) guidance for ecological risk assessments (ERAs) (EPA 1992, 1997, 1998). This SLERA was performed to evaluate TMD data collected between 2010 and 2013.

1.2 Site Location

The TMD site is northeast of the city of Detroit. The site is in a mixed commercial/residential area in St. Clair Shores, Macomb County, Michigan. The majority of the TMD site encompasses a several-block area bounded by Bon Brae Street on the north, Harper Avenue on the west, Ten-Mile Road on the south, and Jefferson Avenue on the east, along with the TMD outfall and the Lange and Revere Street canals. It includes a majority of the TMD storm sewer system, which consists of concrete sewer pipes and soil surrounding the pipes in a utility corridor extending to approximately 15 feet below ground surface (bgs). The storm sewer discharges into the Lange and Revere Street canals, which are connected to the western side of Lake St. Clair. The canals, which provide recreational boating access to Lake St. Clair for approximately 125 homes, are private property and used for recreational boating, swimming, and fishing. The TMD system and investigation areas included in this SLERA are depicted on Figure 1-1.

1.3 Site History

Polychlorinated biphenyl (PCB) contamination was initially identified in the Lange and Revere Street canal sediments in August 2001 when the Macomb County Public Works Office (MCPWO) collected sediment samples as part of a dredge permit application. In February 2002, MCPWO traced PCB contamination back to the TMD outfall in the Lange Canal and into the TMD. MCPWO requested that EPA assist in determining the source of PCB contamination. In March 2002, EPA began source investigation at the TMD site. In June 2002, based on analytical results as high as 121,000 milligrams per kilogram (mg/kg) of PCBs near the intersection of Bon Brae Street and Harper Avenue, it was hypothesized that the PCB contamination was likely because of an illegal discharge to the TMD near the Bon Brae Street/Harper Avenue intersection. In the fall of 2002, EPA and MCPWO dewatered and cleaned the drain, removing sediments with PCB concentrations as high as 200,000 mg/kg.

In February 2005, PCB contamination was again detected in the drain, and MCPWO requested assistance from EPA in reevaluating the source of the PCB contamination. In May 2005, the Michigan Department of Environmental Quality (MDEQ) and EPA installed 64 additional soil borings in suspected areas of concern near the Bon Brae Street/Harper Avenue intersection. In 2006, EPA dewatered the TMD, removed impacted sediment, and installed approximately 1,000 feet of cured-in–place pipe liner within the storm sewer near the Bon Brae Street/Harper Avenue intersection.

In 2008, MDEQ conducted an investigation during which collocated surface water and sediment data were collected from the Lange and Revere Street canals, as well as in the immediate vicinity of Lake St. Clair. Samples were analyzed for PCBs. No detections of PCBs were observed in surface water, except at a single location immediately adjacent to the TMD outfall. These data are not included in the

quantitative evaluation of the ecological risk in surface water of the Lange and Revere Street canals because a comprehensive sediment investigation was completed in 2011 to demonstrate current conditions.

In December 2009, MCPWO discovered PCB-contaminated oil with a concentration of approximately 800,000 milligrams per liter of PCBs within the cured-in-place pipe-lined portion of the drain. In December 2009, EPA placed oil collection snares within the sewer system to prevent migration of the oil to the Lange and Revere Street canals.

In March 2010, EPA initiated removal of PCB-contaminated oil from within manhole vaults of the TMD storm sewer system and placed 15 weirs within the TMD to inhibit future migration of PCB-impacted sediments or oil in the TMD system. EPA also installed 43 additional soil borings at several properties near the Bon Brae Street/Harper Avenue intersection, the locations of which were based on public tip information regarding potential historical sources of contamination. From April 2010 to August 2011, surface water samples were collected from the TMD drainage outlet at the Lange and Revere Street canals. Samples were collected following the methods outlined in the *Monitoring and Remedial Measures for the 10 Mile Drain Site* (Environmental Consulting & Technology, Inc. [EC&T] 2011). Over this sampling period, total PCB concentrations in the outlet samples ranged from 0.69 to 8.2 micrograms per liter (µg/L). EC&T noted that these results are consistent with historical concentrations (maximum concentration sampled in 2004 was 9.5 µg/L), and appear to be highest following drain cleanings (completed in 2004 and 2010) (EC&T 2011).

The EPA Field Environmental Decision Support (FIELDS) Team conducted sediment sampling characterization activities in 2011 at the Lange and Revere Street canals (EPA 2012) to assess the current extent of PCB contamination in canal sediments.

The 2013 remedial investigation (RI) activities were conducted to further evaluate the nature and extent of PCB contamination in soil and support the selection of a remedy that eliminates, reduces, or controls risks to human health and the environment. The primary focus of the RI was the area near Harper Avenue along Bon Brae Street and Lakeland Street, and the residential properties adjoining the Lange and Revere Street canals.

1.4 Site Features

The TMD site and surrounding area is relatively flat with little topographic relief. The TMD site and surrounding area slopes to the east-southeast at approximately 5 feet per mile and does not contain any notable topographical relief features. There is no groundwater aquifer present within 20 feet of ground surface at the site based on borings installed in native soils located outside the TMD and other utility corridors during the RI and previous investigations (CH2M HILL [CH2M] 2011).

An asphalt parking lot currently covers the suspected source area of PCBs to the TMD. Surface water in the suspected source area and across the TMD site is collected in the TMD storm sewer system and discharges to Lange and Revere Street canals of Lake St. Clair.

1.5 Document Organization

The remainder of this report is organized as follows:

- **Section 2—Screening-Level Problem Formulation.** Provides an overview of the site history and habitats at the TMD site, presents the conceptual site model (CSM), and identifies the assessment/measurement endpoints and the receptors identified for evaluation in the SLERA. Corresponds to Step 1 of the 8-step ecological risk assessment (ERA) process for Superfund (EPA 1997).

- **Section 3—Exposure Assessment.** Profiles the spatial and temporal patterns and magnitude of exposure for detected chemicals in relation to the assessment endpoints and risk questions.
- **Section 4—Effects Assessment.** Presents an analysis of the lines of evidence for existing and potential adverse effects of site-related contamination on the assessment endpoints. Step 2 of the 8-step ERA process for Superfund (EPA 1997).
- **Section 5—Risk Characterization.** Presents the integration of exposure and effects for lower trophic level receptors. Includes a screening level effects calculation to establish conservative thresholds for adverse ecological effects. Chemicals of potential concern (COPCs) are identified at this final step of the SLERA.
- **Section 6—Baseline Ecological Risk Assessment (BERA).** Presents the refinement of the COPCs (Step 3a), in which the conservative assumptions used in the SLERA are refined and risk estimates are recalculated using the same CSM. The COPC refinement is divided into two categories—a refinement of the direct exposure to aquatic and soil organisms evaluation, and a dose-based food-web modeling to higher trophic level wildlife. The BERA also includes the risk description.
- **Section 7—Uncertainty.** Documents the major sources of uncertainty associated with the estimation and description of risk.
- **Section 8—Summary and Conclusions.** Presents an overall summary of the SLERA results and decision outcomes for the SLERA areas of focus.
- **Section 9—References.** Presents full citations for the literature referenced in the SLERA.

SECTION 2

Screening-Level Problem Formulation

This section presents the problem formulation for the site, which establishes the goals, scope, and focus of the SLERA. It summarizes the site history and ecological setting of the TMD in terms of the habitats and biota known or likely to be present and the types of chemicals present in ecologically relevant media. The CSM is presented to provide an understanding of chemical sources, transport pathways, exposure media, exposure pathways and routes, and ecological receptors. Assessment endpoints were developed to identify receptors for which complete exposure pathways exist and summarize methods that will be used to evaluate potential risks to those receptors.

2.1 Ecological Setting and Habitats

The TMD site and surrounding area consists of developed residential neighborhoods and commercial properties. Terrestrial habitat is limited and characterized by vegetation primarily consisting of landscape plants, grasses, and trees in residential parkways and yards. Soil invertebrates, such as earthworm and insects, and upper trophic level biota, such as birds (for example, robin, sparrow, and blackbird) and small mammals (for example, mice and voles), are expected to use these habitats. Overall, the habitat quality is poor because of the residential nature of the site. Because of the poor quality of the site and its size, it is not expected to support significant populations of wildlife receptors.

Aquatic habitat is present in the Lange and Revere Street canals, which are connected to Lake St. Clair. The canals, which provide recreational boating access to Lake St. Clair for approximately 125 homes, are private property and used for swimming and fishing. The canal shorelines consist of bulkheads that limit shallow water habitat. Water depths range from 4 to 12 feet (EPA 2012). The canals are covered with soft sediment with thicknesses ranging from less than 6 inches to more than 9 feet (EPA 2012). Because of the lack of habitat diversity, a limited benthic macroinvertebrate and fish community is expected in the canals.

A current federal- and state-listed threatened and endangered species list potentially occurring in Macomb County, Michigan, is presented in Table 2-1 (U.S. Fish and Wildlife Service 2014; Michigan Natural Features Inventory 2014). A review of this list indicates that there is currently no known occurrence of the species within the TMD site because of a lack of suitable habitat.

2.2 Conceptual Site Model

The CSM relates potentially exposed receptor populations with potential source areas based upon physical site characteristics and completed exposure pathways. Important components of the CSM are the identification of potential source areas, transport pathways, exposure media, exposure pathways and routes, and receptor groups. Actual or potential exposures of ecological receptors associated with a site are determined by identifying the most likely and relevant pathways of contaminant release and transport. A complete exposure pathway has the following three components: (1) a source of contaminants that results in a release to the environment, (2) a pathway of contaminant transport through an environmental medium, and (3) an exposure or contact point for an ecological receptor. The main objective of the CSM is to identify any complete and critical exposure pathways that may be present at the site. Figure 2-1 illustrates a diagrammatic CSM for the TMD site. Key components of the CSM are discussed in the following subsections.

2.2.1 Source Area

Manhole M-7179, located near the intersection of Harper Avenue and Bon Brae Street, historically has contained the highest concentration of PCB-contaminated oil/sediment at the TMD site.

A machine shop formerly operated on Harper Avenue at Property 002, which currently is occupied by Fresenius Health Clinic, is considered a potential source area by EPA and MDEQ because of the historical operations. Currently, Property 002 on Harper Avenue is mostly covered by asphalt parking lot. Thirty-five borings were installed on this property and adjacent right-of-way areas during this phase of the RI. Potential historical illegal dumping to the TMD also is considered a potential source of contamination to the TMD. No definitive source of PCBs to the TMD have been identified, although there does not appear to be an ongoing source to the drain itself, and the backfill material around the TMD appears to be acting as a secondary source that is continuing to recontaminate the TMD system.

2.2.2 Transport Pathways and Exposure Media

A transport pathway describes the mechanisms whereby site-related contaminants, once released, might be transported from a source to ecologically relevant media (soil, sediment, and surface water), where exposures might occur to ecological receptors. The transport pathways are shown on Figure 2-1.

Multiple potential pathways of contaminant migration from the TMD are identified on the CSM. The potential transport pathways can contribute to the spread of contamination from the site. Historical erosion and runoff of contaminated site soils caused by stormwater may have carried contaminants to the residential area. Likewise, particle aerosolization because of wind scouring could transfer airborne particles to downwind residential locations. Contaminants can be released from the source area soil through infiltration and discharged to the storm sewer system, which then carries it into sediment and surface water at the Lange and Revere Street canals of Lake St. Clair.

2.2.3 Exposure Pathways and Routes

An exposure pathway links a source with one or more receptors by one or more media and exposure routes. Exposure, and thus potential adverse effects, can occur only if a complete exposure pathway exists. Figure 2-1 shows the potentially complete exposure pathways to ecological receptors that are evaluated in this SLERA.

Upper trophic level receptors (birds and mammals) can be exposed through dietary ingestion of contaminants taken up by food items from soil, sediment, and surface water, as well as by any incidental ingestion, direct contact (dermal contact), and/or inhalation. Soil-, water column-, and sediment-dwelling organisms can receive significant exposure through direct contact (including incidental ingestion), and dietary ingestion of bioaccumulative and non-bioaccumulative contaminants in soil, sediment, and surface water.

Plants can be exposed through direct contact with contaminants in soil/sediment. Direct contact for vegetation is assumed to include contact that may occur through uptake of soil contaminants into the plants' root systems, or leaf absorption of contaminants evaporating from the soil or from windborne foliar deposition of soil. Terrestrial and aquatic organisms can be exposed through direct contact with contaminated soil, sediment, and surface water.

The relative importance of the exposure routes depends in part on the chemical being evaluated. The greatest exposure to birds and mammals for bioaccumulative chemicals is likely from the ingestion of prey.

Dermal and inhalation exposures were not evaluated quantitatively in the SLERA for upper trophic level receptors because of the limited availability of exposure models and effects data. Based on the

protection offered by hair or feathers, dermal exposures following deposition to sediment for upper trophic level receptor species are not expected to be significant relative to ingestion exposures. Incidental ingestion of soil and sediment during feeding activities, however, were considered in the risk estimates. Direct contact was considered for lower trophic level receptors, such as invertebrates.

2.2.4 Receptors and Assessment and Measurement Endpoints

Because of the complexity of natural systems, it is generally not possible to directly assess potential impacts to all ecological receptors present within an area. Therefore, a limited number of receptor species or species groups were selected as surrogates to represent the larger components of the ecological community. Receptor selection was guided by the results of the site habitat characterization, resident species information from site visits, and consideration of whether the potential receptors meet the following criteria:

- Are known to occur or are likely to occur at the site
- Have a particular ecological, economic, or aesthetic value
- Are representative of a taxonomic group (life history traits and/or trophic levels in the habitats present at the site for which complete exposure pathways are likely to exist)
- Are rare, threatened, or endangered
- Can be expected to represent potentially sensitive populations at the site because of toxicological sensitivity or potential exposure magnitude
- Have available sufficient ecotoxicological information on which to base an evaluation

Lower trophic level receptor species were selected for evaluation based on the taxonomic groupings for which medium-specific screening values have been developed. The groupings and screening values are used in most ecological risk assessments. Fish, plant, and invertebrate communities were selected as terrestrial and aquatic receptors for assessment endpoints. The receptors are routinely addressed in aggregate through a comparison to soil, surface water, sediment, and fish tissue residue screening values.

Ecological risk endpoints define ecological attributes that are to be protected (assessment endpoints) and measurable characteristics of those attributes (measurement endpoints) that can be used to gauge the degree of impact that has occurred or could occur. Assessment endpoints most often relate to attributes of biological populations or communities and focus the risk assessment on particular components of the ecosystem that could be adversely affected by contaminants from a site (EPA 1997). Assessment endpoints contain an entity (such as worm-eating birds) and an attribute of that entity (such as survival rate).

For each assessment endpoint, selection of surrogate species and level of biological organization assessed in this SLERA were based on consideration of the habitats and ecological receptors potentially occurring onsite. The assessment and measurement endpoints are summarized in Table 2-2.

2.3 Summary of Available Data

Data used in this SLERA included site-specific abiotic media collected between 2010 and 2015 as described in the RI/feasibility study (FS) work plan (CH2M 2012), *Lange and Revere Street Canals Sediment Sampling Report* (EPA 2012), *Monitoring and Remedial Measures for the 10 Mile Drain Site* (EC&T 2011), and *2011 Source Area Investigation Data Summary Report* (CH2M 2011). The data are summarized in the following paragraphs.

Aroclor data were collected in each medium. Aroclor data then were used to calculate a total PCB for each sample. Nondetected concentrations were assumed to equal zero in the summation of surface

water Aroclor data and for individual Aroclors that were detected in five or less samples in soil and sediment. For those individual Aroclors detected in greater than five samples in soil and sediment samples, one-half the detection limit was used in the total PCB summation.

- Sediment
  - PCB-1016 (more than 200 detections), one-half the detection limit for nondetects
  - PCB-1232 (0 detection), 0 for nondetects
  - PCB-1242 (0 detection), 0 for nondetects
  - PCB-1248 (5 detections), 0 for nondetects
  - PCB-1254 (0 detection), 0 for nondetects
  - PCB-1260 (25 detections), one-half the detection limit for nondetects
- Soil
  - PCB-1016 (1 detections), 0 for nondetects
  - PCB-1232 (0 detection), 0 for nondetects
  - PCB-1242 (3 detection), 0 for nondetects
  - PCB-1248 (more than 200 detections), one-half the detection limit for nondetects
  - PCB-1254 (39 detection), one-half the detection limit for nondetects
  - PCB-1260 (0 detections), 0 for nondetects

2.3.1 Residential Property Surface Soil

Residential soil characterization data used in this SLERA were collected during the RI (CH2M 2016). Figures 2-2, 2-3, and 2-4 present the locations of the soil samples, and Tables 2-3 and 2-4 present analytical data from the surface soil locations used in this SLERA. In 2013, a geostatistical sampling approach was used to assess whether 57 residential properties were impacted with PCBs. Each yard area was assessed as an individual decision unit. The geostatistical sampling approach consisted of collecting soil cores from borings spaced on a 14-foot triangular grid across each yard area, with a minimum of eight borings per yard area. Soil was collected from each boring at 6-inch intervals from 0 to 3 feet bgs. Initially, soil cores from each yard area were homogenized into one sample for the following 6-inch intervals: 0 to 0.5 feet bgs, 1 to 1.5 feet bgs, and 2.5 to 3 feet bgs. The homogenized sample intervals were analyzed for PCBs by EPA's mobile laboratory. Based upon the results of the initial sample analyses, additional intervals from some yards were selected for analysis. In addition, confirmatory split sampling was conducted by EPA's Central Regional Laboratory (CRL) at a 10 percent frequency for accuracy verification of mobile laboratory analytical results. All residential soil concentrations were grouped into one area of concern for the SLERA.

2.3.1.1 Bon Brae Street Soil Sampling

Residential properties along Bon Brae Street were sampled based on their proximity to historical near-surface PCB contamination present near the corner of Harper Avenue and Bon Brae Street. Twelve properties were sampled along Bon Brae Street between Harper Avenue and E Street (Figure 2-2). Additionally, three back yards (Properties 074, 075, and 077) were sampled based on elevated PCB levels detected on the adjacent commercial property (Property 002).

2.3.1.2 Lange and Revere Street Canals Soil Sampling

Residential properties along Lange and Revere Street canals were sampled based on the potential use of canal water for lawn or garden irrigation. Twenty-seven properties were sampled using the geostatistical sampling approach along the canals (Ten Mile Road—3 properties; Lange Street—18 properties; Revere Street—6 properties). The back yard between the sea wall and the back of the residential structures (Figure 2-3) for each selected property was sampled and analyzed for PCBs by EPA's mobile laboratory.

2.3.1.3 Lakeland Street Soil Sampling

Residential properties along Lakeland Street were sampled based on elevated PCB levels detected on the commercial property located at Property 002, which also fronts Lakeland Street. Eighteen properties were sampled along Lakeland Street east of Harper Avenue (Figure 2-4). Because of the size of the parkway/green space areas (area between street curb and sidewalk), the parkway and front yards were sampled as separate decision units. Backyards on the northern side of Lakeland Street (Properties 067, 076, and 078) also were sampled based on elevated PCB levels detected on the adjacent commercial property located at Property 002 and analyzed for PCBs by EPA's mobile laboratory or the CRL.

An attempt was made to gain access to all residential properties on Lakeland Street east of Harper Avenue up to the point where PCBs were no longer detected in the yards (Properties 079/080 and 083/084). Some property owners did not provide access. Properties where access was not received are labeled "No Access" on Figure 2-4.

A time-critical removal action (TCRA) will be completed at six residences (Properties 048, 053, 055, 065, 069, and 075). These sample locations are not included in this SLERA.

2.3.1.4 Former Martin Drain

Soil sampling was conducted across 7 transects of the former Martin Drain (surface drain replaced by the current Ten-Mile Drain system) to determine whether PCB contamination is present within the relic drainage channel (long since backfilled), and evaluate if the former Martin Drain is responsible for PCB contamination previously detected within the Lakeland and Rio Vista canals (MDEQ 2009).

Sampling was performed using direct-push technology drilling to collect 2-inch-diameter soil cores in acetate liners. Soil cores from ground surface to 10 feet bgs were collected and processed as outlined in the quality assurance project plan (CH2M 2013). Sample transects were located one on either side of Bon Brae Street, 2 on the west side and one on the east side of B Street, and one on either side of Jefferson Avenue (Figures 2-5 through 2-7). Transect locations were selected based upon historical aerial photographs, which provided the approximate historical location of the former Martin Drain. Up to two discrete samples were collected from each core location and analyzed for PCBs.

2.3.2 Lange and Revere Street Canals Sediment

In January 2011, a comprehensive sediment investigation was completed to assess the current conditions of the Lange and Revere Street canals (EPA 2012). A total of 146 sediment samples was collected at the surface (0 to 0.5 foot bgs) (Figure 2-8). All samples were analyzed for PCBs. An aquatic evaluation was completed on the data, which were grouped into one area of concern under this SLERA (Tables 2-5)

2.3.3 Ten-Mile Drain Outfall Surface Water

Field activities in March and April 2010 included the dewatering, cleanout, and weir installation in the TMD sewer lines (EC&T 2011). From April 2010 to August 2011, surface water samples were collected from the TMD drainage outlet (Figure 2-3). Five surface water samples were collected and analyzed for PCBs. An aquatic evaluation was completed on the data (Tables 2-6) for this SLERA.

2.3.4 Lake St. Clair Fish

In April 2010, MDEQ collected fish within the immediate vicinity of the Lange and Revere Street canals. Thirty-eight fish fillet samples were analyzed for PCBs in wet weight (Table 2-7). All fish tissue residue data (bluegill [*Lepomis macrochirus*], carp [spp. unknown], pumpkinseed [*Lepomis gibbosus*], walleye [Sander vitreus], small mouth bass [*Micropterus dolomieu*], and yellow perch [*Perca flavescens*]) were used in the evaluation of direct exposure toxicity to the fish community for this SLERA. Some

uncertainty, discussed further in Section 7, is associated with using fish fillets from non-forage fish in the ecological evaluation.

SECTION 3

Exposure Assessment

The exposure assessment identifies exposure pathways associated with the representative receptor species listed in Section 2.2.4.

3.1 Direct Exposure

Receptors such as terrestrial plants, invertebrates (terrestrial and aquatic), and water-column biota are exposed primarily through direct contact with sediment, surface water, and/or soil. The exposure estimates were assessed based on chemical concentrations in applicable media to which the receptors might be exposed. In addition to surface water-based water-column biota criteria, fish tissue residue screening values were used to evaluate forage fish. The exposure estimates were assessed based on chemical concentrations in fish tissue residue.

Maximum media/tissue residue concentrations initially were used in the SLERA to conservatively estimate the potential chemical exposure point concentrations (EPCs) for the ecological receptors selected to represent the assessment endpoints. The EPCs were compared with the corresponding ecological screening values (ESVs) to derive screening risk estimates.

Chemicals of potential ecological concern (COPECs) were identified using the hazard quotient (HQ) method. HQs were calculated by dividing the EPC (the maximum for detected chemicals) by the corresponding screening value. Chemicals with screening value-based HQs greater than or equal to 1 are considered COPECs. Chemicals for which toxicological data were not available were not identified as COPECs, but are addressed in the uncertainty section.

For analytes that failed the screening, additional evaluation was completed as part of the refinement step (in the BERA). At this step, consideration was given to additional weights-of-evidence (WOEs). Estimates of exposure for these receptors may be represented as particular concentrations of COPECs in abiotic media (soil, sediment, and surface water) or tissue residue. Therefore, both an upper confidence limit (UCL)-based EPC and the entire distribution of values were selected as suitable EPCs resulting in a potential for point-by-point evaluation for each of the receptors.

3.2 Food Web Exposure

Because PCBs are bioaccumulative, concentrations were evaluated for food-web (wildlife) exposures. Exposures for avian and mammalian receptor species, by the food web, were determined with measured or estimated chemical-specific concentrations in each dietary component and applying them to food-web models. The methodologies used for calculations of dietary exposure are outlined in the following subsection.

3.2.1 Dietary Intake

Upper trophic level receptor exposures by food webs to total PCBs present in surface soil, surface water, and sediment at the site were estimated concentrations of plant, invertebrate, and vertebrate prey items in each relevant dietary component for each receptor. Incidental ingestion of soil or sediment was included when calculating the total exposure. Surface water, as a source of drinking water, was included in the total exposure calculation.

The dietary dose (intake) for each upper trophic level receptor was calculated using the following formula taken from Suter et al. (2000):

$$Et = [[Sj * Ps * FIR] + [Bij * Pi * FIRDW] + [SWj * WIR]]$$

Where:

E_t	=	total dietary exposure (mg/kg per day)
S_j	=	concentration of chemical (j) in soil or sediment (mg/kg dry weight)
Ps	=	soil or sediment ingestion as proportion of dry-weight diet
FIR_{DW}	=	species-specific food ingestion rate (kilogram [kg] food per kg body weight per day – dry-weight basis)
B_{ij}	=	concentration of chemical (j) in biota type (i) (mg/kg dry weight)
P_i	=	proportion of biota type (i) in wet-weight diet[1]
SW_j	=	concentration of chemical (j) in surface water (milligrams per liter)
WIR	=	species-specific water ingestion rate (liters of water per kg body weight per day)

3.2.2 Model Parameterization

To apply the above exposure model, the following model parameters must be defined.

- **Wildlife Exposure Parameters**—The specific life history parameters required to estimate exposure of bird and mammal receptors to the COPECs include body weight, food ingestion rate (FIR), drinking water ingestion rate (WIR), and dietary components and proportion of the overall diet represented by each major food type (P_i), including incidental ingestion of soil/sediment (P_s). The parameters are presented in Table 3-1.

  Wildlife at the site was considered to either have terrestrial- or aquatic-based exposures. The short-tailed shrew and American robin were considered for terrestrial-based exposures, consuming ground-dwelling invertebrates (such as earthworms and grasshoppers) and terrestrial vegetation. Belted kingfisher and mink were considered for aquatic-based exposures, consuming aquatic vegetation, benthic invertebrates, fish, and sediment, incidentally, which are predominately confined to the Lange and River Street canals. Aquatic- and terrestrial-based exposure designations were necessary for calculating EPCs, as described in the following bullet.

- **Exposure Point Concentrations**—Because wildlife are mobile, traveling and experiencing exposure over the range of habitats they occupy, their exposure is often described by site- or habitat-wide representation of the chemical data in areas they inhabit (Suter et al. 2000). For the BERA, the UCL was used as the basis of all abiotic media EPCs. ProUCL Version 5.0 was used to calculate the UCLs, and the ProUCL outputs are provided in Appendix A are for surface soil, sediment, surface water, and forage fish tissue residue. In some cases, a UCL could not be calculated. The EPCs for surface soil, sediment, surface water, forage fish tissue residue, and their basis are presented in Table 3-2.

- **Bioaccumulation—**Dietary items for which tissue concentrations of upper trophic level receptors were modeled included plants, invertebrates, and fish. The uptake of chemicals from the abiotic media was based upon mean literature-derived bioconcentration factors (BCFs) or bioaccumulation

[1] In most cases, dietary composition is reported on a wet-weight basis; however, proportions of dietary items used in this model are applied to dry-weight-based chemical data in tissue.

factors (BAFs) from the literature or log K_{ow}-based linear regression models. Terrestrial and aquatic BCFs, biota-sediment accumulation factors (BSAFs), and BAFs are presented in Table 3-3.

Available literature indicates that bioaccumulation is generally non-linear and often decreases as the medium concentration increases (Sample et al. 1999). When available and recommended for use in the primary literature, log-linear bioaccumulation regression models were used to more accurately estimate tissue concentrations in prey items (Table 3-3). This information is available in recent literature for Aroclors. Log-linear bioaccumulation regression models were used to estimate the uptake into plants, earthworms, and benthic invertebrates with the relationship as follows:

$$\ln (\text{Conc .COCprey}) = B0 + B1 (\ln [\text{Conc .COCsoil}])$$

Where:

Conc. COC_{prey}	=	concentration of chemical in plant, earthworm (mg chemical/kg dry weight)
B_0	=	slope (chemical-specific)
B_1	=	intercept (chemical-specific)
Conc. COC_{soil}	=	soil exposure point concentration (mg chemical/kg dry weight)

The fish BSAF is the overall mean of all whole body forage fish reported, in the EPA BSAF database, version 1.00 (EPA 2009). These BSAFs are tabulated in Appendix B.

SECTION 4

Effects Assessment

Section 4 consists of an evaluation of available toxicity or other effects information that was used to relate COPEC exposures to potential adverse effects in ecological receptors. The assessment, along with the exposure assessment (Section 3), corresponds to Step 2 of the 8-step ERA process for Superfund (EPA 1997). Effects data sources used to evaluate ecological risks resulting from exposure to contaminants included literature-derived and site-specific sources as discussed in the following subsections.

Three types of literature-derived single-chemical toxicity data were used in this SLERA. The data included abiotic medium-specific screening values for direct exposures to terrestrial plants (soil), soil invertebrates (soil), and aquatic biota (surface water and sediment); tissue residue-based screening values for direct exposures to forage fish; and ingestion screening values (dietary doses) for birds and mammals. Each type of effect data employed in the assessment is described in the following subsections.

4.1 Medium-Specific

Medium-specific effects data used in the SLERA consisted of soil invertebrate and terrestrial plant soil screening values, benthic invertebrate sediment screening values, and water-column biota surface water screening values derived from multiple sources. The screening values and sources are presented in Table 3-2.

4.2 Tissue Residue

A fish tissue residue-based screening value was used to evaluate forage fish from *Assessments of Chemical Mixtures via Toxicity Reference Values Overpredict Hazard to Ohio Fish Communities* (Dyer et al. 2000) (Table 3-2). The tissue benchmarks were derived as the product of EPA chronic aquatic life criteria and a BCF (Dyer et al. 2000) and have been demonstrated to define tissue residues lower than adverse effect residues in 95 percent of studies where adverse effects from bioaccumulated contaminants have been measured (Shephard 1998).

4.3 Ingestion

Ingestion screening values that represent dietary dose effect data for birds and mammals consisted of no observed adverse effect level (NOAEL) and lowest observed adverse effect level (LOAEL) toxicity reference values (TRVs) derived from toxicity studies reported in the scientific literature. Three types of TRVs were used for each in this assessment: NOAELs, LOAELs, and maximum allowable toxic concentrations (MATCs). MATC TRVs are the geometric mean of the NOAEL and LOAEL and is assumed to be the concentration at which effects are first seen. The TRVs are presented in Table 4-1. TRVs for wildlife receptors were selected to be consistent with PCB TRVs used at other Michigan sites contaminated with PCBs.

SECTION 5

Risk Characterization

The risk characterization portion of the SLERA integrates data presented in Sections 2 through 4 to estimate potential risks to ecological receptors for the exposure scenarios evaluated.

5.1 Screening Level Risk Evaluation

This section presents the results of the initial screening assessments. Risks in the vicinity of the TMD site were evaluated based on the ratio of exposure concentrations to screening values, resulting in HQs. The results of comparison of maximum media concentration to the screening values are presented in Table 5-1. The total PCB maximum concentrations in surface soil, sediment, surface water, and fish tissue residue exceeded the respective screening values by at least two orders of magnitude for each assessment endpoint.

5.2 Scientific Management Decision Point

Based on the Step 2 screening evaluation, the TMD site may pose an unacceptable risk to terrestrial and aquatic biota. Additional evaluation with a BERA is warranted to refine the risk estimates and reduce uncertainties.

SECTION 6

Baseline Ecological Risk Assessment

The SLERA identified PCBs as a COPEC and recommended that PCBs be carried forward to a BERA (Step 3 of the 8-step ERA process). The BERA begins with a refinement of the COPECs in which the conservative assumptions originally used in the SLERA are refined, and the risk estimates are recalculated using the same CSM. Additional lines of evidence also are addressed in a WOE approach as part of the refinement. This section presents an estimation of potential risk to ecological receptors in the TMD from direct and food-web exposures.

6.1 Refined Risk Characterization

In contrast to the conservative approach used for the initial screening level evaluation, the refined evaluation focuses on the biologically realistic potential for exposure and adverse effects to target species.

6.1.1 Direct Exposure

The potential for adverse effects to the terrestrial plant, soil invertebrate, benthic invertebrates, water-column biota, and fish communities was evaluated through a multi-parameter WOE approach. The potential for adverse effects to these communities was evaluated through this refined evaluation, which included frequencies of detection, the use of central tendency EPCs, secondary effects values comparisons, and frequency of exceedance (Table 6-1).

6.1.1.1 Frequency of Detection Evaluation

The frequency of detection of COPECs serves as an indicator of the extent of contamination across the study area. A low frequency of detection may indicate the contamination is limited to small portions of the site (hot spots) or even only in a single location where the sample was collected. If the contaminant was detected in 5 percent or fewer of all site samples, the chemical was not considered further as a COPEC. Total PCBs were detected in greater than 5 percent in all media and tissue residue.

6.1.1.2 Concentration-Based COPEC Refinement

The concentration-based COPEC refinement evaluated risk through direct contact with the surrounding medium using a central-tendency EPC rather than the maximum detected value. ProUCL Version 4.1 was used to calculate the UCLs. Total PCB EPCs were greater than the screening values for all lower trophic level assessment endpoints (Table 6-1).

To further define the potential for unacceptable risk, the frequency of exceedance may be considered. Exceedance of 20 percent or more of samples is considered strong evidence of unacceptable risk for those COPCs where the EPC was less than the ESV. However, the total PCB EPCs were greater than the screening values for all lower trophic level assessment endpoints; therefore, a frequency of exceedance evaluation was not necessary in the WOE evaluation.

The literature-derived screening values are considered conservative predictors of toxicity, and the exceedance of the screening levels may not indicate effects. While the EPCs for all of the remaining COPECs were greater than the conservative (lower threshold) screening levels, additional more realistic values were reviewed and considered as part of the WOE evaluation. The maximum concentrations were compared to these values (Table 6-1). The EPA Region 5 soil screening value (lower threshold) is based on effects to the shrew (EPA 2003). This overly conservative value, while useful in an initial screen, does not lend to accurate identification of final risk. Therefore, a more realistic screening value

representative of potential plant effects from *Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants* (Efroymson et al. 1997) was used in the refined comparison in soil. All total PCB soil concentrations in the residential area were below this value. The remaining medium-receptor combinations were carried into the risk description for additional consideration.

6.1.2 Food-Web Exposure

As discussed in Section 3.2, exposures for wildlife receptors were estimated through food-web modeling (dietary dose estimates) using site-specific abiotic media.

6.1.2.1 Terrestrial Wildlife

Estimated dietary doses of COPECs were compared to TRVs to evaluate the potential for adverse effects to wildlife that use the residential area. The following is a summary of the exposure estimates and screening results (Table 6-2):

- Mammalian vermivores—Short-tailed shrew: The estimated dose was above the NOAEL (HQ = 2.39) and MATC (HQ = 1.39) but below the LOAEL TRVs (HQ = 0.8).
- Avian omnivores—American robin: The estimated dose was below the NOAEL, MATC, and LOAEL TRVs.

The avian soil exposure pathway was eliminated from further consideration under the risk description.

6.1.2.2 Semiaquatic Wildlife

Estimated dietary doses of COPECs were compared to TRVs to evaluate the potential for adverse effects to wildlife receptors that use the Lange and Revere Street canals area. The following is a summary of the exposure estimates and screening results:

- Mammalian omnivores—Mink: The estimated dose exceeded the NOAEL and LOAEL TRVs.
- Avian omnivores—Belted kingfisher: The estimated dose exceeded the NOAEL and LOAEL TRVs.

The contaminant-exposure-receptor combinations were retained for further consideration under the risk description.

6.2 Risk Description

The estimates of risk from the various lines of evidence were combined with additional information for interpreting the risk results through a WOE process. For the risk description, risk estimates were put into context with a description of the extent, magnitude, and ecological significance of each line of evidence. In the following subsections, each line of evidence was evaluated and discussed for each assessment endpoint for direct exposure and food-web exposure routes. The outcome is a list of COPECs for soil, surface water, and sediment.

6.2.1 COPECs for Plants, Invertebrates, and Fish

Table 6-1 presents a summary of each line of evidence for each COPEC for terrestrial plants, invertebrates, and aquatic biota. In most samples, total PCB concentrations exceeded medium-based or tissue residue screening values. Unacceptable risk was indicated from all lines of evidence for total PCBs, based on potential adverse effects in water-column biota, including forage fish, and benthic invertebrate communities.

The WOE evaluation (Section 6.1.1) for residential area surface soil indicated no unacceptable risk for plant communities. Invertebrate risk could not be quantified based on limited total PCB toxicity data for invertebrates in soil. Invertebrates and plants are the most likely receptors to occur and be affected by

soil contamination. Currently, available habitat consists of routinely mowed grass in the residential yards. Thus, the plant and invertebrate populations are and will be controlled by human activity. Although plant and invertebrate receptors are present at the site, the habitat does not represent a natural ecosystem. No further consideration is required for terrestrial plants and invertebrate communities in the residential soil area.

6.2.2 COPECs for Wildlife

The potential for adverse effects to wildlife were evaluated through desktop food web modeling that integrates site-specific abiotic media results in food items. A summary of the HQs for wildlife is presented in Table 6-2. For food-web exposure estimates, three categories of HQs were calculated (NOAEL-, MATC-, and LOAEL-based HQs). The NOAEL-based HQs compare estimated or measured exposure doses with levels expected to have no adverse effects, the MATC-based HQ compare the estimated dose to the concentration at which potential adverse effects may begin to be observed, and LOAEL-based HQs compare estimated or measured exposure doses with levels expected to have potentially adverse effects. The estimated dose for the short-tailed shrew slightly exceeds the NOAEL and the MATC. The MATC exceedance is slightly above one (HQ = 1.39). Given these low levels of exceedance and the conservative nature of the assessment, unacceptable risk to mammalian vermivore populations is unlikely. Therefore, no unacceptable risk is likely for terrestrial wildlife in the residential areas; however, semiaquatic wildlife populations may be affected by concentrations in surface water (drinking water) and sediment.

SECTION 7

Uncertainty

Uncertainties are inherent in all risk assessments. The nature and magnitude of the uncertainties depend on the amount and quality of data available, degree of knowledge concerning site conditions, and assumptions made to perform the assessment. As such, there are uncertainties with each line of evidence used in the SLERA. The following subsections summarize uncertainties by each line of evidence.

7.1 Chemical Analytical Results and Screening

7.1.1 Data Collection

Descriptions of the magnitude and distribution of COPCs within the site and the reference area are considered to be generally representative of current conditions. In spite of the overall confidence in exposure data, some data are clearly biased toward times of the year when sampling is easiest or most desirable. Surface soil samples were collected from a grid in an unbiased location, lessening the likelihood of skewing the data upwards. Other solid media data also may be biased toward sampling areas with a higher probability of contamination. This suggests that COPC concentrations taken to be representative of certain media may be biased upwards, resulting in overestimation of risks.

The 2010 MDEQ collection of the fish for fillet analysis may over- or under-estimate forage fish exposure. The fish collected were larger than what are typically considered forage fish. The size and feeding guild for these fish may have allowed for higher levels of total PCBs to accumulate in their systems, overestimating exposure. However, only the fillets (skin off and skin on) were analyzed. PCBs tend to accumulate in the structural fats (in cells, organs, etc.) of lean fish such as walleye, pike, bass, crappy, and bluegill and in the depolipids of fatty fish such as carp. Filleting these fish before analysis may under-estimate the PCB accumulation in the fat.

7.1.2 Undetected Contaminants

Several individual Aroclors were analyzed for and not detected in medium-specific samples. Because the contaminants were not detected, they are assumed to not be present in site-specific media.

7.2 Food-Web Exposure Modeling

7.2.1 Exposure Parameters

Uncertainty also is introduced into the food-web exposure model for wildlife receptors using literature-derived exposure parameters. Because these parameters (such as body weight, food and water ingestion rates, diet composition, etc.) may differ across the geographic range of a species or among individuals of the same species, the values used may not accurately represent individuals at the TMD site.

For dietary composition specifically, data from the *Wildlife Exposure Factors Handbook* (EPA 1993) was used to set most dietary proportions. The majority of these dietary composition data are reported on a wet-weight basis. As a result, there is an inconsistency between conducting food-web modeling using dry-weight medium-specific (soil, sediment, surface water, and/or tissue) contaminant concentrations, but estimating dietary composition on a wet-weight basis. The uncertainty introduced by this would be minimal for receptors modeled with sole source diets, or with dietary components with similar moisture contents (for example, mink [100 percent fish]), but there is greater uncertainty for receptors with a mix

of dietary components with dissimilar moisture contents (for example, American robin eating plants and invertebrates). Ideally, weight-based dietary proportions would be converted to dry-weight proportions using moisture content data for each food category. However, sufficient data necessary to make such adjustments were not identified, and this uncertainty is noted.

7.2.2 Area Use Factors

Area use factors were assumed to equal 1. This is a conservative assumption since a significant percentage of each upper trophic level receptor species' time could be spent foraging offsite in unimpacted areas or in areas where chemical concentrations are expected to be significantly different.

7.2.3 Bioaccumulation

The bioaccumulation into aquatic plants and invertebrates was estimated using literature-based information. The uncertainties related to these approaches is briefly discussed in the following subsections.

7.2.3.1 Aquatic Plants

Because of the lack of information on uptake into aquatic plants in the scientific literature, site-specific BAFs calculated from terrestrial plant tissue and soil data also were used to represent aquatic plant bioaccumulation. Therefore, there is uncertainty associated with the use of terrestrial receptors representing aquatic plants. However, given the similarities in uptake routes in plants and the relative stability in terrestrial environments by soil, there is likely an overestimation of bioaccumulation.

7.2.3.2 Aquatic Invertebrates

The primary source of aquatic invertebrate BAFs were identified in the literature. Where reliable BAFs could not be identified in the literature, BAFs defaulted to 1 (100 percent bioaccumulation). Since the information does not include site-specific exposure information, there is uncertainty associated with it. However, bioaccumulation is intentionally conservative, likely overestimating bioaccumulation.

7.2.4 Toxicity Reference Values for Wildlife

Toxicity data were sparse or lacking for the selected receptor species, requiring the extrapolation of data from other wildlife species or from laboratory studies of non-wildlife species. This lack of data is a typical limitation for many wildlife species. When possible, however, the uncertainties associated with toxicity extrapolation were minimized through the careful selection of representative surrogate test species. The factors considered in selecting one species to represent another receptor species (or group of species) were taxonomic relatedness, trophic level, foraging method, and similarity of diet.

7.2.5 Hazard Quotients and Risk

The NOAEL-based HQs compare estimated exposure doses with levels expected to have no adverse effects, and LOAEL-based HQs compare estimated exposure doses with levels expected to have potentially adverse effects. By definition, the actual dose that is protective of an individual receptor falls between the NOAEL and LOAEL. Therefore, there is uncertainty with the risk evaluation for contaminants that yield a NOAEL-based HQ greater than 1 and LOAEL-based HQ below 1, because there is a possibility the lowest effect level is below the identified LOAEL TRV. Since that potentially lower effect level, if it exists, is below a level (identified LOAEL) that only has a potential to pose adverse affects itself, the uncertainty is low.

SECTION 8

Summary and Conclusions

The WOE evaluation presented in this SLERA identified that the sediment and surface water COPEC, total PCBs, requires consideration in the FS based on risk to semiaquatic wildlife populations, benthic invertebrate, and water-column biota communities, including forage fish.

Based on the WOE evaluation, total PCBs were not identified as presenting unacceptable ecological risk in upland terrestrial soils.

SECTION 9

References

CH2M HILL (CH2M). 2011. *2011 Source Area Investigation Data Summary Report St. Clair Shores, Michigan. WA No. 107-RICO-B5BP / Contract No. EP-S5-06-01*. November.

CH2M HILL. 2012. *Work Plan, Ten-Mile Drain Site, St. Clair Shores, Macomb County, Michigan, Sitewide Remedial Investigation/Feasibility Study*. September.

CH2M HILL. 2013. *Uniform Federal Policy Quality Assurance Project Plan, Ten-Mile Drain Site, St. Clair Shores, Michigan, Sitewide Remedial Investigation/Feasibility Study*. January.

CH2M HILL. 2016. *Draft Remedial Investigation Report Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan, Sitewide Remedial Investigation/Feasibility Study*. January.

Dyer, S. D., C. E. White-Hull, and B. K. Shephard. 2000. *Assessments of Chemical Mixtures via Toxicity Reference Values Overpredict Hazard to Ohio Fish Communities*. Environ. Sci. Technology 2000, 34:2518-2524.

EC&T. 2011. *Monitoring and Remedial Measures for the 10 Mile Drain Site*. Final Report. Part 201 Site ID: 50000736. September.

Efroymson, R. A., M. E. Will, G. W. Suter II, and A. C. Wooten. 1997. *Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision*. Oak Ridge National Laboratory, Oak Ridge, TN. 128 pp. ES/ER/TM-85/R3.

Michigan Department of Environmental Quality (MDEQ). 2009. *Site Inspection Report for St. Clair Shores Drain, St. Clair Shores, Michigan, U.S. EPA ID NO.:MID000510063*. December.

Michigan Natural Features Inventory. 2014. Available at: http://www.michigan.gov/dnr/0,4570,7-153-10370_12141_12168-30528--,00.html. Accessed 02/18/14.

Sample, B. E. and G. W. Suter II. 1994. Estimating exposure of terrestrial wildlife to contaminants. Environmental Restoration Division, ORNL Environmental Restoration Program. ES/ER/TM-125.

Sample, B., J.J. Beauchamp, R. Efroymson, and G.W. Suter, II. 1999. Literature-derived Bioaccumulation Models for Earthworms: Development and Validation. Environmental Toxicology and Chemistry. 18: 2110-2120.

Shephard, B. K. 1998. *Quantification of Ecological Risks to Aquatic Biota from Bioaccumulated Chemicals*. p. 2-31 to 2-52 in Proceedings National Sediment Bioaccumulation Conference. EPA 823-R-98-002, U.S. Environmental Protection Agency, Office of Water. Washington, D.C.

Suter, G. W. II, R. A. Efroymson, B. E. Sample, and D. S. Jones. 2000. *Ecological Risk Assessment for Contaminated Sites*. Lewis Publishers, Boca Raton, FL. 438 pp.

U.S. Environmental Protection Agency (EPA). 1992. *Framework for Ecological Risk Assessment*. EPA/630/R-92/001.

U.S. Environmental Protection Agency (EPA). 1993. *Wildlife Exposure Factors Handbook*. Volume I of II. EPA/600/R-93/187a.

U.S. Environmental Protection Agency (EPA). 1997. *Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments*. Interim Final. EPA/540/R-97/006.

U.S. Environmental Protection Agency (EPA). 1998. *Guidelines for Ecological Risk Assessment.* EPA/630/R-95/002.

U.S. Environmental Protection Agency (EPA). 2003. Region 5, RCRA Ecological Screening Levels. www.epa.gov/reg5rcra/ca/ESL.pdf. August.

U.S. Environmental Protection Agency (EPA). 2009. Biota-Sediment Accumulation Factors Database. Version 1.00. http://www.epa.gov/med/Prods_Pubs/bsaf.htm.

U.S. Environmental Protection Agency (EPA). Region 5, FIELDS Program. 2012. *Lange and Revere Street Canals Sediment Sampling Report*. June.

U.S. Fish and Wildlife Service. 2014. Species By County Report (http://www.fws.gov/endangered/). Accessed 02/14.

Tables

Table 2-1. Threatened and Endangered Species for Macomb County, Michigan

Ecological Risk Assessment

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

Listing	Source	Scientific Name	Common Name	Listed Status	Habitat[a]	Species or its habitat found at TMD site
Federal	United States Fish and Wildlife Service[a]	*Villosa fabalis*	Rayed Bean	E	Occurs in small, shallow rivers, in and near riffles and often near aquatic vegetation. It also occurs along shallow, wave-swept shores of lakes. This species is often buried deep in sand and/or gravel.	No
		Myotis sodalis	Indiana bat	E	Indiana bats roost and form maternity colonies under loose bark or in hollows and cavities of mature trees in the floodplain forest. In Michigan, savanna habitats adjacent to riparian corridors may have been historically important for roost sites, as the bats are thought to prefer sun-exposed trees for maximum warmth at the northern limit of their range. In winter, Indiana bats primarily hibernate in caves in Kentucky, Indiana, and Missouri, although a new hibernacula site has been found in northern Michigan at a hydroelectric facility.	No
State	Michigan Natural Features Inventory (as of 11/26/2013)[b]	*Alasmidonta viridis*	Slippershell	T	The slippershell mussel is typically found in creeks and headwaters of rivers, but has also been reported in larger rivers and in lakes (Clarke 1981). It usually occurs in sand or gravel substrate, butis occasionally found in mud (Clarke 1981). Suitable habitat for fish host species must be present.	No
		Acipenser fulvescens	Lake sturgeon	T	Lake sturgeon are generally benthic species and occur in large rivers and shallow areas of large lakes. They are most often associated with unvegetated deep run and pool habitats (>5ft) in rivers. In lakes, habitat use varies and depends on availability. Spawning often occurs in gravel bottom streams, but rocky, wave-swept lake shore and islands areas are also used when riverine habitats are unavailable.	No
		Agalinis gattingeri	Gattinger's gerardia	E	Annual forb (20-50 cm) of lakeplain prairies.	No
		Ammocrypta pellucida	Eastern sand darter	T	Found in streams and rivers with sandy substrates and lakes with sandy shoals. They are often found in slow moving waters where fine sand is deposited, often immediately downstream of a bend but can be found in faster waters.	No
		Armoracia lacustris	Lake cress	T	Quiet, shallow water up to approximately 7 dm in depth along lake margins, the backwaters of slow moving streams, bayous, and channels, and along inlets or outlets and stream mouths. It typically roots in silty, muddy, or sandy substrates.	No
		Asio otus	long-eared owl	T	Use many different forest communities for nest and roost sites but seem to be associated more closely with conifers than deciduous trees and occasionally use pine plantations. The proximity of these wooded areas to open grassy areas with abundant prey appears to be an important landscape feature.	No
		Buteo lineatus	Red-shouldered hawk	T	Will nest in a variety of habitats but seem to be closely associated with mature forests in or adjacent to wet meadows and swamps.	No
		Carex lupuliformis	False hop sedge	T	The few Michigan records supply little habitat information, noting that *C. lupuliformis* was collected from marshes, swamps, wet woods, shallow depressions in oak woods, swales, low wet ground, and vernal ponds in floodplains and other wooded wetlands.	No
		Clemmys guttata	Spotted turtle	T	Spotted turtles require clean, shallow, slow-moving bodies of water with muddy or mucky bottoms and some aquatic and emergent vegetation (Ernst et al. 1994, Harding 1997). Spotted turtles utilize a variety of shallow wetlands including shallow ponds, wet meadows, tamarack swamps, bogs, fens, sedge meadows, wet prairies, shallow cattail marshes, sphagnum seepages, small woodland streams and roadside ditches (Ernst et al. 1994, Harding 1997, Mauger pers. comm.). Although spotted turtles are considered fairly aquatic, they are frequently found on land in parts of its range and during certain times of the year (i.e., during the mating and nesting seasons and during the summer) (Ward et al. 1976). Terrestrial habitats in which spotted turtles are found include open fields and woodlands and along roads.	No
		Cyclonaias tuberculata	Purple wartyback	T	Found in medium to large rivers with gravel or mixed sand and gravel substrates.	No
		Epioblasma triquetra	Snuffbox mussel	E	The snuffbox mussel inhabits small and medium-sized rivers, although specimens have been taken from Lake Erie and large rivers, such as the St. Clair River.	No
		Epioblasma triquetra	Snuffbox	E	Inhabits sand, gravel, or cobble substrates in swift small and medium-sized rivers. Individuals are often buried deep in the sediment.	No
		Falco peregrinus	Peregrine falcon	E	historically nested on cliff faces but they have been introduced in several Michigan cities and are fairing quite well where they nest on many types of man-made structures and feed on the abundance of small city birds like Rock pigeons.	No
		Fraxinus profunda	Pumpkin ash	T	Found in floodplain forests in southern Lower Michigan, usually in lower bottoms. Also found in deciduous swamps.	No
		Galearis spectabilis	Showy orchis	T	primarily in rich deciduous woods, although vigorous woodland colonies are known to spread to more open habitat in Michigan, and in New England it is reported from hemlock forests (Case 1987). Showy orchis often occurs near temporary spring ponds in sandy clay or rich loam soils, or in the shadier and richer microhabitats.	No
		Gentiana puberulenta	Downy gentian	E	Found on edges of coastal plain marshes in oak barrens landscapes.	No
		Gentianella quinquefolia	Stiff gentian	T	Known from alkaline soils in marshy meadows, in mucky areas along river and stream banks, and wooded edges and hillsides.	No
		Hieracium paniculatum	Panicled hawkweed	T	The habitat for this species is poorly known, but it has been associated with sandy oak woods, particularly on old dunes.	No
		Hiodon tergisus	Mooneye	T	Occurs in clear large rivers and lakes. They are often found in deep holes of rivers with swift currents and firm substrates. In the Great Lakes they often occur within 1 mile of shoreline and are absent at depths below 10 m.	No
		Hydrastis canadensis	Goldenseal	T	Found in southern hardwood forests, as well as moist ravines and portions of riparian forests.	No
		Lampsilis fasciola	Wavyrayed lampmuss	T	Occurs in small-medium sized shallow streams, in and near riffles, with good current. It rarely occurs in medium rivers. The substrate preference is sand and/or gravel.	No
		Ligumia nasuta	Eastern pond mussel	E	Preferring fine sand to mud substrates, the Eastern pond mussel inhabits lakes and ponds, as well as slackwater areas of canals, rivers and streams.	No
		Ligumia recta	Black sandshell	E	Most commonly occupies rivers with strong currents and lakes with a firm substrate of gravel or sand.	No
		Linum virginianum	Virginia flax	T	Found in open oak forests, upland woods, dry and mesic lakeside and riparian forests in the southern Lower Peninsula.	No
		Notropis anogenus	Pugnose shiner	E	Inhabits clear vegetated lakes and vegetated pools and runs of low gradient streams and rivers. They appear to be extremely intolerant to turbidity.	No
		Obovaria olivaria	Hickorynut	E	The Hickorynut is found in large rivers and lakes in sand or sand and gravel substrates.	No
		Obovaria subrotunda	Round hickorynut	E	Typically found in medium to large rivers and along the shores of Lake Erie and Lake St. Clair, near river mouths. The round hickorynut generally is found in sand and gravel substrates in areas with moderate flow.	No
		Pantherophis gloydi	Eastern fox snake	T	Inhabits emergent wetlands along Great Lakes shorelines and associated large rivers and impoundments. They prefer habitats with herbaceous vegetation such as cattails (Typha spp.). Although primarily an open wetland species, Eastern Fox Snakes also occupy drier habitats such as vegetated dunes and beaches, old fields, and open woodlands. They also are able to utilize disturbed areas such as farm fields, pastures, woodlots, vacant urban lots, rock riprap, ditches, dikes, and residential properties. Eastern Fox Snakes are usually found near water, and are capable of swimming long distances over open offshore waters and between islands. This species deposits its eggs in or under the soil, woody debris, sawdust piles, decaying vegetation and mammal burrows, and hibernates in abandoned mammal burrows, muskrat lodges or other suitable shelters.	No
		Percina copelandi	Channel darter	E	Inhabits rivers and large creeks in areas of moderate current over sand and gravel substrates. It also occurs in wave swept nearshore areas of lakes Huron and Erie in coarse-sand, fine-gravel beach and sandbar habitats.	No
		Percina shumardi	River darter	E	Occurs in rivers and large streams, preferring deep, fast-flowing riffles with cobble and boulder substrates. Adults typically occur in shallow areas at night or when turbidity is high. They also occur in nearshore areas of the Great Lakes at depths around 5 m. This species is fairly tolerant to turbidity.	No
		Plantago cordata	Heart-leaved plantain	E	Heart-leaved plantain occurs in large river floodplains and along small, mucky streams.	No
		Platanthera ciliaris	Orange- or yellow-fringed orchid	E	Found in acidic swamps dominated by bog vegetation.	No
		Rallus elegans	King rail	E	Bird of coastal wetlands in the Great Lakes region. They are associated with permanent marsh habitats along upland-wetland edges largely dominated by tussock-forming sedges. In Michigan, we have few confirmed breeding records for this species in the last decade.	No
		Silphium integrifolium	Rosinweed	T	Stout forb (1.5 m) of moist to dry-mesic prairies. Occurs in prairie remnants along roads and railroad tracks or in cemeteries, in wet-mesic prairies and fens on peaty mucks and loams, and on dry-mesic to mesic loams and sandy loams.	No
		Sterna forsteri	Forster's tern	T	Nest far from shore within marshes to avoid many predators. They may use muskrat lodges or floating rack as a base to support the nest.	No
		Sterna hirundo	Common tern	T	Typically nest on islands to avoid many terrestrial predators.	No
		Toxolasma parvus	Lilliput	E	Most commonly occurs in creeks with mud or clay substrates, but can also be found in rivers, lakes, and impoundments.	No

Notes:

[a]Habitat descriptions collected from information provided at: http://mnfi.anr.msu.edu/data/specialanimals.cfm/ and http://mnfi.anr.msu.edu/data/specialplants.cfm.

E - endangered

T - threatened

1 - http://ecos.fws.gov/tess_public/; accessed 02/18/14

2 -http://mnfi.anr.msu.edu/data/county.cfm; accessed 02/18/14

Table 2-2. Assessment Endpoints, Level of Biological Organization, Measurement Endpoints, and Representative Receptors

Ecological Risk Assessment

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

Assessment Endpoint	Level of Biological Organization	Measurement Endpoint	Receptor
Terrestrial Habitats			
Survival, growth, and reproduction of terrestrial plant communities	Lower trophic level	Comparison of media concentrations to direct exposure screening values	Terrestrial plants
Survival, growth, and reproduction of terrestrial soil invertebrate communities			Soil invertebrates
Survival, growth, and reproduction of terrestrial mammalian vermivore populations			Short-tailed shrew
Survival, growth, and reproduction of terrestrial avian omnivore populations			American robin
Aquatic Habitats			
Survival, growth, and reproduction of fish, aquatic plant, and benthic invertebrate communities	Lower trophic level	Comparison of media concentrations to direct exposure screening values	Fish
			Benthic invertebrate community
			Aquatic plant community
Survival, growth, and reproduction of aquatic mammalian omnivore populations	Upper trophic level	Comparison of modeled dietary intakes using sediment concentrations with literature-based ingestion screening values	Mink
Survival, growth, and reproduction of aquatic avian omnivore populations			Belted kingfisher

Notes:

The mourning dove dietary intake will be compared to ingestion screening values based upon a no-observed -adverse-effect-levels

Table 2-3. Residential Area Surface Soil (0-3') Analytical Dataset for ERA

Ecological Risk Assessment

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

Station ID	TMD-003	TMD-003	TMD-003	TMD-004	TMD-004	TMD-004	TMD-005	TMD-005	TMD-005	TMD-005	TMD-006	TMD-006	TMD-006	TMD-007	TMD-007	TMD-007	TMD-008	TMD-008	TMD-008	TMD-009	TMD-009	TMD-009	TMD-010	TMD-010	TMD-010
Sample ID	TMD-SO-003-0/0.5	TMD-SO-003-1/1.5	TMD-SO-003-2.5/3	TMD-SO-004-0/0.5	TMD-SO-004-1/1.5	TMD-SO-004-2.5/3	TMD-SO-005-0.5/1	TMD-SO-005-0/0.5	TMD-SO-005-1/1.5	TMD-SO-005-2.5/3	TMD-SO-006-0/0.5	TMD-SO-006-1/1.5	TMD-SO-006-2.5/3	TMD-SO-007-0/0.5	TMD-SO-007-1/1.5	TMD-SO-007-2.5/3	TMD-SO-008-0/0.5	TMD-SO-008-1/1.5	TMD-SO-008-2.5/3	TMD-SO-009-0/0.5	TMD-SO-009-1/1.5	TMD-SO-009-2.5/3	TMD-SO-010-0/0.5R1	TMD-SO-010-0/0.5R2	TMD-SO-010-0/0.5R3
Date Collected	4/30/2013	4/30/2013	4/30/2013	4/30/2013	4/30/2013	4/30/2013	5/2/2013	4/30/2013	4/30/2013	4/30/2013	5/1/2013	5/1/2013	5/1/2013	5/1/2013	5/1/2013	5/1/2013	5/1/2013	5/1/2013	5/1/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013
Depth	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0.5 - 1	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	0 - 0.5	0 - 0.5
Analyte (µg/kg)																									
Aroclor-1016	420 U	390 U	380 U	390 U	390 U	380 U	20.8 U	380 U	390 U	390 U	20.9 U	380 U	390 U	360 U	370 U	360 U	380 U	400 U	380 U	420 U	20.7 U	440 U	400 U	400 U	410 U
Aroclor-1221							20.8 U				20.9 U										20.7 U				
Aroclor-1232	420 U	390 U	380 U	390 U	390 U	380 U	20.8 U	380 U	390 U	390 U	20.9 U	380 U	390 U	360 U	370 U	360 U	380 U	400 U	380 U	420 U	20.7 U	440 U	400 U	400 U	410 U
Aroclor-1242	420 U	390 U	380 U	390 U	390 U	380 U	20.8 U	380 U	390 U	390 U	20.9 U	380 U	390 U	360 U	370 U	360 U	380 U	400 U	380 U	420 U	20.7 U	440 U	400 U	400 U	410 U
Aroclor-1248	420 U	390 U	380 U	390 U	390 U	380 U	650	1300	390 U	390 U	20.9 U	380 U	390 U	360 U	370 U	360 U	380 U	400 U	380 U	370 J	20.7 U	440 U	1600	1200	2100
Aroclor-1254	420 U	390 U	380 U	390 U	390 U	380 U	20.8 U	380 U	390 U	390 U	20.9 U	380 U	390 U	360 U	370 U	360 U	380 U	400 U	380 U	420 U	20.7 U	440 U	400 U	400 U	410 U
Aroclor-1260	420 U	390 U	380 U	390 U	390 U	380 U	20.8 U	380 U	390 U	390 U	20.9 U	380 U	390 U	360 U	370 U	360 U	380 U	400 U	380 U	420 U	20.7 U	440 U	400 U	400 U	410 U
Aroclor-1262							20.8 U				20.9 U										20.7 U				
Aroclor-1268							20.8 U				20.9 U										20.7 U				
Total PCBs	420 U	390 U	380 U	390 U	390 U	380 U	660.4	1490	390 U	390 U	20.9 U	380 U	390 U	360 U	370 U	360 U	380 U	400 U	380 U	580	20.7 U	440 U	1800	1400	2305

Station ID	TMD-010	TMD-010	TMD-010	TMD-010	TMD-010	TMD-010	TMD-010	TMD-011	TMD-011	TMD-011	TMD-011	TMD-011	TMD-011	TMD-011	TMD-011	TMD-011	TMD-011	TMD-011	TMD-012	TMD-012	TMD-012	TMD-013	TMD-013	TMD-013
Sample ID	TMD-SO-010-1/1.5R1	TMD-SO-010-1/1.5R2	TMD-SO-010-1/1.5R3	TMD-SO-010-2.5/3R1	TMD-SO-010-2.5/3R2	TMD-SO-010-2.5/3R3	TMD-SO-010-2/2.5-R3	TMD-SO-011-0.5/1	TMD-SO-011-0.5/1R2	TMD-SO-011-0.5/1R3	TMD-SO-011-0/0.5/R3	TMD-SO-011-0/0.5R1	TMD-SO-011-0/0.5R2	TMD-SO-011-1/1.5R1	TMD-SO-011-1/1.5R2	TMD-SO-011-1/1.5R3	TMD-SO-011-2.5/3R1	TMD-SO-011-2.5/3R2	TMD-SO-011-2.5/3R3	TMD-SO-012-0/0.5	TMD-SO-012-1/1.5	TMD-SO-012-2.5/3	TMD-SO-013-0/0.5	TMD-SO-013-1/1.5	TMD-SO-013-2.5/3
Date Collected	5/2/2013	5/3/2013	5/3/2013	5/3/2013	5/6/2013	5/9/2013	5/6/2013	5/15/2013	5/15/2013	5/15/2013	5/6/2013	5/6/2013	5/6/2013	5/6/2013	5/6/2013	5/6/2013	5/6/2013	5/6/2013	5/8/2013	5/8/2013	5/8/2013	5/8/2013	5/8/2013	5/8/2013	5/9/2013	5/9/2013
Depth	1 - 1.5	1 - 1.5	1 - 1.5	2.5 - 3	2.5 - 3	2.5 - 3	2 - 2.5	0.5 - 1	0.5 - 1	0.5 - 1	0 - 0.5	0 - 0.5	0 - 0.5	1 - 1.5	1 - 1.5	1 - 1.5	2.5 - 3	2.5 - 3	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3
Analyte (µg/kg)																									
Aroclor-1016	390 U	390 U	390 U	380 U	400 U	380 U	390 U	370 U	390 U	370 U	410 U	400 U	380 U	380 U	360 U	340 U	370 U	400 U	19.8 U	370 U	380 U	350 U	390 U	350 U	350 U
Aroclor-1221																			19.8 U						
Aroclor-1232	390 U	390 U	390 U	380 U	400 U	380 U	390 U	370 U	390 U	370 U	410 U	400 U	380 U	380 U	360 U	340 U	370 U	400 U	19.8 U	370 U	380 U	350 U	390 U	350 U	350 U
Aroclor-1242	390 U	390 U	390 U	380 U	400 U	380 U	390 U	370 U	390 U	370 U	410 U	400 U	380 U	380 U	360 U	340 U	370 U	400 U	19.8 U	370 U	380 U	350 U	390 U	350 U	350 U
Aroclor-1248	310 J	270 J	270 J	380 U	400 U	210 J	210 J	1700	1700	1600	2900	2300	2300	380 U	630	960	280 J	470	19.8 U	370 U	380 U	350 U	640	350 U	550
Aroclor-1254	390 U	390 U	390 U	380 U	400 U	380 U	390 U	370 U	390 U	370 U	410 U	400 U	380 U	380 U	360 U	340 U	370 U	400 U	19.8 U	370 U	380 U	350 U	390 U	350 U	350 U
Aroclor-1260	390 U	390 U	390 U	380 U	400 U	380 U	390 U	370 U	390 U	370 U	410 U	400 U	380 U	380 U	360 U	340 U	370 U	400 U	19.8 U	370 U	380 U	350 U	390 U	350 U	350 U
Aroclor-1262																			19.8 U						
Aroclor-1268																			19.8 U						
Total PCBs	505	465	465	380 U	400 U	400	405	1885	1895	1785	3105	2500	2490	570	810	1130	465	670	19.8 U	370 U	380 U	350 U	835	350 U	725

Station ID	TMD-014	TMD-014	TMD-014	TMD-015	TMD-015	TMD-015	TMD-016	TMD-016	TMD-016	TMD-016	TMD-017	TMD-017	TMD-017	TMD-018	TMD-018	TMD-018	TMD-019	TMD-019	TMD-019	TMD-019	TMD-019	TMD-019	TMD-019	TMD-019	TMD-020
Sample ID	TMD-SO-014-0/0.5	TMD-SO-014-1/1.5	TMD-SO-014-2.5/3	TMD-SO-015-0/0.5	TMD-SO-015-1/1.5	TMD-SO-015-2.5/3	TMD-SO-016-0/0.5	TMD-SO-016-1.5/2	TMD-SO-016-1/1.5	TMD-SO-016-2.5/3	TMD-SO-017-0/0.5	TMD-SO-017-1/1.5	TMD-SO-017-2.5/3	TMD-SO-018-0/0.5	TMD-SO-018-1/1.5	TMD-SO-018-2.5/3	TMD-SO-019-0/0.5R1	TMD-SO-019-0/0.5R2	TMD-SO-019-0/0.5R3	TMD-SO-019-1/1.5R1	TMD-SO-019-1/1.5R2	TMD-SO-019-1/1.5R3	TMD-SO-019-2.5/3R2	TMD-SO-019-2.5/3R3	TMD-SO-020-0/0.5
Date Collected	5/9/2013	5/9/2013	5/9/2013	5/9/2013	5/9/2013	5/9/2013	5/9/2013	5/15/2013	5/9/2013	5/9/2013	5/10/2013	5/10/2013	5/10/2013	5/10/2013	5/13/2013	5/13/2013	5/13/2013	5/13/2013	5/13/2013	5/13/2013	5/13/2013	5/13/2013	5/13/2013	5/13/2013	5/13/2013	5/13/2013
Depth	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1.5 - 2	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	1 - 1.5	2.5 - 3	1 - 1.5	2.5 - 3	0 - 0.5	0 - 0.5	0 - 0.5	1 - 1.5	1 - 1.5	1 - 1.5	2.5 - 3	2.5 - 3	0 - 0.5
Analyte (µg/kg)																									
Aroclor-1016	420 U	410 U	390 U	20.4 U	360 U	340 U	300 U	380 U	340 U	380 U	380 U	390 U	420 U	360 U	19.8 U	390 U	380 U	360 U	19.6 U	390 U	380 U	380 U	380 U	410 U	360 U
Aroclor-1221				20.4 U											19.8 U				19.6 U						
Aroclor-1232	420 U	410 U	390 U	20.4 U	360 U	340 U	300 U	380 U	340 U	380 U	380 U	390 U	420 U	360 U	19.8 U	390 U	380 U	360 U	19.6 U	390 U	380 U	380 U	380 U	410 U	360 U
Aroclor-1242	420 U	410 U	390 U	20.4 U	360 U	340 U	300 U	380 U	340 U	380 U	380 U	390 U	420 U	360 U	19.8 U	390 U	380 U	360 U	19.6 U	390 U	380 U	380 U	380 U	410 U	360 U
Aroclor-1248	420 U	410 U	390 U	1600	360 U	340 U	240 J	380 U	3300	380 U	380 U	390 U	420 U	360 U	19.8 U	390 U	1000	1700	1400	340 J	370 J	620	230 J	410 U	180 J
Aroclor-1254	420 U	410 U	390 U	20.4 U	360 U	340 U	300 U	380 U	340 U	380 U	380 U	390 U	420 U	360 U	19.8 U	390 U	380 U	360 U	19.6 U	390 U	380 U	380 U	380 U	410 U	360 U
Aroclor-1260	420 U	410 U	390 U	20.4 U	360 U	340 U	300 U	380 U	340 U	380 U	380 U	390 U	420 U	360 U	19.8 U	390 U	380 U	360 U	19.6 U	390 U	380 U	380 U	380 U	410 U	360 U
Aroclor-1262				20.4 U											19.8 U				19.6 U						
Aroclor-1268				20.4 U											19.8 U				19.6 U						
Total PCBs	420 U	410 U	390 U	1610.2	360 U	340 U	390	380 U	3470	380 U	380 U	390 U	420 U	360 U	19.8 U	390 U	1190	1880	1409.8	535	560	810	420	410 U	360

Table 2-3. Residential Area Surface Soil (0-3') Analytical Dataset for ERA

Ecological Risk Assessment

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

Station ID	TMD-020	TMD-020	TMD-020	TMD-021	TMD-021	TMD-021	TMD-022	TMD-022	TMD-022	TMD-023	TMD-023	TMD-023	TMD-024	TMD-024	TMD-024	TMD-025	TMD-025	TMD-025	TMD-026	TMD-026	TMD-026	TMD-027	TMD-027	TMD-027	TMD-028
Sample ID	TMD-SO-020-1/1.5	TMD-SO-020-2.5/3	TMD-SO-020-2.5/3R1	TMD-SO-021-0/0.5	TMD-SO-021-1/1.5	TMD-SO-021-2.5/3	TMD-SO-022-0/0.5	TMD-SO-022-1/1.5	TMD-SO-022-2.5/3	TMD-SO-023-0/0.5	TMD-SO-023-1/1.5	TMD-SO-023-2.5/3	TMD-SO-024-0/0.5	TMD-SO-024-1/1.5	TMD-SO-024-2.5/3	TMD-SO-025-0/0.5	TMD-SO-025-1/1.5	TMD-SO-025-2.5/3	TMD-SO-026-0/0.5	TMD-SO-026-1/1.5	TMD-SO-026-2.5/3	TMD-SO-027-0/0.5	TMD-SO-027-1/1.5	TMD-SO-027-2.5/3	TMD-SO-028-0/0.5R1
Date Collected	5/13/2013	5/14/2013	5/13/2013	5/14/2013	5/15/2013	5/15/2013	5/15/2013	5/15/2013	5/15/2013	5/15/2013	5/15/2013	5/15/2013	5/16/2013	5/16/2013	5/16/2013	5/16/2013	5/16/2013	5/16/2013	5/16/2013	5/16/2013	5/16/2013	5/16/2013	5/16/2013	5/16/2013	5/16/2013	5/16/2013
Depth	1 - 1.5	2.5 - 3	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5
Analyte (µg/kg)																									
Aroclor-1016	360 U	390 U	370 U	400 U	20.2 U	380 U	360 U	360 U	400 UJ	390 U	19.7 U	380 U	330 U	370 U	400 U	380 U	370 U	410 U	430 U	20.9 U	370 U	380 U	360 U	410 UJ	360 U
Aroclor-1221					20.2 U						19.7 U									20.9 U					
Aroclor-1232	360 U	390 U	370 U	400 U	20.2 U	380 U	360 U	360 U	400 UJ	390 U	19.7 U	380 U	330 U	370 U	400 U	380 U	370 U	410 U	430 U	20.9 U	370 U	380 U	360 U	410 UJ	360 U
Aroclor-1242	360 U	390 U	370 U	400 U	20.2 U	380 U	360 U	360 U	400 UJ	390 U	19.7 U	380 U	330 U	370 U	400 U	380 U	370 U	410 U	430 U	20.9 U	370 U	380 U	360 U	410 UJ	360 U
Aroclor-1248	500	390 U	370 U	400 U	20.2 U	380 U	360 U	1200	400 UJ	290 J	116	300 J	820	440	400 U	1700	350 J	310 J	1600	490	510	440	570	410 UJ	360 U
Aroclor-1254	360 U	390 U	370 U	400 U	20.2 U	380 U	360 U	360 U	400 UJ	390 U	19.7 U	380 U	330 U	370 U	400 U	380 U	370 U	410 U	430 U	20.9 U	370 U	380 U	360 U	410 UJ	360 U
Aroclor-1260	360 U	390 U	370 U	400 U	20.2 U	380 U	360 U	360 U	400 UJ	390 U	19.7 U	380 U	330 U	370 U	400 U	380 U	370 U	410 U	430 U	20.9 U	370 U	380 U	360 U	410 UJ	360 U
Aroclor-1262					20.2 U						19.7 U									20.9 U					
Aroclor-1268					20.2 U						19.7 U									20.9 U					
Total PCBs	680	390 U	370 U	400 U	20.2 U	380 U	360 U	1380	400 U	485	125.85	490	985	625	400 U	1890	535	515	1815	500.45	695	630	750	410 U	360 U

Station ID	TMD-028	TMD-028	TMD-028	TMD-028	TMD-028	TMD-028	TMD-028	TMD-028	TMD-029	TMD-029	TMD-029	TMD-030	TMD-030	TMD-030	TMD-031	TMD-031	TMD-031	TMD-032	TMD-032	TMD-032	TMD-033	TMD-033	TMD-033	TMD-033	TMD-034
Sample ID	TMD-SO-028-0/0.5R2	TMD-SO-028-0/0.5R3	TMD-SO-028-1/1.5R1	TMD-SO-028-1/1.5R2	TMD-SO-028-1/1.5R3	TMD-SO-028-2.5/3R1	TMD-SO-028-2.5/3R2	TMD-SO-028-2.5/3R3	TMD-SO-029-0/0.5	TMD-SO-029-1/1.5	TMD-SO-029-2.5/3	TMD-SO-030-0/0.5	TMD-SO-030-1/1.5	TMD-SO-030-2.5/3	TMD-SO-031-0/0.5	TMD-SO-031-1/1.5	TMD-SO-031-2.5/3	TMD-SO-032-0/0.5	TMD-SO-032-1/1.5	TMD-SO-032-2.5/3	TMD-SO-033-0.5/1	TMD-SO-033-0/0.5	TMD-SO-033-1/1.5	TMD-SO-033-2.5/3	TMD-SO-034-0/0.5
Date Collected	5/17/2013	5/17/2013	5/16/2013	5/17/2013	5/17/2013	5/17/2013	5/17/2013	5/17/2013	5/16/2013	5/16/2013	5/16/2013	5/17/2013	5/17/2013	5/20/2013	5/20/2013	5/20/2013	5/20/2013	5/20/2013	5/20/2013	5/20/2013	5/21/2013	5/20/2013	5/20/2013	5/20/2013	5/20/2013
Depth	0 - 0.5	0 - 0.5	1 - 1.5	1 - 1.5	1 - 1.5	2.5 - 3	2.5 - 3	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 3.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0.5 - 1	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5
Analyte (µg/kg)																									
Aroclor-1016	360 U	350 U	380 U	19.9 U	350 U	400 U	400 U	290 U	330 U	360 U	390 U	19.9 U	390 U	400 U	320 U	300 U	390 U	330 U	330 U	340 U	340 U	21.2 U	300 U	220 U	300 U
Aroclor-1221				19.9 U								19.9 U										21.2 U			
Aroclor-1232	360 U	350 U	380 U	19.9 U	350 U	400 U	400 U	290 U	330 U	360 U	390 U	19.9 U	390 U	400 U	320 U	300 U	390 U	330 U	330 U	340 U	340 U	21.2 U	300 U	220 U	300 U
Aroclor-1242	360 U	350 U	380 U	19.9 U	350 U	400 U	400 U	290 U	330 U	360 U	390 U	19.9 U	390 U	400 U	320 U	300 U	390 U	330 U	330 U	340 U	340 U	21.2 U	300 U	220 U	300 U
Aroclor-1248	360 U	350 U	380 U	19.9 U	350 U	400 U	400 U	290 U	1700	900	390 J	19.9 U	390 U	400 U	330	230 J	530	1200	330 U	240 J	340 U	2900	530	340	200 J
Aroclor-1254	360 U	350 U	380 U	19.9 U	350 U	400 U	400 U	290 U	330 U	360 U	390 U	19.9 U	390 U	400 U	320 U	300 U	390 U	330 U	330 U	340 U	340 U	21.2 U	300 U	220 U	300 U
Aroclor-1260	360 U	350 U	380 U	19.9 U	350 U	400 U	400 U	290 U	330 U	360 U	390 U	19.9 U	390 U	400 U	320 U	300 U	390 U	330 U	330 U	340 U	340 U	21.2 U	300 U	220 U	300 U
Aroclor-1262				19.9 U								19.9 U										21.2 U			
Aroclor-1268				19.9 U								19.9 U										21.2 U			
Total PCBs	360 U	350 U	380 U	19.9 U	350 U	400 U	400 U	290 U	1865	1080	585	19.9 U	390 U	400 U	490	380	725	1365	330 U	410	340 U	2910.6	680	450	350

Station ID	TMD-034	TMD-034	TMD-035	TMD-035	TMD-035	TMD-036	TMD-036	TMD-036	TMD-037	TMD-037	TMD-037	TMD-038	TMD-038	TMD-038	TMD-039	TMD-039	TMD-039	TMD-040	TMD-040	TMD-040	TMD-040	TMD-040	TMD-040	TMD-040	TMD-040
Sample ID	TMD-SO-034-1/1.5	TMD-SO-034-2.5/3	TMD-SO-035-0/0.5	TMD-SO-035-1/1.5	TMD-SO-035-2.5/3	TMD-SO-036-0/0.5	TMD-SO-036-1/1.5	TMD-SO-036-2.5/3	TMD-SO-037-0/0.5	TMD-SO-037-1/1.5	TMD-SO-037-2.5/3	TMD-SO-038-0/0.5	TMD-SO-038-1/1.5	TMD-SO-038-2.5/3	TMD-SO-039-0/0.5	TMD-SO-039-1/1.5	TMD-SO-039-2.5/3	TMD-SO-040-0/0.5R1	TMD-SO-040-0/0.5R2	TMD-SO-040-0/0.5R3	TMD-SO-040-1/1.5R1	TMD-SO-040-1/1.5R2	TMD-SO-040-1/1.5R3	TMD-SO-040-2.5/3R1	TMD-SO-040-2.5/3R2
Date Collected	5/20/2013	5/20/2013	5/21/2013	5/21/2013	5/21/2013	5/21/2013	5/21/2013	5/21/2013	5/21/2013	5/21/2013	5/21/2013	5/21/2013	5/21/2013	5/21/2013	5/21/2013	5/22/2013	5/22/2013	5/22/2013	5/22/2013	5/22/2013	5/22/2013	5/22/2013	5/22/2013	5/22/2013	5/22/2013	5/22/2013
Depth	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	0 - 0.5	0 - 0.5	1 - 1.5	1 - 1.5	1 - 1.5	2.5 - 3	2.5 - 3
Analyte (µg/kg)																									
Aroclor-1016	300 U	320 U	400 U	340 U	280 U	20.2 U	360 U	400 U	380 U	300 U	260 U	370 U	330 U	370 U	19.8 U	350 U	340 U	290 U	330 U	19.6 U	340 U	390 U	300 U	320 U	370 U
Aroclor-1221						20.2 U									19.8 U					19.6 U					
Aroclor-1232	300 U	320 U	400 U	340 U	280 U	20.2 U	360 U	400 U	380 U	300 U	260 U	370 U	330 U	370 U	19.8 U	350 U	340 U	290 U	330 U	19.6 U	340 U	390 U	300 U	320 U	370 U
Aroclor-1242	300 U	320 U	400 U	340 U	280 U	20.2 U	360 U	400 U	380 U	300 U	260 U	370 U	330 U	370 U	19.8 U	350 U	340 U	290 U	330 U	19.6 U	340 U	390 U	300 U	320 U	370 U
Aroclor-1248	300 U	320 U	400 U	340 U	280 U	20.2 U	880	210 J	380 U	300 U	260 U	520	330 U	370 U	430	350 U	340 U	290 U	330 U	19.6 U	340 U	390 U	300 U	320 U	370 U
Aroclor-1254	300 U	320 U	400 U	340 U	280 U	20.2 U	360 U	400 U	380 U	300 U	260 U	370 U	330 U	370 U	19.8 U	350 U	340 U	290 U	330 U	19.6 U	340 U	390 U	300 U	320 U	370 U
Aroclor-1260	300 U	320 U	400 U	340 U	280 U	20.2 U	360 U	400 U	380 U	300 U	260 U	370 U	330 U	370 U	19.8 U	350 U	340 U	290 U	330 U	19.6 U	340 U	390 U	300 U	320 U	370 U
Aroclor-1262						20.2 U									19.8 U					19.6 U					
Aroclor-1268						20.2 U									19.8 U					19.6 U					
Total PCBs	300 U	320 U	400 U	340 U	280 U	20.2 U	1060	410	380 U	300 U	260 U	705	330 U	370 U	439.9	350 U	340 U	290 U	330 U	19.6 U	340 U	390 U	300 U	320 U	370 U

Table 2-3. Residential Area Surface Soil (0-3') Analytical Dataset for ERA

Ecological Risk Assessment

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

Station ID	TMD-040	TMD-041	TMD-041	TMD-041	TMD-041	TMD-041	TMD-041	TMD-041	TMD-041	TMD-041	TMD-043	TMD-043	TMD-043	TMD-044	TMD-044	TMD-044	TMD-045	TMD-045	TMD-046	TMD-046	TMD-047	TMD-047	TMD-047	TMD-049	TMD-049
Sample ID	2.5/3R3	0/0.5R1	0/0.5R2	0/0.5R3	1/1.5R1	1/1.5R2	1/1.5R3	2.5/3R1	2.5/3R2	2.5/3R3	0/0.5	1.5/2	1/1.5	0/0.5	1.5/2	1/1.5	0/0.5	1/1.5	0/0.5	1/1.5	0/0.5	1.5/2	1/1.5	0/0.5	1.5/2
Date Collected	5/22/2013	5/22/2013	5/22/2013	5/23/2013	5/22/2013	5/23/2013	5/23/2013	5/22/2013	5/22/2013	5/23/2013	6/4/2013	6/5/2013	6/4/2013	6/5/2013	6/6/2013	6/5/2013	6/5/2013	6/5/2013	6/5/2013	6/5/2013	6/5/2013	6/6/2013	6/5/2013	6/6/2013	6/7/2013
Depth	2.5 - 3	0 - 0.5	0 - 0.5	0 - 0.5	1 - 1.5	1 - 1.5	1 - 1.5	2.5 - 3	2.5 - 3	2.5 - 3	0 - 0.5	1.5 - 2	1 - 1.5	0 - 0.5	1.5 - 2	1 - 1.5	0 - 0.5	1 - 1.5	0 - 0.5	1 - 1.5	0 - 0.5	1.5 - 2	1 - 1.5	0 - 0.5	1.5 - 2
Analyte (µg/kg)																									
Aroclor-1016	350 U	320 U	350 U	20.2 U	380 U	330 U	330 U	380 U	340 U	370 U	360 U	380 U	380 U	360 U	330 U	360 U	104 U	390 U	410 U	390 U	360 U	410 U	400 U	390 U	98.2 U
Aroclor-1221				20.2 U													104 U								98.2 U
Aroclor-1232	350 U	320 U	350 U	20.2 U	380 U	330 U	330 U	380 U	340 U	370 U	360 U	380 U	380 U	360 U	330 U	360 U	104 U	390 U	410 U	390 U	360 U	410 U	400 U	390 U	98.2 U
Aroclor-1242	350 U	320 U	350 U	20.2 U	380 U	330 U	330 U	380 U	340 U	370 U	360 U	380 U	380 U	360 U	330 U	360 U	104 U	390 U	410 U	390 U	360 U	410 U	400 U	390 U	98.2 U
Aroclor-1248	350 U	320 U	350 U	999	450	190 J	330 U	380 U	340 U	370 U	4800	7000	8000	14000	1100	2400	1340	390 U	2200	1200	6300	800	7700	2000	98.2 U
Aroclor-1254	350 U	320 U	350 U	320	380 U	330 U	330 U	380 U	340 U	370 U	360 U	380 U	380 U	360 U	330 U	360 U	1030	390 U	410 U	390 U	360 U	410 U	400 U	390 U	334
Aroclor-1260	350 U	320 U	350 U	20.2 U	380 U	330 U	330 U	380 U	340 U	370 U	360 U	380 U	380 U	360 U	330 U	360 U	104 U	390 U	410 U	390 U	360 U	410 U	400 U	390 U	98.2 U
Aroclor-1262				20.2 U													104 U								98.2 U
Aroclor-1268				20.2 U													104 U								98.2 U
Total PCBs	350 U	320 U	350 U	1319	640	355	330 U	380 U	340 U	370 U	4980	7190	8190	14180	1265	2580	2370	390 U	2405	1395	6480	1005	7900	2195	383.1

Station ID	TMD-049	TMD-050	TMD-050	TMD-050	TMD-051	TMD-051	TMD-051	TMD-052	TMD-052	TMD-054	TMD-054	TMD-054	TMD-056	TMD-056	TMD-057	TMD-057	TMD-057	TMD-058	TMD-058	TMD-058	TMD-059	TMD-059	TMD-059	TMD-060	TMD-060
Sample ID	TMD-SO-049-1/1.5	TMD-SO-050-0/0.5	TMD-SO-050-1.5/2	TMD-SO-050-1/1.5	TMD-SO-051-0/0.5	TMD-SO-051-1.5/2	TMD-SO-051-1/1.5	TMD-SO-052-0/0.5	TMD-SO-052-1/1.5	TMD-SO-054-0/0.5	TMD-SO-054-1.5/2	TMD-SO-054-1/1.5	TMD-SO-056-0/0.5	TMD-SO-056-1/1.5	TMD-SO-057-0/0.5	TMD-SO-057-1/1.5	TMD-SO-057-2.5/3	TMD-SO-058-0/0.5	TMD-SO-058-1/1.5	TMD-SO-058-2.5/3	TMD-SO-059-0/0.5	TMD-SO-059-1/1.5	TMD-SO-059-2.5/3	TMD-SO-060-0/0.5R1	TMD-SO-060-0/0.5R2
Date Collected	6/6/2013	6/4/2013	6/5/2013	6/4/2013	6/6/2013	6/7/2013	6/6/2013	6/6/2013	6/6/2013	6/6/2013	6/7/2013	6/6/2013	6/6/2013	6/6/2013	9/9/2013	9/9/2013	9/9/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013
Depth	1 - 1.5	0 - 0.5	1.5 - 2	1 - 1.5	0 - 0.5	1.5 - 2	1 - 1.5	0 - 0.5	1 - 1.5	0 - 0.5	1.5 - 2	1 - 1.5	0 - 0.5	1 - 1.5	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	0 - 0.5
Analyte (µg/kg)																									
Aroclor-1016	390 U	350 U	360 U	380 U	390 U	108 U	94.9 U	400 U	380 U	370 U	103 U	400 U	410 U	380 U	360 U	360 U	260 U	370 U	340 U	370 U	370 U	360 U	18.1 U	300 U	310 U
Aroclor-1221						108 U	94.9 U				103 U												18.1 U		
Aroclor-1232	390 U	350 U	360 U	380 U	390 U	108 U	94.9 U	400 U	380 U	370 U	103 U	400 U	410 U	380 U	360 U	360 U	260 U	370 U	340 U	370 U	370 U	360 U	18.1 U	300 U	310 U
Aroclor-1242	390 U	350 U	360 U	380 U	390 U	108 U	94.9 U	400 U	380 U	370 U	103 U	400 U	410 U	380 U	360 U	360 U	260 U	370 U	340 U	370 U	370 U	360 U	18.1 U	300 U	310 U
Aroclor-1248	700	3300	840	3000	8700	108 U	2070	7600	380 U	2800	716	3100	950	440	7400	380	260 U	700	340 U	370 U	920	280 J	43.5 J	540	310 U
Aroclor-1254	1100 J	350 U	360 U	380 U	390 U	190	1900 J	400 U	380 U	370 U	220	400 U	410 U	380 U	5900	360 U	260 U	370 U	340 U	370 U	780	360 U	18.1 U	300 U	310 U
Aroclor-1260	390 U	350 U	360 U	380 U	390 U	108 U	94.9 U	400 U	380 U	370 U	103 U	400 U	410 U	380 U	360 U	360 U	260 U	370 U	340 U	370 U	370 U	360 U	18.1 U	300 U	310 U
Aroclor-1262						108 U	94.9 U				103 U												18.1 U		
Aroclor-1268						108 U	94.9 U				103 U												18.1 U		
Total PCBs	1800	3475	1020	3190	8895	244	3970	7800	380 U	2985	936	3300	1155	630	13300	560	260 U	885	340 U	370 U	1700	460	52.55	690	310 U

Station ID	TMD-060	TMD-060	TMD-060	TMD-060	TMD-060	TMD-060	TMD-060	TMD-061	TMD-061	TMD-061	TMD-062	TMD-062	TMD-062	TMD-063	TMD-063	TMD-063	TMD-064	TMD-064	TMD-064	TMD-066	TMD-066	TMD-066	TMD-067	TMD-067	TMD-067
Sample ID	TMD-SO-060-0/0.5R3	TMD-SO-060-1/1.5R1	TMD-SO-060-1/1.5R2	TMD-SO-060-1/1.5R3	TMD-SO-060-2.5/3R1	TMD-SO-060-2.5/3R2	TMD-SO-060-2.5/3R3	TMD-SO-061-0/0.5	TMD-SO-061-1/1.5	TMD-SO-061-2.5/3	TMD-SO-062-0/0.5	TMD-SO-062-1/1.5	TMD-SO-062-2.5/3	TMD-SO-063-0/0.5	TMD-SO-063-1/1.5	TMD-SO-063-2.5/3	TMD-SO-064-0/0.5	TMD-SO-064-1/1.5	TMD-SO-064-2.5/3	TMD-SO-066-0/0.5	TMD-SO-066-1/1.5	TMD-SO-066-2.5/3	TMD-SO-067-0/0.5	TMD-SO-067-1/1.5	TMD-SO-067-2.5/3
Date Collected	9/10/2013	9/10/2013	9/10/2013	9/11/2013	9/10/2013	9/10/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013
Depth	0 - 0.5	1 - 1.5	1 - 1.5	1 - 1.5	2.5 - 3	2.5 - 3	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3
Analyte (µg/kg)																									
Aroclor-1016	19.1 U	300 U	320 U	360 U	370 U	270 U	330 U	340 U	300 U	370 U	300 U	300 U	300 U	18.9 U	300 U	260 U	310 U	310 U	340 U	320 U	20 U	330 U	330 U	340 U	330 U
Aroclor-1221	19.1 U													18.9 U							20 U				
Aroclor-1232	19.1 U	300 U	320 U	360 U	370 U	270 U	330 U	340 U	300 U	370 U	300 U	300 U	300 U	18.9 U	300 U	260 U	310 U	310 U	340 U	320 U	20 U	330 U	330 U	340 U	330 U
Aroclor-1242	19.1 U	300 U	320 U	360 U	370 U	270 U	330 U	340 U	300 U	370 U	300 U	300 U	300 U	18.9 U	300 U	260 U	310 U	310 U	340 U	320 U	20 U	330 U	330 U	340 U	330 U
Aroclor-1248	619	300 U	320 U	360 U	370 U	270 U	330 U	1400	290 J	370 U	300 U	300 U	300 U	16900	1500	260 U	550	850	340 U	640	979	330 U	1100	410	330 U
Aroclor-1254	341	300 U	320 U	360 U	370 U	270 U	330 U	1300	240 J	370 U	300 U	300 U	300 U	6120	300 U	260 U	310 U	750	340 U	470	540	330 U	630	330 J	330 U
Aroclor-1260	19.1 U	300 U	320 U	360 U	370 U	270 U	330 U	340 U	300 U	370 U	300 U	300 U	300 U	18.9 U	300 U	260 U	310 U	310 U	340 U	320 U	20 U	330 U	330 U	340 U	330 U
Aroclor-1262	19.1 U													18.9 U							20 U				
Aroclor-1268	19.1 U													18.9 U							20 U				
Total PCBs	960	300 U	320 U	360 U	370 U	270 U	330 U	2700	530	370 U	300 U	300 U	300 U	23020	1650	260 U	705	1600	340 U	1110	1519	330 U	1730	740	330 U

Table 2-3. Residential Area Surface Soil (0-3') Analytical Dataset for ERA

Ecological Risk Assessment

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

Station ID	TMD-068	TMD-068	TMD-068	TMD-070	TMD-070	TMD-070	TMD-071	TMD-071	TMD-071	TMD-072	TMD-072	TMD-072	TMD-073	TMD-073	TMD-073	TMD-074	TMD-074	TMD-074	TMD-074	TMD-074	TMD-074	TMD-074	TMD-074	TMD-074	TMD-075
Sample ID	TMD-SO-068-0/0.5	TMD-SO-068-1/1.5	TMD-SO-068-2.5/3	TMD-SO-070-0/0.5	TMD-SO-070-1/1.5	TMD-SO-070-2.5/3	TMD-SO-071-0/0.5	TMD-SO-071-1/1.5	TMD-SO-071-2.5/3	TMD-SO-072-0/0.5	TMD-SO-072-1/1.5	TMD-SO-072-2.5/3	TMD-SO-073-0/0.5	TMD-SO-073-1/1.5	TMD-SO-073-2.5/3	TMD-SO-074-0/0.5R1	TMD-SO-074-0/0.5R2	TMD-SO-074-0/0.5R3	TMD-SO-074-1/1.5R1	TMD-SO-074-1/1.5R2	TMD-SO-074-1/1.5R3	TMD-SO-074-2.5/3R1	TMD-SO-074-2.5/3R2	TMD-SO-074-2.5/3R3	TMD-SO-075-0/0.5
Date Collected	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/13/2013	9/13/2013	9/13/2013	9/13/2013	9/13/2013	9/13/2013	9/13/2013	9/13/2013	9/13/2013	9/13/2013	9/13/2013	9/16/2013	9/16/2013	9/17/2013	9/16/2013	9/16/2013	9/17/2013	9/16/2013	9/16/2013	9/17/2013	9/17/2013
Depth	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	0 - 0.5	0 - 0.5	1 - 1.5	1 - 1.5	1 - 1.5	2.5 - 3	2.5 - 3	2.5 - 3	0 - 0.5
Analyte (µg/kg)																									
Aroclor-1016	310 U	300 U	380 U	370 U	330 U	350 U	300 U	310 U	310 UJ	340 UJ	280 U	290 U	300 U	340 U	270 U	18.8 U	290 U	360 U	320 U	18.8 U	300 U	270 U	320 U	350 U	330 U
Aroclor-1221																18.8 U				18.8 U					
Aroclor-1232	310 U	300 U	380 U	370 U	330 U	350 U	310 U	310 U	310 UJ	340 UJ	280 U	290 U	300 U	340 U	270 U	18.8 U	290 U	360 U	320 U	18.8 U	300 U	270 U	320 U	350 U	330 U
Aroclor-1242	310 U	300 U	380 U	370 U	330 U	350 U	310 U	310 U	310 UJ	340 UJ	280 U	290 U	300 U	340 U	270 U	18.8 U	290 U	360 U	320 U	18.8 U	300 U	270 U	320 U	350 U	330 U
Aroclor-1248	8300	660	230 J	370 U	530	370	3000	310 U	310 UJ	340 UJ	280 U	290 U	300 U	340 U	270 U	1280	540	360 U	280 J	230 J	300 U	270 U	320 U	350 U	330 U
Aroclor-1254	5100	370	380 U	370 U	280 J	350 U	2600	310 U	310 UJ	340 UJ	280 U	290 U	300 U	340 U	270 U	900	540	550	220 J	306	230 J	270 U	320 U	350 U	330 U
Aroclor-1260	310 U	300 U	380 U	370 U	330 U	350 U	310 U	310 U	310 UJ	340 UJ	280 U	290 U	300 U	340 U	270 U	18.8 U	290 U	360 U	320 U	18.8 U	300 U	270 U	320 U	350 U	330 U
Aroclor-1262																18.8 U				18.8 U					
Aroclor-1268																18.8 U				18.8 U					
Total PCBs	13400	1030	420	370 U	810	545	5600	310 U	310 U	340 U	280 U	290 U	300 U	340 U	270 U	2180	1080	730	500	536	380	270 U	320 U	350 U	330 U

Station ID	TMD-075	TMD-077	TMD-077	TMD-077	TMD-078	TMD-078	TMD-078	TMD-078	TMD-078	TMD-078	TMD-078	TMD-078	TMD-078	TMD-079	TMD-079	TMD-080	TMD-080	TMD-081	TMD-081	TMD-082	TMD-082	TMD-083	TMD-083	TMD-084	TMD-084
Sample ID	TMD-SO-075-1/1.5	TMD-SO-077-0/0.5	TMD-SO-077-1/1.5	TMD-SO-077-2.5/3	TMD-SO-078-0/0.5R1	TMD-SO-078-0/0.5R2	TMD-SO-078-0/0.5R3	TMD-SO-078-1/1.5R1	TMD-SO-078-1/1.5R2	TMD-SO-078-1/1.5R3	TMD-SO-078-2.5/3R1	TMD-SO-078-2.5/3R2	TMD-SO-078-2.5/3R3	TMD-SO-079-0/0.5	TMD-SO-079-1/1.5	TMD-SO-080-0/0.5	TMD-SO-080-1/1.5	TMD-SO-081-0/0.5	TMD-SO-081-1/1.5	TMD-SO-082-0/0.5	TMD-SO-082-1/1.5	TMD-SO-083-0/0.5	TMD-SO-083-1/1.5	TMD-SO-084-0/0.5	TMD-SO-084-1/1.5
Date Collected	9/17/2013	9/17/2013	9/17/2013	9/17/2013	9/17/2013	9/17/2013	9/17/2013	9/17/2013	9/17/2013	9/17/2013	9/17/2013	9/17/2013	9/17/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013
Depth	1 - 1.5	0 - 0.5	1 - 1.5	2.5 - 3	0 - 0.5	0 - 0.5	0 - 0.5	1 - 1.5	1 - 1.5	1 - 1.5	2.5 - 3	2.5 - 3	2.5 - 3	0 - 0.5	1 - 1.5	0 - 0.5	1 - 1.5	0 - 0.5	1 - 1.5	0 - 0.5	1 - 1.5	0 - 0.5	1 - 1.5	0 - 0.5	1 - 1.5
Analyte (µg/kg)																									
Aroclor-1016	320 U	360 U	350 U	18.2 U	320 UJ	320 UJ	370 U	340 U	250 U	280 U	340 U	340 U	350 UJ	360 U	19.2 U	290 U	330 U	260 U	290 U	380 U	290 U	390 U	260 U	19 U	330 UJ
Aroclor-1221				18.2 U											19.2 U									19 U	
Aroclor-1232	320 U	360 U	350 U	18.2 U	320 UJ	320 UJ	370 U	340 U	250 U	280 U	340 U	340 U	350 UJ	360 U	19.2 U	290 U	330 U	260 U	290 U	380 U	290 U	390 U	260 U	19 U	330 UJ
Aroclor-1242	320 U	360 U	350 U	18.2 U	320 UJ	320 UJ	370 U	340 U	250 U	280 U	340 U	340 U	350 UJ	360 U	19.2 U	290 U	330 U	260 U	290 U	380 U	290 U	390 U	260 U	19 U	330 UJ
Aroclor-1248	320 U	4800	180 J	238	1900 J	1200 J	2400	980	810	500	340 U	340 U	350 UJ	360 U	19.2 U	290 U	330 U	200 J	290 U	380 U	290 U	390 U	260 U	19 U	330 UJ
Aroclor-1254	750	4600	350 U	91.5 J	1100 J	760 J	1500	550	520	320	340 U	340 U	350 UJ	360 U	19.2 U	290 U	330 U	270 J	290 U	380 U	290 U	390 U	260 U	19 U	330 UJ
Aroclor-1260	320 U	360 U	350 U	18.2 U	320 UJ	320 UJ	370 U	340 U	250 U	280 U	340 U	340 U	350 UJ	360 U	19.2 U	290 U	330 U	260 U	290 U	380 U	290 U	390 U	260 U	19 U	330 UJ
Aroclor-1262				18.2 U											19.2 U									19 U	
Aroclor-1268				18.2 U											19.2 U									19 U	
Total PCBs	910	9400	355	329.5	3000	1960	3900	1530	1330	820	340 U	340 U	350 U	360 U	19.2 U	290 U	330 U	470	290 U	380 U	290 U	390 U	260 U	19 U	330 U

Station ID	TMD-085	TMD-086	TMD-087
Sample ID	TMD-SO-085-0/0.5	TMD-SO-086-0/0.5	TMD-SO-087-0/0.5
Date Collected	9/19/2013	9/19/2013	9/19/2013
Depth	0 - 0.5	0 - 0.5	0 - 0.5
Analyte (µg/kg)			
Aroclor-1016	280 U	250 U	260 U
Aroclor-1221			
Aroclor-1232	280 U	250 U	260 U
Aroclor-1242	280 U	250 U	260 U
Aroclor-1248	3400	1500	840
Aroclor-1254	2200	250 U	750
Aroclor-1260	280 U	250 U	260 U
Aroclor-1262			
Aroclor-1268			
Total PCBs	5600	1625	1590

U - Not detected
J - Estimated detection
µg/kg - micrograms per kilogram

Table 2-4. Martian Drain Surface Soil (0-3') Analytical Dataset for ERA

Ecological Risk Assessment

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

Sample ID	Sample Interval (feet)	Result Total PCBs	
TMD-SO-088-2/3	2/3	0.094	U
TMD-SO-089-2/3	2/3	0.092	U
TMD-SO-090-2/3	2/3	0.10	U
TMD-SO-091-2/3	2/3	0.17	
TMD-SO-092-2/3	2/3	0.11	U
TMD-SO-093-2/3	2/3	0.080	U
TMD-SO-094-2/3	2/3	0.099	
TMD-SO-097-1.5/2.5	1.5/2.5	0.10	U
TMD-SO-098-0.3/1.3	0.3/1.3	0.083	U
TMD-SO-099-1.8/2.8	1.8/2.8	0.95	
TMD-SO-100-1.4/2.4	1.4/2.4	0.093	U
TMD-SO-101-1/2	1/2	0.092	U
TMD-SO-101-2/3	2/3	0.10	U
TMD-SO-101-2/3-R	2/3	0.10	U
TMD-SO-103-1.4/2.4	1.4/2.4	0.095	U
TMD-SO-107-1.9/2.9	1.9/2.9	2.6	
TMD-SO-111-1.5/2.5	1.5/2.5	0.074	U
TMD-SO-112-1.7/2.7	1.7/2.7	0.081	U
TMD-SO-113-2/3	2/3	0.084	U
TMD-SO-119-1.3/2.3	1.3/2.3	0.11	U
TMD-SO-120-1.4/2.4	1.4/2.4	2.4	
TMD-SO-120-1.4/2.4-R	1.4/2.4	1.9	
TMD-SO-122-1.6/2	1.6/2	0.10	U
TMD-SO-122-2/2.4	2/2.4	0.12	U
TMD-SO-122-2/2.4-R	2/2.4	0.11	U
TMD-SO-123-1.1/2.1	1.1/2.1	0.11	U

Table 2-5. ERA Sediment Analytical Data Set

Ecological Risk Assessment

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

StationID	c001	c002	c003	c004	c005	c006	c007	c008	c009	c010	c011	c012	c013	c014	c015	c016	c017	c018	c019	c020	c021	c022	c023	c024	c025	c026	c027	c028	c029	c030
SampleID	LR_SD_c001_0_6	LR_SD_c002_0_6	LR_SD_c003_0_6	LR_SD_c004_0_6	LR_SD_c005_0_6	LR_SD_c006_0_6	LR_SD_c007_0_6	LR_SD_c008_0_6	LR_SD_c009_0_6	LR_SD_c010_0_6	LR_SD_c011_0_6	LR_SD_c012_0_6	LR_SD_c013_0_6	LR_SD_c014_0_6	LR_SD_c015_0_6	LR_SD_c016_0_6	LR_SD_c017_0_6	LR_SD_c018_0_6	LR_SD_c019_0_6	LR_SD_c020_0_6	LR_SD_c021_0_6	LR_SD_c022_0_6	LR_SD_c023_0_6	LR_SD_c024_0_6	LR_SD_c025_0_6	LR_SD_c026_0_6	LR_SD_c027_0_6	LR_SD_c028_0_6	LR_SD_c029_0_6	LR_SD_c03 0_0_6
DateCollected	8/25/2011	8/25/2011	8/25/2011	8/27/2011	8/27/2011	8/27/2011	8/27/2011	8/29/2011	8/29/2011	8/29/2011	8/29/2011	8/29/2011	8/29/2011	8/29/2011	8/30/2011	8/30/2011	8/30/2011	8/30/2011	8/30/2011	8/30/2011	8/30/2011	8/30/2011	8/30/2011	8/31/2011	8/31/2011	8/31/2011	8/31/2011	8/31/2011	8/31/2011	########
Depth (ft)	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Analyte (µg/kg)																														
Aroclor-1016	19000	5700	23000	180000	78000 J	38000 J	5900	4600	14000	12000	5300	23000	12000	12000	37000 J	18000	900 U	6400	2900	3100	4600	2600	19000	5800	7600	7000	5000	28000	170000	130000
Aroclor-1232	700 U	400 U	610 U	1600 U	1500 U	700 U	2400 U	460 U	620 U	570 U	450 U	700 U	410 U	420 U	720 U	700 U	900 U	1100 U	1400 U	1100 U	880 U	940 U	1100 U	710 U	740 U	570 U	580 U	750 U	6300 U	570 U
Aroclor-1242	700 U	400 U	610 U	1600 U	1500 U	700 U	2400 U	460 U	620 U	570 U	450 U	700 U	410 U	420 U	720 U	700 U	900 U	1100 U	1400 U	1100 U	880 U	940 U	1100 U	710 U	740 U	570 U	580 U	750 U	6300 U	570 U
Aroclor-1248	700 U	400 U	610 U	1600 U	1500 U	700 U	2400 U	460 U	620 U	570 U	450 U	700 U	410 U	420 U	720 U	700 U	3800	1100 U	1400 U	1100 U	880 U	940 U	1100 U	710 U	740 U	570 U	580 U	750 U	6300 U	570 U
Aroclor-1254	700 U	400 U	610 U	1600 U	1500 U	700 U	2400 U	460 U	620 U	570 U	450 U	700 U	410 U	420 U	720 U	700 U	900 U	1100 U	1400 U	1100 U	880 U	940 U	1100 U	710 U	740 U	570 U	580 U	750 U	6300 U	570 U
Aroclor-1260	700 U	400 U	1000	1600 U	1500 U	1700	2400 U	460 U	620 U	570 U	450 U	980	530	450	2000	790	900 U	1100 U	1400 U	1100 U	880 U	940 U	1100 U	710 U	740 U	570 U	580 U	700 J	6300 U	1300
Total PCBs	19350	5900	24000	180800	78750	39700	7100	4830	14310	12285	5525	23980	12530	12450	39000	18790	4700	6950	3600	3650	5040	3070	19550	6155	7970	7285	5290	28700	173150	131300

StationID	c031	c032	c033	c034	c035	c036	c037	c038	c039	c040	c041	p001	p002	p003	p004	p005	p006	p007	p008	p009	p010	p011	p012	p013	p014	p015	p016	p017	p018
SampleID	LR_SD_c031_0_6	LR_SD_c032_0_6	LR_SD_c033_0_6	LR_SD_c034_0_6	LR_SD_c035_0_6	LR_SD_c036_0_6	LR_SD_c037_0_6	LR_SD_c038_0_6	LR_SD_c039_0_6	LR_SD_c040_0_6	LR_SD_c041_0_6	LR_SD_p001	LR_SD_p002	LR_SD_p003	LR_SD_p004	LR_SD_p005	LR_SD_p006	LR_SD_p007	LR_SD_p008	LR_SD_p009	LR_SD_p010	LR_SD_p011	LR_SD_p012	LR_SD_p013	LR_SD_p014	LR_SD_p015	LR_SD_p016	LR_SD_p017	LR_SD_p018
DateCollected	8/31/2011	8/31/2011	8/31/2011	9/1/2011	9/1/2011	9/1/2011	9/1/2011	9/1/2011	9/1/2011	9/1/2011	9/1/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011
Depth (ft)	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Analyte (µg/kg)																														
Aroclor-1016	140000	210000	5900	280000	440000	170000	65000	44000 J	26000	320 U	220 U	450 J	660	390 U	3800	8100	5100	7100	9300	10000	2900	28000	9900	1200 J	3900 J	2600 J	450 J	2000 J	1000 J
Aroclor-1232	2900 U	4300 U	730 U	7800 U	9300 U	7700 U	860 U	720 U	740 U	320 U	220 U	480 U	580 U	390 U	1800 U	630 U	2100 U	3200 U	1600 U	1800 U	510 U	840 U	840 U	600 UJ	1200 UJ	1100 UJ	480 UJ	780 UJ	570 UJ
Aroclor-1242	2900 U	4300 U	730 U	7800 U	9300 U	7700 U	860 U	720 U	740 U	320 U	220 U	480 U	580 U	390 U	1800 U	630 U	2100 U	3200 U	1600 U	1800 U	510 U	840 U	840 U	600 UJ	1200 UJ	1100 UJ	480 UJ	780 UJ	570 UJ
Aroclor-1248	2900 U	4300 U	730 U	7800 U	9300 U	7700 U	860 U	720 U	740 U	320 U	220 U	480 U	580 U	390 U	1800 U	630 U	2100 U	3200 U	1600 U	1800 U	510 U	840 U	840 U	600 UJ	1200 UJ	1100 UJ	480 UJ	780 UJ	570 UJ
Aroclor-1254	2900 U	4300 U	730 U	800 U	9300 U	7700 U	860 U	720 U	740 U	320 U	220 U	480 U	580 U	390 U	1800 U	630 U	2100 U	3200 U	1600 U	1800 U	510 U	840 U	840 U	600 UJ	1200 UJ	1100 UJ	480 UJ	780 UJ	570 UJ
Aroclor-1260	2900 U	4300 U	730 U	7800 U	9300 U	7700 U	26000	720 U	740 U	320 U	220 U	480 U	580 U	390 U	1800 U	630 U	2100 U	3200 U	1600 U	1800 U	510 U	840 U	840 U	600 UJ	1200 UJ	1100 UJ	480 UJ	780 UJ	570 UJ
Total PCBs	141450	212150	6265	283900	444650	173850	91000	44360	26370	320 U	220 U	690	950	390 U	4700	8415	6150	8700	10100	10900	3155	28420	10320	1500	4500	3150	690	2390	1285

StationID	p019	p020	p021	p022	p023	p024	p025	p026	p027	p028	p029	p030	p031	p032	p033	p034	p035	p036	p037	p038	p039	p040	p041	p042	p043	p044	p045	p046	p047
SampleID	LR_SD_p019	LR_SD_p020	LR_SD_p021	LR_SD_p022	LR_SD_p023	LR_SD_p024	LR_SD_p025	LR_SD_p026	LR_SD_p027	LR_SD_p028	LR_SD_p029	LR_SD_p030	LR_SD_p031	LR_SD_p032	LR_SD_p033	LR_SD_p034	LR_SD_p035	LR_SD_p036	LR_SD_p037	LR_SD_p038	LR_SD_p039	LR_SD_p040	LR_SD_p041	LR_SD_p042	LR_SD_p043	LR_SD_p044	LR_SD_p045	LR_SD_p046	LR_SD_p047
DateCollected	8/26/2011	8/26/2011	8/26/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/25/2011	8/25/2011
Depth (ft)	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Analyte (µg/kg)																													
Aroclor-1016	5000 J	2000 J	2300 J	2900	2700	3400 J	17000	12000	110000	150000	370 U	1800	1400	4000	9300	11000	6600	15000	7800	2500	6300	2400	1100 J	1400 J	3400 J	6000 J	2500 J	6500	22000
Aroclor-1232	930 UJ	590 UJ	730 UJ	510 U	440 U	670 UJ	650 U	390 U	480 U	2400 U	370 U	720 U	490 U	1900 U	3500 U	2600 U	1800 U	710 U	630 U	500 U	680 U	340 U	620 UJ	640 UJ	800 UJ	920 UJ	640 UJ	620 U	670 U
Aroclor-1242	930 UJ	590 UJ	730 UJ	510 U	440 U	670 UJ	650 U	390 U	480 U	2400 U	370 U	720 U	490 U	1900 U	3500 U	2600 U	1800 U	710 U	630 U	500 U	680 U	340 U	620 UJ	640 UJ	800 UJ	920 UJ	640 UJ	620 U	670 U
Aroclor-1248	930 UJ	590 UJ	730 UJ	510 U	440 U	670 UJ	650 U	390 U	480 U	2400 U	370 U	720 U	490 U	1900 U	3500 U	2600 U	1800 U	710 U	630 U	500 U	680 U	340 U	620 UJ	640 UJ	800 UJ	920 UJ	640 UJ	620 U	670 U
Aroclor-1254	930 UJ	590 UJ	730 UJ	510 U	440 U	670 UJ	650 U	390 U	480 U	2400 U	370 U	720 U	490 U	1900 U	3500 U	2600 U	1800 U	710 U	630 U	500 U	680 U	340 U	620 UJ	640 UJ	800 UJ	920 UJ	640 UJ	620 U	670 U
Aroclor-1260	930 UJ	590 UJ	730 UJ	510 U	440 U	670 UJ	320 J	390 U	410 J	2400 U	370 U	720 U	490 U	1900 U	3500 U	2600 U	1800 U	710 U	630 U	500 U	680 U	340 U	620 UJ	640 UJ	800 UJ	920 UJ	640 UJ	620 U	670 U
Total PCBs	5465	2295	2665	3155	2920	3735	17320	12195	110410	151200	370 U	2160	1645	4950	11050	12300	7500	15355	8115	2750	6640	2570	1410	1720	3800	6460	2820	6810	22335

StationID	p048	p049	p050	p051	p052	p053	p054	p055	p056	p057	p058	p059	p060	p061	p062	p063	p064	p065	p066	p067	p068	p069	p070	p071	p072	p073	p074	p075	p076
SampleID	LR_SD_p048	LR_SD_p049	LR_SD_p050	LR_SD_p051	LR_SD_p052	LR_SD_p053	LR_SD_p054	LR_SD_p055	LR_SD_p056	LR_SD_p057	LR_SD_p058	LR_SD_p059	LR_SD_p060	LR_SD_p061	LR_SD_p062	LR_SD_p063	LR_SD_p064	LR_SD_p065	LR_SD_p066	LR_SD_p067	LR_SD_p068	LR_SD_p069	LR_SD_p070	LR_SD_p071	LR_SD_p072	LR_SD_p073	LR_SD_p074	LR_SD_p075	LR_SD_p076
DateCollected	8/25/2011	8/25/2011	8/26/2011	8/25/2011	8/25/2011	8/23/2011	8/25/2011	8/25/2011	8/24/2011	8/25/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/24/2011	8/23/2011	8/23/2011	8/25/2011
Depth (ft)	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Analyte (µg/kg)																													
Aroclor-1016	28000	120000	30000 J	290 U	570000	360 U	3800	3200	1700	3600	4600	5100	4100	8900	11000	25000	11000	11000	7400	1700	880	5100	14000	3000	17000	270000	81000	900 U	1100 J
Aroclor-1232	1100 U	2300 U	990 UJ	290 U	12000 U	360 U	420 U	380 U	600 U	290 U	790 U	470 U	300 U	670 U	530 U	610 U	570 U	480 U	540 U	320 U	330 U	240 U	380 U	320 U	3200 U	2300 U	2800 U	900 U	270 U
Aroclor-1242	1100 U	2300 U	990 UJ	290 U	12000 U	360 U	420 U	380 U	600 U	290 U	790 U	470 U	300 U	670 U	530 U	610 U	570 U	480 U	540 U	320 U	330 U	240 U	380 U	320 U	3200 U	2300 U	2800 U	900 U	270 U
Aroclor-1248	1100 U	2300 U	990 UJ	290 U	12000 U	360 U	420 U	380 U	600 U	290 U	790 U	470 U	300 U	670 U	530 U	610 U	570 U	480 U	540 U	320 U	330 U	240 U	380 U	320 U	3200 U	2300 U	2800 U	900 U	270 U
Aroclor-1254	1100 U	2300 U	990 UJ	290 U	12000 U	360 U	420 U	380 U	600 U	290 U	790 U	470 U	300 U	670 U	530 U	610 U	570 U	480 U	540 U	320 U	330 U	240 U	380 U	320 U	3200 U	2300 U	2800 U	900 U	270 U
Aroclor-1260	1100 U	2300 U	990 UJ	290 U	12000 U	360 U	420 U	380 U	600 U	290 U	790 U	290 J	300 U	340 J	380 J	870	570 U	480 U	540 U	320 U	330 U	240 U	380 U	320 U	3200 U	3500	2800 U	900 U	270 U
Total PCBs	28550	121150	30495	290 U	576000	360 U	4010	3390	2000	3745	4995	5390	4250	9240	11380	25870	11285	11240	7670	1860	1045	5220	14190	3160	18600	273500	82400	900 U	1235

StationID	p077	p078	p079	p080	p081	p082	p083	p084	p085	p086	p087	p088	p089	p090	p091	p092	p093	p094	p095	p096	p097	p098	p099	p100	p200	p201	p202	p300	p301
SampleID	LR_SD_p077	LR_SD_p078	LR_SD_p079	LR_SD_p080	LR_SD_p081	LR_SD_p082	LR_SD_p083	LR_SD_p084	LR_SD_p085	LR_SD_p086	LR_SD_p087	LR_SD_p088	LR_SD_p089	LR_SD_p090	LR_SD_p091	LR_SD_p092	LR_SD_p093	LR_SD_p094	LR_SD_p095	LR_SD_p096	LR_SD_p097	LR_SD_p098	LR_SD_p099	LR_SD_p100	LR_SD_p200	LR_SD_p201	LR_SD_p202	LR_SD_p300	LR_SD_p301
DateCollected	8/25/2011	8/25/2011	8/25/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/24/2011	8/23/2011	8/31/2011	8/31/2011	8/31/2011	9/1/2011	9/1/2011
Depth (ft)	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Analyte (µg/kg)																													
Aroclor-1016	830 J	1200 J	49000	13000	1500 J	7600	4100	3900	4300	9000	1700	2800	26000	4800	20000	930	91000	16000 J	29000 J	130000	85000	53000	77000	1400 U	1100 U	880 U	990 U	270000	320000
Aroclor-1232	360 U	220 U	2900 U	870 U	780 U	560 U	480 U	570 U	390 U	210 U	340 U	310 U	560 U	320 U	530 U	340 U	590 U	300 U	690 UJ	4100 U	2100 U	1700 U	3400 U	1400 U	1100 U	880 U	990 U	94000 U	9800 U
Aroclor-1242	360 U	220 U	2900 U	870 U	780 U	560 U	480 U	570 U	390 U	210 U	340 U	310 U	560 U	320 U	530 U	340 U	590 U	300 U	690 UJ	4100 U	2100 U	1700 U	3400 U	1400 U	1100 U	880 U	990 U	94000 U	9800 U
Aroclor-1248	360 U	220 U	2900 U	870 U	780 U	560 U	480 U	570 U	390 U	210 U	340 U	310 U	560 U	320 U	530 U	340 U	590 U	300 U	690 UJ	4100 U	2100 U	1700 U	3400 U	1400 U	1100 U	880 U	990 U	94000 U	9800 U
Aroclor-1254	360 U	220 U	2900 U	870 U	780 U	560 U	480 U	570 U	390 U	210 U	340 U	310 U	560 U	320 U	530 U	340 U	590 U	300 U	690 UJ	4100 U	2100 U	1700 U	3400 U	1400 U	1100 U	880 U	990 U	94000 U	9800 U
Aroclor-1260	360 U	220 U	2900 U	600 J	780 U	560 U	480 U	570 U	390 U	210 U	340 U	310 U	920	320 U	400 J	340 U	1500	300 U	690 UJ	1000	310 J	1700 U	3400 U	1400 U	1100 U	880 U	990 U	94000 U	9800 U
Total PCBs	1010	1310	50450	13600	1890	7880	4340	4185	4495	9105	1870	2955	26920	4960	20400	1100	92500	16150	29345	131000	85310	53850	78700	1400 U	1100 U	880 U	990 U	317000	324900

U - Not detected

J - Estimated detection

µg/kg - micrograms per kilogram

Table 2-6. ERA Surface Water Analytical Data Set

Ecological Risk Assessment

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

StationID	Outfall	Outfall	Outfall	Outfall	Outfall
SampleID	Outfall_022411	Outfall_051910	Outfall_062211	Outfall_081811	Outfall_111710
DateCollected	2/24/2011	5/19/2010	6/22/2011	8/18/2011	11/17/2010
Analyte (µg/L)					
Total PCBs	0.69	8.2	1.8	0.92	1.1

U - Not detected

J - Estimated detection

µg/L - micrograms per liter

Table 2-7. ERA Fish Analytical Data Set

Ecological Risk Assessment

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

SampleID	2010303-S01	2010303-S02	2010303-S03	2010303-S04	2010303-S05	2010303-S06	2010303-S07	2010303-S08	2010303-S09	2010303-S10	2010303-S11	2010303-S12	2010303-S13
DateCollected	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010
Fish Collected	Pumpkinseed	Pumpkinseed	Pumpkinseed	Pumpkinseed	Pumpkinseed	Black Crappie	Black Crappie	Black Crappie	Black Crappie	Black Crappie	Black Crappie	Black Crappie	Black Crappie
Analyte (µg/kg)													
Total PCBs -Congeners	14806.5	12908	11736.9	2661.8	758.8	22876.4	13973.8	11800.4	22021.8	20077.2	14456.2	311.5	14366.3

SampleID	2010303-S14	2010303-S15	2010303-S16	2010303-S17	2010303-S18	2010303-S19	2010303-S20	2010303-S21	2010303-S22	2010303-S23	2010303-S24	2010303-S25	2010303-S26
DateCollected	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010
Fish Collected	Bass	Bass	Bass	Bass	Bass	Bass	Bass	Bass	Bass	Bass	Bass	Bass	Bass
Analyte (µg/kg)													
Total PCBs -Congeners	647.1	4690.8	841.6	8185	2753.6	2198.8	5365.2	5072.7	1425.8	3143.1	2105.3	8287.3	3823.4

SampleID	2010303-S27	2010303-S28	2010303-S29	2010303-S30	2010303-S31	2010303-S32	2010303-S33	2010303-S34	2010303-S35	2010303-S36	2010303-S37	2010303-S38
DateCollected	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010	4/28/2010
Fish Collected	Carp	Carp	Carp	Carp	Carp	Carp	Carp	Carp	Carp	Carp	Carp	Carp
Analyte (µg/kg)												
Total PCBs -Congeners	59374.4	40296.3	93125	12751.2	21298.5	129878.7	132470.6	111966.3	82155.1	201425.3	29092.7	85914.3

Notes:

U - Not detected

J - Estimated detection

µg/kg - micrograms per kilogram

Table 3-1. Exposure Parameters for Upper-Trophic-Level Ecological Receptors

Ecological Risk Assessment

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

	Mean Body Weight (BW) (kg)		Food Ingestion Rate (kg/kg-BW/day - dry)[b]		Water Ingestion Rate (L/day)[a]		Dietary Composition (proportion)						Soil/ Sediment Ingestion		Home Range (ha)	
Receptor	Value	Reference	Value	Reference	Value	Reference	Terr. Plants	Soil Invert.	Fish	Aquatic Plants	Benthic Invert.	Reference	Value	Reference	Value	Reference
Mammals																
Short-tailed shrew	0.017	USEPA 1993	0.1282	Nagy, 2001	0.005	USEPA 1993	0.047	0.823	0	0	0	USEPA 1993; Sample and Suter 1994	0.130	Sample and Suter 1994	0.39	Sample and Suter 1994
Mink	0.87	M/F - IN; Silva and Downing 1995	0.0497	Nagy, 2001	0.024	2.8% of max BW; USEPA 1993	0	0	1.0	0	0	USEPA 1993	0.000	Sample and Suter 1994	20.4	Mitchell 1961; EPA 1993
Birds																
American robin	0.077	USEPA 1993	0.1498	Nagy, 2001	0.014	allometric equation	0.519	0.435	0	0	0	Martin et al. 1951	0.046	Sample and Suter 1994	0.15	Weatherhead & McRae 1990; EPA 1993
Belted kingfisher	0.17	Dunning 1993	0.0215	Nagy, 2001	0.011	allometric equation	0	0	0.84	0	0.16	USEPA 1993	0.0	Sample and Suter 1994	103.0	Brooks & Davis 1987; EPA 1993

Nagy (2001) regression equation format --> dry matter g/day/g = *a* (grams body weight)^{b}

Group	*a*	*b*	
Birds			
all birds	0.638	0.685	kingfisher
insectivorous birds	0.54	0.705	robin
Mammals			
insectivorous mammals	0.373	0.622	shrew
carnivorous mammals	0.153	0.834	mink

[a] Calculated water ingestion rate from body weight using Nagy's allometric equations for all birds as reported in EPA, 1993; water ingestion rate all birds = (0.059*(minimum body weight^0.67))/minimum body weight and using allometric equations for all mammals as reported in EPA, 1993; water ingestion rate all mammals = (0.099*(body weight^0.9))/body weight.

[b] Food ingestion rates are calculated using Nagy 2001 and the mean body weight listed unless otherwise noted.

Acronyms:

BW - body weight

FIR - Food ingestion rate

Table 3-2. Lower-Trophic-Level Ecological Screening Values and Exposure Point Concentrations

Ecological Risk Assessment

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

Analyte	Ecological Screening Value	Reference	EPC	Basis[a]
Surface soil (µg/kg)				
Total PCB	0.332	EPA 2003	1159.0	95% KM (BCA) UCL
Surface water (µg/L)				
Total PCB	0.00012	EPA 2003	9.1	95% Approximate Gamma UCL
Sediment (µg/kg)				
Total PCB	59.8	EPA 2003	80071.9	97.5% KM (Chebyshev) UCL
Fish (µg/k WW)				
Total PCB	440.0	Dyer 2000	65014.2	95% Chebyshev (Mean, Sd) UCL

[a] EPCs calculated from the EPA ProUCL 4.1 software at: http://www.epa.gov/osp/hstl/tsc/software.htm

EPC - Exposure point concentration

µg/kg - micrograms per kilogram

µg/L - micrograms per liter

WW = Wet weight

Table 3-3. Plant BCFs and Invertebrate BAFs

Ecological Risk Assessment

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

Contaminant	Soil-Plant BCF (dry weight)		Soil-Invertebrate BAF (dry weight)		Soil-Small mammal BAF (dry weight)		Log K_{ow}	
	Value	Reference	Value	Reference	Value	Reference	Value	Reference
Total PCB	10^((-0.4057*5.58) +1.781)	EPA 2007a	EXP(1.41+(1.361*(LN(Soil Concentration))))	Sample et al. 1998a	10^(-0.099*((5.58)^2) +1.07*(5.58)-3.56)	RTI, 2005	5.58	MDEQ 2013

Contaminant	Sediment-Plant BCF		Sediment-Invertebrate BAF		Fish BSAF		
	Value	Reference	Value	Reference			
Total PCB	10^((-0.4057*5.58) +1.781)	EPA 2007a	21.89	90th percentile value from Bechtel Jacobs, 1998	5	EPA 2009	

LN - natural log

K_{ow} - octanol water coefficient

BCF - bioconcentraton factor

BAF - bioaccumulation factor

BSAF = biota sediment accumulation factor (Attachment A)

Table 4-1. Ingestion Screening Values for Birds and Mammals

Ecological Risk Assessment

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

Contaminant	Test Organism	Duration	Effect/Endpoint	LOAEL (mg/kg-bw/d)	MATC (mg/kg-bw/d)	NOAEL (mg/kg-bw/d)	Reference	Uncertainty Factors			
								LOAEL to NOAEL	Suchronic to Chronic	Acute to Chronic	LD50 to Chronic NOAEL
Total PCB	chicken	multi-generation	reproduction/ hatchability	0.5	0.45	0.4	CDM 2003				
Total PCB	mouse	multi-generation	reproduction and a reduction in body weight	0.68	0.40	0.23	McCoy et al. 1995				
Total PCB	mink	multi-generation	reproduction and a reduction in body weight	0.11	0.10	0.09	CDM 2003	3			

LOAEL - lowest observed adverse effect levels

NOAEL - no observable adverse effects levels

LD50 - Lethal Dose to 50% of test organisms

LD - Live days (post partum)

GD - Gestational days

Table 5-1. Lower-Trophic-Level Screening Evaluation

Ecological Risk Assessment

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

AnalyteName	Range of Non-Detect Values	Frequency of Detection	Maximum Concentration Detected	Sample ID of Maximum Detected Concentration	Screening Value	Maximum Hazard Quotient[1]	Detected and Exceeds	Nondetected and Exceeds	Detected and No Screening Value	Not a COPEC
Surface Soil (µg/kg)										
Total PCBs	19 - 440	149 - 320	23000	TMD-SO-063-0/0.5	0.332	69277.1	X	X		
Surface water (µg/L)										
Total PCB	-	5 - 5	8.2	Outfall_051910	0.00012	68333.3	X			
Sediment (µg/kg)										
Total PCB	220 - 1400	135 - 146	576000	LR_SD_p052	59.8	9632.1	X	X		
Fish (µg/k WW)										
Total PCB	-	38 - 38	201000	2010303-S36	440	456.8	X			

Shaded cell indicates an HQ >1

COPC - constituent of potential ecological concern

NSV - no screening value available

PCB - polychlorinated biphenyls

µg/kg - micrograms per kilogram

µg/L - micrograms per liter

Table 6-1. Refined-Lower-Trophic Level Evaluation

Ecological Risk Assessment

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

AnalyteName	Frequency of Detection	EPC	Lower Threshold Screening Value	Lower Threshold Reference	EPC/ Lower Threshold Hazard Quotient	Frequency of Exceedance	Maximum Concentration Detected	Upper Threshold Effect Value	Upper Threshold Reference	MAX/ Upper Threshold Hazard Quotient	EPC < Screening Value	MAX < Upper threshold	Not a COPEC
Surface Soil (µg/kg)													
Total PCB	140 - 278	1159	0.332	EPA 2003	3491	138 - 278	23000	40000	Efroymson et al. 1997; plants	<1			
Surface water (µg/L)													
Total PCB	5 - 5	9	0.00012	EPA 2003	75566	5 - 5	8.2	0.014	USEPA 2009	586			
Sediment (µg/kg)													
Total PCB	135 - 146	80072	59.8	EPA 2003	1339	135 - 146	576000	676	MacDonald, 2000; PEC	852			
Fish (µg/kg)													
Total PCB	38 - 38	65014	440	Dyer 2000	148	37 - 38	201000	NA		NA			

Shaded hazard quotients greater than 1

COPEC - Constituent of potential ecological concern

EPC - Exposure point concentration

ESV - Ecological screening value

µg/Kg - micrograms per kilogram

µg/L - micrograms per liter

Table 6-2. Upper-Trophic-Level Wildlife Hazard Quotients

Ecological Risk Assessment

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

Chemical	Soil/ Sediment EPC (mg/kg)	Body Weight (kg)	Daily Food Intake (kg/kg-bw/day)	Site Use Factor	Daily Food Ingestion from Site (kg/kg-bw/day)	Proportional Diet as Plant	Soil to Plant Transfer Factor	Plant Tissue Uptake (mg/kg BW/d)(DW)	Proportional Diet as Invertebrates	Soil to Invertebrate Transfer Factor	Invertebrate Tissue Uptake (mg/kg-BW/d)(DW)	Proportional Diet as Vertebrate	Soil to Vertebrate (fish)Transfer Factor	Vertebrate (fish) Tissue Uptake (mg/kg BW/d)(DW)	Fraction of Soil in Diet	Incidental Soil/ Sediment Intake (mg/kg-bw/d)	DWIR (L/kg-BW/d)	Water concentration (mg/L)	Incidental Water Intake (mg/kg-bw/d)	Total Chemical Intake (mg/kg-bw/d)	NOAEL TRV (mg/kg-bw/d)	NOAEL Hazard Quotient	MATC (mg/kg-bw/d)	MATC Hazard Quotient	LOAEL TRV (mg/kg-bw/d)	LOAEL Hazard Quotient	Retain
Short-tailed shrew																												
Total PCB	1.16	0.02	0.13	1.00	0.13	0.05	10^((-0.4057*5.58) +1.781)	0.002	0.82	EXP(1.41+(1.361 *(LN(Soil Concentration))))	0.53	0.00	10^(-0.099*((5.58)^2) +1.07*(5.58)-3.56)	0.00	0.13	0.02	0.00	0.01	0.00	0.55	0.23	**2.39**	0.40	**1.39**	0.68	0.81	**Yes**
American robin																												
Total PCB	1.16	0.08	0.15	1.00	0.15	0.52	10^((-0.4057*5.58) +1.781)	0.03	0.44	EXP(1.41+(1.361 *(LN(Soil Concentration))))	0.33	0.00	10^(-0.099*((5.58)^2) +1.07*(5.58)-3.56)	0.00	0.05	0.01	0.01	0.01	0.00	0.36	0.40	0.90	0.45	0.80	0.50	0.72	No
Mink																												
Total PCB	80.07	0.87	0.05	1.00	0.05	0.00	10^((-0.4057*5.58) +1.781)	0.00	0.00	21.89	0.00	1.00	5.00	0.25	0.00	0.00	0.02	0.01	0.00	0.25	0.09	**2.73**	0.10	**2.49**	0.11	**2.26**	**Yes**
Belted Kingfisher																												
Total PCB	80.07	0.17	0.02	1.00	0.02	0.00	10^((-0.4057*5.58) +1.781)	0.00	0.16	21.89	6.03	0.84	5.00	0.09	0.00	0.00	0.01	0.01	0.00	6.12	0.40	**15.31**	0.45	**13.69**	0.50	**12.24**	**Yes**

EPC = Exposure point concentration

For the screening, it has been conservatively assumed that all chemical intake is absorbed by the receptor

Bold = Site specific dose greater than TRV

kg = Kilograms.

mg/kg-bw/day = Milligrams per kilogram of body weight per day.

NOAEL = No observed adverse effect level

TRV = Toxicological reference value

Food intake from vertebrates = (daily food ingestion from site) X (fraction of diet as vertebrate) X (media to vertebrate transfer factor) X (medium concentration)

Food intake from invertebrates = (daily food ingestion from site) X (fraction of diet as invertebrates) X (soil to invertebrate transfer factor) X (medium concentration)

Food intake from plants = (daily food ingestion from site) X (fraction of diet as plants) X (soil to plant transfer factor) X (medium concentration)

Incidental soil intake = (daily food ingestion from site) X (fraction of diet as soil) X soil concentration).

Total chemical intake = (Drinking water ingestion) + (food intake from vertebrates) + (food intake from invertebrates) + (food intake from plants) + (incidental soil intake

Figures

Note:
©2013 Google Aerial Dated May 9, 2010

FIGURE 1-1
Site Location and Investigation Areas Map
Ten-Mile Drain Ecological Risk Assessment
Saint Clair Shores, Michigan

CH2MHILL

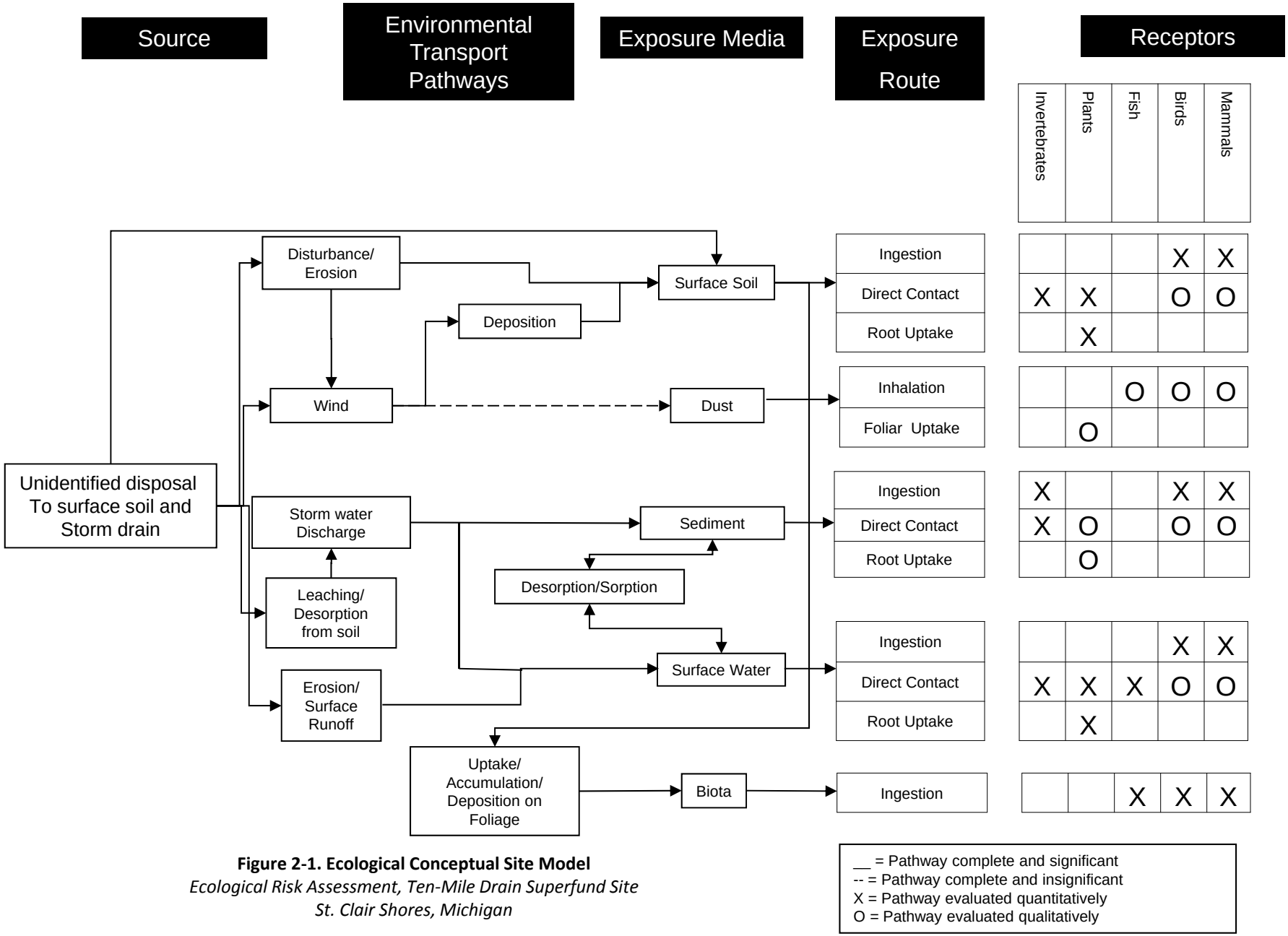


Figure 2-1. Ecological Conceptual Site Model
Ecological Risk Assessment, Ten-Mile Drain Superfund Site
St. Clair Shores, Michigan

Legend

Figure, Name

- Front Yard
- Parkway
- Back Yard
- Commercial Property

N

0 25 50

Approximate scale in feet

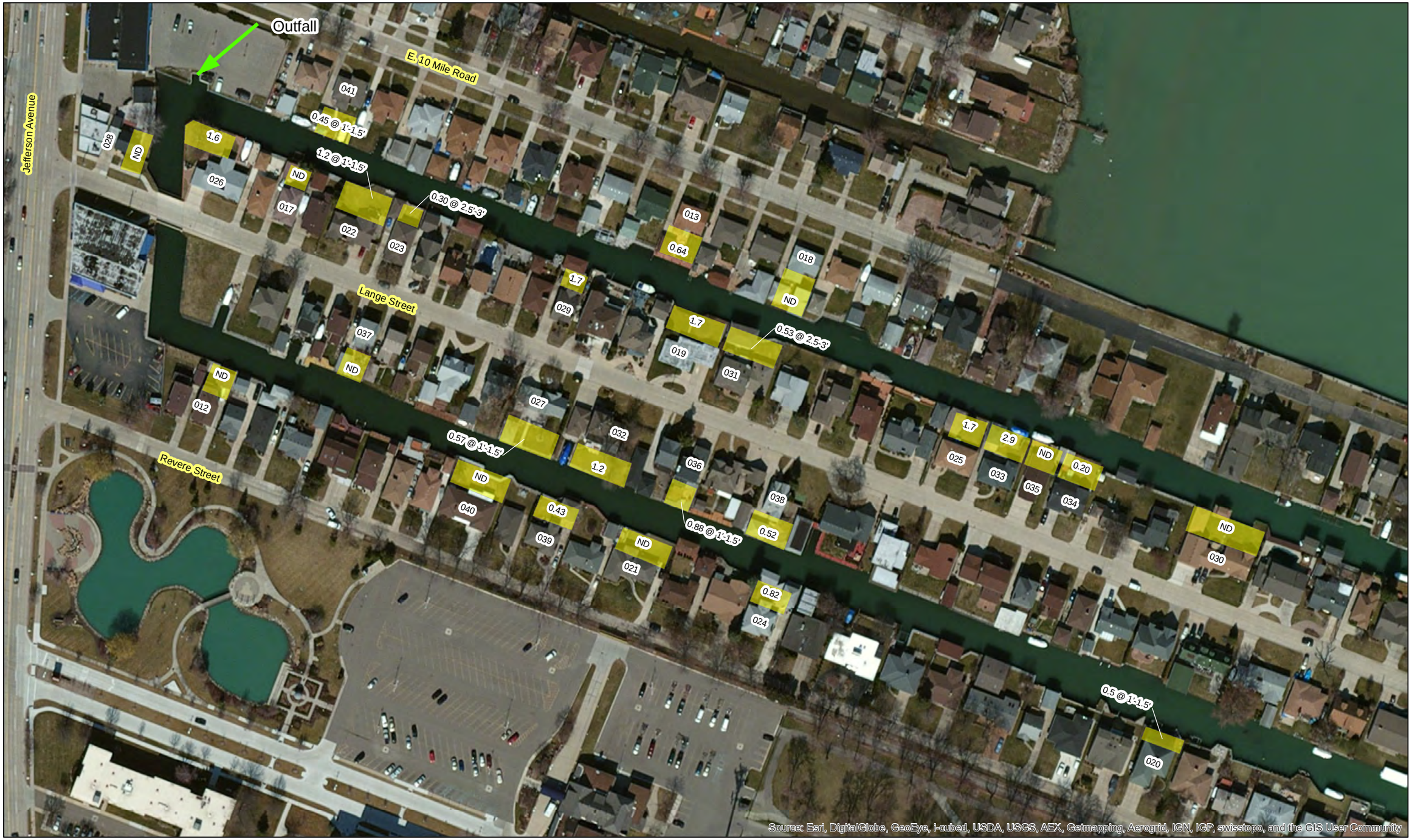
Notes:

1. ©Google Aerial Dated May 9, 2010

FIGURE 2-2
Bon Brae Street Residential Soil Sampling Locations
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

CH2MHILL

\\cypress\proj\Army Corp\St Clair Shores\mcds\Remedial Investigation\Figure Renumber\TenMileDrain_Figure2-2_RI.mxd 04/07/2014



N

0 75 150

Approximate scale in feet

Legend

Back Yard

ND Non Detect for PCBs

Notes:

1. Hightest Concentrations for yard area are reported.
2. Highest concentrations occurred in the 0'-0.5' interval unless otherwise noted.

FIGURE 2-3
Lange Revere Steet Canals
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

\\cypress\proj\Army Corp\St Clair Shores\MXDs\Remedial Investigation\Figure Renumber\TenMileDrain_Figure2-3_RI.mxd 04/07/2014

CH2MHILL

N

0 40 80

Approximate scale in feet

Legend

- Front Yard
- Parkway
- Back Yard
- Commercial Property

Notes:

1. ©Google Aerial Dated May 9, 2010
2. 2.2 @ 21606 Lakeland is combined parkway and yard results.
3. Sample collected from 0-6 inch interval unless otherwise specified.
4. All resuls in mg/kg (parts per million).
5. 0XX indicates property location ID.
6. Red = Above 4 ppm, Blue = Below 4 ppm

Figure 2-4
Lakeland Street Residential Soil Sampling Locations
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

CH2MHILL

\\cypress\proj\Army Corp\St Clair Shores\MXDs\Remedial Investigation\Figure Renumber\TenMileDrain_Figure2-4_RI.mxd 04/07/2014

N

0 30 60 Feet

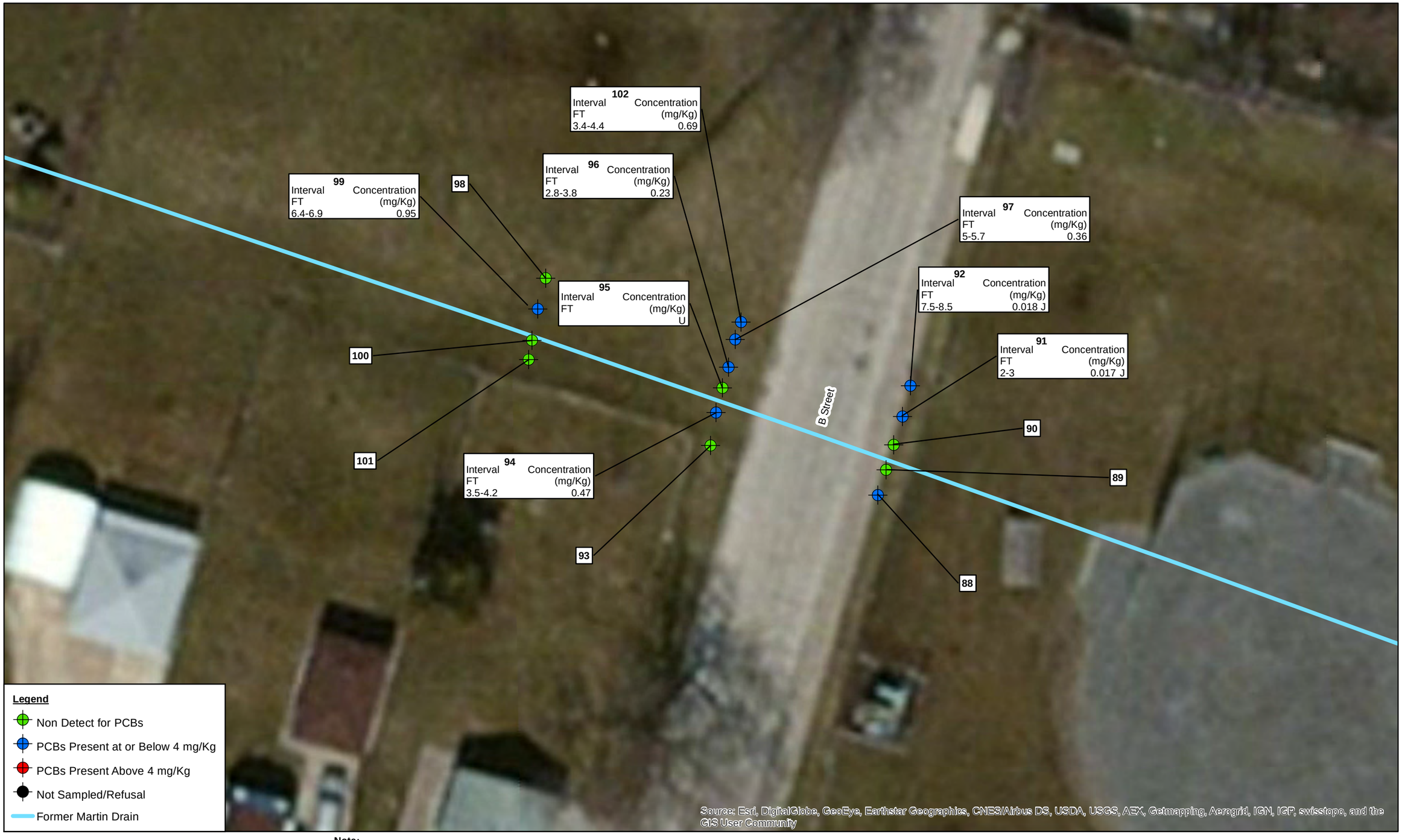
Note:

1. ©Google Aerial Dated May 9, 2010
2. All soil boring locations begin with the prefix "TMD-SO-".
3. Soil borings are color coded based upon the greatest concentration detected within the boring.

FIGURE 2-5
Former Martin Drain Soil Sampling
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

CH2MHILL

\\cypress\proj\army corp\Saint Clair Shores\MXDs\Remedial Investigation\Figure Renumber\TenMileDrain_Figure9_RI.mxd



N

0 20 40 Feet

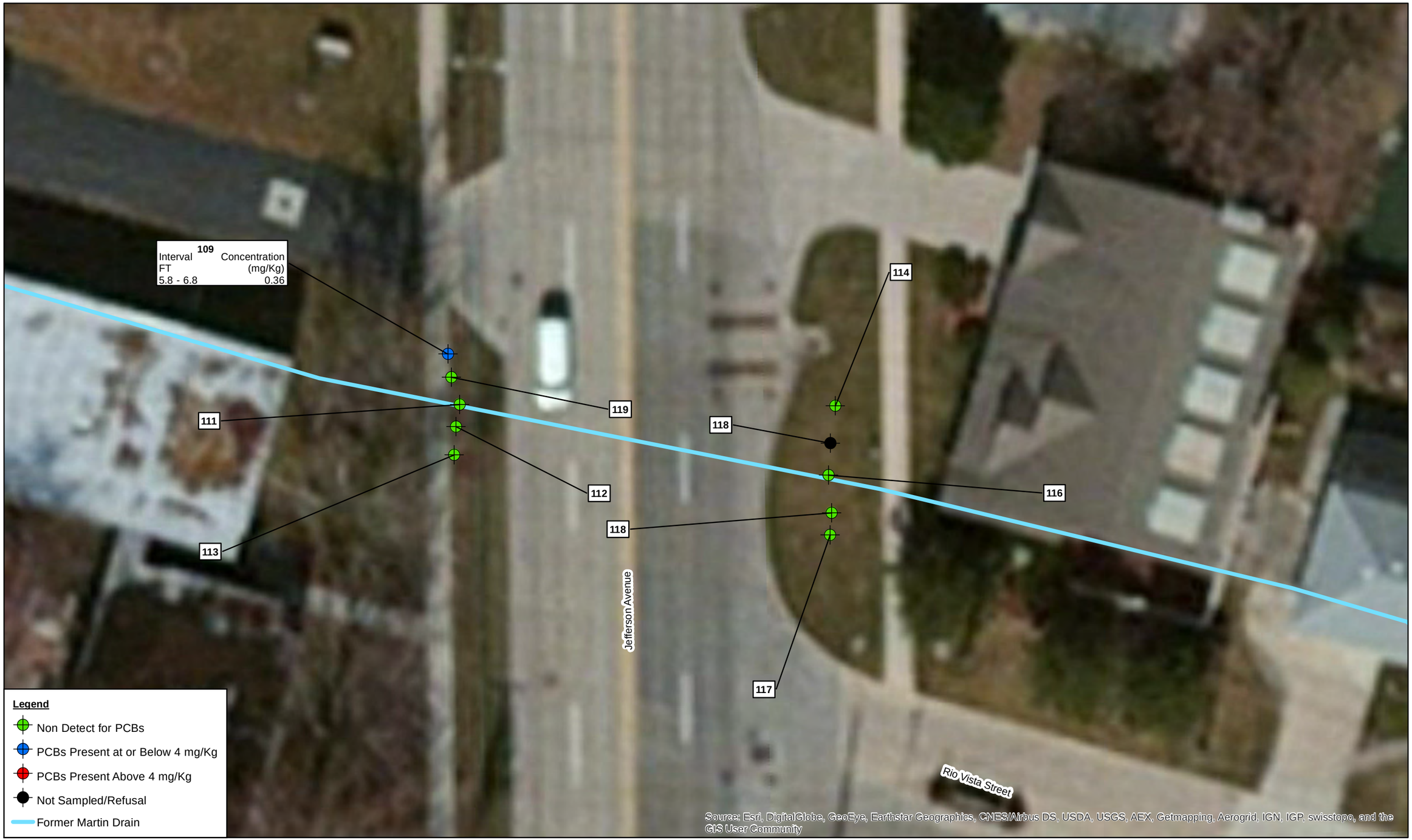
Note:

1. ©Google Aerial Dated May 9, 2010
2. All soil boring locations begin with the prefix "TMD-SO-".
3. Soil borings are color coded based upon the greatest concentration detected within the boring.

FIGURE 2-6
Former Martin Drain Soil Sampling
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

CH2MHILL

\\cypress\proj\army corp\Saint Clair Shores\MXDs\Remedial Investigation\Figure Renumber\TenMileDrain_Figure10_RI.mxd



N

0 20 40 Feet

Note:

1. ©Google Aerial Dated May 9, 2010
2. All soil boring locations begin with the prefix "TMD-SO-".
3. Soil borings are color coded based upon the greatest concentration detected within the boring.

FIGURE 2-7
Former Martin Drain Soil Sampling
Ten-Mile Drain Remedial Investigation
Saint Clair Shores, Michigan

FIGURE 2-8

Sediment Locations Provided by Fields

Ten-Mile Drain Ecological Risk Assessment
Saint Clair Shores, Michigan

Appendix A
ProUCL UCL Calculation Outputs

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	12/28/2015 11:30:21 AM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Total PCBs Soil

General Statistics

Total Number of Observations	320	Number of Distinct Observations	166
Number of Detects	149	Number of Non-Detects	171
Number of Distinct Detects	130	Number of Distinct Non-Detects	44
Minimum Detect	52.55	Minimum Non-Detect	19
Maximum Detect	23020	Maximum Non-Detect	440
Variance Detects	9037879	Percent Non-Detects	53.44%
Mean Detects	1976	SD Detects	3006
Median Detects	985	CV Detects	1.521
Skewness Detects	3.933	Kurtosis Detects	19.59
Mean of Logged Detects	6.976	SD of Logged Detects	1.071

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.569	**Normal GOF Test on Detected Observations Only**	
5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.267	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0726	Detected Data Not Normal at 5% Significance Level	

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	946.7	Standard Error of Mean	126.8
SD	2260	95% KM (BCA) UCL	1159
95% KM (t) UCL	1156	95% KM (Percentile Bootstrap) UCL	1147
95% KM (z) UCL	1155	95% KM Bootstrap t UCL	1225
90% KM Chebyshev UCL	1327	95% KM Chebyshev UCL	1500
97.5% KM Chebyshev UCL	1739	99% KM Chebyshev UCL	2209

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	5.029	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.786	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.133	**Kolmogrov-Smirnoff GOF**	
5% K-S Critical Value	0.0792	Detected Data Not Gamma Distributed at 5% Significance Level	

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.948	k star (bias corrected MLE)	0.934
Theta hat (MLE)	2083	Theta star (bias corrected MLE)	2116
nu hat (MLE)	282.6	nu star (bias corrected)	278.3
MLE Mean (bias corrected)	1976	MLE Sd (bias corrected)	2045

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.176	nu hat (KM)	112.4
Approximate Chi Square Value (112.36, α)	88.89	Adjusted Chi Square Value (112.36, β)	88.79
95% Gamma Approximate KM-UCL (use when n>=50)	1197	95% Gamma Adjusted KM-UCL (use when n<50)	1198

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	920.1
Maximum	23020	Median	0.01
SD	2273	CV	2.471
k hat (MLE)	0.13	k star (bias corrected MLE)	0.131
Theta hat (MLE)	7081	Theta star (bias corrected MLE)	7034
nu hat (MLE)	83.16	nu star (bias corrected)	83.71
MLE Mean (bias corrected)	920.1	MLE Sd (bias corrected)	2544
		Adjusted Level of Significance (β)	0.0493
Approximate Chi Square Value (83.71, α)	63.63	Adjusted Chi Square Value (83.71, β)	63.55
95% Gamma Approximate UCL (use when n>=50)	1211	95% Gamma Adjusted UCL (use when n<50)	1212

Lognormal GOF Test on Detected Observations Only

Lilliefors Test Statistic	0.0877	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0726	Detected Data Not Lognormal at 5% Significance Level	

Detected Data appear Approximate Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	971.8	Mean in Log Scale	5.534
SD in Original Scale	2253	SD in Log Scale	1.646
95% t UCL (assumes normality of ROS data)	1180	95% Percentile Bootstrap UCL	1179
95% BCA Bootstrap UCL	1235	95% Bootstrap t UCL	1229
95% H-UCL (Log ROS)	1260		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	5.101	95% H-UCL (KM -Log)	1672
KM SD (logged)	1.989	95% Critical H Value (KM-Log)	3.082
KM Standard Error of Mean (logged)	0.139		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	999.7	Mean in Log Scale	5.83
SD in Original Scale	2242	SD in Log Scale	1.414
95% t UCL (Assumes normality)	1207	95% H-Stat UCL	1125

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Approximate Lognormal Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (BCA) UCL 1159

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Appendix B
Fish Biota-Sediment Accumulation Factor Calculation

Appendix B. BSAFs for Forage Fish Reported in the EPA BSAF Database

Ten-Mile Drain Superfund Site, St. Clair Shores, Michigan

Site ID	Superfund Site	Organism Common Name	Biota Tissue Supplemental	Biota Age Class	BSAF	Sed avg (mg PCB/kg oc)	Biota Avg (mg PCB/kg lipid)
SHEB01	Sheboygan River	smallmouth bass	composite	juvenile	20.4	0.1	1.9
SHEB01	Sheboygan River	smallmouth bass	composite	juvenile	10.6	0.7	7.7
GBAY01	Green Bay	rainbow smelt	composite	YOY	3.7	1.3	4.7
KALZ01	Kalamazoo River	Forage Fish Composite	Forage Fish Composite	NR	7.8	1.9	15.2
GBAY01	Green Bay	rainbow smelt	composite	YOY	2.6	6.7	17.4
GBAY01	Green Bay	alewife	composite	YOY	1.6	6.8	11.2
GBAY01	Green Bay	gizzard shad	composite	YOY	2.1	6.8	14.4
GBAY01	Green Bay	rainbow smelt	composite	YOY	1.5	7.4	11.2
GBAY01	Green Bay	alewife	composite	YOY	0.9	8.2	7.3
GBAY01	Green Bay	rainbow smelt	composite	YOY	0.9	8.5	7.4
SHEB01	Sheboygan River	smallmouth bass	composite	juvenile	12.3	27.7	341.3
HOUS01	Housatonic River	yellow perch	composite	<40 g	7.5	55.3	413.1
KALZ01	Kalamazoo River	Forage Fish Composite	Forage Fish Composite	NR	1.4	66.8	95.4
SHEB01	Sheboygan River	smallmouth bass	composite	juvenile	4.1	70.4	291.4
SHEB01	Sheboygan River	longnose dace	composite	NR	4.1	70.8	197.0
GBAY01	Green Bay	gizzard shad	composite	YOY	0.5	72.6	39.8
HOUS01	Housatonic River	largemouth bass	composite	YOY	9.3	74.2	689.6
HOUS01	Housatonic River	pumpkinseed	composite	<25 g	5.0	74.2	370.7
HOUS01	Housatonic River	yellow perch	composite	<40 g	5.7	74.2	419.5
HOUS01	Housatonic River	brown bullhead	reconstituted from fillet and offal	<100 g	3.4	167.2	571.1
HOUS01	Housatonic River	largemouth bass	composite	YOY	1.9	169.9	330.7
HOUS01	Housatonic River	pumpkinseed	composite	<25 g	1.8	169.9	313.0
HOUS01	Housatonic River	yellow perch	composite	<40 g	1.7	169.9	286.6
SHEB01	Sheboygan River	smallmouth bass	composite	juvenile	3.6	236.0	838.8
SHEB01	Sheboygan River	longnose dace	composite	NR	3.6	270.7	156.9
SHEB01	Sheboygan River	longnose dace	composite	NR	12.3	273.1	285.8
HOUS01	Housatonic River	white sucker	NR	<100 g	3.4	348.4	1173.6
HOUS01	Housatonic River	largemouth bass	composite	YOY	0.6	669.3	422.5
HOUS01	Housatonic River	yellow perch	composite	<40 g	1.0	669.3	665.0
HOUS01	Housatonic River	white sucker	NR	<100 g	0.6	2618.9	1441.9
				overall mean	5.0	213.2	256.0

NR - Not reported

YOY - young-of-the-year

Attachment I
Source Control Sampling Results

Jan 2016 (1/20/16-1/21/16)

Sample Location	Oil**	Sediment**	Swipe	Water
	mg/kg			ug/L
J01	54	NS	NS	6.8
M4263	9.3	NS	NS	
M4262	26	NS	NS	
M7182		3.7	NS	
M4281	250	9,300	19,000	
M4335	280	3,700	160	
M7183	290	NS	64	
M4334	42	68	NS	
M4432		110	NS	
M6975		68	NS	
M6971	11	7.1	NS	
M6969	7.8	28	NS	
M7177		1.2	NS	
M7178		NS	NS	
Outfall		Frozen	NS	
M7179	62	NS	NS	5.6
M4266		3.3	NS	
M4268		6.8	NS	
M4224		NS	NS	
M7184		NS	NS	

** If a field duplicate was collected, the higher concentration between the sample and duplicate is reported on the map.

ND= Not Detected

NS= No Ssample collected

TMD Feb 2016 Sampling and Results Summary

Sample Location	Sample Collection Date and Time*	Sample Description	Snare	Sediment /Snare Sample Results** (mg/kg)	Water Sample Results** (µg/L)	Water Level (ft)	Comments
M7179 (oil)	**2/23/16 12:30**	**Ribbons**	**Replaced snare**	15	-	2.9	No sediment or sheen. Fish odor-several fish caught in snare.
M7179 (oil) Dup	**2/23/16 12:35**	**Ribbons**		14	-		
M7179	**2/23/16 12:20**	**Sediment**		NS	-		
M7179 (water)	**2/23/16 13:20**	**Water**		-	3.3	8.84	Depth to bottom 17.75 feet, purge rate 400 mL/min. >4 gallons purged prior to sample collection. Clear water.
M7178	**2/23/16 13:05**	**Sediment**	-	91	-	2.3	No flow or odor. Surface sheen. Removed 5 scoops leaves and fine black sediment.
M7178 (swipe)	**2/23/16 13:00**	**Ribbons**	-	-	-		
J01 (oil)	**2/23/16 13:50**	**Ribbons**	**Re-installed snare**	4.1		1.8	No flow, odor, sediment or surface sheen.
J01 (Water)	**2/23/16 14:15**	**Water**		-	7.3	6.7	Depth to bottom 16.55 feet, purge rate 400 mL/min. >3 gallons purged prior to sample collection. Clear water.
M7182	**2/23/16 14:30**	**Sediment**	-	14	-	<1"	Removed 3 partial scoops pipe scale and concrete flakes. No flow, odor or sheen.
M4281 (oil)	**2/23/16 14:40**	**Ribbons**	**Replaced snare**	52	-	NR	Removed 10 scoops leaves, black organic decay material and product . Swiped bottom of drain and submitted sample for analysis. No flow or odor. Surface sheen.
M4281	**2/23/16 14:45**	**Sediment**		3,100	-		
M4281 (swipe)	**2/23/16 14:47**	**Ribbons**		250	-		
M4335 (oil)	**2/23/16 15:00**	**Ribbons**	**Re-installed snare**	21	-	NR	Removed one partial scoop of leaves, but not submitted for analysis. Swiped bottom of drain and submitted snare for analysis. No flow, odor or sheen.
M4335	**2/23/16 14:55**	**Sediment**		NS	-		
M4335 (swipe)	**2/23/16 15:07**	**Ribbons**		4.4	-		
M7183 (oil)	**2/23/16 15:22**	**Ribbons**	**Re-installed snare**	16	-	3.0	Removed 2 scoops leaves, but no sediment collected or submitted for analysis. Swiped bottom of drain and submitted snare for analysis. No flow or odor. Surface sheen.
M7183 (swipe)	**2/23/16 15:25**	**Ribbons**		27	-		
M7183	**2/23/16 15:15**	**Sediment**		NS	-		
M4334 (oil)	**2/23/16 15:45**	**Ribbons**	**Replaced snare**	36	-	3.1	Removed 4 scoops leaves,fine black organic decay material.
M4334 (swipe)	**2/23/16 15:38**	**Ribbons**		-	-		
M4334	**2/23/16 15:50**	**Sediment**		72	-		
M4263 (oil)	**2/23/16 16:10**	**Ribbons**	**Replaced snare**	4.9	-	2.4	No sediment, flow, odor or sheen.
M4263 (swipe)	**2/23/16 16:07**	**Ribbons**		-			
M4263	**2/23/16 16:07**	**Sediment**		NS	-		
M4262 (oil)	**2/23/16 16:30**	**Ribbons**	**Replaced snare**	11	-	2.6	Removed 3 scoops small pebbles. Product on pebble surface. No flow or odor. Swiped bottom of drain. Swipe had visible product.
M4262 (Swipe)	**2/23/16 16:37**	**Ribbons**		51,000			
M4262	**2/23/16 16:35**	**Sediment**		11,000	-		
M6969 (oil)	**2/23/16 16:55**	**Ribbons**	**Replaced snare**	25	-	4.5	Removed 3 scoops of very wet, fine silty black organic material (mud like material). No flow, odor or sheen.
M6969	**2/23/16 16:50**	**Sediment**		39	-		
M6969 (Swipe)	**2/23/16 16:50**	**Ribbons**		-	-		
M6971 (oil)	**2/23/16 17:15**	**Ribbons**	**Replaced snare**	18	-	4.2	No sediment.
M6971 (Swipe)	**2/23/16 17:10**	**Ribbons**		-	-		
M6971	**2/23/16 17:10**	**Sediment**		NS	-		
Equipment Rinse	**2/23/16 17:30**	**Water**	-	1.1	-	NA	DI water poured over scoop after decon
M7177	**2/24/16 8:30**	**Sediment**	-	NS	-	1.8	No sediment, flow odor or sheen.
M7177(swipe)	**2/24/16 8:30**	**Ribbons**	-	-	-		
M4266	**2/24/16 8:57**	**Sediment**	-	2.4	-	2.9	Removed 1/2 five gallon bucket black organic decay material and leaves. No flow, odor or sheen.
M4266 (swipe)	**2/24/16 8:50**	**Ribbons**	-	-	-		
M4268	**2/24/16 9:15**	**Sediment**	-	22	-	3.2	Field duplicate of sediment collected. Removed 3 full scoops black organic decay material and small pebbles. No flow, odor or sheen.
M4268 Dup	**2/24/16 9:20**			18.0	-		
M4268 (swipe)	**2/24/16 9:08**	**Ribbons**		-	-		
M4224	**2/24/16 9:25**	**Sediment**	-	6.3	-	2.2	Removed 2 partial scoops brown sand, leaves, and small rock. Flow into drain. Presence of surface sheen could not be determined due to rain.
M4224 (swipe)	**2/24/16 9:23**	**Ribbons**		-	-		
M7184	**2/24/16 9:35**	**Sediment**	-	NS	-	10"	Slight flow toward Harper. Surface sheen. No sediment or odor.
M4432	**2/24/16 9:50**	**Sediment**	-	5.7	-	4.6	Removed two scoops rocks and small pebbles. No flow, odor or sheen.
M4432 (Swipe)	**2/24/16 9:43**	**Ribbons**		-	-		
M6975	**2/24/16 10:05**	**Sediment**	-	69	-	NR	Removed two partial scoops rocks, pebbles and leaves. Heavy flow into drain. Water level not taken due to heavy incoming flow.
M6975 (swipe)	**2/24/16 9:55**	**Ribbons**	-	-	-		
Outfall	**2/24/16 10:20**	**Sediment**	-	9.9	-	-	Sampled black organic decay material and leaves from about 6" below sediment surface.

* If no sample was collected at the sample point, time indicated is inspection time

** When a field duplicate was collected the higher concentration between the sample and duplicate were reported and used on the map.

ND=Not Detected, NS= Not Sampled

NR= No water level recorded

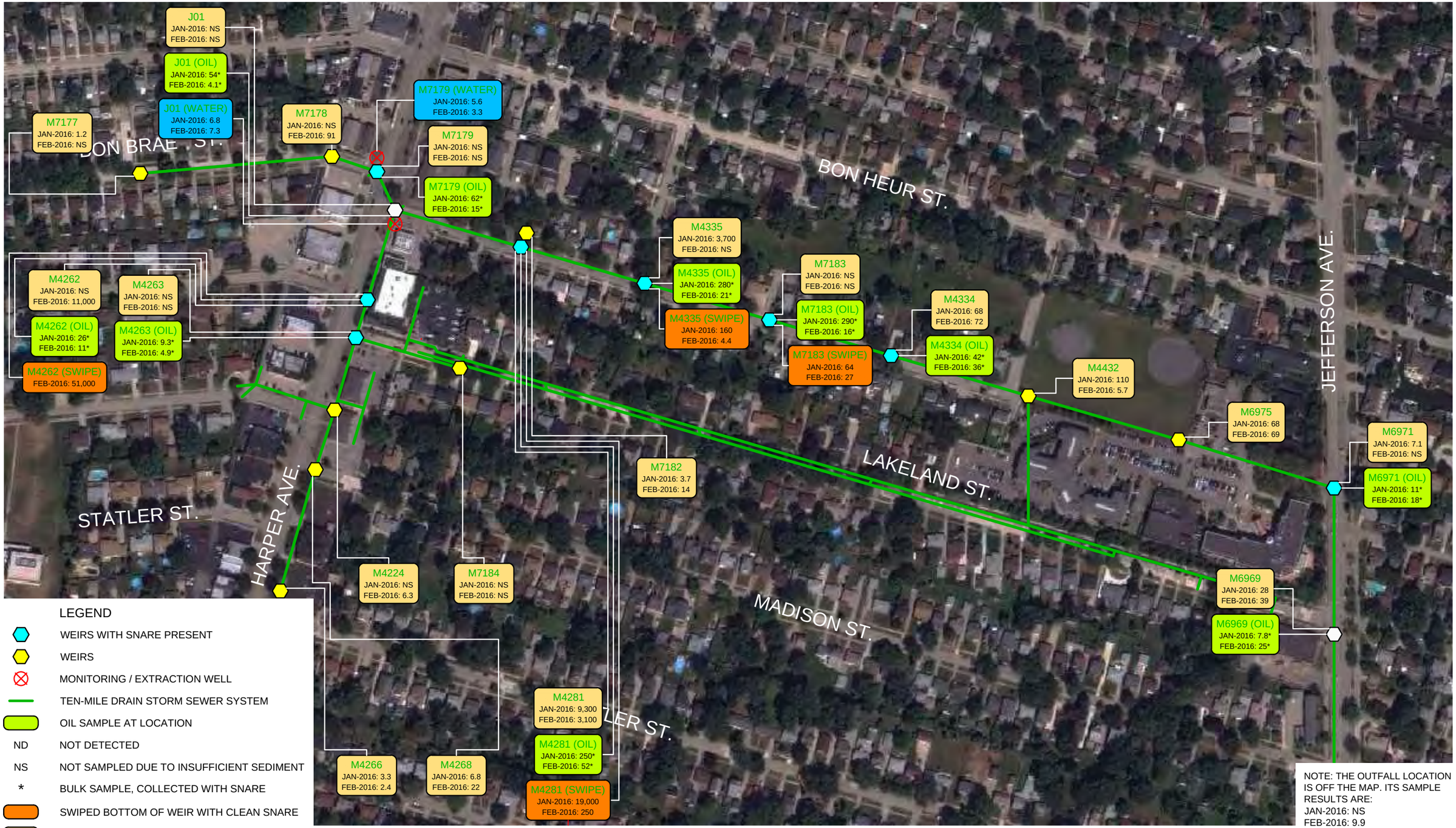
February 2016 (2/23/16-2/24/16)

Sample Location	Oil**	Sediment**	Swipe	Water
	mg/kg			ug/L
M7179	15	NS	-	3.3
M7178		91	-	
J01	4.1	NS	-	7.3
M7182		14	-	
M4281	52	3,100	250	
M4335	21	NS	4.4	
M7183	16	NS	27	
M4334	36	72	-	
M4263	4.9	NS	-	
M4262	11	11,000	51,000	
M6969	25	39	-	
M6971	18	NS	-	
M6975		69	-	
M4266		2.4	-	
M4268		22	-	
M4224		6.3	-	
M7184		NS	-	
M4432		5.7	-	
Outfall		9.9	-	
M7177		NS	-	

** If a field duplicate was collected, the higher concentration between the sample and duplicate is reported on the map.

ND= Not Detected

NS= No sediment submitted for analysis



LEGEND

- WEIRS WITH SNARE PRESENT
- WEIRS
- MONITORING / EXTRACTION WELL
- TEN-MILE DRAIN STORM SEWER SYSTEM
- OIL SAMPLE AT LOCATION
- ND — NOT DETECTED
- NS — NOT SAMPLED DUE TO INSUFFICIENT SEDIMENT
- * — BULK SAMPLE, COLLECTED WITH SNARE
- SWIPED BOTTOM OF WEIR WITH CLEAN SNARE
- SEDIMENT COLLECTION POINT
- SNARE INSTALLED @ M6969, NO WEIR PRESENT
- UC — NOT SAMPLED DUE TO UNDER CONSTRUCTION

NOTE : SOLID SAMPLE RESULTS ARE IN mg/kg
WATER SAMPLE RESULTS ARE IN ug/L

SCALE IN FEET

0 125 250 500

NORTH

NOTE: THE OUTFALL LOCATION IS OFF THE MAP. ITS SAMPLE RESULTS ARE:
JAN-2016: NS
FEB-2016: 9.9

REV	DESCRIPTION	DATE	APPROVED

REVISIONS

ENVIRONMENTAL QUALITY MANAGEMENT, INC.
1800 CARILLON BLVD., CINCINNATI, OHIO 45240
PHONE 513.825.7500 | FAX 513.825.7495
WWW.EQM.COM

DRAWN	R. RUSSELL	03-14-2016
CHECKED	E. CORBIN	03-14-2016
APPROVED	E. CORBIN	03-14-2016
SCALE:	AS SHOWN	

TEN-MILE DRAIN SUPERFUND SITE
SOURCE CONTROL ACTIVITIES
OIL AND SEDIMENT RESULTS
FEBRUARY 23 & 24, 2016

SIZE	PROJECT NO.	DWG NO.	REV
B	030281.0100	FIGURE 3	0

LEGEND

- WEIRS WITH SNARE PRESENT
- WEIRS
- MONITORING / EXTRACTION WELL
- TEN-MILE DRAIN STORM SEWER SYSTEM
- OIL SAMPLE AT LOCATION
- ND — NOT DETECTED
- NS — NOT SAMPLED DUE TO INSUFFICIENT SEDIMENT
- * — BULK SAMPLE, COLLECTED WITH SNARE
- SWIPED BOTTOM OF WEIR WITH CLEAN SNARE
- SEDIMENT COLLECTION POINT
- SNARE INSTALLED @ M6969, NO WEIR PRESENT
- UC — NOT SAMPLED DUE TO UNDER CONSTRUCTION

NOTE : SOLID SAMPLE RESULTS ARE IN mg/kg
WATER SAMPLE RESULTS ARE IN ug/L

SCALE IN FEET

0 125 250 500

NORTH

NOTE: THE OUTFALL LOCATION IS OFF THE MAP. ITS SAMPLE RESULTS ARE:
JAN-2016: NS
FEB-2016: 9.9
MAR-2016: 5.5

REV	DESCRIPTION	DATE	APPROVED

REVISIONS

ENVIRONMENTAL QUALITY MANAGEMENT, INC.
1800 CARILLON BLVD., CINCINNATI, OHIO 45240
PHONE 513.825.7500 | FAX 513.825.7495
WWW.EQM.COM

DRAWN	R. RUSSELL	04-15-2016
CHECKED	E. CORBIN	04-15-2016
APPROVED	E. CORBIN	04-15-2016
SCALE:	AS SHOWN	

TEN-MILE DRAIN SUPERFUND SITE
SOURCE CONTROL ACTIVITIES
OIL AND SEDIMENT RESULTS
MARCH 24 & 25, 2016

SIZE	PROJECT NO.	DWG NO.	REV
B	030281.0100	FIGURE 3	0

TMD March2016 Sampling and Results Summary

Sample Location	Sample Collection Date and Time*	Sample Description	Snare	Sediment /Snare Sample Results** (mg/kg)	Water Sample Results** (µg/L)	Water Level (ft)	Comments
M7179 (oil)	**3/24/16 12:45**	**Ribbons**	**Snares re-installed**	5.9	-	NR	No sediment, odor or sheen. Water level not taken due to heavy rain/ incoming flow from drain.
M7179 (oil) Dup	**3/24/16 12:50**	**Ribbons**		7.4	-		
M7179	**3/24/16 12:20**	**Sediment**		NS	-		
M7179 (water)	**3/24/16 13:10**	**Water**		-	ND	7.47	Depth to bottom 17.75 feet, purge rate 0.3L /min. Approx 3 gallons purged prior to sample collection. Clear water, no sheen or odor.
M7178	**3/24/16 12:50**	**Sediment**	-	34	-	NR	No odor or sheen. Removed 3 scoops leaves and small amount of fine black organic decay material.
J01 (oil)	**3/24/16 13:45**	**Ribbons**	**Snares replaced**	5.0		NR	No odor, sediment or surface sheen.
J01 (Water)	**3/24/16 14:10**	**Water**		-	5.3	5.81	Depth to bottom 16.55 feet, purge rate 0.3L /min. Approximately 3 gallons purged prior to sample collection.
M7182	**3/24/16 14:30**	**Sediment**	-	ND	-	8"	Removed 2 scoops pipe scale and concrete flakes.
M4281 (oil)	**3/24/16 14:40**	**Ribbons**	**Replaced snares**	32	-	NR	Removed 3 scoops black organic material and product. Swiped bottom of drain and submitted sample for analysis.
M4281	**3/24/16 14:45**	**Sediment**		3,400	-		
M4281 (swipe)	**3/24/16 14:50**	**Ribbons**		5,100	-		
M4335 (oil)	**3/24/16 15:05**	**Ribbons**	**Replaced snares**	14	-	NR	No sediment. Heavy incoming flow. Naphthalene-like odor noted. Swiped bottom of drain and submitted snare for analysis. Heavy incoming flow.
M4335	**3/24/16 15:00**	**Sediment**		NS	-		
M4335 (swipe)	**3/24/16 15:10**	**Ribbons**		25	-		
M7183 (oil)	**3/24/16 15:25**	**Ribbons**	**Replaced snares**	8.2	-	NR	No sediment collected or submitted for analysis. Swiped bottom of drain and submitted snare for analysis. Swipe had visible product. No odor noted.
M7183 (swipe)	**3/24/16 15:20**	**Ribbons**		1,800	-		
M7183	**3/24/16 15:30**	**Sediment**		NS	-		
M4334 (oil)	**3/24/16 15:45**	**Ribbons**	**Re-installed snares**	3.8	-	NR	Removed 6 scoops mostly leaves and some sticks.
M4334	**3/24/16 15:50**	**Sediment**		61	-		
M4263 (oil)	**3/24/16 16:05**	**Ribbons**	**Re-installed snares**	4.9	-	NR	No sediment or odor.
M4263	**3/24/16 16:00**	**Sediment**		NS	-		
M4262 (oil)	**3/24/16 16:20**	**Ribbons**	**Re-installed snares**	18	-	NR	Removed 1/2 sample jar small pebble and sand. Surface sheen. No odor. Heavy flow into drain.
M4262	**3/24/16 16:25**	**Sediment**		1,100	-		
M6969 (oil)	**3/24/16 16:35**	**Ribbons**	**Re-installed snares**	6.3	-	NR	Removed 2 partial scoops of very wet, fine black organic material (mud like material), sticks and leaves.
M6969	**3/24/16 16:40**	**Sediment**		22	-		
M6971 (oil)	**3/24/16 16:55**	**Ribbons**	**Re-installed snares**	5.7	-	4.2	No sediment.
M6971	**3/24/16 16:47**	**Sediment**		NS	-		
Equipment Rinse	**3/25/16 9:05**	**Water**	-	ND	-	NA	DI water poured over scoop after decon
M7177	**3/25/16 8:20**	**Sediment**	-	NS	-	2.1	No sediment, odor or sheen.
M4266	**3/25/16 8:30**	**Sediment**	-	ND	-	3.1	Removed 7 partial scoops black organic decay material. No flow or sheen. Decay odor noted.
M4268	**3/25/16 8:45**	**Sediment**	-	ND	-	3.2	Field duplicate of sediment collected. Removed 5 full scoops black organic decay material, twigs and leaves.
M4268 Dup	**3/25/16 8:47**			ND	-		
M4224	**3/25/16 8:44**	**Sediment**	-	ND	-	3.7	Removed 6 scoops coarse brown sand. No flow, odor or sheen.
M7184	**3/25/16 9:15**	**Sediment**	-	NS	-	5"	No sediment, flow, sheen or odor.
M4432	**3/25/16 9:25**	**Sediment**	-	25	-	4.6	Removed three scoops black mud, leaves and sticks. No flow. Surface sheen.
M6975	**3/25/16 9:33**	**Sediment**	-	NS	-	5.1	No flow, sediment or sheen.
Outfall	**3/25/16 9:45**	**Sediment**	-	5.5	-	-	Sampled some black organic decay material, but mostly leaves and sticks.

* If no sample was collected at the sample point, time indicated is inspection time

** When a field duplicate was collected the higher concentration between the sample and duplicate were reported and used on the map.

ND=Not Detected, NS= Not Sampled

NR= No water level recorded

March 2016 (3/24/16-3/25/16)

Sample Location	Oil**	Sediment**	Swipe	Water
	mg/kg			ug/L
M7179	7.4	NS	-	ND
M7178		34	-	
J01	5.0	NS	-	5.3
M7182		ND	-	
M4281	32	3,400	5,100	
M4335	14	NS	25	
M7183	8.2	NS	1,800	
M4334	3.8	61	-	
M4263	4.9	NS	-	
M4262	18	1,100	-	
M6969	6.3	22	-	
M6971	5.7	NS	-	
M4266		ND	-	
M4268		ND	-	
M4224		ND	-	
M4432		25	-	
M6975		NS	-	
M7184		NS	-	
Outfall		5.5	-	
M7177		NS	-	

** If a field duplicate was collected, the higher concentration between the sample and duplicate is reported on the map.

ND= Not Detected

NS= No sediment submitted for analysis

Attachment J
Removal Letter Report

TETRA TECH

Lori Kozel
Project Manager

August 8, 2014

Mr. Jeff Lippert
On-Scene Coordinator
U.S. Environmental Protection Agency Region 5
9311 Groh Road
Grosse Ile, MI 48318

Subject: **Removal Letter Report for St. Clair Shores PCB Drain Removal #2**
EPA Contract No. EP-S5-13-01
Technical Direction Document No. S05-0001-1404-013
Document Tracking No. 0028

Dear Mr. Lippert:

Under Superfund Technical Assessment and Response Team (START) Contract No. EP-S5-13-01, the U.S. Environmental Protection Agency (EPA) tasked Tetra Tech, Inc. (Tetra Tech) to provide oversight and technical support for removal action activities at the St. Clair Shores PCB Drain Removal #2 site in St. Clair Shores, Macomb County, Michigan. Specifically, under Technical Direction Document No. S05-0001-1404-013, EPA requested that Tetra Tech perform the following services:

- Provide written and photographic documentation of site area conditions and activities
- Manage site files and information
- Provide technical support to the EPA On-Scene Coordinator (OSC)
- Perform oversight of activities conducted at and surrounding the site by the Emergency and Rapid Response Services (ERRS) contractor, including the following:
  - Setup of exclusion zone and contamination reduction zone (CRZ)
  - Excavation of residential soil containing elevated levels of polychlorinated biphenyls (PCB)
  - Backfilling and final grading of excavated areas
  - Restoration of vegetation to excavated areas
- Perform verification sampling during excavation operations
- Conduct perimeter air monitoring and sampling

EPA conducted the removal action to prevent human exposure to elevated levels of PCBs in surface soil at residential properties. The removal action began on May 27, 2014, and was completed on July 10, 2014.

This letter report describes the site, summarizes the site's history and previous site

Tetra Tech, Inc.
1 South Wacker Drive, 37th Floor, Chicago, IL 60606
www.tetratech.com

investigations, discusses removal action activities, and presents conclusions drawn based on the removal action. Enclosures A and B provide the figures and tables, respectively, for this letter report. Enclosure C provides photographic documentation of site conditions and removal action activities. Enclosure D provides verification report and analytical data for samples collected during the removal action.

SITE DESCRIPTION

The site is located near the intersection of Harper Avenue and Lakeland Street in St. Clair Shores, Macomb County, Michigan (Figure 1). The geographical coordinates of the site are latitude 42°29'12" North and longitude -82°53'56" West. The site is located in a residential neighborhood with one commercial property at the northeast corner of Harper Avenue and Lakeland Street.

The site consists of a total of ten properties: nine residential and one commercial (Figure 2). PCBs were found in the soil at or near the ground's surface on all 10 properties. Samples collected from the commercial and residential properties showed levels of PCBs above the Removal Management Level (RML) of 22 parts per million (ppm) for Aroclor 1248 and the RML of 3.4 ppm for Aroclor 1254.

SITE HISTORY

Over the past 9 years, Michigan Department of Environmental Quality (MDEQ), Macomb County Public Works Office (MCPWO), City of St. Clair Shores, Macomb County Health Department, and EPA's Removal Response staff have done extensive cleanup activities, responded to residents' concerns, and conducted investigations at the site. EPA's work at the Ten-Mile Drain Site (St. Clair Shores PCB Drain) was moved from the removal branch to the remedial branch of EPA Superfund to find the source(s) of PCB contamination in the underground storm sewer drain system.

In September 2013, the Ten-Mile Drain site was placed on the National Priorities List (NPL). The NPL is a roster of the nation's hazardous waste sites eligible for investigation and cleanup under EPA's Superfund program.

In 2014, the remedial branch requested support from the removal branch to address the soils above the RML's that were an immediate threat.

REMOVAL ACTION ACTIVITIES

On-site removal action activities began on May 27, 2014, and were completed on July 10, 2014. The activities completed as part of this removal action included the following:

- Development and implementation of a site-specific work plan, health and safety plan (HASP), and sampling and analysis plan (SAP)
- Initial site setup and construction of an exclusion zone and CRZ
- Perimeter air monitoring and collection of perimeter air samples

- Excavation and verification sampling of residential soil
- Backfilling of excavations and regrading of residential properties to original or improved grades
- Application of sod and installation of trees to excavated areas and planting of new trees
- Implementation of site security measures and demobilization from site

Each activity is discussed in more detail below. Enclosure C provides photographic documentation of site conditions and removal action activities. Enclosure D provides analytical results for soil and air samples collected during the removal action.

Development and Implementation of Work Plan, HASP, and SAP

The ERRS contractor, Environmental Restoration (ER), developed a site-specific work plan dated May 2014. The work plan details the scope of work and objectives of the time-critical removal action. In addition, the ERRS contractor developed a site-specific HASP dated May 12, 2014. The HASP details site-related hazards and identifies health and safety protocols for each task to be performed during the removal action. The HASP also describes proper personal protective equipment (PPE) to be used on a task-by-task basis and during emergency procedures.

Tetra Tech developed the site-specific SAP dated May 27, 2014. The SAP identifies site-related contaminants of concern, sampling equipment, and techniques. All documents are available in the site files.

Initial Site Setup and Construction of Exclusion Zone and CRZ

On May 27, 2014, EPA, Tetra Tech, and ERRS personnel mobilized to the site to initiate the removal action. A command post was set up in an open lot near the intersection of Martin Road and Jefferson Avenue. The command post housed trailers, support supplies, personal vehicles, and heavy equipment when not in use. The ERRS contractor set up two office trailers, one for EPA and Tetra Tech START personnel and the other one for ERRS contractor personnel. The ERRS contractor procured a local electrician to connect power to the trailers using a large, on-site diesel generator.

Before work began, the ERRS contractor designated the boundaries for the exclusion zone, CRZ, and command post. The exclusion zone included all areas where removal action activities would occur. The CRZ contained receptacles for the disposal of PPE used during removal action activities and break area. In addition, on- and off-site emergency rally points, several locations for fire extinguishers, and an emergency eyewash and first aid station were established.

Perimeter Air Monitoring and Perimeter Sample Collection

Tetra Tech conducted perimeter air monitoring during periods of active excavation around the exclusion zone as defined in the site-specific HASP. Air monitoring was conducted in Level D PPE. Each day (weather permitting), a Thermo Scientific DataRAM 4000 (DR4) particulate monitor was positioned at a downwind location around the excavation activities. The DR4 monitors measured dust emissions in real time. Table A below summarizes the results of air

monitoring conducted during removal action activities at the site.

The particulate dust action level was 3,000 micrograms per cubic meter (µg/m^3) above background. Visible dust emissions during excavation activities were rare. Particulate dust time weighted average (TWA) readings ranged from 2.33 to 73.4 µg/m^3 during the removal action activities and are summarized in the below table. All air monitoring data can be found in the site file.

Table A
Air Monitoring Summary Table

Date	Time-Weighted Average (µg/m^3)
05/27/14	10.65645
05/28/14	22.86908
05/29/14	6.965405
05/30/14	8.367796
06/02/14 (First Run)	24.47372
06/02/14 (Second Run)	19.49669
06/03/14	10.34525
06/04/14	9.233969
06/05/14	2.330971
06/06/14	3.150577
06/09/14	6.528057
06/10/14	9.350206
06/12/14	34.11618
06/13/14	4.661844
06/16/14	7.140102
06/17/14	25.77426
06/20/14	6.687396
06/23/14	10.32615
06/25/14	5.471347
06/26/14	6.943701
06/27/14	10.70596
06/11/14 (First Run)	23.69387
06/11/14 (Second Run)	9.805636
06/19/14 (First Run)	73.39927
06/19/14 (Second Run)	23.38025
06/24/14 (First Run)	31.9472
06/24/14 (Second Run)	35.78522

Note: µg/m3 = micrograms per cubic meter

Site perimeter air samples were collected during active excavation activities on May 30, 2014. Two air sample cassettes were collected [redacted]): one from an upwind location and one from a downwind location. Tetra Tech relinquished the air sample

cassettes to ER, who shipped the samples following chain-of-custody protocols to Brighton Analytical in Brighton, Michigan, for laboratory analysis of PCBs. Analytical results for these samples indicated that PCBs were not detected in perimeter air samples, and air concentrations were below 1.0 ug/m3 based on laboratory reporting limits. Enclosure 4 provides the air sample data.

Removal of Trees, Excavation and Verification Sampling of Residential Soil

Prior to excavation, ER and a subcontractor, removed trees within the excavation areas to gain access to the soils. A total of 25 trees (11 maples on the right of ways and 14 pines on the private property) were removed.

Results from sampling and analysis conducted by EPA's Remedial Branch were used to determine whether or not site properties required excavation. Figure 2 in Enclosure A provides a site map indicating the properties that required excavation. Residential soils containing PCBs were excavated to various depths depending on the extent of contamination. Excavation activities were conducted in modified Level D PPE that included Tyvek suits, rubber booties, and nitrile gloves.

Verification samples at the bottom of each excavation were collected and submitted to Brighton Analytical for PCB analysis. Samples consisted of a 5-point composite from each property. At three properties, more than one grid sample was collected to determine whether further excavation was warranted. Disposable sampling equipment was used and properly disposed of.

Tetra Tech relinquished the soil samples to ER, who shipped the samples following chain-of-custody procedures to Brighton Analytical in Brighton, Michigan, for laboratory analysis of PCBs. Table 1 in Enclosure B provides a summary of the excavation depths and final sampling results for each property and/or grid.

Excavation was conducted using multiple excavators based on access to the area. Excavated soil was both stockpiled and directly loaded based on the property location. Stockpiled soil was located at the back of [redacted] and was loaded out on a daily basis. In the event soil was left for the next day, piles were covered with plastic sheeting. PCB-contaminated soils removed from Toxic Substances Control Act (TSCA) properties, greater than 50 ppm ([redacted] were shipped for disposal to Wayne Disposal in Belleville, Michigan. Non-TSCA – Non-Regulated soils, less than 50ppm removed from the remaining properties [redacted]) were shipped to Woodland Meadows in Wayne, Michigan. Table 2 in Enclosure B provides a disposal summary, including waste description, date, quantity, and manifest number. Approximately 1,504 tons of contaminated soil (1,087 tons TSCA and 416 tons non-TSCA) was disposed of off-site.

Backfilling of Excavations and Regrading of Residential Properties

Excavations at each property were backfilled with common fill and topsoil to return the yards to their original grade. One fill sample, from Sterling Topsoil Sterling Heights, Michigan, was

collected prior to backfilling properties to verify clean material was being placed on site. The sample was submitted to Brighton Analytical on June 5, 2014, and was analyzed for PCBs, metals, pH, and flashpoint. All results were non-detect or below MDEQ criteria.

Approximately 1,500 tons of common fill and topsoil were used to restore the properties. In areas where excavation extended more than 1 foot below ground surface (bgs), common fill was placed using a skid steer to near grade, and then topsoil was used to complete the grade. In areas where excavation extended to less than 1 foot bgs, only topsoil was placed by skid steer to complete the grade.

Application of Sod and Installation of Trees to Excavated Areas

After excavation, backfill, and final grading at each property, sod was applied to the ground surface to restore vegetated areas to their original state. New trees were planted on properties where trees were removed during excavation, and mulch was added around the base of the trees. Proper watering schedules were provided to each property owner to ensure the health of both sod and trees.

Demobilization from Site

On July 10, 2014, the removal action was completed. ERRS personnel removed all support equipment, and all personnel were demobilized.

CONCLUSIONS

The risk of direct contact between the general public and elevated levels of PCBs in surface soil has been removed from properties along Lakeland Street and Harper Avenue as required. Properties were sampled for PCBs once desired excavation depths were reached. All of the PCB results were below the RMLs of 22 ppm for Aroclor 1248 and 3.4 ppm for Aroclor 1254. The affected properties were excavated to various depths ranging from 6 to 40 inches, backfilled with new fill and topsoil, regraded to original or improved grades, and sodded and replanted with trees where necessary.

If you have any questions on the removal action activities completed at this site or require additional information, please contact me at (586) 524-0613.

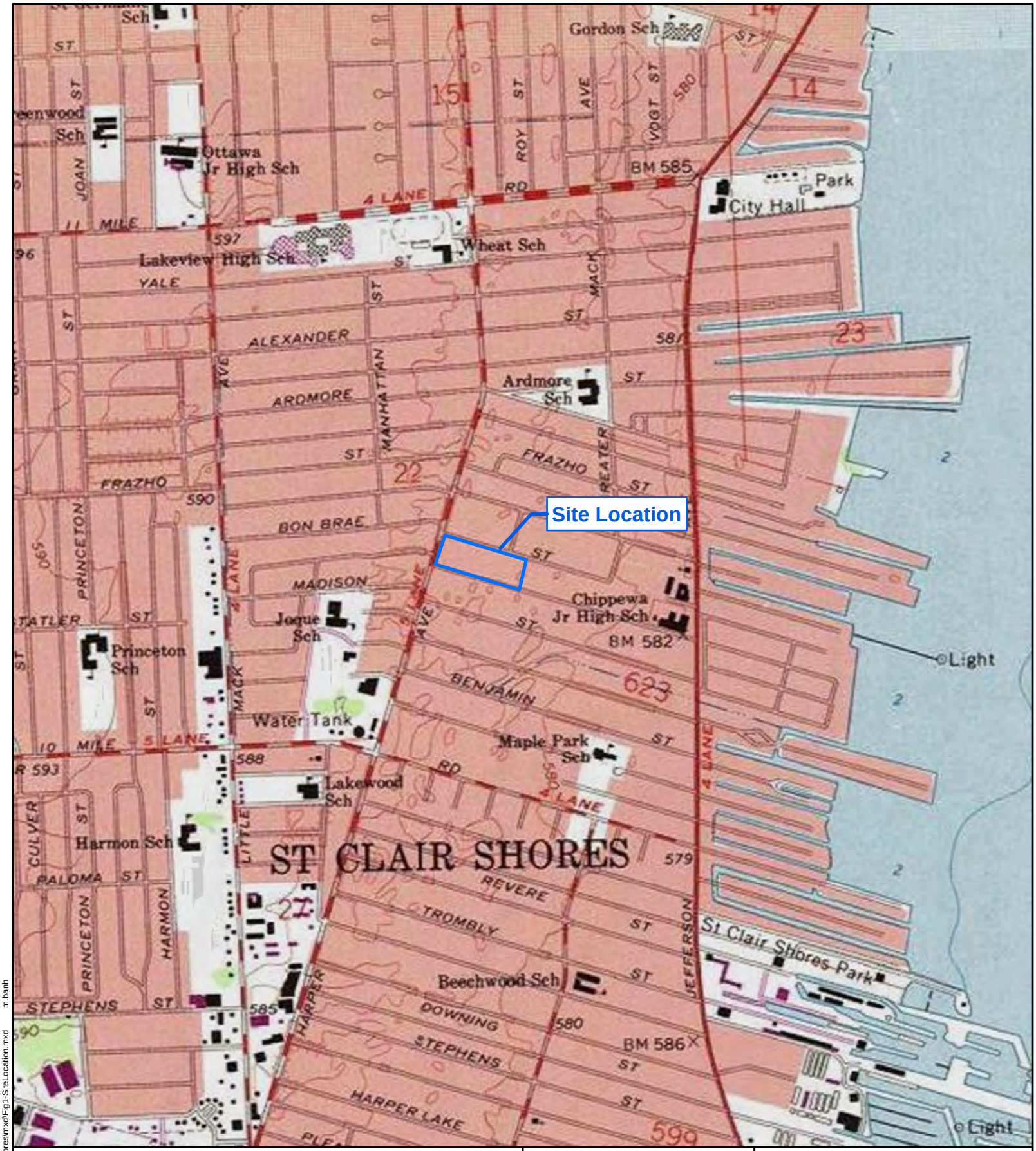
Sincerely,

Lori A. Kozel

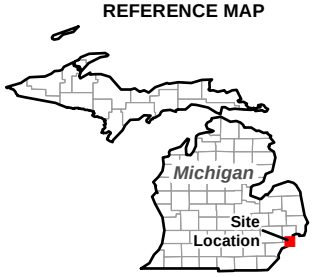
Lori Kozel
Tetra Tech Project Manager

Enclosures (4):
A – Figures
B – Tables
C – Photographic Documentation
D –Analytical Data

ENCLOSURE A
Figures



REFERENCE MAP



N

0 1,000 2,000 Feet

ST. CLAIR SHORES PCB DRAIN REMOVAL #2
MACOMB COUNTY, MICHIGAN

FIGURE 1
SITE LOCATION MAP

8/8/2014 G:\GIG9026-START IV\St Clair Shores\mxd\Fig1-SiteLocation.mxd m.banh

Harper Avenue

Bon Brae Street

Lakeland Street

F
Final Excavation Depth - 30"
PCB - 0.35

G
Final Excavation Depth - 18"
PCB - Non-detect

Final Excavation Depth - 40"
PCB - 0.48

C
C
B
D
A
Final Excavation Depth - 36"
PCB - Non-detect

Final Excavation Depth - 24"
PCB - Non-detect

Final Excavation Depth - 24"
PCB - 0.76

Final Excavation Depth - 40"
PCB - Non-detect

Final Excavation Depth - 24"
PCB - Non-detect

A
B
D
Final Excavation Depth - 24"
PCB - 1.7

E
Final Excavation Depth - 40"
PCB - Non-detect

Final Excavation Depth - 12"
PCB - Non-detect

Final Excavation Depth - 12"
PCB - 0.42

Final Excavation Depth - 36"
PCB - 0.47

Final Excavation Depth - 24"
PCB - Non-detect

Final Excavation Depth - 12"
PCB - Non-detect

B
A
Final Excavation Depth - 12"
PCB - Non-detect

Final Excavation Depth - 6"
PCB - 2

Final Excavation Depth - 12"
PCB - Non-detect

Final Excavation Depth - 12"
PCB - Non-detect

bing™

8/8/2014 Path: G:\GIS\9026-START IV\St Clair Shores\mxd\Fig2-SiteLayout-SampleResults.mxd m.bsnh

Legend

Boundary of site properties

Excavation areas within each property (letters indicate multiple areas within one property)

All polychlorinated biphenyl (PCB) results are presented in parts per million (ppm).

N

0 50 100 Feet

ST. CLAIR SHORES PCB DRAIN REMOVAL #2
MACOMB COUNTY, MICHIGAN

FIGURE 2
SITE LAYOUT
AND VERIFICATION
SAMPLE RESULTS

ENCLOSURE B
Tables

Table 1
Excavation Summary
St. Clair Shores PCB Drain Removal #2 Site

Address	Grid	Final excavation depth (inches)	Final Sample Result (ppm) Total PCBS
[redacted]	A	24	Non-detect
	B	24	Non-detect
	C	40	0.48
	D	40	Non-detect
	E	40	Non-detect
	F	30	0.35
	G	18	Non-detect
[redacted]	A	24	0.76
	B	24	Non-detect
	C	36	Non-detect
	D	24	1.7
[redacted] Lakeland	NA	36	0.47
[redacted] Lakeland	NA	24	Non-detect
[redacted] Lakeland	NA	12	Non-detect
[redacted] Lakeland	NA	12	0.42
[redacted] Lakeland	NA	12	Non-detect
[redacted] Lakeland	NA	6	2
[redacted] Lakeland	NA	12	Non-detect
[redacted] Lakeland	A	12	Non-detect
	B	12	Non-detect

Notes:
NA - Not applicable
PCBs - polychlorinated biphenyls
ppm - parts per million
The highest laboratory reporting limit for non-detect results was 0.33 ppm.

Table 2
Manifest Tracking Table
St. Clair Shores PCB Drain Removal #2 Site

Date	Waste Stream	Medium	Quantity (tons)	Manifest Number	Disposal
06/02/14	PCB-Contaminated	Soil	24.35	13274707	Wayne Disposal
06/02/14	PCB-Contaminated	Soil	26.93	13274708	Wayne Disposal
06/02/14	PCB-Contaminated	Soil	21.55	13274709	Wayne Disposal
06/02/14	PCB-Contaminated	Soil	27.2	13274710	Wayne Disposal
06/03/14	PCB-Contaminated	Soil	29.14	13274711	Wayne Disposal
06/03/14	PCB-Contaminated	Soil	27.11	13274712	Wayne Disposal
06/03/14	PCB-Contaminated	Soil	26.23	13274713	Wayne Disposal
06/04/14	PCB-Contaminated	Soil	26.17	13274714	Wayne Disposal
06/04/14	PCB-Contaminated	Soil	22.44	13274715	Wayne Disposal
06/04/14	PCB-Contaminated	Soil	26.21	13274716	Wayne Disposal
06/04/14	PCB-Contaminated	Soil	23.9	13274717	Wayne Disposal
06/04/14	PCB-Contaminated	Soil	25.73	13274718	Wayne Disposal
06/05/14	PCB-Contaminated	Soil	27.91	13274698	Wayne Disposal
06/05/14	PCB-Contaminated	Soil	25.84	13274697	Wayne Disposal
06/05/14	PCB-Contaminated	Soil	27.52	13274696	Wayne Disposal
06/06/14	PCB-Contaminated	Soil	23.56	13274699	Wayne Disposal
06/06/14	PCB-Contaminated	Soil	23.92	13274700	Wayne Disposal
06/06/14	PCB-Contaminated	Soil	28.68	13274701	Wayne Disposal
06/06/14	PCB-Contaminated	Soil	25.69	13274702	Wayne Disposal
06/09/14	PCB-Contaminated	Soil	31.08	13274703	Wayne Disposal
06/09/14	PCB-Contaminated	Soil	27.77	13274704	Wayne Disposal
06/09/14	PCB-Contaminated	Soil	25.67	13274705	Wayne Disposal
06/09/14	PCB-Contaminated	Soil	20.35	13274706	Wayne Disposal
06/09/14	PCB-Contaminated	Soil	23.88	13274846	Wayne Disposal
06/10/14	PCB-Contaminated	Soil	20.92	13274847	Wayne Disposal
06/11/14	PCB-Contaminated	Soil	22.96	13274848	Wayne Disposal
06/11/14	PCB-Contaminated	Soil	21.23	13274849	Wayne Disposal
06/11/14	PCB-Contaminated	Soil	24.75	13274850	Wayne Disposal
06/11/14	PCB-Contaminated	Soil	20.51	13274851	Wayne Disposal
06/11/14	PCB-Contaminated	Soil	24.12	13274852	Wayne Disposal
06/12/14	PCB-Contaminated	Soil	25.91	13274853	Wayne Disposal
06/12/14	PCB-Contaminated	Soil	23.68	13274854	Wayne Disposal
06/12/14	PCB-Contaminated	Soil	25.89	13274855	Wayne Disposal
06/12/14	PCB-Contaminated	Soil	23.88	13274856	Wayne Disposal
06/13/14	PCB-Contaminated	Soil	25.49	13274857	Wayne Disposal
06/13/14	PCB-Contaminated	Soil	23.43	13274858	Wayne Disposal
06/13/14	PCB-Contaminated	Soil	23.42	13274859	Wayne Disposal
06/13/14	PCB-Contaminated	Soil	21.41	13274860	Wayne Disposal
06/13/14	PCB-Contaminated	Soil	22.32	13274861	Wayne Disposal
06/13/14	PCB-Contaminated	Soil	18.9	13274862	Wayne Disposal
06/16/14	PCB-Contaminated	Soil	38.43	13274863	Wayne Disposal
06/17/14	PCB-Contaminated	Soil	31.94	13274864	Wayne Disposal

Table 2
Manifest Tracking Table
St. Clair Shores PCB Drain Removal #2 Site

Date	Waste Stream	Medium	Quantity (tons)	Manifest Number	Disposal
06/17/14	PCB-Contaminated	Soil	29.27	13274865	Wayne Disposal
06/19/14	Non-TSCA - Non-Regulated	Soil	17.95	2608518	Woodland Meadows
06/19/14	Non-TSCA - Non-Regulated	Soil	19.64	2608519	Woodland Meadows
06/19/14	Non-TSCA - Non-Regulated	Soil	20.49	2608520	Woodland Meadows
06/19/14	Non-TSCA - Non-Regulated	Soil	19.65	2608521	Woodland Meadows
06/20/14	Non-TSCA - Non-Regulated	Soil	24.04	2608522	Woodland Meadows
06/20/14	Non-TSCA - Non-Regulated	Soil	21.32	2608523	Woodland Meadows
06/20/14	Non-TSCA - Non-Regulated	Soil	20.2	2608524	Woodland Meadows
06/20/14	Non-TSCA - Non-Regulated	Soil	22.34	2608525	Woodland Meadows
06/20/14	Non-TSCA - Non-Regulated	Soil	26.78	2608526	Woodland Meadows
06/20/14	Non-TSCA - Non-Regulated	Soil	19.95	2608527	Woodland Meadows
06/23/14	Non-TSCA - Non-Regulated	Soil	23.37	2608528	Woodland Meadows
06/23/14	Non-TSCA - Non-Regulated	Soil	18.65	2608529	Woodland Meadows
06/24/14	Non-TSCA - Non-Regulated	Soil	19.66	2608530	Woodland Meadows
06/24/14	Non-TSCA - Non-Regulated	Soil	16.48	2608531	Woodland Meadows
06/24/14	Non-TSCA - Non-Regulated	Soil	22.21	2608532	Woodland Meadows
06/25/14	Non-TSCA - Non-Regulated	Soil	15.9	2608533	Woodland Meadows
06/25/14	Non-TSCA - Non-Regulated	Soil	15.62	2608534	Woodland Meadows
06/25/14	Non-TSCA - Non-Regulated	Soil	18.25	2608535	Woodland Meadows
06/26/14	Non-TSCA - Non-Regulated	Soil	22.83	2608536	Woodland Meadows
06/26/14	Non-TSCA - Non-Regulated	Soil	21.05	2608537	Woodland Meadows
06/27/14	Non-TSCA - Non-Regulated	Soil	9.85	2608538	Woodland Meadows
			1087.29	**TSCA Total**	
			416.23	**Non - TCSA Total**	
			1503.52	**Grand Total**	

Notes:
PCB = Polychlorinated Biphenyls
TSCA = Toxic Substances Control Act

ENCLOSURE C
Photographic Documentation

Photograph: 1

Direction: East

Date: 5/29/2014

Photographer:
Lori Kozel

Description:
Excavation along right-of-way at [redacted]

Photograph: 2

Direction: South

Date: 5/30/2014

Photographer:
Lori Kozel

Description:
DataRam 400 and air sampling location.

Photograph: 3 **Direction:** Southeast **Date:** 6/2/2014 **Photographer:** Lori Kozel **Description:** Loading out contaminated soil.	

Photograph: 4 **Direction:** South **Date:** 6/2/2014 **Photographer:** Lori Kozel **Description:** Excavation activities in the backyard of [redacted]	

Photograph: 5 **Direction:** East **Date:** 6/2/2014 **Photographer:** Lori Kozel **Description:** Excavation activities in the backyard at [redacted]	

Photograph: 6 **Direction:** North west **Date:** 6/5/2014 **Photographer:** Lori Kozel **Description:** Excavation activities in the backyard at [redacted]	

Photograph: 7 **Direction:** West **Date:** 6/9/2014 **Photographer:** Lori Kozel **Description:** Remaining stump at [redacted] from tree removal.	

Photograph: 8 **Direction:** Southeast **Date:** 6/12/2014 **Photographer:** Lori Kozel **Description:** Stumping grinding activities in Level B.	

Photograph: 9

Direction: East

Date: 6/16/2014

Photographer:
Lori Kozel

Description:
Excavation at [redacted] large tree was removed.

Photograph: 10

Direction: East

Date: 6/30/2014

Photographer:
Lori Kozel

Description:
Compaction of backfill at [redacted].

Photograph: 11

Direction: Northwest

Date: 6/30/2014

Photographer:
Lori Kozel

Description:
Backfill activities at [redacted]

Photograph: 12

Direction: West

Date: 7/9/2014

Photographer:
Lori Kozel

Description:
Final restoration complete at [redacted]

Photograph: 13

Direction: North

Date: 7/9/2014

Photographer:
Lori Kozel

Description:
Final restoration complete at [redacted]

Photograph: 14

Direction: Northeast

Date: 7/9/2014

Photographer:
Lori Kozel

Description:
Final restoration complete at back of [redacted].

ENCLOSURE D
Verification Report and Analytical Data