

FILL IMPORT PLAN

**USS LEAD OPERABLE UNIT 1, ZONE 1
EAST CHICAGO, INDIANA**

Revision 2 - June 2023



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1. INTRODUCTION

1.1. Purpose

The purpose of this Fill Import Plan is to provide a description of, and details associated with, all aspects of fill import required to enable Purchaser to implement the remedy for fill (Alternative 4A) set forth in the ROD Amendment and the Explanation of Significant Differences. The Plan may reference other documents as appropriate and may be revised from time to time to address necessary edits or improvements that will improve the utility of the Plan.

1.2. Existing Conditions, Anticipated Fill Import

The Property has a slight topographic variation but is relatively flat with an average elevation of 586 feet AMSL. Implementation of the remedy for fill (Alternative 4A) set forth in the ROD Amendment and the Explanation of Significant Differences will require excavation of a significant volume of fill and the import of fill to be used as backfill in the remediated areas. Additional fill may be imported to raise the development grade at the site to reduce construction excavation in potentially contaminated material. The combined estimated volume of fill needed to backfill the excavated fill (70,000 cubic yards) and to elevate the grade at the Property to support the planned development (465,000 cubic yards) is approximately 535,000 in place cubic yards.

2. REGULATORY OVERVIEW

Fill will be imported, managed, and placed in accordance with the approved Remedial Design Remedial Action Work Plan (RD/RA Work Plan) and the Design Criteria Report (DCR). Analytical testing will be performed on fill prior to importation as set forth herein. All fill imported to the Property will be tracked and managed in accordance with this Fill Import Plan which references the Field Sampling and Analysis Plan (FSAP) and the Quality Assurance Project Plan (QAPP).

3. SITE PREPARATION

3.1. Erosion and Sediment Controls

Prior to the import of fill, Erosion and Sediment (E&S) Controls will be installed, operated, and maintained in accordance with the RD/RA Work Plan and the DCR.

3.2. Entrance Stabilization

Prior to the import of fill, entrances to the Property that will be used for the import of fill will be stabilized and will be maintained throughout the project to be in good working order.

3.3. Traffic Control

The Traffic Control Plan will be implemented in accordance with the RD/RA Work Plan and DCR and the Transportation and Disposal Plan to ensure traffic and worker safety within the Property and minimize traffic disruption to the surrounding community. Currently proposed traffic routes are depicted in the Transportation and Disposal Plan.

3.4. Scale and Scale-House

Although not presently contemplated, a scale and a scale-house may be located on the Property, if needed, and may be in operation for the duration of the project as needed to weigh trucks delivering fill.

3.5. General Site Prep

Areas for proposed stockpiles may require general clearing such as fence removal or re-location, pavement removal, utility poles, light poles, tree removal, etc.

4. FILL SOURCES

Fill sources may include quarries, recycle facilities, and construction projects ranging from small to large capital projects. Fill includes recyclable materials (block, concrete, brick, etc.) and soils which meet the acceptance criteria set forth below.

5. ACCEPTANCE CRITERIA, FILL QUALITY ASSURANCE

5.1. Acceptance Criteria

Each borrow source will be evaluated using an environmental questionnaire in accordance with the FSAP. The questionnaire reviews the historical use of the land associated with its origin and the potential for releases of hazardous substances or petroleum related to the land use. The analytical profile will be tailored based on potential hazardous substance or petroleum identified in the questionnaire, which may include one or more of the following: volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), metals (RCRA 8), polychlorinated biphenyls (PCBs), herbicides, or pesticides. Fill from each source shall be sampled and analyzed in accordance with the FSAP prior to delivery to the Property and thereafter at a frequency of two composite samples per 4,000 cu yds. delivered. The Project Coordinator will review each source and all analytical results prior to approving the import of the fill to the Property. Fill shall be considered acceptable if it contains less than 400 mg/kg lead, 19 mg/kg arsenic and otherwise meets IDEM's 2023 Risk Based Closure Guide (R2) published levels Table 1 for residential direct contact as referenced in the IDEM Brownfield Program Fact Sheet for Use of Backfill dated October 11, 2022. The requirements are further summarized in the EPA Response Letter Regarding Fill Import Plan dated March 30, 2023, also included in Appendix A.

On behalf of IDA, Verdantas evaluated a potential fill import source from the Chicago Transit Authority (CTA) associated with the Redline Upgrade Project. This evaluation was documented in a May 18, 2023 letter prepared by Verdantas and submitted to EPA requesting acceptance of this material as fill based on the existing analytical data associated with documentation provided by CTA. The EPA responded in a May 30, 2023 letter and stated that because the EPA was not involved in the sampling quality assurance/quality control, IDA will still be required to meet the sampling requirements of the USS Lead Fill Import Plan which requires 2 samples for every 4,000 cubic yards. In addition, in the event this material cannot be characterized by IDA prior to being delivered to the Property, the imported fill must be segregated to ensure if analytical results fail the fill import criteria, that material will have to be removed from the site. EPA will also require further discussion on how these soils will be managed, including engineering controls, if they are brought onto the site prior to excavation activities beginning. The Verdantas letter documenting the CTA source evaluation and EPA response are included in Appendix B. If fill source pre-characterization sampling used to satisfy EPA cleanup volume requirements cannot be performed off-Property and existing data is available suggesting the material is likely to meet the criteria outlined in this plan, material will be managed in the same manner as the CTA source.

5.2. Quality Assurance/Approval

Approval to import fill will require submittal to the Project Coordinator of a Fill Acceptance Request (FAR) form. The FAR will include a summary of the project source generating the fill, and available chemical,

physical, and historical data. Each source will be sampled in accordance with the requirements of this Section. No fill will be imported without a written approval from the Project Coordinator.

6. FILL DELIVERY, STAGING AND STOCKPILING

6.1. Delivery

Fill will be delivered to the Property via truck using the entrance off of 151st Street in accordance with the Transportation and Disposal Plan. Trucks entering the Property will either end dump directly at the working face or in the designated staging or stockpile areas. All fill received will be accompanied by an appropriate manifest or bill of lading which will be maintained in electronic format and submitted as part of the Remedial Action Completion Report.

6.2. Staging

Fill may be staged on the Property. Dust control measures must be implemented for any fill staged on the property.

6.3. Stockpiling

Prior to initiating the excavation of soils required by Purchaser to implement the remedy for soil (Alternative 4A) set forth in the ROD Amendment (RODA) and the Explanation of Significant Differences, fill may be stockpiled on the Property in the areas identified not requiring in-situ-stabilization or excavation on Sheets 8 and 9 of the Design Plans included with the DCR. Fill can be stockpiled in decision units requiring remediation (e.g., soil stabilization and soil excavation, or excavation without stabilization) after replacement fill has been placed and surveyed to a thickness to meet the requirements of the RODA.

6.4. Designated End Dumping Areas

Upon passing through security, trucks will be directed to the end dump location, which may be changed from time-to-time, and which may be direct placement to a working lift or within a designated staging or stockpile area.

7. FILL MATERIAL TRACKING AND MANAGEMENT

7.1. Records

Fill import will be controlled and managed by Purchaser, or its representative. Purchaser and its designee will manage all work required to obtain approvals, manifests, and paperwork associated with each fill source. All of the following information will be collected and digitized so there are electronic files of all manifests for approved material into the Property:

- 7.1.1. Origin of the material;
- 7.1.2. Results of chemical analysis, if any;
- 7.1.3. Mode of transportation;
- 7.1.4. Approximate volume of material available;
- 7.1.5. Placement location;
- 7.1.6. Regulatory status of the material; and
- 7.1.7. Manifests.

The electronic files will be maintained by the Purchaser, or its representative, and will be made available to the EPA or IDEM and their contractors in the form of electronic deliverables upon request.

7.2. Placement Grids

Approved fill material that is delivered to the Property will be placed in a decision unit/grid pattern developed by Purchaser prior to placing fill. The decision units will be subsequently used to document where each load of material was placed and as a reference point in describing work performed across the Property.

APPENDIX A
IDEM BACKFILL CRITERIA



Use of Backfill

Introduction

The Indiana Brownfields Program (Program) has developed this fact sheet regarding backfill used on sites with Program oversight and/or involvement to help facilitate redevelopment of properties hindered by actual or potential environmental contamination. Sites with the added constraint of having to determine whether backfill material is appropriate to bring onto a site can rely on this guidance and/or contact the Program.

Appropriate Backfill

Backfill brought onto a brownfield site from an off-site source must be verified as clean. For granular materials (e.g., sand, pea gravel, stone) from a “clean” commercial source (e.g., quarry, gravel pit), typically no confirmatory sampling is required by the Program. If the proposed backfill material is cohesive in nature (e.g., clays, silty clays) and is from an off-site source, regardless of whether it originated from a commercial source or not, confirmation sampling is required. These requirements also apply to all sites receiving financial assistance from the Program.

Confirmation sampling can be accomplished by collecting three samples per source of “clean” fill and one additional sample for each subsequent 500 tons planned for use. The material should be sampled for source-specific potential constituents of concern and, at a minimum, sampled for VOCs, SVOCs (including polynuclear aromatic hydrocarbons (PAHs)), and metals. If a commercial backfill source has been previously tested for potential contaminants, such data may be submitted to the Program for evaluation. Soil sample analysis must be reported on a dry weight basis. If the material originates from a verifiable source like a farm field, only sampling for the RCRA 8 metals may be necessary.

Program-Funded Sites

The Program is requiring sites at which it has awarded financial assistance that have excavated areas to be backfilled with granular fill material to grade with approximately four inches of crushed stone. Photographic documentation of the backfill being placed within the open excavation must be provided. Fill material must be consistent with that outlined, above, in *Appropriate Backfill*.

Program Recommendations

For any redevelopment project (residential, commercial, or industrial), the Program recommends contaminant concentrations in imported backfill meet R2 residential published levels regardless of site use so as not to trigger Solid Waste rules. The Program recommends documenting details of the material supplier’s imported backfill/soil source and quantity of material imported as part of redevelopment activities to avoid any future liabilities.

At a Glance:

What is a Brownfield?

A BROWNFIELD IS AN UNDERUTILIZED PROPERTY WHERE REDEVELOPMENT OR REUSE IS COMPLICATED DUE TO ACTUAL OR POTENTIAL ENVIRONMENTAL CONTAMINATION.

Program Decision-making related to appropriate backfill:

THE PROGRAM WILL CONSULT IDEM SOLID WASTE COMPLIANCE SECTION IN THE EVENT THAT IT NEEDS ASSISTANCE MAKING AN APPROPRIATE BACKFILL DETERMINATION .

For More Information about backfill:

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

March 30, 2023

David B. Mustafaga
Senior Consultant
Verdantas LLC
6397 Emerald Parkway, Suite 200
Dublin, OH 43016

RE: Fill Import Plan for U.S. Smelter & Lead Refinery Superfund Site, Operable Unit 1,
Modified Zone 1

Dear Mr. Mustafaga:

The U.S. Environmental Protection Agency is in receipt of your March 23, 2023 correspondence requesting a reevaluation of the allowable arsenic concentration for fill material Industrial Development Advantage of East Chicago, LLC (IDA) will bring on-site to fill excavations in Modified Zone 1. In our March 20, 2023 correspondence, EPA stated that an arsenic concentration of 14 parts per million (ppm) would be acceptable for off-site fill material used to replace contaminated soils that are excavated in accordance with the selected remedy. Our decision was based on background concentrations of arsenic in the area as determined in the Remedial Investigation for Operable Unit 1. Industrial Development Advantage LLC (IDA) could then petition the Indiana Department of Environment (IDEM) for a Legitimate Use Determination (LUD) for any other fill that is required for construction of the logistic center. IDA has indicated that they are currently going through the IDEM LUD process.

Your request asks EPA to raise the arsenic concentration of off-site fill material coming into Modified Zone 1 from 14 ppm to 26 ppm since 26 ppm is the site-specific remedial action level and the upper tolerance limit for the background concentration of arsenic. EPA has reviewed your request in light of the selected remedy, the remedial design, and the applicable or relevant and appropriate requirements identified in the 2012 Record of Decision, including 329 Ind. Admin. Code Rule 10-3-1. Based on the geostatistical sampling that was completed in the fall of 2020, IDA will be excavating the top one foot of soil in areas of Modified Zone 1 where arsenic concentrations exceed 19 ppm. Because IDA will be excavating soils above 19 ppm arsenic, EPA has determined that it is inappropriate to backfill the excavated areas with soil containing up to 26 ppm arsenic. EPA has determined that 19 ppm arsenic is a more appropriate maximum concentration for fill brought from off-site to fill excavations.

The 19-ppm arsenic concentration applies to the fill material that will be used to replace excavated contaminated soil. Lead concentrations for such fill will still be required to be below 400 ppm. IDA will need to meet the requirements of IDEM's Nonrule Policy Document –

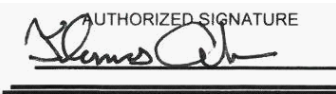
Uncontaminated Soil Policy (WASTE-0064-NPD) for other constituents.

If you have any questions about this letter, feel free to contact me.

Sincerely,



Recoverable Signature

X 

Thomas Alcamo

Remedial Project Manager

Signed by: THOMAS ALCAMO

cc; Steve Radel, IDA

Doug Petroff, IDEM

Rachel Houle, HelioTech

IDEM Published Levels Table 1 Human Health: Standard Exposure Scenarios	Medium >	SOIL			GROUNDWATER	INDOOR AIR		SOIL GAS OR CONDUIT VAPOR					
	Type >	Long Term		Short Term	Long Term	Long Term		Subslab/Deep Exterior/Conduit			Shallow Exterior/Utility Corridor		
	Land Use >	Res	Com	Exc	Res	Res	Com	Res	Com	Large Com	Res	Com	Large Com
	Units/Q >	mg/kg Q	mg/kg Q	mg/kg Q	µg/L Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q
Diphenyl Sulfone	127-63-9	7.E+01 N	7.E+02 N	1.E+03 N	2.E+01 N								
Diphenylamine	122-39-4	9.E+03 N	8.E+04 N	1.E+05 L	1.E+03 N								
Diphenylhydrazine, 1,2-	122-66-7	1.E+01 C	3.E+01 C	2.E+03 C	8.E-01 C								
Diquat	2764-72-9	2.E+02 N	2.E+03 N	4.E+03 N	2.E+01 M								
Direct Black 38	1937-37-7	1.E+00 C	3.E+00 C	2.E+02 C	1.E-01 C								
Direct Blue 6	2602-46-2	1.E+00 C	3.E+00 C	2.E+02 C	1.E-01 C								
Direct Brown 95	16071-86-6	1.E+00 C	3.E+00 C	2.E+02 C	1.E-01 C								
Disulfoton	298-04-4	4.E+00 N	3.E+01 N	7.E+01 N	5.E-01 N								
Dithiane, 1,4-	505-29-3	1.E+03 N	1.E+04 N	2.E+04 N	2.E+02 N								
Diuron	330-54-1	2.E+02 N	2.E+03 N	3.E+03 N	4.E+01 N								
Dodine	2439-10-3	2.E+03 N	2.E+04 N	3.E+04 N	4.E+02 N								
Endosulfan	115-29-7	7.E+02 N	7.E+03 N	1.E+04 N	1.E+02 N								
Endosulfan Sulfate	1031-07-8	5.E+02 N	5.E+03 N	1.E+04 N	1.E+02 N								
Endothall	145-73-3	2.E+03 N	2.E+04 N	3.E+04 N	1.E+02 M								
Endrin	72-20-8	3.E+01 N	3.E+02 N	5.E+02 N	2.E+00 M								
Epichlorohydrin	106-89-8			4.E+02 N	2.E+00 N	1.E+00 N	4.E+00 N	3.E+01 N	1.E+02 N	1.E+03 N	1.E+01 N	4.E+01 N	4.E+02 N
Epoxybutane, 1,2-	106-88-7			4.E+03 N	4.E+01 N	2.E+01 N	9.E+01 N	7.E+02 N	3.E+03 N	3.E+04 N	2.E+02 N	9.E+02 N	9.E+03 N
EPTC	759-94-4	5.E+03 N	6.E+04 N	1.E+05 N	8.E+02 N								
Ethanol, 2-(2-methoxyethoxy)-	111-77-3	4.E+03 N	3.E+04 N	7.E+04 N	8.E+02 N								
Ethephon	16672-87-0	4.E+03 N	4.E+03 N	9.E+03 N	1.E+02 N								
Ethion	563-12-2	4.E+01 N	4.E+02 N	9.E+02 N	4.E+00 N								
Ethoxyethanol Acetate, 2-	111-15-9			2.E+04 S	1.E+02 N	6.E+01 N	3.E+02 N	2.E+03 N	9.E+03 N	9.E+04 N	6.E+02 N	3.E+03 N	3.E+04 N
Ethoxyethanol, 2-	110-80-5			6.E+04 N	8.E+01 N	4.E+01 N	2.E+02 N	1.E+03 N	6.E+03 N	6.E+04 N	4.E+02 N	2.E+03 N	2.E+04 N
Ethyl Acetate	141-78-6			1.E+04 S	1.E+02 N	7.E+01 N	3.E+02 N	2.E+03 N	1.E+04 N	1.E+05 N	7.E+02 N	3.E+03 N	3.E+04 N
Ethyl Acrylate	140-88-5			1.E+03 N	1.E+01 N	8.E+00 N	4.E+01 N	3.E+02 N	1.E+03 N	1.E+04 N	8.E+01 N	4.E+02 N	4.E+03 N
Ethyl Chloride (Chloroethane)	75-00-3			2.E+03 S	8.E+03 N	4.E+03 N	2.E+04 N	1.E+05 N	6.E+05 N	6.E+06 N	4.E+04 N	2.E+05 N	2.E+06 N
Ethyl Ether	60-29-7			1.E+04 S	4.E+03 N								
Ethyl Methacrylate	97-63-2			1.E+03 S	6.E+02 N	3.E+02 N	1.E+03 N	1.E+04 N	4.E+04 N	4.E+05 N	3.E+03 N	1.E+04 N	1.E+05 N
Ethyl Tertiary Butyl Ether (ETBE)	637-92-3			3.E+03 S	7.E+02 C	4.E+02 C	2.E+03 C	1.E+04 C	5.E+04 C	5.E+05 C	4.E+03 C	2.E+04 C	2.E+05 C
Ethylbenzene	100-41-4			5.E+02 S	7.E+02 M	1.E+01 C	5.E+01 C	4.E+02 C	2.E+03 C	2.E+04 C	1.E+02 C	5.E+02 C	5.E+03 C
Ethylene Cyanohydrin	109-78-4	6.E+03 N	6.E+04 N	1.E+05 L	1.E+03 N								
Ethylene Diamine	107-15-3			1.E+05 L	2.E+03 N								
Ethylene Glycol	107-21-1	7.E+04 N	1.E+05 L	1.E+05 L	2.E+04 N								
Ethylene Glycol Monobutyl Ether	111-76-2	9.E+03 N	8.E+04 N	1.E+05 L	2.E+03 N								
Ethylene Oxide	75-21-8			3.E+01 C	7.E-03 C	3.E-03 C	4.E-02 C	1.E-01 C	1.E+00 C	1.E+01 C	3.E-02 C	4.E-01 C	4.E+00 C
Ethylene Thiourea	96-45-7	7.E+00 N	7.E+01 N	1.E+02 N	2.E+00 N								
Ethyleneimine	151-56-4			1.E+01 C	2.E-03 C	2.E-03 C	7.E-03 C	5.E-02 C	2.E-01 C	2.E+00 C	2.E-02 C	7.E-02 C	7.E-01 C
Ethylphthalyl Ethyl Glycolate	84-72-0	1.E+05 L	1.E+05 L	1.E+05 L	6.E+04 N								
Ethyl-p-nitrophenyl Phosphonate	2104-64-5	9.E-01 N	8.E+00 N	2.E+01 N	9.E-02 N								
Fenamiphos	22224-92-6	2.E+01 N	2.E+02 N	4.E+02 N	4.E+00 N								
Fenpropathrin	39515-41-8	2.E+03 N	2.E+04 N	4.E+04 N	6.E+01 N								
Fenvalerate	51630-58-1	2.E+03 N	2.E+04 N	4.E+04 N	5.E+02 N								
Fluometuron	2164-17-2	1.E+03 N	1.E+04 N	2.E+04 N	2.E+02 N								
Fluoranthene	206-44-0	3.E+03 N	3.E+04 N	7.E+04 N	8.E+02 N								
Fluorene	86-73-7	3.E+03 N	3.E+04 N	7.E+04 N	3.E+02 N								
Fluoride	16984-48-8	4.E+03 N	5.E+04 N	8.E+04 N	4.E+03 M								
Fluorine (Soluble Fluoride)	7782-41-4	7.E+03 N	7.E+04 N	1.E+05 L	4.E+03 M								
Fluridone	59756-60-4	7.E+03 N	7.E+04 N	1.E+05 L	1.E+03 N								
Flurprimidol	56425-91-3	4.E+03 N	3.E+04 N	7.E+04 N	7.E+02 N								
Flusilazole	85509-19-9	2.E+02 N	2.E+03 N	3.E+03 N	3.E+01 N								
Flutolanil	66332-96-5	4.E+04 N	1.E+05 L	1.E+05 L	8.E+03 N								
Fluvalinate	69409-94-5	9.E+02 N	8.E+03 N	2.E+04 N	2.E+02 N								
Folpet	133-07-3	8.E+03 N	7.E+04 N	1.E+05 L	2.E+03 N								
Fomesafen	72178-02-0	9.E+02 N	8.E+03 N	2.E+04 N	2.E+02 N								
Fonofos	944-22-9	2.E+02 N	2.E+03 N	3.E+03 N	2.E+01 N								
Formaldehyde	50-00-0			2.E+04 N	4.E+00 C	2.E+00 C	9.E+00 C	7.E+01 C	3.E+02 C	3.E+03 C	2.E+01 C	9.E+01 C	9.E+02 C
Formic Acid	64-18-6			7.E+02 N	6.E-01 N	3.E-01 N	1.E+00 N	1.E+01 N	4.E+01 N	4.E+02 N	3.E+00 N	1.E+01 N	1.E+02 N
Fosetyl-AL	39148-24-8	1.E+05 L	1.E+05 L	1.E+05 L	5.E+04 N								
Furan	110-00-9			2.E+03 N	2.E+01 N								
Furazolidone	67-45-8	2.E+00 C	6.E+00 C	3.E+02 C	2.E-01 C								
Furfural	98-01-1			5.E+03 N	4.E+01 N	5.E+01 N	2.E+02 N	2.E+03 N	7.E+03 N	7.E+04 N	5.E+02 N	2.E+03 N	2.E+04 N
Furium	531-82-8	5.E+00 C	2.E+01 C	8.E+02 C	5.E-01 C								
Furmecycloz	60568-05-0	3.E+02 C	8.E+02 C	4.E+04 C	1.E+01 C								
Glufosinate, Ammonium	77182-82-2	5.E+02 N	5.E+03 N	1.E+04 N	1.E+02 N								
Glutaraldehyde	111-30-8	8.E+03 N	7.E+04 N	1.E+05 L	2.E+03 N								
Glycidaldehyde	765-34-4			6.E+02 N	2.E+00 N	1.E+00 N	4.E+00 N	3.E+01 N	1.E+02 N	1.E+03 N	1.E+01 N	4.E+01 N	4.E+02 N
Glyphosate	1071-83-6	9.E+03 N	8.E+04 N	1.E+05 L	7.E+02 M								
Guanidine	113-00-8			2.E+04 N	2.E+02 N								
Guanidine Chloride	50-01-1	2.E+03 N	2.E+04 N	3.E+04 N	4.E+02 N								
Guanidine Nitrate	506-93-4	3.E+03 N	3.E+04 N	5.E+04 N	6.E+02 N								
Haloxypof, Methyl	69806-40-2	4.E+00 N	4.E+01 N	9.E+01 N	8.E-01 N								
Heptachlor	76-44-8	2.E+00 C	6.E+00 C	2.E+02 N	4.E-01 M								
Heptachlor Epoxide	1024-57-3	1.E+00 C	3.E+00 C	3.E+01 N	2.E-01 M								
Heptanal, n-	111-71-7			2.E+02 S	6.E+00 N	3.E+00 N	1.E+01 N	1.E+02 N	4.E+02 N	4.E+03 N	3.E+01 N	1.E+02 N	1.E+03 N
Heptane, n-	142-82-5			6.E+01 S	6.E+00 N	4.E+02 N	2.E+03 N	1.E+04 N	6.E+04 N	6.E+05 N	4.E+03 N	2.E+04 N	2.E+05 N

IDEM Published Levels Table 1 Human Health: Standard Exposure Scenarios	Medium >	SOIL			GROUNDWATER	INDOOR AIR		SOIL GAS OR CONDUIT VAPOR					
	Type >	Long Term		Short Term	Long Term	Long Term		Subslab/Deep Exterior/Conduit			Shallow Exterior/Utility Corridor		
	Land Use >	Res	Com	Exc	Res	Res	Com	Res	Com	Large Com	Res	Com	Large Com
	Units/Q >	mg/kg Q	mg/kg Q	mg/kg Q	µg/L Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q
Tribufos	78-48-8	2.E+01 N	2.E+02 N	3.E+02 N	6.E-01 N								
Tributyl Phosphate	126-73-8	8.E+02 C	3.E+03 C	2.E+04 N	5.E+01 C								
Tributyltin Compounds	E1790679	3.E+01 N	3.E+02 N	5.E+02 N	6.E+00 N								
Tributyltin Oxide	56-35-9	3.E+01 N	3.E+02 N	5.E+02 N	6.E+00 N								
Trichloramine	10025-85-1				4.E+03 M								
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1			9.E+02 S	1.E+04 M	5.E+03 N	2.E+04 N	2.E+05 N	7.E+05 N	7.E+06 N	5.E+04 N	2.E+05 N	2.E+06 N
Trichloroacetic Acid	76-03-9	1.E+02 C	3.E+02 C	2.E+04 C	6.E+01 M								
Trichloroaniline HCl, 2,4,6-	33663-50-2	3.E+02 C	8.E+02 C	4.E+04 C	3.E+01 C								
Trichloroaniline, 2,4,6-	634-93-5	3.E+00 N	3.E+01 N	5.E+01 N	4.E-01 N								
Trichlorobenzene, 1,2,3-	87-61-6	9.E+01 N	9.E+02 N	2.E+03 N	7.E+00 N								
Trichlorobenzene, 1,2,4-	120-82-1	8.E+01 N	3.E+02 N	4.E+02 S	7.E+01 M								
Trichloroethane, 1,1,1-	71-55-6			6.E+02 S	2.E+02 M	5.E+03 N	2.E+04 N	2.E+05 N	7.E+05 N	7.E+06 N	5.E+04 N	2.E+05 N	2.E+06 N
Trichloroethane, 1,1,2-	79-00-5			3.E+01 N	5.E+00 M	2.E-01 N	9.E-01 N	7.E+00 N	3.E+01 N	3.E+02 N	2.E+00 N	9.E+00 N	9.E+01 N
Trichloroethylene	79-01-6			1.E+02 N	5.E+00 M	2.E+00 N	9.E+00 N	7.E+01 N	3.E+02 N	3.E+03 N	2.E+01 N	9.E+01 N	9.E+02 N
Trichlorofluoromethane	75-69-4			1.E+03 S	5.E+03 N								
Trichlorophenol, 2,4,5-	95-95-4	9.E+03 N	8.E+04 N	1.E+05 L	1.E+03 N								
Trichlorophenol, 2,4,6-	88-06-2	9.E+01 N	8.E+02 N	2.E+03 N	1.E+01 N								
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	9.E+02 N	8.E+03 N	2.E+04 N	2.E+02 N								
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	7.E+02 N	7.E+03 N	1.E+04 N	5.E+01 M								
Trichloropropane, 1,1,2-	598-77-6			1.E+03 S	9.E+01 N								
Trichloropropane, 1,2,3-	96-18-4			5.E+01 C	8.E-03 C	3.E-01 N	1.E+00 N	1.E+01 N	4.E+01 N	4.E+02 N	3.E+00 N	1.E+01 N	1.E+02 N
Trichloropropene, 1,2,3-	96-19-5			2.E+01 N	6.E-01 N	3.E-01 N	1.E+00 N	1.E+01 N	4.E+01 N	4.E+02 N	3.E+00 N	1.E+01 N	1.E+02 N
Tricresyl Phosphate (TCP)	1330-78-5	2.E+03 N	2.E+04 N	3.E+04 N	2.E+02 N								
Triphane	58138-08-2	3.E+02 N	3.E+03 N	5.E+03 N	2.E+01 N								
Triethylamine	121-44-8			3.E+03 N	2.E+01 N	7.E+00 N	3.E+01 N	2.E+02 N	1.E+03 N	1.E+04 N	7.E+01 N	3.E+02 N	3.E+03 N
Triethylene Glycol	112-27-6	1.E+05 L	1.E+05 L	1.E+05 L	4.E+04 N								
Trifluoroethane, 1,1,1-	420-46-2			5.E+03 S	4.E+04 N	2.E+04 N	9.E+04 N	7.E+05 N	3.E+06 N	3.E+07 N	2.E+05 N	9.E+05 N	9.E+06 N
Trifluralin	1582-09-8	8.E+02 N	4.E+03 C	1.E+04 N	3.E+01 C								
Trimethyl Phosphate	512-56-1	4.E+02 C	1.E+03 C	2.E+04 N	4.E+01 C								
Trimethylbenzene, 1,2,3-	526-73-8			3.E+02 S	6.E+01 N	6.E+01 N	3.E+02 N	2.E+03 N	9.E+03 N	9.E+04 N	6.E+02 N	3.E+03 N	3.E+04 N
Trimethylbenzene, 1,2,4-	95-63-6			2.E+02 S	6.E+01 N	6.E+01 N	3.E+02 N	2.E+03 N	9.E+03 N	9.E+04 N	6.E+02 N	3.E+03 N	3.E+04 N
Trimethylbenzene, 1,3,5-	108-67-8			2.E+02 S	6.E+01 N	6.E+01 N	3.E+02 N	2.E+03 N	9.E+03 N	9.E+04 N	6.E+02 N	3.E+03 N	3.E+04 N
Trimethylpentene, 2,4,4-	25167-70-8			3.E+01 S	4.E+01 N								
Tri-n-butyltin	688-73-3	3.E+01 N	4.E+02 N	6.E+02 N	4.E+00 N								
Trinitrobenzene, 1,3,5-	99-35-4	3.E+03 N	3.E+04 N	6.E+04 N	6.E+02 N								
Trinitrotoluene, 2,4,6-	118-96-7	5.E+01 N	5.E+02 N	9.E+02 N	1.E+01 N								
Triphenylphosphine Oxide	791-28-6	2.E+03 N	2.E+04 N	3.E+04 N	4.E+02 N								
Tris(1,3-Dichloro-2-propyl) Phosphate	13674-87-8	2.E+03 N	2.E+04 N	3.E+04 N	4.E+02 N								
Tris(1-chloro-2-propyl)phosphate	13674-84-5	9.E+02 N	8.E+03 N	2.E+04 N	2.E+02 N								
Tris(2,3-dibromopropyl)phosphate	126-72-7	4.E+00 C	1.E+01 C	5.E+02 S	7.E-02 C								
Tris(2-chloroethyl)phosphate	115-96-8	4.E+02 C	1.E+03 C	1.E+04 N	4.E+01 C								
Tris(2-ethylhexyl)phosphate	78-42-2	2.E+03 C	7.E+03 C	1.E+05 L	2.E+02 C								
Tungsten	7440-33-7	9.E+01 N	9.E+02 N	2.E+03 N	2.E+01 N								
Uranium	7440-61-1	2.E+01 N	2.E+02 N	4.E+02 N	3.E+01 M								
Urethane	51-79-6	2.E+00 C	2.E+01 C	1.E+03 C	3.E-01 C								
Vanadium and Compounds	7440-62-2	5.E+02 N	6.E+03 N	1.E+04 N	9.E+01 N								
Vanadium Pentoxide	1314-62-1	9.E+02 N	8.E+03 N	2.E+04 N	2.E+02 N								
Vernolate	1929-77-7	1.E+02 N	1.E+03 N	2.E+03 N	1.E+01 N								
Vinclozolin	50471-44-8	1.E+02 N	1.E+03 N	2.E+03 N	2.E+01 N								
Vinyl Acetate	108-05-4			3.E+03 S	4.E+02 N	2.E+02 N	9.E+02 N	7.E+03 N	3.E+04 N	3.E+05 N	2.E+03 N	9.E+03 N	9.E+04 N
Vinyl Bromide	593-60-2			1.E+02 N	4.E+00 C	2.E+00 C	8.E+00 C	6.E+01 C	3.E+02 C	3.E+03 C	2.E+01 C	8.E+01 C	8.E+02 C
Vinyl Chloride	75-01-4			1.E+03 C	2.E+00 M	2.E+00 C	3.E+01 C	6.E+01 C	9.E+02 C	9.E+03 C	2.E+01 C	3.E+02 C	3.E+03 C
Warfarin	81-81-2	3.E+01 N	3.E+02 N	5.E+02 N	6.E+00 M								
Xylenes	1330-20-7			3.E+02 S	1.E+04 M	1.E+02 N	4.E+02 N	3.E+03 N	1.E+04 N	1.E+05 N	1.E+03 N	4.E+03 N	4.E+04 N
Zinc and Compounds	7440-66-6	3.E+04 N	1.E+05 L	1.E+05 L	6.E+03 N								
Zinc Cyanide	557-21-1	5.E+03 N	6.E+04 N	1.E+05 N	1.E+03 N								
Zinc Phosphide	1314-84-7	3.E+01 N	4.E+02 N	6.E+02 N	6.E+00 N								
Zinc	12122-67-7	4.E+03 N	4.E+04 N	9.E+04 N	1.E+03 N								
Zirconium	7440-67-7	9.E+00 N	9.E+01 N	2.E+02 N	2.E+00 N								

IDEM derives the levels in Table 1 as described in IDEM's Risk-based Closure Guide Chapter 3 and Appendix A assuming a total HQ of 1 and a risk level of 10⁻⁵. Exceedance of IDEM's published levels indicates that further evaluation of potential exposure risk is appropriate.

- C = Carcinogenic endpoint
- L = Capped at 100,000 mg/kg (soil direct contact only)
- M = Set to maximum contaminant limit (MCL; ground water only)
- mg/kg = milligrams per kilogram
- N = Noncarcinogenic endpoint
- S = Capped at soil saturation limit
- µg/L = micrograms per liter; µg/m³ = micrograms per cubic meter

IDEM generally considers shallow soil gas to include samples collected no more than five feet below ground surface, and deep soil gas samples to include samples collected at more than five feet below ground surface.

APENDIX B

EPA Response Letter dated May 30, 2023

May 18, 2023

Thomas Alcamo
USEPA Region V
77 W. Jackson Blvd.
Chicago, IL 60604
Alcamo.thomas@epa.gov

RE: Fill Import Evaluation of Chicago Transit Authority (CTA) Redline Project Fill Source for USS Lead Superfund Site Known as OU1, Modified Zone 1 (the Property), East Chicago, Lake County, State of Indiana; 15773.0051.

Dear Mr. Alcamo:

Verdantas LLC (Verdantas), on behalf of the "Purchaser" Industrial Development Advantage of East Chicago, LLC (IDA), has prepared this fill evaluation memo for a potential source of fill material for use on the Property.

Potential Fill Import Use

In accordance with the RD/RA Work Plan for the Property (Verdantas document 15773.0001) excavation is required to remove contaminated soils that exceed the industrial/commercial remedial action levels for lead and arsenic by removing the upper one foot of material. Following the removal of contaminated soils, the excavations will be backfilled and graded with clean fill in accordance with the Design Criteria Report. The criteria for acceptance of material to potentially fill these excavations created from the remedy are described in the Fill Import Plan. This memo discusses the use of existing data to support the applicability of Chicago Transit Authority (CTA) Redline Project fill source for the USS Lead site. Per the approved Fill Import Plan, imported fill must meet the Indiana Department of Environmental Management (IDEM) 2023 R2 Residential Long Term Published Levels for all analytical parameters except for arsenic (19 mg/kg) and lead (400 mg/kg).

Potential Import Fill Material Characteristics

Source Location

The potential import material will be excavated as part of infrastructure improvements being completed by the CTA near downtown Chicago. Specifically, Verdantas is recommending approval of a fill source for a portion of the CTA Redline upgrade project between the Ainsle Street crossing and the Berwin Station (Project Area) as illustrated in Figure 1. This segment is approximately 2600 feet in length and is part of a larger 1.3-mile project where CTA plans to reconstruct existing rail line for expansion, modernization, and accessibility according to the Americans with Disabilities Act.

Physical Properties

As part of the work being completed by CTA, several environmental soil investigations have been completed along the 1.3 miles of existing rail line within the Project Area. Relevant portions of the data set were used to support the fill import certification. These investigations include:

- Preliminary Soils Investigation, GSG Consultants, Inc., May 2015, Attachment A;
- Supplemental Soils Investigation, GSG Consultants, Inc., February 2017, Attachment B; and
- Uncontaminated Soil Certification, K-Plus Engineering Services, August 6, 2021, Attachment C.

Boring logs included in the GSG and K-Plus environmental reports indicate that the soils from the ground surface to a depth of approximately 4-5 feet within the Project Area consist of loose, coarse grained, black to brown to orange, sand with cinders and brick fragments indicating this material was placed here as fill to meet the current grade. Beneath the fill, the native soils consist of sand and silty clay. Geotechnical information including moisture content, grain size, and grain size distribution can be found in the above referenced documents.

Chemical Properties

Approximately 40 soil samples were collected for laboratory analysis during the May 2015, June 2015, and February 2017 soil investigations within the Project Area, including SB-20 through SB-27, SB-40 through SB-44, SB-46 and SB-47. These data are summarized on Table 1 and shown on Figure 2. Each soil sample was analyzed for one or more of the following parameters:

- Volatile organic compounds (VOCs);
- Semi-volatile organic compounds (SVOCs);
- Polycyclic aromatic hydrocarbons (PAHs);
- Inorganic compounds (including metals);
- Organic compounds (pesticides, herbicides, etc.); and
- Polychlorinated biphenyls (PCBs).

A sampling plan was prepared by GSG Consultants, Inc. on behalf of CTA to select the appropriate analysis for each soil sample to address the regulated substances or environmental hazards within the project limits based on the Hazardous Materials Technical Memorandum prepared by CTG in May 2012. These data contained in the GSG Consultants, Inc. reports are from 2014, 2015 and 2017 and are not being solely relied upon to certify that soils meet the fill import criteria. However, these data provide credible weight of evidence that the more recent data from 2021 are representative of the subsurface soils as described below.

K-Plus Engineering Services completed a subsurface investigation in June and July 2021 which included 10 borings within the Project Area with a total of 11 soil samples submitted for laboratory analysis. Each soil sample was analyzed for VOCs, SVOCs, 8-RCRA metals, and pH. A summary of the data from this investigation is included as Table 2 and

laboratory reports are included as Attachment C. As seen in Table 2, no VOCs, SVOCs, or RCRA metals were detected above the IDEM R2 2023 Residential Long Term Published Levels. The K-Plus data are the most recent dataset and are being used to meet the fill acceptance criterion.

Potential Import Fill Profile

Verdantas is requesting approval for approximately 28,000 cubic yards of fill material characterized in 2021 data and summarized in Tables 1 and 2 and illustrated on Figure 2. According to the K-Plus August 6, 2021 Uncontaminated Soil Certification submittal it states that the upper 4-5 feet will be disposed as solid waste and the remaining soils meet CCDD criteria. Analytical for soils below five feet are being used to characterize this material for acceptable fill. The analytical data for the Project Area meet the criterion in the Fill Import Plan for use at the USS Lead Property. Cross sections illustrating the areas to be disposed as solid waste and the material proposed for use as acceptable fill for the USS Lead site are shown in Attachment C, outlined in red and green, respectively. A total of 51 soil samples were analyzed within the Project Area which represents approximately 28,000 cubic yards of fill or 1 sample for every 560 cubic yards. This meets the criteria of the Fill Import Plan which requires 2 samples for every 4,000 cubic yards. As such, we recommend approval of this source for import to the Property.

Sincerely,
VERDANTAS LLC

A handwritten signature in black ink, appearing to read "David B. Mustafaga".

David B. Mustafaga, PG, CPG
Senior Consultant

Attachments

cc: Steve Radel and Brett Hickman, IDA
Anne Viner, Corporate Law Partners, PLLC
David Richards, PE, Verdantas LLC

TABLES

DRAFT

TABLE 1
SOIL CHARACTERIZATION
CTA REDLINE UPGRADE PROJECT (AINSLE TO BERWYN STATION)
CHICAGO, ILLINOIS
SOIL SAMPLE ANALYTICAL RESULTS, GSG CONULTANTS, INC. JUNE 2015 AND FEBRUARY 2017 (mg/kg)

VOCs	2023 IDEM R2 Residential Long-Term	IDEM 2022 Residential Remedial Closure Guide Screening Level	RPM-SB-21-1	RPM-SB-21-2	RPM-SB-23-1	RPM-SB-23-2	RPM-SB-26-1	RPM-SB-26-2	RPM-SB-27-2	RPM-SB-40-1	RPM-SB-40-2	RPM-SB-40-3	RPM-SB-41-1	RPM-SB-41-2	RPM-SB-41-3	RPM-SB-42-1	
			1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/22/2015	1/22/2015	12/12/2014	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016
			1-3 feet	6-8 feet	1-3 feet	6-8 feet	1-3 feet	7-9 feet	6-8 feet	1-3 feet	7-9 feet	12-14 feet	1-3 feet	8-10 feet	13-15 feet	1-3 feet	
Acetone	NS	NA	< 0.10	< 0.22	< 0.12	< 0.16	< 0.082	< 0.086	< 0.093	< 0.074	< 0.085	< 0.075	< 0.12	< 0.086	< 0.083	< 0.089	
Benzene	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
Bromodichloromethane	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
Bromoform	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
Bromomethane	NS	NA	< 0.014	< 0.030	< 0.016	< 0.021	< 0.011	< 0.011	< 0.012	< 0.0098	< 0.011	< 0.0099	< 0.016	< 0.011	< 0.011	< 0.012	
2-Butanone	NS	NA	< 0.10	< 0.22	< 0.12	< 0.16	< 0.082	< 0.086	< 0.093	< 0.074	< 0.085	< 0.075	< 0.12	< 0.086	< 0.083	< 0.089	
Carbon disulfide	NS	NA	< 0.068	< 0.15	< 0.078	< 0.11	< 0.054	< 0.057	< 0.062	< 0.049	< 0.056	< 0.050	< 0.082	< 0.057	< 0.055	< 0.059	
Carbon tetrachloride	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
Chlorobenzene	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
Chloroethane	NS	NA	< 0.014	< 0.030	< 0.016	< 0.021	< 0.011	< 0.011	< 0.012	< 0.0098	< 0.011	< 0.0099	< 0.016	< 0.011	< 0.011	< 0.012	
Chloroform	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
Chloromethane	NS	NA	< 0.014	< 0.030	< 0.016	< 0.021	< 0.011	< 0.011	< 0.012	< 0.0098	< 0.011	< 0.0099	< 0.016	< 0.011	< 0.011	< 0.012	
Dibromochloromethane	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
1,1-Dichloroethane	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
1,2-Dichloroethane	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
1,1-Dichloroethene	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
cis-1,2-Dichloroethene	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
trans-1,2-Dichloroethene	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
1,2-Dichloropropane	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
cis-1,3-Dichloropropene	NS	NA	< 0.0027	< 0.0059	< 0.0031	< 0.0043	< 0.0022	< 0.0023	< 0.0025	< 0.0020	< 0.0023	< 0.0020	< 0.0033	< 0.0023	< 0.0022	< 0.0024	
trans-1,3-Dichloropropene	NS	NA	< 0.0027	< 0.0059	< 0.0031	< 0.0043	< 0.0022	< 0.0023	< 0.0025	< 0.0020	< 0.0023	< 0.0020	< 0.0033	< 0.0023	< 0.0022	< 0.0024	
Ethylbenzene	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
2-Hexanone	NS	NA	< 0.027	< 0.059	< 0.031	< 0.043	< 0.022	< 0.023	< 0.025	< 0.020	< 0.023	< 0.020	< 0.033	< 0.023	< 0.022	< 0.024	
4-Methyl-2-pentanone	NS	NA	< 0.027	< 0.059	< 0.031	< 0.043	< 0.022	< 0.023	< 0.025	< 0.020	< 0.023	< 0.020	< 0.033	< 0.023	< 0.022	< 0.024	
Methylene chloride	NS	NA	< 0.014	< 0.030	< 0.016	< 0.021	< 0.011	< 0.011	< 0.012	< 0.0098	< 0.011	< 0.0099	< 0.016	< 0.011	< 0.011	< 0.012	
Methyl tert-butyl ether	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
Styrene	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
1,1,2,2-Tetrachloroethane	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
Tetrachloroethene	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
Toluene	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
1,1,1-Trichloroethane	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
1,1,2-Trichloroethane	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
Trichloroethene	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
Vinyl chloride	NS	NA	< 0.0068	< 0.015	< 0.0078	< 0.011	< 0.0054	< 0.0057	< 0.0062	< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055	< 0.0059	
Xylenes, Total	NS	NA	< 0.020	< 0.044	< 0.023	< 0.032	< 0.016	< 0.017	< 0.019	< 0.015	< 0.017	< 0.015	< 0.025	< 0.017	< 0.017	< 0.018	

VOCs	2023 IDEM R2 Residential Long-Term	IDEM 2022 Residential Remedial Closure Guide Screening Level	RPM-SB-42-2	RPM-SB-42-3	RPM-SB-43-1	RPM-SB-43-2	RPM-SB-43-3	RPM-SB-44-1	RPM-SB-44-2	RPM-SB-44-3	RPM-SB-46-1	RPM-SB-46-2	RPM-SB-46-3	RPM-SB-47-1	RPM-SB-47-2	RPM-SB-47-3	
			12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016
			7-9 feet	12-14 feet	2-4 feet	7-9 feet	12-14 feet	1-3 feet	8-10 feet	11-13 feet	1-3 feet	8-10 feet	12-14 feet	2-4 feet	6-8 feet	12-14 feet	
Acetone	NS	NA	< 0.089	< 0.076	< 0.10	< 0.085	< 0.080	< 0.12	< 0.085	< 0.087	< 0.085	< 0.088	< 0.085	< 0.11	< 0.082	< 0.081	
Benzene	NS	NA	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053	< 0.0078	< 0.0057	< 0.0058	< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054	
Bromodichloromethane	NS	NA	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053	< 0.0078	< 0.0057	< 0.0058	< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054	
Bromoform	NS	NA	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053	< 0.0078	< 0.0057	< 0.0058	< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054	
Bromomethane	NS	NA	< 0.012	< 0.010	< 0.014	< 0.011	< 0.011	< 0.016	< 0.011	< 0.012	< 0.011	< 0.012	< 0.011	< 0.014	< 0.011	< 0.011	
2-Butanone	NS	NA	< 0.089	< 0.076	< 0.10	< 0.085	< 0.080	< 0.12	< 0.085	< 0.087	< 0.085	< 0.088	< 0.085	< 0.11	< 0.082	< 0.081	
Carbon disulfide	NS	NA	< 0.059	< 0.051	< 0.069	< 0.056	< 0.053	< 0.078	< 0.057	< 0.058	< 0.057	< 0.059	< 0.057	< 0.071	< 0.055	< 0.054	
Carbon tetrachloride	NS	NA	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053	< 0.0078	< 0.0057	< 0.0058	< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054	
Chlorobenzene	NS	NA	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053	< 0.0078	< 0.0057	< 0.0058	< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054	
Chloroethane	NS	NA	< 0.012	< 0.010	< 0.014	< 0.011	< 0.011	< 0.016	< 0.011	< 0.012	< 0.011	< 0.012	< 0.011	< 0.014	< 0.011	< 0.011	
Chloroform	NS	NA	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053	< 0.0078	< 0.0057	< 0.0058	< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054	
Chloromethane	NS	NA	< 0.012	< 0.010	< 0.014	< 0.011	< 0.011	< 0.016	< 0.011	< 0.012	< 0.011	< 0.012	< 0.011	< 0.014	< 0.011	< 0.011	
Dibromochloromethane	NS	NA	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053	< 0.0078	< 0.0057	< 0.0058	< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054	
1,1-Dichloroethane	NS	NA	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053	< 0.0078	< 0.0057	< 0.0058	< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054	
1,2-Dichloroethane	NS	NA	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053	< 0.0078	< 0.0057	< 0.0058	< 0.0057	< 0					

**TABLE 1
SOIL CHARACTERIZATION
CTA REDLINE UPGRADE PROJECT (AINSLE TO BERWYN STATION)
CHICAGO, ILLINOIS
SOIL SAMPLE ANALYTICAL RESULTS, GSG CONULTANTS, INC. JUNE 2015 AND FEBRUARY 2017 (mg/kg)**

SVOCs	2023 IDEM R2 Residential Long-Term	IDEM 2022 Residential Remedial Closure Guide Screening Level	RPM-SB-20-1	RPM-SB-20-2	RPM-SB-21-1	RPM-SB-21-2	RPM-SB-21-3	RPM-SB-22-1	RPM-SB-22-2	RPM-SB-23-1	RPM-SB-23-2	RPM-SB-23-3	RPM-SB-24-1	RPM-SB-24-2	RPM-SB-25-1	RPM-SB-25-2	
			12/11/2014	12/11/2014	1/20/2015	1/20/2015	1/20/2015	12/11/2014	12/11/2014	1/20/2015	1/20/2015	1/20/2015	12/11/2014	12/11/2014	12/11/2014	12/11/2014	12/11/2014
			1-3 feet	8-10 feet	1-3 feet	6-8 feet	13-15 feet	1-3 feet	6-8 feet	1-3 feet	6-8 feet	12-14 feet	1-3 feet	7-9 feet	1-3 feet	8-10 feet	
Aniline	NS		NA	NA	< 0.36	NA	NA	NA	NA	< 0.37	< 0.39	NA	NA	NA	NA	NA	
Benzidine	NS		NA	NA	< 0.35	NA	NA	NA	NA	< 0.36	< 0.38	NA	NA	NA	NA	NA	
Benzoic acid	NS		NA	NA	< 0.89	NA	NA	NA	NA	< 0.91	< 0.96	NA	NA	NA	NA	NA	
Benzyl alcohol	NS		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Bis(2-chloroethoxy)methane	300		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Bis(2-chloroethyl)ether	0		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Bis(2-ethylhexyl)phthalate	500		NA	NA	< 0.89	NA	NA	NA	NA	< 0.91	< 0.96	NA	NA	NA	NA	NA	
4-Bromophenyl phenyl ether	0		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Butyl benzyl phthalate	4000		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Carbazole	NS	NS	NA	NA	< 0.18	NA	NA	NA	NA	0.50	< 0.20	NA	NA	NA	NA	NA	
4-Chloroaniline	40		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
4-Chloro-3-methylphenol	9000		NA	NA	< 0.35	NA	NA	NA	NA	< 0.36	< 0.38	NA	NA	NA	NA	NA	
2-Chloronaphthalene	7000		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2-Chlorophenol	NS		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
4-Chlorophenyl phenyl ether	NS		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Dibenzofuran	100		NA	NA	< 0.18	NA	NA	NA	NA	0.22	< 0.20	NA	NA	NA	NA	NA	
1,2-Dichlorobenzene	NS		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
1,3-Dichlorobenzene	NS		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
1,4-Dichlorobenzene	NS		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
3,3'-Dichlorobenzidine	20		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2,4-Dichlorophenol	300		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Diethyl phthalate	70000		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2,4-Dimethylphenol	2000		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Dimethyl phthalate	NS		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
4,6-Dinitro-2-methylphenol	7		NA	NA	< 0.35	NA	NA	NA	NA	< 0.36	< 0.38	NA	NA	NA	NA	NA	
2,4-Dinitrophenol	200		NA	NA	< 0.89	NA	NA	NA	NA	< 0.91	< 0.96	NA	NA	NA	NA	NA	
2,4-Dinitrotoluene	20		NA	NA	< 0.035	NA	NA	NA	NA	< 0.036	< 0.038	NA	NA	NA	NA	NA	
2,6-Dinitrotoluene	5		NA	NA	< 0.035	NA	NA	NA	NA	< 0.036	< 0.038	NA	NA	NA	NA	NA	
Di-n-butyl phthalate	9000		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Di-n-octyl phthalate	900		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Hexachlorobenzene	1		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Hexachlorobutadiene	20		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Hexachlorocyclopentadiene	3		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Hexachloroethane	30		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Isophorone	8000		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2-Methylnaphthalene	300		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2-Methylphenol	4000		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
4-Methylphenol	NS		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2-Nitroaniline	900		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
3-Nitroaniline	NS		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
4-Nitroaniline	400		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2-Nitrophenol	NS		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
4-Nitrophenol	NS		NA	NA	< 0.35	NA	NA	NA	NA	< 0.36	< 0.38	NA	NA	NA	NA	NA	
Nitrobenzene	70		NA	NA	< 0.035	NA	NA	NA	NA	< 0.036	< 0.038	NA	NA	NA	NA	NA	
N-Nitrosodimethylamine	1		NA	NA	< 0.035	NA	NA	NA	NA	< 0.036	< 0.038	NA	NA	NA	NA	NA	
N-Nitrosodiphenylamine	2000		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2, 2'-oxybis(1-Chloropropane)	1000		NA	NA	< 0.035	NA	NA	NA	NA	< 0.036	< 0.038	NA	NA	NA	NA	NA	
Phenol	30000		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Pyridine	NS		NA	NA	< 0.035	NA	NA	NA	NA	< 0.036	< 0.038	NA	NA	NA	NA	NA	
1,2,4-Trichlorobenzene	80		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2,4,5-Trichlorophenol	9000		NA	NA	< 0.72	NA	NA	NA	NA	< 0.74	< 0.78	NA	NA	NA	NA	NA	
2,4,6-Trichlorophenol	90		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
N-Nitrosodi-n-propylamine	2000		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Pentachlorophenol	10		NA	NA	< 0.18	NA	NA	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	

TABLE 1
SOIL CHARACTERIZATION
CTA REDLINE UPGRADE PROJECT (AINSLE TO BERWYN STATION)
CHICAGO, ILLINOIS
SOIL SAMPLE ANALYTICAL RESULTS, GSG CONULTANTS, INC. JUNE 2015 AND FEBRUARY 2017 (mg/kg)

SVOCs	2023 IDEM R2 Residential Long-Term	IDEM 2022 Residential Remedial Closure Guide Screening Level	RPM-SB-26-1	RPM-SB-26-2	RPM-SB-26-3	RPM-SB-27-1	RPB-SB-40-2	RPB-SB-42-1	RPB-SB-43-1	RPB-SB-44-2	RPB-SB-46-1
			1/22/2015 1-3 feet	1/22/2015 7-9 feet	1/22/2015 12-14 feet	12/12/2014 1-3 feet	12/21/2016 7-9 feet	12/21/2016 1-3 feet	12/21/2016 2-4 feet	12/20/2016 8-10 feet	12/20/2016 1-3 feet
Aniline	NS		< 0.36	NA	NA	NA	< 0.35	< 0.38	< 0.37	< 0.35	< 0.38
Benzidine	NS		< 0.36	NA	NA	NA	< 0.35	< 0.38	< 0.37	< 0.35	< 0.38
Benzoic acid	NS		< 0.91	NA	NA	NA	< 0.87	< 0.95	< 0.93	< 0.87	< 0.95
Benzyl alcohol	NS		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
Bis(2-chloroethoxy)methane	300		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
Bis(2-chloroethyl)ether	0		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
Bis(2-ethylhexyl)phthalate	500		< 0.91	NA	NA	NA	< 0.87	< 0.95	< 0.93	< 0.87	< 0.95
4-Bromophenyl phenyl ether	0		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
Butyl benzyl phthalate	4000		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
Carbazole	NS		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
4-Chloroaniline	40		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
4-Chloro-3-methylphenol	9000		< 0.36	NA	NA	NA	< 0.35	< 0.38	< 0.37	< 0.35	< 0.38
2-Chloronaphthalene	7000		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
2-Chlorophenol	NS		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
4-Chlorophenyl phenyl ether	NS		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
Dibenzofuran	100		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
1,2-Dichlorobenzene	NS		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
1,3-Dichlorobenzene	NS		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
1,4-Dichlorobenzene	NS		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
3,3'-Dichlorobenzidine	20		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
2,4-Dichlorophenol	300		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
Diethyl phthalate	70000		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
2,4-Dimethylphenol	2000		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
Dimethyl phthalate	NS		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
4,6-Dinitro-2-methylphenol	7		< 0.36	NA	NA	NA	< 0.35	< 0.38	< 0.37	< 0.35	< 0.38
2,4-Dinitrophenol	200		< 0.91	NA	NA	NA	< 0.87	< 0.95	< 0.93	< 0.87	< 0.95
2,4-Dinitrotoluene	20		< 0.036	NA	NA	NA	< 0.035	< 0.038	< 0.037	< 0.035	< 0.038
2,6-Dinitrotoluene	5		< 0.036	NA	NA	NA	< 0.035	< 0.038	< 0.037	< 0.035	< 0.038
Di-n-butyl phthalate	9000		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
Di-n-octyl phthalate	900		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
Hexachlorobenzene	1		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
Hexachlorobutadiene	20		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
Hexachlorocyclopentadiene	3		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
Hexachloroethane	30		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
Isophorone	8000		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
2-Methylnaphthalene	300		0.33	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
2-Methylphenol	4000		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
4-Methylphenol	NS		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
2-Nitroaniline	900		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
3-Nitroaniline	NS		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
4-Nitroaniline	400		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
2-Nitrophenol	NS		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
4-Nitrophenol	NS		< 0.36	NA	NA	NA	< 0.35	< 0.38	< 0.37	< 0.35	< 0.38
Nitrobenzene	70		< 0.036	NA	NA	NA	< 0.035	< 0.038	< 0.037	< 0.035	< 0.038
N-Nitrosodimethylamine	1		< 0.036	NA	NA	NA	< 0.035	< 0.038	< 0.037	< 0.035	< 0.038
N-Nitrosodiphenylamine	2000		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
2, 2'-oxybis(1-Chloropropane)	1000		< 0.036	NA	NA	NA	< 0.035	< 0.038	< 0.037	< 0.035	< 0.038
Phenol	30000		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
Pyridine	NS		< 0.036	NA	NA	NA	< 0.035	< 0.038	< 0.037	< 0.035	< 0.038
1,2,4-Trichlorobenzene	80		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
2,4,5-Trichlorophenol	9000		< 0.73	NA	NA	NA	< 0.70	< 0.77	< 0.75	< 0.70	< 0.77
2,4,6-Trichlorophenol	90		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
N-Nitrosodi-n-propylamine	2000		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19
Pentachlorophenol	10		< 0.19	NA	NA	NA	< 0.18	< 0.19	< 0.19	< 0.18	< 0.19

TABLE 1
SOIL CHARACTERIZATION
CTA REDLINE UPGRADE PROJECT (AINSLIE TO BERWYN STATION)
CHICAGO, ILLINOIS
SOIL SAMPLE ANALYTICAL RESULTS, GSG CONSULTANTS, INC. JUNE 2015 AND FEBRUARY 2017 (mg/kg)

PAH	2023 IDEM R2 Residential Long-Term	IDEM 2022 Residential Remedial Closure Guide Screening Level	RPM-SB-20-1	RPM-SB-20-2	RPM-SB-21-1	RPM-SB-21-2	RPM-SB-21-3	RPM-SB-22-1	RPM-SB-22-2	RPM-SB-23-1	RPM-SB-23-2	RPM-SB-23-3	RPM-SB-24-1	RPM-SB-24-2	RPM-SB-25-1	RPM-SB-25-2	
			12/11/2014	12/11/2014	1/20/2015	1/20/2015	1/20/2015	12/11/2014	12/11/2014	1/20/2015	1/20/2015	1/20/2015	12/11/2014	12/11/2014	12/11/2014	12/11/2014	12/11/2014
Acenaphthene	5000	NA	< 0.035	< 0.035	< 0.035	< 0.035	< 0.038	< 0.038	< 0.036	< 0.034	0.68	< 0.038	< 0.035	0.054	< 0.040	< 0.034	< 0.036
Acenaphthylene	NS	NS	< 0.035	< 0.035	< 0.035	< 0.038	< 0.038	< 0.036	< 0.034	0.72	< 0.038	< 0.035	0.067	< 0.040	< 0.034	< 0.036	
Anthracene	30000	NA	< 0.035	< 0.035	0.045	< 0.038	< 0.038	< 0.036	< 0.034	2.6	0.14	0.079	0.19	< 0.040	< 0.034	< 0.036	
Benz(a)anthracene	20	NA	< 0.035	< 0.035	0.11	0.058	< 0.038	0.062	< 0.034	6.7	0.69	0.26	0.76	< 0.040	< 0.034	< 0.036	
Benzo(a)pyrene	2	NA	< 0.035	< 0.035	0.12	0.090	< 0.038	0.051	< 0.034	5.6	0.78	0.30	0.82	< 0.040	< 0.034	< 0.036	
Benzo(b)fluoranthene	20	NA	< 0.035	< 0.035	0.14	0.10	< 0.038	0.048	< 0.034	4.8	0.84	0.26	0.89	< 0.040	< 0.034	< 0.036	
Benzo(g,h,i)perylene	NS	NS	< 0.035	< 0.035	0.099	0.084	< 0.038	0.050	< 0.034	3.2	0.68	0.19	0.61	< 0.040	< 0.034	0.053	
Benzo(k)fluoranthene	200	NA	< 0.035	< 0.035	0.10	0.075	< 0.038	0.055	< 0.034	4.6	0.59	0.26	0.53	< 0.040	< 0.034	< 0.036	
Chrysene	2000	NA	< 0.035	< 0.035	0.14	0.096	< 0.038	0.065	< 0.034	6.5	0.68	0.33	0.81	< 0.040	< 0.034	< 0.036	
Dibenz(a,h)anthracene	2	NA	< 0.035	< 0.035	< 0.035	< 0.038	< 0.038	< 0.036	< 0.034	1.7	0.29	0.10	0.27	< 0.040	< 0.034	< 0.036	
Fluoranthene	3000	NA	< 0.035	< 0.035	0.17	0.11	< 0.038	0.11	< 0.034	14	0.93	0.54	1.6	< 0.040	< 0.034	0.041	
Fluorene	3000	NA	< 0.035	< 0.035	< 0.035	< 0.038	< 0.038	< 0.036	< 0.034	0.60	0.051	< 0.035	0.049	< 0.040	< 0.034	< 0.036	
Indeno(1,2,3-cd)pyrene	20	NA	< 0.035	< 0.035	0.075	0.067	< 0.038	0.041	< 0.034	3.2	0.62	0.20	0.54	< 0.040	< 0.034	< 0.036	
Naphthalene	30	NA	< 0.035	< 0.035	< 0.035	< 0.038	< 0.038	< 0.036	< 0.034	0.060	0.089	< 0.035	< 0.035	< 0.040	< 0.034	< 0.036	
Phenanthrene	NS	NS	< 0.035	< 0.035	0.069	0.060	< 0.038	0.062	< 0.034	7.3	0.34	0.26	0.86	< 0.040	< 0.034	< 0.036	
Pyrene	3000	NA	< 0.035	< 0.035	0.16	0.092	< 0.038	0.094	< 0.034	12	1.1	0.57	1.3	< 0.040	< 0.034	0.038	

PAH	2023 IDEM R2 Residential Long-Term	IDEM 2022 Residential Remedial Closure Guide Screening Level	RPM-SB-26-1	RPM-SB-26-2	RPM-SB-26-3	RPM-SB-27-1	RPM-SB-27-2	RPB-SB-40-1	RPB-SB-40-2	RPB-SB-40-3	RPB-SB-41-1	RPB-SB-41-2	RPB-SB-41-3	RPB-SB-42-1	RPB-SB-42-2	RPB-SB-42-3
			1/23/2015	1/23/2015	1/23/2015	12/12/2014	12/12/2014	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016
Acenaphthene	5000	NA	< 0.036	< 0.041	0.14	< 0.038	< 0.038	< 0.035	< 0.035	< 0.038	< 0.040	< 0.035	< 0.040	< 0.038	< 0.034	< 0.039
Acenaphthylene	NS	NS	< 0.036	< 0.041	0.14	< 0.038	< 0.038	< 0.035	< 0.035	< 0.038	< 0.040	< 0.035	< 0.040	< 0.038	< 0.034	< 0.039
Anthracene	30000	NA	0.097	< 0.041	0.45	< 0.038	< 0.038	0.051	< 0.035	< 0.038	0.065	< 0.035	< 0.040	0.040	< 0.034	< 0.039
Benz(a)anthracene	20	NA	0.053	< 0.041	1.1	< 0.038	0.12	0.24	< 0.035	< 0.038	0.25	< 0.035	< 0.040	0.20	< 0.034	< 0.039
Benzo(a)pyrene	2	NA	0.061	< 0.041	0.94	< 0.038	0.11	0.24	< 0.035	< 0.038	0.28	< 0.035	< 0.040	0.23	< 0.034	< 0.039
Benzo(b)fluoranthene	20	NA	0.12	< 0.041	0.86	< 0.038	0.11	0.28	< 0.035	< 0.038	0.23	< 0.035	< 0.040	0.21	< 0.034	< 0.039
Benzo(g,h,i)perylene	NS	NS	0.12	< 0.041	0.43	< 0.038	0.065	0.18	< 0.035	< 0.038	0.30	< 0.035	< 0.040	0.17	< 0.034	< 0.039
Benzo(k)fluoranthene	200	NA	0.065	< 0.041	0.72	< 0.038	0.094	0.18	< 0.035	< 0.038	0.22	< 0.035	< 0.040	0.16	< 0.034	< 0.039
Chrysene	2000	NA	0.11	< 0.041	1.1	< 0.038	0.13	0.33	< 0.035	< 0.038	0.35	< 0.035	< 0.040	0.25	< 0.034	< 0.039
Dibenz(a,h)anthracene	2	NA	< 0.036	< 0.041	0.20	< 0.038	< 0.038	0.071	< 0.035	< 0.038	0.063	< 0.035	< 0.040	0.056	< 0.034	< 0.039
Fluoranthene	3000	NA	0.093	< 0.041	2.1	< 0.038	0.22	0.43	< 0.035	< 0.038	0.40	< 0.035	< 0.040	0.35	< 0.034	< 0.039
Fluorene	3000	NA	< 0.036	< 0.041	0.22	< 0.038	< 0.038	< 0.035	< 0.035	< 0.038	< 0.040	< 0.035	< 0.040	< 0.038	< 0.034	< 0.039
Indeno(1,2,3-cd)pyrene	20	NA	0.12	< 0.041	0.46	< 0.038	0.057	0.14	< 0.035	< 0.038	0.18	< 0.035	< 0.040	0.13	< 0.034	< 0.039
Naphthalene	30	NA	0.058	< 0.041	0.20	< 0.038	< 0.038	< 0.035	< 0.035	< 0.038	< 0.040	< 0.035	< 0.040	< 0.038	< 0.034	< 0.039
Phenanthrene	NS	NS	0.14	< 0.041	2.4	< 0.038	0.10	0.26	< 0.035	< 0.038	0.29	< 0.035	< 0.040	0.22	< 0.034	< 0.039
Pyrene	3000	NA	0.077	< 0.041	1.9	< 0.038	0.19	0.41	< 0.035	< 0.038	0.55	< 0.035	< 0.040	0.42	< 0.034	< 0.039

PAH	2023 IDEM R2 Residential Long-Term	IDEM 2022 Residential Remedial Closure Guide Screening Level	RPB-SB-43-1	RPB-SB-43-2	RPB-SB-43-3	RPB-SB-44-1	RPB-SB-44-2	RPB-SB-44-3	RPB-SB-47-1	RPB-SB-47-2	RPB-SB-47-3
			12/21/2016	12/21/2016	12/21/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016
Acenaphthene	5000	NA	0.12	< 0.034	< 0.039	0.083	< 0.035	< 0.038	< 0.038	< 0.036	< 0.038
Acenaphthylene	NS	NS	0.29	< 0.034	< 0.039	< 0.040	< 0.035	< 0.038	0.039	< 0.036	< 0.038
Anthracene	30000	NA	0.88	< 0.034	< 0.039	0.25	< 0.035	< 0.038	0.12	< 0.036	< 0.038
Benz(a)anthracene	20	NA	4.1	< 0.034	< 0.039	1.3	< 0.035	< 0.038	0.46	< 0.036	< 0.038
Benzo(a)pyrene	2	NA	4.0	< 0.034	< 0.039	1.3	< 0.035	< 0.038	0.43	< 0.036	< 0.038
Benzo(b)fluoranthene	20	NA	3.4	< 0.034	< 0.039	1.3	< 0.035	< 0.038	0.50	< 0.036	< 0.038
Benzo(g,h,i)perylene	NS	NS	2.4	< 0.034	< 0.039	0.85	< 0.035	< 0.038	0.31	< 0.036	< 0.038
Benzo(k)fluoranthene	200	NA	3.5	< 0.034	< 0.039	1.1	< 0.035	< 0.038	0.40	< 0.036	< 0.038
Chrysene	2000	NA	4.4	< 0.034	< 0.039	1.4	< 0.035	< 0.038	0.62	< 0.036	< 0.038
Dibenz(a,h)anthracene	2	NA	0.78	< 0.034	< 0.039	0.44	< 0.035	< 0.038	0.19	< 0.036	< 0.038
Fluoranthene	3000	NA	7.6	< 0.034	< 0.039	2.4	< 0.035	< 0.038	0.84	< 0.036	< 0.038
Fluorene	3000	NA	0.15	< 0.034	< 0.039	0.061	< 0.035	< 0.038	< 0.038	< 0.036	< 0.038
Indeno(1,2,3-cd)pyrene	20	NA	2.2	< 0.034	< 0.039	0.78	< 0.035	< 0.038	0.27	< 0.036	< 0.038
Naphthalene	30	NA	0.060	< 0.034	< 0.039	< 0.040	< 0.035	< 0.038	< 0.038	< 0.036	< 0.038
Phenanthrene	NS	NS	3.0	< 0.034	< 0.039	1.1	< 0.035	< 0.038	0.57	< 0.036	< 0.038
Pyrene	3000	NA	7.1	< 0.034	< 0.039	2.1	< 0.035	< 0.038	0.74	< 0.036	< 0.038

TABLE 1
SOIL CHARACTERIZATION
CTA REDLINE UPGRADE PROJECT (AINSLE TO BERWYN STATION)
CHICAGO, ILLINOIS
SOIL SAMPLE ANALYTICAL RESULTS, GSG CONLUANTS, INC. JUNE 2015 AND FEBRUARY 2017 (mg/kg)

	2023 IDEM R2 Residential Long-Term	IDEM 2022 Residential Remedial Closure Guide Screening Level	RPM-SB-20-1	RPM-SB-20-2	RPM-SB-21-1	RPM-SB-21-2	RPM-SB-21-3	RPM-SB-22-1	RPM-SB-22-2	RPM-SB-23-1	RPM-SB-23-2	RPM-SB-23-3	RPM-SB-24-1	RPM-SB-24-2	RPM-SB-25-1	RPM-SB-25-2	
			12/11/2014	12/11/2014	1/20/2015	1/20/2015	1/20/2015	12/11/2014	12/11/2014	1/20/2015	1/20/2015	1/20/2015	12/11/2014	12/11/2014	12/11/2014	12/11/2014	12/11/2014
			1-3 feet	8-10 feet	1-3 feet	6-8 feet	13-15 feet	1-3 feet	6-8 feet	1-3 feet	6-8 feet	1-3 feet	6-8 feet	12-14 feet	1-3 feet	7-9 feet	1-3 feet
Inorganics and pH																	
Aluminum	NS	100000	NA	NA	1,700	NA	NA	NA	NA	2,600	3,100	NA	NA	NA	NA	NA	
Antimony	NS	43	NA	NA	< 2.1	< 2.2	NA	NA	NA	4.3	< 2.4	NA	NA	NA	NA	NA	
Arsenic	19	NA	< 1.1	1.3	44	16	7.4	1.6	< 0.92	300	9.3	3.0	3.1	1.2	2.3	2.0	
Barium	20000	NA	4.7	4.3	16	NA	78	13	3.6	77	120	22	21	4.4	16	18	
Beryllium	NS	220	NA	NA	< 0.52	< 0.56	NA	NA	NA	< 0.47	< 0.60	NA	NA	NA	NA	NA	
Cadmium	10	NA	< 0.55	< 0.51	< 0.52	0.72	< 0.58	< 0.49	< 0.46	2.2	0.74	< 0.52	< 0.49	< 0.53	< 0.50	< 0.54	
Calcium	NS	NS	NA	NA	100,000	NA	NA	NA	NA	64,000	68,000	NA	NA	NA	NA	NA	
Chromium	NS	NS	4.7	3.4	5.4	33	12	6.1	3.1	22	7.8	7.8	7.4	3.2	6.3	7.9	
Cobalt	NS	32	NA	NA	3.2	NA	NA	NA	NA	7.4	4.0	NA	NA	NA	NA	NA	
Copper	NS	4300	NA	NA	25	63	NA	NA	NA	110	36	NA	NA	NA	NA	NA	
Cyanide	NS	32	NA	NA	< 0.27	NA	NA	NA	NA	< 0.28	< 0.29	NA	NA	NA	NA	NA	
Iron	NS	77000	NA	NA	13,000	NA	NA	NA	NA	41,000	11,000	NA	NA	NA	NA	NA	
Lead*	400	NA	2.8	6.3	880	88	11	6.1	3.2	310	150	34	140	3.3	4.2	8.3	
Magnesium	NS	NS	NA	NA	61,000	NA	NA	NA	NA	40,000	33,000	NA	NA	NA	NA	NA	
Manganese	NS	2500	NA	NA	290	NA	NA	NA	NA	450	200	NA	NA	NA	NA	NA	
Mercury	3	NA	< 0.021	< 0.018	< 0.021	< 0.021	< 0.022	< 0.020	< 0.020	0.13	0.11	< 0.021	0.077	< 0.023	< 0.018	< 0.019	
Nickel	NS	NS	NA	NA	9.5	51	NA	NA	NA	27	11	NA	NA	NA	NA	NA	
Potassium	NS	NS	NA	NA	390	NA	NA	NA	NA	400	500	NA	NA	NA	NA	NA	
Selenium	500	NA	< 0.55	< 0.51	< 0.52	< 0.05	0.69	< 0.49	< 0.46	1.1	0.8	0.62	< 0.49	< 0.53	< 0.50	< 0.54	
Silver	500	NA	< 1.1	< 1.0	< 1.0	< 1.1	< 1.2	< 0.99	< 0.92	< 0.93	< 1.2	< 1.0	< 0.99	< 1.1	< 1.0	< 1.1	
Sodium	NS	NS	NA	NA	120	NA	NA	NA	NA	96	210	NA	NA	NA	NA	NA	
Thallium	NS	NS	NA	NA	< 1.0	< 1.1	NA	NA	NA	< 0.93	< 1.2	NA	NA	NA	NA	NA	
Vanadium	NS	550	NA	NA	8.6	NA	NA	NA	NA	20	16	NA	NA	NA	NA	NA	
Zinc	NS	32000	NA	NA	24	170	NA	NA	NA	220	110	NA	NA	NA	NA	NA	
TCLP LEAD	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.01	NA	NA	NA	NA	NA	NA	
pH	NS	NA	NA	NA	8.6	NA	NA	NA	NA	7.9	7.8	NA	NA	NA	NA	NA	

**TABLE 1
SOIL CHARACTERIZATION
CTA REDLINE UPGRADE PROJECT (AINSLE TO BERWYN STATION)
CHICAGO, ILLINOIS
SOIL SAMPLE ANALYTICAL RESULTS, GSG CONULTANTS, INC. JUNE 2015 AND FEBRUARY 2017 (mg/kg)**

	2023 IDEM R2 Residential Long-Term	IDEM 2022 Residential Remedial Closure Guide Screening Level	RPM-SB-26-1	RPM-SB-26-2	RPM-SB-26-3	RPM-SB-27-1	RPM-SB-27-2	RPB-SB-40-1	RPB-SB-40-2	RPB-SB-40-3	RPB-SB-41-1	RPB-SB-41-2	RPB-SB-41-3	RPB-SB-42-1	RPB-SB-42-2	RPB-SB-42-3
			1/23/2015 1-3 feet	1/23/2015 7-9 feet	1/23/2015 12-14 feet	12/12/2014 1-3 feet	12/12/2014 6-8 feet	12/21/2016 1-3 feet	12/21/2016 7-9 feet	12/21/2016 12-14 feet	12/21/2016 1-3 feet	12/21/2016 8-10 feet	12/21/2016 13-15 feet	12/21/2016 1-3 feet	12/21/2016 7-9 feet	12/21/2016 12-14 feet
Inorganics and pH																
Aluminum	NS	100000	5,200	NA	NA	NA	1,100	3,200	1,800	NA	3,800	1,300	NA	3,600	1,300	NA
Antimony	NS	43	4.7	NA	NA	< 2.1	< 2.3	< 3.8	< 3.8	NA	< 4.4	< 3.6	NA	< 4.0	< 3.8	NA
Arsenic	19	NA	290	11	27	7.0	< 1.1	1.0	1.7	89	< 0.89	2.6	7.0	< 0.95	1.2	NA
Barium	20000	NA	67	110	150	NA	4.9	130	5.8	3.0	270	4.7	5.3	200	4.3	2.8
Beryllium	NS	220	0.64	NA	NA	0.63	< 0.57	< 0.47	< 0.48	NA	0.85	< 0.45	NA	< 0.51	< 0.47	NA
Cadmium	10	NA	2.2	< 0.59	3.1	0.59	< 0.57	< 0.47	< 0.48	< 0.52	< 0.55	< 0.45	< 0.54	< 0.51	< 0.47	< 0.53
Calcium	NS	NS	63,000	NA	NA	NA	33,000	27,000	61,000	NA	12,000	41,000	NA	22,000	37,000	NA
Chromium	NS	NS	25	16	13	16	3.9	7.6	6.1	2.9	9.5	4.5	5.0	7.0	4.5	2.5
Cobalt	NS	32	6.3	NA	NA	NA	2.4	4.4	3.2	NA	6.6	1.4	NA	3.3	1.7	NA
Copper	NS	4300	110	NA	NA	15	3.5	27	2.9	NA	41	2.5	NA	85	< 2.4	NA
Cyanide	NS	32	< 0.28	NA	NA	NA	< 0.29	< 0.26	< 0.26	NA	< 0.30	< 0.26	NA	< 0.29	< 0.26	NA
Iron	NS	77000	48,000	NA	NA	NA	3,000	8,300	5,000	NA	12,000	4,000	NA	8,700	4,200	NA
Lead*	400	NA	230	14	68	14	3.3	69	3.7	3.4	170	3.1	6.0	410	4.4	2.8
Magnesium	NS	NS	28,000	NA	NA	NA	18,000	13,000	40,000	NA	3,500	21,000	NA	11,000	20,000	NA
Manganese	NS	2500	1,900	NA	NA	NA	210	230	280	NA	170	180	NA	310	190	NA
Mercury	3	NA	0.073	0.030	< 0.023	0.030	< 0.021	0.11	< 0.019	< 0.022	0.39	< 0.016	< 0.022	0.68	< 0.018	< 0.021
Nickel	NS	NS	26	NA	NA	NA	20	6.0	9.1	NA	12	3.3	NA	7.2	3.6	NA
Potassium	NS	NS	570	NA	NA	NA	< 340	330	340	NA	530	220	NA	400	220	NA
Selenium	500	NA	< 1.1	< 0.59	< 0.63	< 0.52	< 0.57	< 0.94	< 0.95	< 1.0	< 1.1	< 0.89	< 1.1	< 1.0	< 0.95	< 1.1
Silver	500	NA	< 1.1	< 1.2	< 1.3	< 1.0	< 1.1	< 0.94	< 0.95	< 1.0	< 1.1	< 0.89	< 1.1	< 1.0	< 0.95	< 1.1
Sodium	NS	NS	210	NA	NA	NA	< 690	230	120	NA	480	85	NA	260	98	NA
Thallium	NS	NS	< 1.1	NA	NA	< 1.0	< 1.1	< 0.94	< 0.95	NA	< 1.1	< 0.89	NA	< 1.0	< 0.95	NA
Vanadium	NS	550	22	NA	NA	NA	6.7	19	8.2	NA	21	9.1	NA	16	9.0	NA
Zinc	NS	32000	350	NA	NA	45	18	78	18	NA	140	13	NA	120	14	NA
TCLP LEAD	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	NS	NA	8.4	NA	NA	NA	8.4	7.85	8.18	7.67	8.43	8.41	8.23	7.79	8.12	7.85

	2023 IDEM R2 Residential Long-Term	IDEM 2022 Residential Remedial Closure Guide Screening Level	RPB-SB-43-1	RPB-SB-43-2	RPB-SB-43-3	RPB-SB-44-1	RPB-SB-44-2	RPB-SB-44-3	RPB-SB-46-1	RPB-SB-46-2	RPB-SB-46-3	RPB-SB-47-1	RPB-SB-47-2	RPB-SB-47-3
			12/21/2016 2-4 feet	12/21/2016 7-9 feet	12/21/2016 12-14 feet	12/20/2016 1-3 feet	12/20/2016 8-10 feet	12/20/2016 11-13 feet	12/20/2016 1-3 feet	12/20/2016 8-10 feet	12/20/2016 12-14 feet	12/20/2016 2-4 feet	12/20/2016 6-8 feet	12/20/2016 12-14 feet
Inorganics and pH														
Aluminum	NS	100000	4,300	940	NA	5,700	1,100	NA	4,300	1,100	NA	3,300	1,100	NA
Antimony	NS	43	< 3.9	< 3.5	NA	< 2.2	< 1.8	NA	< 2.1	< 2.2	NA	< 2.1	< 1.9	NA
Arsenic	19	NA	21	< 0.88	1.4	28	< 0.91	< 1.0	6.7	1.9	3.2	8.8	1.6	1.8
Barium	20000	NA	1,100	3.4	3.9	210	2.8	3.8	38	2.9	9.9	110	2.8	3.3
Beryllium	NS	220	1.1	< 0.44	NA	1.4	< 0.46	NA	0.78	< 0.55	NA	< 0.52	< 0.47	NA
Cadmium	10	NA	1.5	< 0.44	< 0.52	1.5	< 0.46	< 0.50	< 0.51	< 0.55	< 0.52	1.4	< 0.47	< 0.50
Calcium	NS	NS	23,000	25,000	NA	16,000	34,000	NA	28,000	55,000	NA	64,000	32,000	NA
Chromium	NS	NS	14	2.5	3.4	13	3.9	3.2	10	3.8	4.8	7.1	2.8	3.6
Cobalt	NS	32	6.2	1.4	NA	7.7	1.4	NA	3.5	2.5	NA	3.1	3.0	NA
Copper	NS	4300	160	< 2.2	NA	160	< 2.3	NA	16	3.8	NA	280	3.0	NA
Cyanide	NS	32	< 0.28	< 0.26	NA	0.51	< 0.26	NA	< 0.29	< 0.30	NA	0.48	< 0.28	NA
Iron	NS	77000	8,500	2,900	NA	25,000	3,300	NA	19,000	4,700	NA	8,000	3,200	NA
Lead*	400	NA	360	2.1	4.1	470	2.6	2.9	25	2.7	4.9	190	2.9	3.7
Magnesium	NS	NS	8,600	14,000	NA	5,200	20,000	NA	12,000	27,000	NA	32,000	18,000	NA
Manganese	NS	2500	180	120	NA	220	160	NA	180	250	NA	180	130	NA
Mercury	3	NA	0.49	< 0.019	< 0.021	0.53	< 0.018	< 0.020	0.031	< 0.023	< 0.021	0.19	< 0.021	< 0.022
Nickel	NS	NS	14	2.6	NA	3.4	NA	3.4	4.5	NA	8.5	4.7	NA	NA
Potassium	NS	NS	620	190	NA	700	180	NA	450	250	NA	430	220	NA
Selenium	500	NA	1.2	< 0.88	< 1.0	2.0	< 0.91	< 1.0	< 1.0	< 1.1	< 1.0	< 1.0	< 0.93	< 0.99
Silver	500	NA	< 0.96	< 0.88	< 1.0	< 1.1	< 0.91	< 1.0	< 1.0	< 1.1	< 1.0	< 1.0	< 0.93	< 0.99
Sodium	NS	NS	400	67	NA	490	91	NA	2,100	210	NA	450	130	NA
Thallium	NS	NS	< 0.96	< 0.88	NA	< 1.1	< 0.91	NA	< 1.0	< 1.1	NA	< 1.0	< 0.93	NA
Vanadium	NS	550	22	5.3	NA	25	8.6	NA	30	6.5	NA	21	5.5	NA
Zinc	NS	32000	480	8.8	NA	620	20	NA	46	16	NA	650	16	NA
TCLP LEAD	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	NS	NA	7.56	7.88	7.89	8.68	8.74	8.1	8.66	7.85	7.8	7.83	7.8	7.86

TABLE 1
SOIL CHARACTERIZATION
CTA REDLINE UPGRADE PROJECT (AINSLE TO BERWYN STATION)
CHICAGO, ILLINOIS
SOIL SAMPLE ANALYTICAL RESULTS, GSG CONULTANTS, INC. JUNE 2015 AND FEBRUARY 2017 (mg/kg)

	2023 IDEM R2 Residential Long-Term	IDEM 2022 Residential Remedial Closure Guide Screening Level	RPM-SB-21-1	RPM-SB-21-2	RPM-SB-21-3	RPM-SB-23-1	RPM-SB-23-2	RPM-SB-23-3	RPM-SB-26-1	RPM-SB-26-2	RPM-SB-27-1	RPM-SB-27-2
			1/20/2015 1-3 feet	1/20/2015 6-8 feet	1/20/2015 13-15 feet	1/20/2015 1-3 feet	1/20/2015 6-8 feet	1/20/2015 12-14 feet	1/23/2015 1-3 feet	1/23/2015 7-9 feet	12/12/2014 1-3 feet	12/12/2014 6-8 feet
Organics and PCBs												
4,4'-DDD	30	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
4,4'-DDE	30	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
4,4'-DDT	30	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
Aldrin	0.5	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
alpha-BHC	1	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
alpha-Chlordane	50	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
beta-BHC	4	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
Chlordane	20	NA	< 0.017	NA	NA	< 0.018	< 0.019	NA	< 0.018	NA	< 0.019	< 0.019
delta-BHC	NS	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
Dieldrin	0.5	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
Endosulfan I	NS	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
Endosulfan II	NS	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
Endosulfan sulfate	500	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
Endrin	30	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
Endrin aldehyde	NS	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
Endrin ketone	NS	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
gamma-BHC	1	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
gamma-Chlordane	50	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
Heptachlor	2	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
Heptachlor epoxide	1	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
Methoxychlor	400	NA	< 0.0017	NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	NA	< 0.0019	< 0.0019
Toxaphene	7	NA	< 0.035	NA	NA	< 0.037	< 0.038	NA	< 0.036	NA	< 0.039	< 0.039
PCBs												
Aroclor 1016	6	NA	< 0.086	< 0.091	< 0.093	< 0.089	< 0.093	< 0.086	< 0.088	< 0.097	NA	< 0.093
Aroclor 1221	3	NA	< 0.086	< 0.091	< 0.093	< 0.089	< 0.093	< 0.086	< 0.088	< 0.097	NA	< 0.093
Aroclor 1232	2	NA	< 0.086	< 0.091	< 0.093	< 0.089	< 0.093	< 0.086	< 0.088	< 0.097	NA	< 0.093
Aroclor 1242	3	NA	< 0.086	< 0.091	< 0.093	< 0.089	< 0.093	< 0.086	< 0.088	< 0.097	NA	< 0.093
Aroclor 1248	3	NA	< 0.086	< 0.091	< 0.093	< 0.089	< 0.093	< 0.086	< 0.088	< 0.097	NA	< 0.093
Aroclor 1254	2	NA	< 0.086	< 0.091	< 0.093	< 0.089	< 0.093	< 0.086	< 0.088	< 0.097	NA	< 0.093
Aroclor 1260	3	NA	< 0.086	< 0.091	< 0.093	< 0.089	< 0.093	< 0.086	< 0.088	< 0.097	NA	< 0.093

TABLE 2
SOIL CHARACTERIZATION
CTA REDLINE UPGRADE PROJECT (AINSLE TO BERWYN STATION
CHICAGO, ILLINOIS
SOIL SAMPLE ANALYTICAL K PLUS ENGINEERS 2021 RESULTS (mg/kg)

	2023 IDEM R2 Residential Long-Term	IDEM 2022 Residential Remedial Closure Guide Screening Level	KP10 Sta.382.0	KP11 Sta.379.5	KP11 deep	KP12 Sta.375.5	KP13 Sta.374.0	KP14 Sta.371.5	KP15 Sta.369.5	KP16 Sta.365.0	KP17 Sta.362.5	KP18 Sta.358.0	KP19 Sta.356.5
VOCs													
1,1,1-Trichloroethane	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
1,1,1,2-Tetrachloroethane	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
1,1,2-Trichloroethane	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
1,1-Dichloroethane	NA	50	<0.000937	<0.000887	0.00126	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
1,1-Dichloroethene	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
1,2-Dichloroethane	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
1,2-Dichloropropane	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
1,3-Dichlorobenzene	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
2-Butanone	NA	NA	<0.00937	<0.00887	<0.0102	<0.0103	<0.0220	<0.0102	<0.0228	<0.0108	<0.0241	<0.00778	<0.0232
2-Hexanone	NA	NA	<0.0234	<0.0222	<0.0254	<0.0257	<0.0550	<0.0255	<0.0571	<0.0269	<0.0603	<0.0195	<0.0581
4-Methyl-2-pentanone	NA	NA	<0.0234	<0.0222	<0.0254	<0.0257	<0.0550	<0.0255	<0.0571	<0.0269	<0.0603	<0.0195	<0.0581
Acetone	NA	NA	<0.0234	<0.0222	<0.0254	<0.0257	<0.0550	<0.0255	<0.0571	<0.0269	<0.0603	<0.0195	<0.0581
Benzene	NA	NA	<0.000234	<0.000222	<0.000254	<0.000257	<0.000550	<0.000255	<0.000571	<0.000269	<0.000603	<0.000195	<0.000581
Bromodichloromethane	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Bromoform	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Bromomethane	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Carbon disulfide	NA	NA	<0.00123	<0.00142	<0.00335	<0.00125	<0.0110	<0.00163	<0.0114	<0.00108	<0.00241	<0.000778	<0.00232
Carbon tetrachloride	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Chlorobenzene	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Chloroethane	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Chloroform	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Chloromethane	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
cis-1,2-Dichloroethene	NA	220	<0.000937	<0.000887	0.00237	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
cis-1,3-Dichloropropene	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Dibromochloromethane	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Ethylbenzene	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Methyl tert-butyl ether	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Methylene chloride	NA	NA	<0.00468	<0.00444	<0.00508	<0.00514	<0.0110	<0.00510	<0.0114	<0.00538	<0.0121	<0.00389	<0.0116
Styrene	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Tetrachloroethene	NA	110	<0.00187	<0.00177	<0.00203	<0.00206	<0.00440	<0.00204	<0.00457	0.00274	<0.00483	0.00271	<0.00465
Toluene	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Total Xylenes	NA	NA	<0.00187	<0.00177	<0.00203	<0.00206	<0.00440	<0.00204	<0.00457	<0.00215	<0.00483	<0.00156	<0.00465
trans-1,2-Dichloroethene	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
trans-1,3-Dichloropropene	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Trichloroethene	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Vinyl chloride	NA	NA	<0.000937	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232

**TABLE 2
SOIL CHARACTERIZATION
CTA REDLINE UPGRADE PROJECT (AINSLE TO BERWYN STATION
CHICAGO, ILLINOIS
SOIL SAMPLE ANALYTICAL K PLUS ENGINEERS 2021 RESULTS (mg/kg)**

	2023 IDEM R2 Residential Long-Term	IDEM 2022 Residential Remedial Closure Guide Screening Level	KP10 Sta.382.0	KP11 Sta.379.5	KP11 deep	KP12 Sta.375.5	KP13 Sta.374.0	KP14 Sta.371.5	KP15 Sta.369.5	KP16 Sta.365.0	KP17 Sta.362.5	KP18 Sta.358.0	KP19 Sta.356.5
SVOCS													
1,2,4-Trichlorobenzene	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
1,2-Dichlorobenzene	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
1,4-Dichlorobenzene	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
2,4,5-Trichlorophenol	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
2,4,6-Trichlorophenol	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
2,4-Dichlorophenol	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
2,4-Dimethylphenol	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
2,4-Dinitrophenol	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
2,4-Dinitrotoluene	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
2,6-Dinitrotoluene	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
2-Chloronaphthalene	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
2-Chlorophenol	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
2-Methylnaphthalene	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
2-Methylphenol	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
2-Nitroaniline	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
2-Nitrophenol	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
3,3'-Dichlorobenzidine	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
3,4-Methylphenol	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
3-Nitroaniline	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
4,6-Dinitro-2-methylphenol	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
4-Bromophenyl phenyl ether	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
4-Chloro-3-methylphenol	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
4-Chloroaniline	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
4-Chlorophenyl phenyl ether	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
4-Nitroaniline	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
4-Nitrophenol	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Bis(2-chloroethoxy)methane	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Bis(2-chloroethyl)ether	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Bis(2-chloroisopropyl)ether	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Bis(2-ethylhexyl)phthalate	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Butyl benzyl phthalate	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Carbazole	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Dibenzofuran	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Diethyl phthalate	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Dimethyl phthalate	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Di-n-butyl phthalate	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Di-n-octyl phthalate	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Hexachlorobenzene	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Hexachlorobutadiene	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Hexachlorocyclopentadiene	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Hexachloroethane	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Isophorone	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Nitrobenzene	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
N-Nitroso-di-n-propylamine	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
N-Nitrosodiphenylamine	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Pentachlorophenol	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287
Phenol	NA	NA	<0.284	<0.292	<0.294	<0.312	<0.280	<0.322	<0.285	<0.287	<0.297	<0.285	<0.287

TABLE 2
SOIL CHARACTERIZATION
CTA REDLINE UPGRADE PROJECT (AINSLE TO BERWYN STATION
CHICAGO, ILLINOIS
SOIL SAMPLE ANALYTICAL K PLUS ENGINEERS 2021 RESULTS (mg/kg)

	2023 IDEM R2 Residential Long-Term	IDEM 2022 Residential Remedial Closure Guide Screening Level	KP10 Sta.382.0	KP11 Sta.379.5	KP11 deep	KP12 Sta.375.5	KP13 Sta.374.0	KP14 Sta.371.5	KP15 Sta.369.5	KP16 Sta.365.0	KP17 Sta.362.5	KP18 Sta.358.0	KP19 Sta.356.5
PAH													
Acenaphthene	5000	NA	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594	<0.0570	<0.0574
Acenaphthylene	NS	NS	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594	<0.0570	<0.0574
Anthracene	30000	NA	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594	<0.0570	<0.0574
Benzo(a)anthracene	20	NA	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594	<0.0570	0.154
Benzo(a)pyrene	2	NA	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594	<0.0570	0.142
Benzo(b)fluoranthene	20	NA	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594	<0.0570	0.202
Benzo(g,h,i)perylene	NS	NS	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594	<0.0570	0.134
Benzo(k)fluoranthene	200	NA	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594	<0.0570	0.0708
Chrysene	2000	NA	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594	<0.0570	0.171
Dibenzo(a,h)anthracene	2	NA	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594	<0.0570	<0.0574
Fluoranthene	3000	NA	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	0.0782	<0.0575	<0.0594	<0.0570	0.276
Fluorene	3000	NA	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594	<0.0570	<0.0574
Indeno(1,2,3-cd)pyrene	20	NA	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594	<0.0570	0.113
Naphthalene	30	NA	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594	<0.0570	<0.0574
Phenanthrene	NS	NS	<0.0569	<0.0584	<0.0588	<0.0623	0.0566	<0.0644	0.0763	<0.0575	<0.0594	<0.0570	0.156
Pyrene	3000	NA	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	0.0653	<0.0575	<0.0594	<0.0570	0.264

	2023 IDEM R2 Residential Long-Term	IDEM 2022 Residential Remedial Closure Guide Screening Level	KP10 Sta.382.0	KP11 Sta.379.5	KP11 deep	KP12 Sta.375.5	KP13 Sta.374.0	KP14 Sta.371.5	KP15 Sta.369.5	KP16 Sta.365.0	KP17 Sta.362.5	KP18 Sta.358.0	KP19 Sta.356.5
Metals													
Arsenic	19	NA	8.51	17.2	2.26	8.86	8.82	10	6.9	4.11	7.18	9.34	7.02
Barium	20000	NA	60.9	93.3	6.95	99.5	41.7	148	58.9	41.9	79	76.8	62.9
Cadmium	10	NA	0.228	0.397	0.0962	0.25	0.23	0.317	0.205	0.193	0.321	0.302	0.399
Chromium	NS	NS	9.99	13.7	2.77	12.5	8.77	16.5	9.66	7.3	10.3	12.2	9.18
Lead	400	NA	6.37	15.3	3.38	7.38	12.2	8.99	9.75	6.45	7.09	7.2	19.6
Mercury	3	NA	<0.0180	<0.0192	<0.0191	<0.0209	<0.0173	<0.0212	0.0204	0.0266	0.0384	0.0783	0.0314
Selenium	500	NA	<1.27	<1.27	<1.25	<1.25	<1.30	<1.27	<1.29	<1.26	<1.25	<1.25	<1.30
Silver	500	NA	1.17	1.74	0.392	1.22	1.09	1.74	1.19	0.571	0.916	1.19	1.06

FIGURES

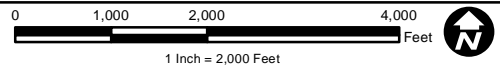
DRAFT



Project Area



DISCLAIMER:
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Quad: Chicago Loop, Illinois

Source: The topographic map was acquired through the National Geographic Society Web Service.



Fill Import Characterization OU1 Modified Zone 1
 USS Lead Superfund Site

**Project Location
 Map**

East Chicago, Lake County, Indiana




Date:
May 2023

File Name:
 15773_14_Fig01_PLM.mxd
 Edited: 5/17/2023 User: kyusuf

Figure
1



LEGEND

-  Historic RECs
-  Proposed Viaduct Borings
-  Proposed Embankment Borings

Note:
Data sourced from GSG Consultants
The aerial photo was acquired through the Esri Imagery Web Service.
Aerial photography dated 2015.



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May 2023	
Fill Import Characterization OU1 Modified Zone 1 USS Lead Superfund Site	Figure
Sample Locations	2
East Chicago, Lake County, Indiana	

ATTACHMENT A

**PRELIMINARY SOILS INVESTIGATION, GSG CONSULTANTS, INC.
MAY 2015**

PRELIMINARY SOILS INVESTIGATION (PSI)

CTA Red-Purple Modernization Project Lawrence to Bryn Mawr Modernization Chicago, Illinois

Submitted to:



**Chicago Transit Authority
567 West Lake Street
Chicago, Illinois 60661**

June 2015



GSG CONSULTANTS, INC.

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Chicago, Illinois 60607
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PRELIMINARY SOILS INVESTIGATION (PSI)

**CTA Red-Purple Modernization Project
Lawrence to Bryn Mawr Modernization
Chicago, Illinois**

Submitted to:

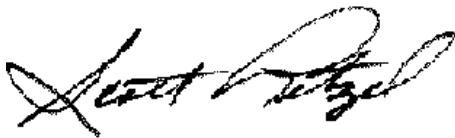
**Chicago Transit Authority
567 West Lake Street
Chicago, Illinois 60661**



June 2015

Ala Sassila, PhD, P.E., Program Quality Manager

Date



June 2015

Scott Letzel, P.G., Technical Manager

Date



June 2015

Ted Cagney, Project Geologist

Date

EXECUTIVE SUMMARY

GSG Consultants, Inc. (GSG) as part of the Preliminary Engineering Consultant (PEC) team completed a Preliminary Soils Investigation (PSI) in December 2014 and January 2015, for the Lawrence to Bryn Mawr Modernization portion of the Red-Purple Modernization Project (RPM). The Lawrence to Bryn Mawr Modernization is located starting at W. Leland Avenue and traveling north to W. Ardmore Avenue (Site).

Based on the PEC's review of available historic and regulatory database information, a total of twenty-three (23) borings were performed along the existing CTA right-of-way: twelve (12) borings were conducted at street level at the viaduct locations, with one (1) being conducted at each cross-street between Leland Avenue and Ardmore Avenue; and eleven (11) borings along the elevated track bed, one (1) each (at the north and south ends) of the Lawrence, Argyle, Berwyn and Bryn Mawr stations, and three (3) conducted along the tracks away from the stations.

The soil analytical results were compared to the Maximum Allowable Concentration (MAC) values for Clean Construction or Demolition Debris (CCDD) sites. Additionally, the results were compared to the Tiered Approach to Corrective Action Objectives (TACO) Tier 1 soil remediation objectives (SROs) to evaluate the potential health risk to the construction worker exposure pathway.

Viaducts

None of the constituents detected exceeded the TACO construction worker SROs therefore no construction worker precaution is warranted at the viaduct locations.

Four of the twelve soil boring locations contain soil in the fill layer that exceeds the CCDD MAC values. Soils generated from the fill layer at these locations should be disposed of as a non-special waste at a licensed Subtitle D landfill, in accordance applicable local, state, and federal regulations.

Embankment

Eight of the eleven boring locations contain concentrations of inorganic constituents that exceed the Tier 1 SROs for the construction worker ingestion exposure route. A construction worker precaution area should be implemented around these areas.

The uppermost fill layer (0' to 5') at all eleven boring locations exceeds the CCDD MAC values. The middle fill layer (5'-10') exceeds the CCDD MAC values at eight of the eleven boring locations. The lowest fill layer (10'-15') exceeds the CCDD MAC values at nine of the eleven boring locations. Soils generated from these locations should be disposed of as a non-special waste at a licensed Subtitle D landfill, in accordance applicable local, state, and federal regulations. All other soils may be disposed of



at a CCDD facility.



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Exhibits

Exhibit 1	Site Location Map
Exhibit 2	Boring Location Map
Exhibit 3	Construction Worker Precaution Areas
Exhibit 4	Viaduct Soil Disposal Map
Exhibit 5	Embankment Soil Disposal Map



Appendices

Appendix A Sampling Plan

Appendix B Boring Logs

Appendix C Laboratory Analytical Data Reports

Appendix D Summary of Findings



1.0 INTRODUCTION

GSG Consultants, Inc. (GSG) as part of the Preliminary Engineering Consultant (PEC) team completed a Preliminary Soils Investigation (PSI) in December 2014 and January 2015, for the Lawrence to Bryn Mawr Modernization portion of the Red-Purple Modernization Project (RPM). The Lawrence to Bryn Mawr Modernization is located starting at W. Leland Avenue and traveling north to W. Ardmore Avenue (Site). The Site consists of the viaducts over the cross-streets and the embankments where the Red Line tracks are present. **Exhibit 1**, Site Location Map, shows the limits of the investigation.

CTA proposes to reconstruct approximately 1.3 miles of the existing rail line from Leland Avenue on the south to north of the Ardmore Avenue viaduct. As part of the project, four stations (Lawrence, Argyle, Berwyn, and Bryn Mawr) in this segment of railroad would be expanded, modernized, and made accessible according to the Americans with Disabilities Act (ADA). The Lawrence to Bryn Mawr Modernization Project would increase passenger capacity through construction of new transit infrastructure within the project limits. The improvements would enhance station access along the corridor, expand platforms, and replace and modernize crumbling embankment walls and bridge structures that are over 90 years old.

The PEC reviewed and interpreted the information contained in the Hazardous Materials Technical Memorandum prepared by CTG, historical property use data, and visual inspections. Based on the CTG report, several Recognized Environmental Conditions (RECs) were identified within the project area. The purpose of the PSI is to determine whether the site soil has been adversely impacted by the RECs identified within the project limits, and to provide recommendations regarding soil handling and management during the construction phase of the project.

Based on the “Clean Construction or Demolition Debris” regulations as published in 35 IL Administrative Code, dated August 27, 2012, the PEC utilized the Maximum Allowable Concentration (MAC) table for soil handling and disposal option considerations. Soil with values exceeding the MAC values, as defined under 35 IAC 1100 regulations, and/or exhibiting PID readings above background levels and/exhibits pH values outside the Illinois Environmental Protection Agency (IEPA) established range of 6.25 to 9.0, should be classified as non-CCDD material.

Surplus soil generated on Site exceeding the MAC values, as defined under 35 IAC 1100 regulations, should be disposed as either hazardous or non-hazardous. Contaminated soils or groundwater could potentially be encountered during demolition, construction, or earthwork; resulting in the release of contamination into the air, soil or water. Exposure to environmental contamination can adversely impact construction workers and public safety. Encountering such contamination without prior knowledge can also result in increased project costs and delays to properly manage the resulting waste.



In addition to the CCDD evaluation, the PEC compared the soil analytical results to the IEPA Tiered Approach to Corrective Action Objectives (TACO) Tier 1 soil remediation objectives (SROs); 35 IAC 742, dated July 15, 2013. The purpose of this evaluation is to provide for the adequate protection of human health and the environment based on the risks to human health posed by environmental conditions anticipated while incorporating site related information.

This report has been organized into the following sections:

- **Section 1.0: Introduction** - presents a brief description of the site location, the overall objective of the investigation, and organization of this report.
- **Section 2.0: Background Information** – describes the project location, proposed improvements, and finding of the Hazardous Materials Technical Memorandum.
- **Section 3.0: Field Investigation Procedures** - describes field activities associated with the site investigation and field observations.
- **Section 4.0: Investigation Results** - provides a summary of analytical results, provides an evaluation and interpretation of the data obtained and an analysis of applicable regulatory requirements.
- **Section 5.0: Recommendations** - presents recommendations for further actions including relevant findings.



2.0 BACKGROUND INFORMATION

2.1 PROJECT DESCRIPTION

The report covers the Lawrence to Bryn Mawr Modernization portion of the RPM Project. The Lawrence to Bryn Mawr Modernization portion includes modernization of four Red Line stations (Lawrence, Argyle, Berwyn, and Bryn Mawr) and aging CTA structures including tracks, embankment walls, viaducts, platforms, and stations from north of Leland Avenue in the south to north of the Ardmore Avenue viaduct.

CTA proposes to reconstruct approximately 1.3 miles of the existing rail line from north of Leland Avenue on the south to north of the Ardmore Avenue viaduct. As part of the project, four stations (Lawrence, Argyle, Berwyn, and Bryn Mawr) in this segment of railroad would be expanded, modernized, and made accessible according to the Americans with Disabilities Act (ADA). The Lawrence to Bryn Mawr Modernization Project would increase passenger capacity through construction of new transit infrastructure within the project limits. The improvements would enhance station access along the corridor, expand platforms, and replace existing viaducts.

As stated in the Draft Lawrence to Bryn Mawr Modernization Project Environmental Assessment and Section 4(f) Evaluation prepared for the FTA and CTA and dated October 3, 2014, the purpose of the Lawrence to Bryn Mawr Modernization Project is to provide continued high speed transit service connecting Chicago's North Side and northern suburbs to the Loop and the rest of the Chicago metropolitan area and expand capacity to meet growing ridership demand, while reducing train travel times, and improving access to the system for people with disabilities. The capacity expansion would bring the aging rail infrastructure into a state of good repair, thereby improving efficiency and service reliability. Provision of modern amenities at all stations, expansion of passenger capacity, and speed and reliability enhancements would address safety and accessibility concerns and extend the useful life of the system.

Currently, viaducts (bridge-like structures that allow trains to pass over the street and cars to pass under the tracks) consist of concrete slab structures supported on piers in the center of east-west roadways. As proposed, there would be no piers in the roadway, improving sightlines and safety for pedestrians, drivers, and bicyclists. Illinois Department of Transportation (IDOT) local roads policy for new bridges requires vertical clearances of 14' 9" between the road surface and the bottom of the structure. Existing vertical clearances along roadways within the project corridor do not meet these standards, and would be increased to meet IDOT standards. The track profile would be raised approximately 5 to 10 feet compared to the existing profile.

The current track support, referred to as embankment, was constructed in the 1920s utilizing



embankment walls with earth-fill. The embankment supports four tracks (northbound and southbound Red Line tracks, and northbound and southbound Purple Line express tracks). Reconstruction of stations will involve partial removal of the existing embankment walls and earth-fill. Where the existing embankment wall will remain in place, the height of the embankment under the new aerial structure will be lowered to allow access for required inspections and maintenance.

This PSI divides the Lawrence to Bryn Mawr Modernization into two segments:

Viaduct locations – twelve (12) east-west street crossings, east of N. Broadway Avenue, from W. Leland Avenue to W. Ardmore Avenue. The area is located within a mixed-use commercial and residential neighborhood.

Embankment – This area is along the existing track right-of-way corridor, from south of the Lawrence Avenue Station to south of Ardmore Avenue.

2.2 PREVIOUS INVESTIGATION FINDINGS

The PEC developed a sampling plan to address the regulated substances or environmental hazards within the project limit based on the findings of the Hazardous Materials Technical Memorandum prepared by CTG in May 2012.

The following RECs were identified:

- An historic auto storage and repair facility was located west of the Lawrence Station (RPM-SB-17).
- An electrical transformer yard, located at approximately 4835 N. Broadway Avenue, adjacent to the tracks on the west side (RPM-SB-18).
- An historic coal yard was located on the west side of the tracks between the Lawrence Avenue Station and W. Ainslie Street (RPM-SB-19).
- An historic coal yard was located on the west side of the tracks at W. Winona Street (RPM-SB-23 and RPM-SB-24).
- An historic coal yard was located on the west side of the tracks between W. Berwyn Avenue and W. Balmoral Avenue (RPM-SB-27 and RPM-SB-28).
- An historic coal yard was located on the west side of the tracks, north of the Bryn Mawr Avenue Station (RPM-SB-34).
- An historic railroad powerhouse was located at 1128 W. Ardmore, adjacent to the west of the tracks (RPM-SB-37).

After an initial site reconnaissance and a review of the Draft Lawrence to Bryn Mawr Modernization Project Environmental Assessment and Section 4(f) Evaluation, dated October 3, 2014, provided by the CTA, the following additional potential RECs were identified:



- An auto repair facility located at 1125-27 W. Foster (RPM-SB-25). The site was previously a historical laundry (1923 to 1928) and is currently an auto repair facility and is listed on the Illinois Bureau of Land database.
- Balmoral Auto Werks, located at 1122 W. Balmoral Avenue (RPM-SB-29) adjacent to the west of the tracks, is currently an auto repair facility and is listed on the Illinois Bureau of Land database.
- Northside Auto Repair, located at 1123 W. Catalpa (RPM-SB-31), adjacent to the west of the tracks, is an historic Auto Repair facility (under various names since 1999), and a 250-gallon heating oil UST was abandoned in-place there in 1995.

2.3 SITE GEOLOGICAL AND HYDROGEOLOGICAL CONDITIONS

Several published documents were reviewed in an effort to determine the regional geological setting in the area of the Site. The following is a summary of this review:

The bedrock in the Chicago area is overlain by glacial drift that was deposited by Pleistocene glaciers that repeatedly covered the area and by the various high-level states of Lake Michigan. The Pleistocene strata which underlie the study area as inferred from the **“Surficial Geology of the Chicago Region” (Willman and Lineback, ISGS, 1970)** consists of the Carmi Member of the Equality formation. The Carmi Member of Equality formation consists of “largely quiet-water lake sediments; dominantly well bedded silt, locally laminated and containing thin beds of clay; local lenses of sand and sandy gravel along beaches.”

Overlying the Pleistocene deposits are surficial soil deposits which according to the **General Soil Map of DuPage and Part of Cook Counties, Illinois, (US Dept. of Agriculture, 1979)**, consist of Urban Land-Selma-Oakville association soils. Selma-Oakville soils, covering the majority of the Site, are built-up areas and deep level to undulating, well and poorly drained soils that have a loamy, silty or sandy subsoil, and are formed in glacial outwash and in glacial lake sediment.

According to the **“Potential for Contamination of Shallow Aquifers in Illinois from Land Burial of Municipal Wastes” (Richard C. Berg, John P. Kempton, ISGS, 1984)**, the Site is located within the B1 rating area. The geologic materials in the B1 rating area consist of “sand and gravel less than 20 feet thick over relatively impermeable till or bedrock.” The potential for contamination is “high”.

Based on the **“Potential for Contamination of Shallow Aquifers by Surface and Near-Surface Waste Disposal” Plate**, the Site is located within the C1 rating area. The geologic materials in the C1 rating area consist of “sand and gravel less than 20 feet thick over relatively impermeable till or bedrock.”

The Summary of the Geology of the Chicago Area (Willman 1971) describes shallow groundwater in the Chicago area as being limited to sand and gravel horizons in unconsolidated soil and fractured



bedrock aquifers. The unconsolidated materials in this area consist primarily of clay with isolated lenses of sand material and are not considered aquifers. In the Chicago area, bedrock aquifers are found within Silurian, Ordovician and Cambrian formations, which are greater than 50 feet bgs.

2.4 SITE SURFACE WATER CONDITIONS

No ponding or standing water was noted at the time of the site reconnaissance. The closest surface water body to the Site is Lake Michigan, which is 1 mile east. The Site is located within an Urban Setting. There are no wetlands associated with the Site or the immediately adjacent properties. The Flood Insurance Rate Map (FIRM) panel 17031C0410J, dated August 19, 2008, distributed by the Federal Emergency Management Agency (FEMA) shows the Site located in Zone X which is defined as “areas determined to be outside the 0.2% annual chance floodplain.”



3.0 INVESTIGATION PROCEDURES

Soil borings were completed across several different areas of this project. Also, several properties are, and historically were, located adjacent to the elevated CTA tracks between Belmont Avenue and Cornelia Avenue that would be Recognized Environmental Conditions (RECs). A copy of the Soil Sampling Plan is included as **Appendix A**.

Water levels were monitored during the drilling activities. Shallow groundwater was not encountered during the drilling activities and therefore no groundwater samples were collected.

3.1 SOIL SAMPLING PROCEDURES

Based on the PEC's review of available historic and regulatory database information, a total of twenty-three (23) borings were performed along the existing CTA right-of-way: twelve (12) borings were conducted at street level at the viaduct locations, with one (1) being conducted at each cross-street between Leland Avenue and Ardmore Avenue; and eleven (11) borings along the elevated track bed, one (1) each (at the north and south ends) of the Lawrence, Argyle, Berwyn and Bryn Mawr stations, and three (3) conducted along the tracks away from the stations.

Viaduct borings

- RPM-SB-15: 4661 N. Broadway Avenue, 41° 58' 01.73" N, 87° 39' 29.64" W
- RPM-SB-17: 1113 Lawrence Avenue, 41° 58' 06.19" N, 87° 39' 30.81" W
- RPM-SB-20: 1113 Ainslie Street, 41° 58' 17.21" N, 87° 39' 31.06" W
- RPM-SB-22: 1113 Argyle Street, 41° 58' 23.48" N, 87° 39' 30.48" W
- RPM-SB-24: 1113 Winona Street, 41° 58' 31.06" N, 87° 39' 31.50" W
- RPM-SB-25: 1113 Foster Avenue, 41° 58' 34.48" N, 87° 39' 31.54" W
- RPM-SB-27: 1113 Berwyn Avenue, 41° 58' 41.77" N, 87° 39' 31.83" W
- RPM-SB-29: 1113 Balmoral Avenue, 41° 58' 47.61" N, 87° 39' 31.98" W
- RPM-SB-31: 1113 Catalpa Avenue, 41° 58' 54.21" N, 87° 39' 32.30" W
- RPM-SB-33: 1113 Bryn Mawr Avenue, 41° 59' 01.46" N, 87° 39' 31.40" W
- RPM-SB-35: 1113 Hollywood Avenue, 41° 59' 07.36" N, 87° 39' 31.61" W
- RPM-SB-37: 1113 Ardmore Avenue, 41° 59' 13.98" N, 87° 39' 31.76" W

Track level borings

- RPM-SB-16: south of the Lawrence Station, 41° 58' 06.36" N, 87° 39' 30.29" W
- RPM-SB-18: north of the Lawrence Station, 41° 58' 11.49" N, 87° 39' 30.46" W
- RPM-SB-19: Between Lawrence Station and Ainslie Street, 41° 58' 15.06" N, 87° 39' 30.50" W
- RPM-SB-21: south of the Argyle Station, 41° 58' 20.76" N, 87° 39' 30.65" W
- RPM-SB-23: north side of Argyle Station, 41° 58' 27.20" N, 87° 39' 30.86" W



- RPM-SB-26: south side of Berwyn Station, 41° 58' 38.00" N, 87° 39' 31.16" W
- RPM-SB-28: north side of Berwyn Station, 41° 58' 43.03" N, 87° 39' 31.28" W
- RPM-SB-30: Approximately 5443 N. Broadway, 41° 58' 51.07" N, 87° 39' 31.49" W
- RPM-SB-32: south side of Bryn Mawr Station, 41° 58' 58.11" N, 87° 39' 31.64" W
- RPM-SB-34: north side of Bryn Mawr Station, 41° 59' 04.27" N, 87° 39' 31.86" W
- RPM-SB-36: Approximately 5725 N. Broadway Avenue, 41° 59' 10.55" N, 87° 39' 32.02" W

Exhibit 2, Boring Location Map, shows the location of the soil borings. Copies of the soil boring logs and photographs of the existing soil conditions can be found in **Appendix B**. Please note that no survey data was available at the time this investigation was performed.

Each boring was advanced under the direction of a field engineer. The soil probes were performed using a direct-push probing equipment (GeoProbe® 420M). Samples were collected using a 3-foot long Dual Tube sampler and/or Macro-Core® sampler, each with acetate liners within the soil probes. Boring locations were continuously sampled using disposable 3-foot long by 2-inch wide acetate sampling liners. The soil conditions were classified according to the Unified Soil Classification System (USCS). The boreholes were back-filled with the original soil cuttings and the surface was restored with asphalt or concrete to meet the existing ground surface conditions.

Field equipment was either new or decontaminated and cleaned prior to each use. The PEC's field representative used a new pair of disposable latex gloves prior to collecting the samples to prevent cross-contamination of the samples and to prevent exposure of potential contaminants to the field personnel. Sample labels were completed and affixed to the laboratory-supplied sampling jars.

The PEC's field representative inspected each soil sample interval for the presence of staining, and/or olfactory impacts and then classified the soil samples. PID readings were collected, however, elevated PID readings were only encountered at boring RPM-SB-31, between 8 and 12 feet bgs, with the highest readings encountered between 8 and 10 feet bgs. The PID readings for each soil boring can be found on the soil boring logs in **Appendix B**. Due to the elevated PID readings, sample RPM-SB-31-2 was collected between 8 and 10 feet, the location of the highest readings. Since no other elevated PID readings were encountered, the remaining samples were collected based on field observations. Soil samples analyzed for volatile constituents were collected immediately after sample retrieval in accordance with SW-846 Method 5035 using the following Encore™ sampling procedures:

- An Encore™ was inserted into the Encore T-Handle™.
- The Encore™ was then pushed into a freshly exposed surface of soil until the syringe was full.
- The Encore™ was then removed from the handle and a cap was placed over it to secure the contents.
- The Encore™ was placed back in the provided package. The package was sealed and placed in a cooler with ice.



Soil was taken directly from the probe liners and placed in clean sampling jars with Teflon lined lids. All soil samples were labeled and designated with a unique identifier, the jar lids were secured and placed in a cooler packed with ice. Soil samples were transported to STAT Analysis, an Illinois Environmental Protection Agency (IEPA) accredited laboratory (Accreditation #100445), on the same day of collection and were received under standard chain-of-custody procedures. The signed chain of custody forms are included in **Appendix C**, Laboratory Analytical Data Reports.

Based on the unknown nature of the fill material along the CTA right-of-way, select soil samples were submitted for analysis as follows:

- Polynuclear Aromatic Hydrocarbons (PNAs);
- Resource Conservation and Recovery Act (RCRA) Metals and Priority Pollutant Metals;
- Volatile Organic Compounds (VOCs);
- Semi-volatile Organic Compounds (SVOCs);
- Polychlorinated Biphenyls (PCBs) and Pesticides;
- Target Compound List (TCL); and
- pH.

Additionally, two (2) waste characterization samples were collected, one each from the viaduct material and the embankment material.

3.2 GROUNDWATER SAMPLING PROCEDURES

Water levels were monitored during the drilling activities. Shallow groundwater was not encountered during the drilling activities.



4.0 INVESTIGATION RESULTS

The objective of the investigation was to identify and characterize soil conditions that may need to be addressed or otherwise managed during planned site construction activities. The soil analytical results obtained during this investigation were compared to the MAC values for Clean Construction or Demolition Debris (CCDD) sites. Additionally, we compared the results to the TACO Tier 1 soil remediation objectives (SROs) to evaluate the potential health risk to the construction worker exposure pathway. The soil sample results along with waste characterization analysis were evaluated to assess disposal and handling options for surplus soils generated from the project.

Approach

The Illinois Pollution Control Board (IPCB) promulgates regulations that govern site evaluation procedures and the development of SROs that is based on potential risks to human health and the environment. These regulations are provided in 35 IAC Part 742: Tiered Approach to Corrective Action Objectives (TACO).

TACO provides a three-tiered procedure for evaluating data and developing SROs for various receptors including residential occupants, industrial/commercial workers, and construction workers. For each receptor, SROs are developed separately for inhalation, soil ingestion, and groundwater ingestion exposure pathways, as appropriate. Factors considered in the development of the SROs include contaminant toxicity, exposure routes, and receptors.

The initial step in the TACO evaluation process (Tier 1) consist of lookup tables which are based on prudently conservative assumptions and take into account only limited site-specific information. This approach provides for a relatively quick and cost-effective means to assess site conditions and was used for purposes of this assessment. In lieu of the Tier 1 SROs, the use of IEPA approved background concentrations provided in 35 IAC Part 742 (for Counties Within Metropolitan Statistical Areas) may also be used. For purposes of this assessment, the TACO Tier 1 SROs for the construction worker exposure scenario were used to assess potential risks to construction workers and employees at the facility except for those constituents in which the background value was greater than the TACO Tier 1 SRO Value.

As stated above, TACO is the IEPA's method for developing risk-based remediation objectives to protect human health and the environment, however, TACO *cannot* be used for waste classification or to asses waste disposal options. Likewise, CCDD materials by definition are not considered as a "waste", therefore regulations on the classification and management of wastes are outlined in the Illinois Environmental Protection Act along with regulations and guidelines under 35 IAC Subtitle G: Waste Disposal.

Based on the above discussion and the analytical data provided herein, surplus soil generated from the project area with values at or below the MAC values, as defined under 35 IAC 1100 regulations, should



be considered as CCDD material. The soil is considered to be “clean” and can be managed as such. Soils with values exceeding the MAC values should be considered “contaminated” and disposed of at a permitted Subtitle C or D landfill in accordance with applicable federal, state, and local regulations. Any soils that demonstrate the characteristics of a hazardous waste upon completion of testing will be required to be disposed of at a Subtitle C landfill. Soils that do not exhibit the properties of a hazardous waste and are not liquid may be disposed of as “non-special waste” at a Subtitle D landfill.

Exhibit 3 shows the locations of the construction worker precaution areas. Soils suitable for disposal at a CCDD facility or Subtitle D landfill are shown on **Exhibits 4** and **5** for the viaduct and embankment soil, respectively. **Appendix D**, Summary of Findings, lists the boring locations, RECs, sampling depth and analysis and includes information regarding, disposal options, and if a construction worker precaution area should be in place for each location.

4.1 VIADUCT BORINGS

4.1.1 Field Observations

Twelve (12) soil borings were conducted at street level near the viaducts between Leland Avenue and Ardmore Avenue. Borings in this area were conducted to a maximum depth of 12 feet bgs. Two (2) samples were collected from each boring, the first from the fill material and the second from the native material.

Elevated PID readings were only encountered at boring RPM-SB-31, between 8 and 12 feet bgs, with the highest readings encountered between 8 and 10 feet bgs. The PID readings for each soil boring can be found on the soil boring logs in **Appendix B**. Due to the elevated PID readings, sample RPM-SB-31-2 was collected between 8 and 10 feet, the location of the highest readings. Since no other elevated PID readings were encountered, the remaining samples were collected based on field observations.

4.1.2 Soil Conditions

Based upon the results of the site investigation, the subsurface conditions vary from the south to the north. Encountered at the surface, at most viaduct locations, is a layer of concrete between 4 and 8 inches thick. At borings RPM-SB-17, RPM-SB-25, RPM-SB-27, RPB-SB-25 and RPM-SB-35, a 2-inch layer of asphalt is present instead of concrete. At boring RPM-SB-35, an 8-inch thick layer of concrete was present under the asphalt. The concrete and asphalt are underlain by a fill layer of varying consistency to an average depth of approximately 5.3 feet bgs (between 4 and 7 feet bgs). The fill layer consists of: gravel fill (to a depth of between approximately 6 inches and 1 foot bgs in borings RPM-SB-15, RPM-SB-17, RPM-SB-20 and RPM-SB-25); orange fine to medium grained sand with trace amounts of gravel, between 4 and 6 feet thick (borings RPM-SB-15, RPM-SB-17, RPM-SB-20 and RPM-SB-25); dark (brown medium grained sand, between 3 and 7 feet thick



(borings RPM-SB-22 and RPM-SB-24); black silty clay with gravel, concrete (RPM-SB-27 and RPM-SB-29) and/or cinders (RPM-SB-31, RPM-SB-33, RPM-SB-35 and RPM-SB-37) approximately 4 feet thick. The fill is generally underlain by a native brown coarse grained sand to a minimum depth of 12 feet bsg, but a layer of native fine grained light brown sand is present from between 4 and 8 feet bgs in borings RPM-SB-22 and RPM-SB-31.

Water levels were monitored during the drilling activities. Shallow groundwater was not encountered during the drilling activities.

4.1.3 Analytical Parameters

Select soil samples collected from borings conducted at street level were analyzed for VOCs, SVOCs/PNAs, TAL/RCRA/priority pollutant inorganics, pesticides, PCBs, and pH.

Constituent	Number of Fill Samples Analyzed	Number of Native Samples Analyze
VOCs	1	5
SVOCs (full list)	0	5
PNAs (reduced list of SVOCs)	12	12
RCRA 8 Metals	8	12
Priority Pollutant Metals (13)	3	0
TAL Metals (22)	0	5
Pesticides	5	5
PCBs	1	5
pH	0	5

4.1.4 Analytical Results

Constituents detected in the samples along this corridor include PNAs and inorganics.

Twenty-four (24) soil samples were collected from the soil borings: twelve (12) samples were collected from the fill material in the top three (3) feet bgs and twelve (12) from the native sands. The analytical results revealed the presence of PNAs and RCRA Metals in soil samples collected in the fill at the Site above CCDD MAC values. The analytical results revealed the presence of PNAs in soil samples collected from the native sands at one location of the Site above CCDD MAC values.

The soil analytical results were compared to Tier 1 SROs for the construction worker inhalation and ingestion exposure routes and CCDD MAC values.

Construction Worker SROs

No constituents were encountered at concentrations above the Tier 1 SROs for the construction



worker ingestion or inhalation exposure routes.

Soil Disposal Analytical Results

Multiple inorganic exceedances above the CCDD MAC values were revealed in samples RPM-SB-24-1, RPM-SB-29-1, RPM-SB-33-1 and RPM-SB-35-1. All samples met the pH and PID requirements for CCDD material. The pH range was 7.2 to 8.4, which is within the IEPA established range of 6.25 to 9.0. PID readings were 0.0 ppm.

The PNA constituent dibenz(a,h)anthracene was revealed to be above the CCDD MAC values in sample RPM-SB-24-1 and RPM-SB-33-2. Inorganic constituents lead and mercury were revealed to be above the MAC values were revealed in samples RPM-SB-24-1, RPM-SB-29-1, RPM-SB-33-1 and RPM-SB-35-1.

Therefore the PEC cannot certify any of the soils from these areas of the site to be disposed of at a CCDD facility.

The following table presents the soil sample results which exceeded the CCDD MAC values.

CCDD MAC Values			
Contaminant of Concern	Sample ID	Results	MAC Value
		(mg/kg)	(mg/kg)
Dibenz(a,h)anthracene	RPM-SB-24-1	0.247	0.2
	RPM-SB-33-2	0.26	
Lead	RPM-SB-24-1	140	107
	RPM-SB-33-1	160	
	RPM-SB-35-1	250	
Mercury	RPM-SB-24-1	0.077	0.06
	RPM-SB-29-1	0.065	
	RPM-SB-33-1	0.2	
	RPM-SB-35-1	0.28	

Waste Characterization Analysis

A composite waste characterization sample was collected from the twelve (12) viaduct borings. The results of the sample did not indicate characteristics of hazardous waste. Therefore, all soils that are deemed to be impacted may be disposed of at a Subtitle D facility, and all other materials may be disposed of as CCDD.



4.2 EMBANKMENT BORINGS

4.2.1 Field Observations

Eleven (11) soil borings were conducted at track level between south of the Lawrence Avenue Station to north of the Bryn Mawr Avenue Station. Borings in this area were advanced in the center median of the right-of-way, between the Red Line tracks to a maximum depth of 15 feet bgs. Three samples were collected from each boring: the first from the top three (3) feet bgs; the second from between five and ten (5-10) feet bgs; and the third from below ten (10) feet bgs.

Elevated PID readings were not encountered, all PID readings were 0.0 ppm. The PID readings for each soil boring can be found on the soil boring logs in **Appendix A**. Since no elevated PID readings were encountered, the samples were collected based on field observations.

4.2.2 Soil Conditions

Based upon the results of the site investigation, ballast stone covers the entire study area to a depth of 6 inches to 1 foot bgs. Underlying this, three (3) distinct strata of fill materials were encountered to a depth of 15 feet bgs. The fill layers consisted of the following: a brown to black coarse grained sand with cinders and gravel, and occasional trace amounts of brick fragments, averaging 6 feet in thickness (between 4 and 10 feet thick); a brown silty clay with sand and trace amounts of gravel and cinders averaging 5.5 feet thick (between 4 and 8 feet thick) at all boring locations except RPM-SB-16, RPM-SB-18 and RPM-SB-21; and a dark brown coarse sand with trace gravel and cinders to the boring termination depth of 15 feet bgs.

Particle size analysis and grain size analysis testing were performed to assess the infiltration rates of the three fill layers in the embankment. Design infiltration rates were developed in accordance with Section 3.2.1.1 of the City of Chicago Stormwater Management Ordinance Manual (March 2014). Based on the results of the testing performed, the following infiltration rates were obtained for the embankment soils.

Depth Range (feet)	USDA Soil Texture	Suggested Infiltration Rate (in/hr)
0-5	Sand with gravel	3.6
5-10	Sand trace gravel	3.6
10-15	Silt with sand, trace clay and gravel	0.5

The particle size analysis and grain size analysis are included in Appendix B, Boring Logs.

4.2.3 Analytical Parameters

Select soil samples collected from borings conducted at track level were analyzed for VOCs,



SVOCs/PNAs, TCL/RCRA/Priority Pollutant inorganics, TCLP lead, pesticides, PCBs, and pH.

Constituent	Number of Upper Fill (0'-5') Samples Analyzed	Number of Middle Fill (5'-10') Samples Analyzed	Number of Lower Fill (10'-15') Samples Analyzed
VOCs	11	9	0
SVOCs (full list)	11	1	0
PNAs (reduced list of SVOCs)	0	8	11
RCRA 8 Metals	0	3	11
Priority Pollutant Metals (13)	0	6	0
TAL Metals (22)	11	1	0
TCLP Metals	1	0	0
Pesticides	11	2	0
PCBs	11	10	6
pH	11	1	0

4.2.4 Analytical Results

Constituents detected in the samples along this corridor include PNAs and inorganics.

All of the PNA constituents were detected in the soil samples collected on the elevated tracks.

The soil analytical results were compared to Tier 1 SROs for the construction worker inhalation and ingestion exposure routes and CCDD MAC values.

Construction Worker SROs

The inorganic constituent arsenic was encountered at concentrations exceeding the Tier 1 SRO for the Construction Worker ingestions exposure route in samples RPM-SB-18-1, RPM-SB-19-1, RPM-SB-21-1, RPM-SB-23-1, RPM-SB-26-1, RPM-SB-30-1, RPM-SB-32-1 and RPM-SB-36-3.

No constituents were encountered at concentrations above the Tier 1 SROs for the Construction Worker inhalation exposure route.

The following table presents the soil sample results which exceeded the TACO Tier 1 SROs for the Construction Worker ingestion exposure route.



Tier 1 SROs for the Construction Worker Ingestion Exposure Route			
Contaminant of Concern	Sample ID	Results (mg/kg)	Exposure Route SROs (mg/kg)
Arsenic	RPM-SB-18-1	260	61
	RPM-SB-23-1	300	
	RPM-SB-26-1	290	
	RPM-SB-30-1	96	
	RPM-SB-32-1	110	
	RPM-SB-36-3	81	
Lead	RPM-SB-21-1	880	700
Manganese	RPM-SB-19-1	1,700	1,600
	RPM-SB-26-1	1,900	

Soil Disposal Analytical Results

Multiple PNA exceedances above the CCDD MAC values were revealed in samples RPM-SB-16-3, RPM-SB-23-1, RPM-SB-23-2, RPM-SB-28-1 and RPM-SB-28-3. Inorganic exceedances above the MAC values were revealed in samples RPM-SB-16-1, RPM-SB-16-2, RPM-SB-16-3, RPM-SB-18-1, RPM-SB-18-3, RPM-SB-19-1, RPM-SB-19-3, RPM-SB-21-1, RPM-SB-21-2, RPM-SB-23-1, RPM-SB-23-2, RPM-SB-26-1, RPM-SB-26-3, RPM-SB-28-1, RPM-SB-28-3, RPM-SB-30-1, RPM-SB-30-3, RPM-SB-32-1, RPM-SB-34-1, RPM-SB-34-3, RPM-SB-36-1 and RPM-SB-36-3. Therefore the PEC cannot certify the soils from the site to be disposed of at a CCDD facility.

Based upon the analytical results, sample RPM-SB-23-1 was further analyzed for Toxicity Characteristic Leaching Procedure (TCLP) arsenic to determine the potential presence or absence of hazardous waste. The TCLP arsenic results did not indicate the presence of hazardous levels of lead in sample RPM-SB-23-1.

The following table presents the soil sample results which exceeded the CCDD MAC values. In several samples, the detection limit for selenium exceeded the CCDD MAC value. In that sample the non-detect selenium was considered to be an exceedance.

CCDD MAC Values			
Contaminant of Concern	Sample ID	Results (mg/kg)	MAC Value (mg/kg)
Benz(a)anthracene	RPM-SB-16-3	9.7	1.1
	RPM-SB-23-1	6.7	
	RPM-SB-28-1	2.0	
Benzo(a)pyrene	RPM-SB-16-3	7.7	1.3
	RPM-SB-23-1	5.6	
	RPM-SB-28-1	1.9	



CCDD MAC Values			
Contaminant of Concern	Sample ID	Results (mg/kg)	MAC Value (mg/kg)
Benzo(b)fluoranthene	RPM-SB-16-3	7.0	1.5
	RPM-SB-23-1	4.8	
Dibenz(a,h)anthracene	RPM-SB-16-3	2.4	0.2
	RPM-SB-23-1	1.7	
	RPM-SB-23-2	0.29	
	RPM-SB-28-1	0.52	
	RPM-SB-28-3	0.32	
Ideno(1,2,3-cd)pyrene	RPM-SB-16-3	4.5	0.9
	RPM-SB-23-1	3.2	
	RPM-SB-28-1	1.1	
Arsenic	RPM-SB-16-3	25	13
	RPM-SB-19-3	22	
	RPM-SB-21-1	44	
	RPM-SB-26-3	27	
	RPM-SB-28-3	33	
	RPM-SB-34-3	28	
	RPM-SB-36-1	56	
Chromium	RPM-SB-16-3	25	21
	RPM-SB-19-1	28	
	RPM-SB-21-2	33	
	RPM-SB-23-2	22	
	RPM-SB-26-1	25	
Iron	RPM-SB-18-1	45,000	15,900
	RPM-SB-19-1	47,000	
	RPM-SB-23-1	41,000	
	RPM-SB-26-1	48,000	
	RPM-SB-28-1	45,000	
	RPM-SB-30-1	30,000	
	RPM-SB-32-1	24,000	
	RPM-SB-34-1	22,000	
	RPM-SB-36-1	28,000	
Lead	RPM-SB-16-1	150	107
	RPM-SB-18-1	150	
	RPM-SB-23-1	310	
	RPM-SB-23-2	150	
	RPM-SB-26-1	230	
	RPM-SB-30-1	120	
	RPM-SB-32-1	160	



CCDD MAC Values			
Contaminant of Concern	Sample ID	Results (mg/kg)	MAC Value (mg/kg)
	RPM-SB-34-3	230	
	RPM-SB-36-3	350	
Manganese	RPM-SB-18-1	700	636
	RPM-SB-30-1	700	
	RPM-SB-32-1	1,300	
Mercury	RPM-SB-16-2	0.22	0.06
	RPM-SB-18-1	0.062	
	RPM-SB-18-3	0.061	
	RPM-SB-23-1	0.13	
	RPM-SB-23-2	0.11	
	RPM-SB-26-1	0.073	
	RPM-SB-28-1	0.1	
	RPM-SB-28-3	0.072	
	RPM-SB-29-1	0.065	
	RPM-SB-30-3	0.064	
	RPM-SB-32-1	0.083	
	RPM-SB-34-1	0.11	
	RPM-SB-36-1	0.66	
	RPM-SB-36-3	0.11	
Selenium	RPM-SB-19-3	2.9	1.3
	RPM-SB-34-3	1.5	
	RPM-SB-36-3	1.6	

Waste Characterization Analysis

Composite waste characterization samples were collected from the eleven (11) embankment borings. The results of the sample did not indicate characteristics of hazardous waste. Therefore, all soils that are deemed to be impacted may be disposed of at a Subtitle D facility, and all other materials may be disposed of as CCDD.



5.0 RECOMMENDATIONS

5.1 VIADUCT (STREET LEVEL)

5.1.1 Recommendations

5.1.1.1 Construction Worker Precaution Area

Based on soil analytical results a construction worker precaution area is not warranted for the viaduct locations because none of the constituents detected exceeded the TACO construction worker SROs.

5.1.1.2 Soil Disposal

Four of the twelve soil boring locations contain soil in the fill layer that exceeds the CCDD MAC values. By the nature of their geographic settings, the viaduct samples are not contiguous and each location should be handled separately. Therefore, all fill material from the viaduct locations is considered “clean” and may be disposed of at a CCDD facility, with the notable exception of earthwork done in the immediate vicinity of the following locations:

- RPM-SB-24
- RPM-SB-29
- RPM-SB-33
- RPM-SB-37

Soils generated from the fill layer at these locations should be disposed of as a non-special waste at a licensed Subtitle D landfill, in accordance applicable local, state, and federal regulations.

One of the twelve soil boring locations (RPM-SB-33) contains soil in the native sand layer that exceeds the CCDD MAC values. Therefore, all native sand from the other viaduct locations is considered “clean” and may be disposed of at a CCDD facility. Soils generated from the native sands at RPM-SB-33 should be disposed of as a non-special waste at a licensed Subtitle D landfill, in accordance applicable local, state, and federal regulations.

As the design is progressed, additional value engineering is recommended to further delineate the extent of CCDD soils which could minimize the volume of material disposal at a Subtitle D landfill.

5.2 EMBANKMENT

5.2.1 Recommendations



5.2.1.1 Construction Worker Precaution Area

A construction worker precaution area should be implemented at RPM-SB-18, RPM-SB-19, RPM-SB-21, RPM-SB-23, RPM-SB-26, RPM-SB-30 and RPM-SB-32 for work to a minimum of three (3) feet bgs and at RPM-SB-36 for work to a minimum depth of fifteen (15) feet bgs.

5.2.1.2 Soil Disposal

The uppermost fill layer at all locations exceeds the CCDD MAC values. The middle fill layer at all locations, with the exception of RPM-SB-26, RPM-SB-28 and RPM-SB-30, exceeds the CCDD MAC values. The lowest fill layer at all locations, with the exception of RPM-SB-21 and RPM-SB-23, exceeds the CCDD MAC values. Soils generated from these locations should be disposed of as a non-special waste at a licensed Subtitle D landfill, in accordance applicable local, state, and federal regulations. All other soils may be disposed of at a CCDD facility.

As the design is progressed, additional value engineering is recommended to further delineate the extent of CCDD soils which could minimize the volume of material disposal at a Subtitle D landfill.

Boring Location	Depth	CCDD	Subtitle D
RPM-SB-15	1-3 feet	Yes	No
	7-9 feet	Yes	No
RPM-SB-16	1-3 feet	No	Yes
	5-7 feet	No	Yes
	11-13 feet	No	Yes
RPM-SB-17	1-3 feet	Yes	No
	7-9 feet	Yes	No
RPM-SB-18	1-3 feet	No	Yes
	6-8 feet	Yes	No
	13-15 feet	No	Yes
RPM-SB-19	1-3 feet	No	Yes
	6-8 feet	Yes	No
	12-14 feet	No	Yes
RPM-SB-20	1-3 feet	Yes	No
	8-10 feet	Yes	No
RPM-SB-21	1-3 feet	No	Yes
	6-8 feet	No	Yes
	13-15 feet	Yes	No
RPM-SB-22	1-3 feet	Yes	No
	6-8 feet	Yes	No
RPM-SB-23	1-3 feet	No	Yes
	6-8 feet	No	Yes



Boring Location	Depth	CCDD	Subtitle D
	12-14 feet	Yes	No
RPM-SB-24	1-3 feet	No	Yes
	7-9 feet	Yes	No
RPM-SB-25	1-3 feet	Yes	No
	8-10 feet	Yes	No
RPM-SB-26	1-3 feet	No	Yes
	7-9 feet	Yes	No
	12-14 feet	No	Yes
RPM-SB-27	1-3 feet	Yes	No
	6-8 feet	Yes	No
RPM-SB-28	1-3 feet	No	Yes
	6-8 feet	Yes	No
	13-15 feet	No	Yes
RPM-SB-29	1-3 feet	No	Yes
	7-9 feet	Yes	No
RPM-SB-30	1-3 feet	No	Yes
	6-8 feet	Yes	No
	11-13 feet	No	Yes
RPM-SB-31	1-3 feet	Yes	No
	8-10 feet	No	Yes
RPM-SB-32	1-3 feet	No	Yes
	7-9 feet	Yes	No
	13-15 feet	Yes	No
RPM-SB-33	1-3 feet	No	Yes
	7-9 feet	No	Yes
RPM-SB-34	1-3 feet	No	Yes
	6-8 feet	Yes	No
	13-15 feet	No	Yes
RPM-SB-35	1-3 feet	No	Yes
	6-8 feet	Yes	No
RPM-SB-36	1-3 feet	No	Yes
	6-8 feet	Yes	No
	13-15 feet	No	Yes
RPM-SB-37	1-3 feet	Yes	No
	6-8 feet	Yes	No



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TABLE 1
VOCs and BTEX
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-15-1	RPM-SB-15-2	RPM-SB-16-1	RPM-SB-16-2	RPM-SB-18-1	RPM-SB-18-2
	Ingestion	Inhalation			12/11/2014	12/11/2014	1/20/2015	1/20/2015	1/20/2015	1/20/2015
					Depth (feet):	1-3 feet	5-7 feet	1-3 feet	5-7 feet	1-3 feet
VOCs										
Acetone	-----	100,000	25		< 0.085	< 0.17	< 0.12	< 0.16	< 0.094	< 0.11
Benzene	2,300	2.2	0.03		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
Bromodichloromethane	2,000	3,000	0.6		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
Bromoform	16,000	140	0.8		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
Bromomethane	1,000	3.9	0.2		< 0.011	< 0.023	< 0.016	< 0.021	< 0.012	< 0.015
2-Butanone	NC	NC	NC		< 0.085	< 0.17	< 0.12	< 0.16	< 0.094	< 0.11
Carbon disulfide	20,000	9.0	9		< 0.057	< 0.12	< 0.080	< 0.11	< 0.062	< 0.074
Carbon tetrachloride	410	0.90	0.07		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
Chlorobenzene	4,100	1.3	NC		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
Chloroethane	NC	NC	NC		< 0.011	< 0.023	< 0.016	< 0.021	< 0.012	< 0.015
Chloroform	2,000	0.76	0.3		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
Chloromethane	NC	NC	NC		< 0.011	< 0.023	< 0.016	< 0.021	< 0.012	< 0.015
Dibromochloromethane	41,000	1,300	0.4		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
1,1-Dichloroethane	200,000	130	NC		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
1,2-Dichloroethane	1,400	0.99	NC		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
1,1-Dichloroethene	10,000	3.0	NC		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
cis-1,2-Dichloroethene	20,000	1,200	NC		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
trans-1,2-Dichloroethene	41,000	3,100	NC		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
1,2-Dichloropropane	1,800	0.50	NC		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
cis-1,3-Dichloropropene	1200	0.39	0.005		< 0.0023	< 0.0046	< 0.0032	< 0.0042	< 0.0025	< 0.0030
trans-1,3-Dichloropropene	1200	0.39	0.005		< 0.0023	< 0.0046	< 0.0032	< 0.0042	< 0.0025	< 0.0030
Ethylbenzene	20,000	58	13		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
2-Hexanone	NC	NC	NC		< 0.023	< 0.046	< 0.032	< 0.042	< 0.025	< 0.030
4-Methyl-2-pentanone	NC	NC	NC		< 0.023	< 0.046	< 0.032	< 0.042	< 0.025	< 0.030
Methylene chloride	12,000	34	0.02		< 0.011	< 0.023	< 0.016	< 0.021	< 0.012	< 0.015
Methyl tert-butyl ether	2,000	140	0.32		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
Styrene	41,000	430	4		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
1,1,2,2-Tetrachloroethane	NC	NC	NC		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
Tetrachloroethene	2,400	28	NC		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
Toluene	410,000	42	12		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
1,1,1-Trichloroethane	---	1,200	2		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
1,1,2-Trichloroethane	8,200	1,800	0.2		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
Trichloroethene	1,200	12	NC		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
Vinyl chloride	170	1.1	0.01		< 0.0057	< 0.012	< 0.0080	< 0.011	< 0.0062	< 0.0074
Xylenes, Total	41,000	5.6	5.6		< 0.017	< 0.035	< 0.024	< 0.032	< 0.019	< 0.022

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent



TABLE 1
VOCs and BTEX
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-19-1	RPM-SB-19-2	RPM-SB-21-1	RPM-SB-21-2	RPM-SB-23-1	RPM-SB-23-2
	Ingestion	Inhalation			1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015
					Depth (feet):	1-3 feet	6-8 feet	1-3 feet	6-8 feet	1-3 feet
VOCs										
Acetone	-----	100,000	25		< 0.11	< 0.082	< 0.10	< 0.22	< 0.12	< 0.16
Benzene	2,300	2.2	0.03		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
Bromodichloromethane	2,000	3,000	0.6		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
Bromoform	16,000	140	0.8		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
Bromomethane	1,000	3.9	0.2		< 0.014	< 0.011	< 0.014	< 0.030	< 0.016	< 0.021
2-Butanone	NC	NC	NC		< 0.11	< 0.082	< 0.10	< 0.22	< 0.12	< 0.16
Carbon disulfide	20,000	9.0	9		< 0.072	< 0.055	< 0.068	< 0.15	< 0.078	< 0.11
Carbon tetrachloride	410	0.90	0.07		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
Chlorobenzene	4,100	1.3	NC		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
Chloroethane	NC	NC	NC		< 0.014	< 0.011	< 0.014	< 0.030	< 0.016	< 0.021
Chloroform	2,000	0.76	0.3		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
Chloromethane	NC	NC	NC		< 0.014	< 0.011	< 0.014	< 0.030	< 0.016	< 0.021
Dibromochloromethane	41,000	1,300	0.4		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
1,1-Dichloroethane	200,000	130	NC		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
1,2-Dichloroethane	1,400	0.99	NC		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
1,1-Dichloroethene	10,000	3.0	NC		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
cis-1,2-Dichloroethene	20,000	1,200	NC		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
trans-1,2-Dichloroethene	41,000	3,100	NC		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
1,2-Dichloropropane	1,800	0.50	NC		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
cis-1,3-Dichloropropene	1200	0.39	0.005		< 0.0029	< 0.0022	< 0.0027	< 0.0059	< 0.0031	< 0.0043
trans-1,3-Dichloropropene	1200	0.39	0.005		< 0.0029	< 0.0022	< 0.0027	< 0.0059	< 0.0031	< 0.0043
Ethylbenzene	20,000	58	13		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
2-Hexanone	NC	NC	NC		< 0.029	< 0.022	< 0.027	< 0.059	< 0.031	< 0.043
4-Methyl-2-pentanone	NC	NC	NC		< 0.029	< 0.022	< 0.027	< 0.059	< 0.031	< 0.043
Methylene chloride	12,000	34	0.02		< 0.014	< 0.011	< 0.014	< 0.030	< 0.016	< 0.021
Methyl tert-butyl ether	2,000	140	0.32		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
Styrene	41,000	430	4		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
1,1,2,2-Tetrachloroethane	NC	NC	NC		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
Tetrachloroethene	2,400	28	NC		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
Toluene	410,000	42	12		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
1,1,1-Trichloroethane	---	1,200	2		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
1,1,2-Trichloroethane	8,200	1,800	0.2		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
Trichloroethene	1,200	12	NC		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
Vinyl chloride	170	1.1	0.01		< 0.0072	< 0.0055	< 0.0068	< 0.015	< 0.0078	< 0.011
Xylenes, Total	41,000	5.6	5.6		< 0.022	< 0.016	< 0.020	< 0.044	< 0.023	< 0.032

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent



TABLE 1
VOCs and BTEX
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-26-1	RPM-SB-26-2	RPM-SB-27-2	RPM-SB-28-1	RPM-SB-28-2	RPM-SB-29-2
	Ingestion	Inhalation			1/22/2015	1/22/2015	12/12/2014	1/22/2015	1/22/2015	12/12/2014
					Depth (feet):	1-3 feet	7-9 feet	6-8 feet	1-3 feet	6-8 feet
VOCs										
Acetone	-----	100,000	25		< 0.082	< 0.086	< 0.093	< 0.14	< 0.073	< 0.085
Benzene	2,300	2.2	0.03		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
Bromodichloromethane	2,000	3,000	0.6		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
Bromoform	16,000	140	0.8		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
Bromomethane	1,000	3.9	0.2		< 0.011	< 0.011	< 0.012	< 0.018	< 0.0097	< 0.011
2-Butanone	NC	NC	NC		< 0.082	< 0.086	< 0.093	< 0.14	< 0.073	< 0.085
Carbon disulfide	20,000	9.0	9		< 0.054	< 0.057	< 0.062	< 0.090	< 0.048	< 0.057
Carbon tetrachloride	410	0.90	0.07		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
Chlorobenzene	4,100	1.3	NC		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
Chloroethane	NC	NC	NC		< 0.011	< 0.011	< 0.012	< 0.018	< 0.0097	< 0.011
Chloroform	2,000	0.76	0.3		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
Chloromethane	NC	NC	NC		< 0.011	< 0.011	< 0.012	< 0.018	< 0.0097	< 0.011
Dibromochloromethane	41,000	1,300	0.4		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
1,1-Dichloroethane	200,000	130	NC		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
1,2-Dichloroethane	1,400	0.99	NC		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
1,1-Dichloroethene	10,000	3.0	NC		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
cis-1,2-Dichloroethene	20,000	1,200	NC		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
trans-1,2-Dichloroethene	41,000	3,100	NC		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
1,2-Dichloropropane	1,800	0.50	NC		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
cis-1,3-Dichloropropene	1200	0.39	0.005		< 0.0022	< 0.0023	< 0.0025	< 0.0036	< 0.0019	< 0.0023
trans-1,3-Dichloropropene	1200	0.39	0.005		< 0.0022	< 0.0023	< 0.0025	< 0.0036	< 0.0019	< 0.0023
Ethylbenzene	20,000	58	13		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
2-Hexanone	NC	NC	NC		< 0.022	< 0.023	< 0.025	< 0.036	< 0.019	< 0.023
4-Methyl-2-pentanone	NC	NC	NC		< 0.022	< 0.023	< 0.025	< 0.036	< 0.019	< 0.023
Methylene chloride	12,000	34	0.02		< 0.011	< 0.011	< 0.012	< 0.018	< 0.0097	< 0.011
Methyl tert-butyl ether	2,000	140	0.32		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
Styrene	41,000	430	4		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
1,1,2,2-Tetrachloroethane	NC	NC	NC		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
Tetrachloroethene	2,400	28	NC		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
Toluene	410,000	42	12		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
1,1,1-Trichloroethane	---	1,200	2		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
1,1,2-Trichloroethane	8,200	1,800	0.2		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
Trichloroethene	1,200	12	NC		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
Vinyl chloride	170	1.1	0.01		< 0.0054	< 0.0057	< 0.0062	< 0.0090	< 0.0048	< 0.0057
Xylenes, Total	41,000	5.6	5.6		< 0.016	< 0.017	< 0.019	< 0.027	< 0.015	< 0.017

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent



TABLE 1
VOCs and BTEX
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-30-1	RPM-SB-31-2	RPM-SB-32-1	RPM-SB-32-2	RPM-SB-34-1	RPM-SB-34-2	
	Ingestion	Inhalation			1/22/2015	12/12/2014	1/22/2015	1/22/2015	1/22/2015	1/22/2015	1/22/2015
					Depth (feet):	1-3 feet	8-10 feet	1-3 feet	7-9 feet	1-3 feet	6-8 feet
VOCs											
Acetone	-----	100,000	25		< 0.089	< 0.087	< 0.11	< 0.091	< 0.14	< 0.070	
Benzene	2,300	2.2	0.03		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
Bromodichloromethane	2,000	3,000	0.6		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
Bromoform	16,000	140	0.8		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
Bromomethane	1,000	3.9	0.2		< 0.012	< 0.012	< 0.015	< 0.012	< 0.019	< 0.0094	
2-Butanone	NC	NC	NC		< 0.089	< 0.087	< 0.11	< 0.091	< 0.14	< 0.070	
Carbon disulfide	20,000	9.0	9		< 0.060	< 0.058	< 0.075	< 0.060	< 0.095	< 0.047	
Carbon tetrachloride	410	0.90	0.07		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
Chlorobenzene	4,100	1.3	NC		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
Chloroethane	NC	NC	NC		< 0.012	< 0.012	< 0.015	< 0.012	< 0.019	< 0.0094	
Chloroform	2,000	0.76	0.3		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
Chloromethane	NC	NC	NC		< 0.012	< 0.012	< 0.015	< 0.012	< 0.019	< 0.0094	
Dibromochloromethane	41,000	1,300	0.4		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
1,1-Dichloroethane	200,000	130	NC		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
1,2-Dichloroethane	1,400	0.99	NC		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
1,1-Dichloroethene	10,000	3.0	NC		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
cis-1,2-Dichloroethene	20,000	1,200	NC		< 0.0060	0.021	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
trans-1,2-Dichloroethene	41,000	3,100	NC		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
1,2-Dichloropropane	1,800	0.50	NC		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
cis-1,3-Dichloropropene	1200	0.39	0.005		< 0.0024	< 0.0023	< 0.0030	< 0.0024	< 0.0038	< 0.0019	
trans-1,3-Dichloropropene	1200	0.39	0.005		< 0.0024	< 0.0023	< 0.0030	< 0.0024	< 0.0038	< 0.0019	
Ethylbenzene	20,000	58	13		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
2-Hexanone	NC	NC	NC		< 0.024	< 0.023	< 0.030	< 0.024	< 0.038	< 0.019	
4-Methyl-2-pentanone	NC	NC	NC		< 0.024	< 0.023	< 0.030	< 0.024	< 0.038	< 0.019	
Methylene chloride	12,000	34	0.02		< 0.012	< 0.012	< 0.015	< 0.012	< 0.019	< 0.0094	
Methyl tert-butyl ether	2,000	140	0.32		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
Styrene	41,000	430	4		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
1,1,2,2-Tetrachloroethane	NC	NC	NC		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
Tetrachloroethene	2,400	28	NC		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
Toluene	410,000	42	12		< 0.0060	< 0.0058	0.039	< 0.0060	< 0.0095	< 0.0047	
1,1,1-Trichloroethane	---	1,200	2		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
1,1,2-Trichloroethane	8,200	1,800	0.2		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
Trichloroethene	1,200	12	NC		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
Vinyl chloride	170	1.1	0.01		< 0.0060	< 0.0058	< 0.0075	< 0.0060	< 0.0095	< 0.0047	
Xylenes, Total	41,000	5.6	5.6		< 0.018	< 0.017	< 0.023	< 0.018	< 0.028	< 0.014	

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent



TABLE 1
VOCs and BTEX
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-35-2	RPM-SB-36-1
	Ingestion	Inhalation			12/12/2014	1/22/2015
				Depth (feet):	6-8 feet	1-3 feet
VOCs						
Acetone	-----	100,000	25		< 0.077	< 0.12
Benzene	2,300	2.2	0.03		< 0.0051	< 0.0083
Bromodichloromethane	2,000	3,000	0.6		< 0.0051	< 0.0083
Bromoform	16,000	140	0.8		< 0.0051	< 0.0083
Bromomethane	1,000	3.9	0.2		< 0.010	< 0.017
2-Butanone	NC	NC	NC		< 0.077	< 0.12
Carbon disulfide	20,000	9.0	9		< 0.051	< 0.083
Carbon tetrachloride	410	0.90	0.07		< 0.0051	< 0.0083
Chlorobenzene	4,100	1.3	NC		< 0.0051	< 0.0083
Chloroethane	NC	NC	NC		< 0.010	< 0.017
Chloroform	2,000	0.76	0.3		< 0.0051	< 0.0083
Chloromethane	NC	NC	NC		< 0.010	< 0.017
Dibromochloromethane	41,000	1,300	0.4		< 0.0051	< 0.0083
1,1-Dichloroethane	200,000	130	NC		< 0.0051	< 0.0083
1,2-Dichloroethane	1,400	0.99	NC		< 0.0051	< 0.0083
1,1-Dichloroethene	10,000	3.0	NC		< 0.0051	< 0.0083
cis-1,2-Dichloroethene	20,000	1,200	NC		< 0.0051	< 0.0083
trans-1,2-Dichloroethene	41,000	3,100	NC		< 0.0051	< 0.0083
1,2-Dichloropropane	1,800	0.50	NC		< 0.0051	< 0.0083
cis-1,3-Dichloropropene	1200	0.39	0.005		< 0.0020	< 0.0033
trans-1,3-Dichloropropene	1200	0.39	0.005		< 0.0020	< 0.0033
Ethylbenzene	20,000	58	13		< 0.0051	< 0.0083
2-Hexanone	NC	NC	NC		< 0.020	< 0.033
4-Methyl-2-pentanone	NC	NC	NC		< 0.020	< 0.033
Methylene chloride	12,000	34	0.02		< 0.010	< 0.017
Methyl tert-butyl ether	2,000	140	0.32		< 0.0051	< 0.0083
Styrene	41,000	430	4		< 0.0051	< 0.0083
1,1,2,2-Tetrachloroethane	NC	NC	NC		< 0.0051	< 0.0083
Tetrachloroethene	2,400	28	NC		< 0.0051	< 0.0083
Toluene	410,000	42	12		< 0.0051	< 0.0083
1,1,1-Trichloroethane	---	1,200	2		< 0.0051	< 0.0083
1,1,2-Trichloroethane	8,200	1,800	0.2		< 0.0051	< 0.0083
Trichloroethene	1,200	12	NC		< 0.0051	< 0.0083
Vinyl chloride	170	1.1	0.01		< 0.0051	< 0.0083
Xylenes, Total	41,000	5.6	5.6		< 0.015	< 0.025

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent



TABLE 2
SVOCs and PNAs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	RPM-SB-15-1	RPM-SB-15-2	RPM-SB-16-1	RPM-SB-16-2	RPM-SB-16-3	RPM-SB-17-1	RPM-SB-17-2	RPM-SB-18-1	RPM-SB-18-2	
	Ingestion	Inhalation		Date:	12/11/2014	12/11/2014	1/20/2015	1/20/2015	1/20/2015	12/11/2014	12/11/2014	1/20/2015	1/20/2015
				Depth (feet):	1-3 feet	5-7 feet	1-3 feet	5-7 feet	11-13 feet	1-3 feet	7-9 feet	1-3 feet	6-8 feet
SVOCs													
Aniline	NC	NC	NC	NA	< 0.67	< 0.41	NA	NA	NA	NA	< 0.37	NA	
Benzidine	NC	NC	NC	NA	< 0.67	< 0.40	NA	NA	NA	NA	< 0.37	NA	
Benzoic acid	820,000	NC	400	NA	< 1.7	< 1.0	NA	NA	NA	NA	< 0.92	NA	
Benzyl alcohol	NC	NC	NC	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
Bis(2-chloroethoxy)methane	NC	NC	NC	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
Bis(2-chloroethyl)ether	75	0.66	0.66	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
Bis(2-ethylhexyl)phthalate	4,100	31,000	46	NA	< 1.7	< 1.0	NA	NA	NA	NA	1.1	NA	
4-Bromophenyl phenyl ether	NC	NC	NC	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
Butyl benzyl phthalate	410,000	930	930	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
Carbazole	6,200	NC	0.6	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
4-Chloroaniline	820	NC	0.7	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
4-Chloro-3-methylphenol	NC	NC	NC	NA	< 0.67	< 0.40	NA	NA	NA	NA	< 0.37	NA	
2-Chloronaphthalene	NC	NC	NC	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
2-Chlorophenol	10,000	53,000	1.5	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
4-Chlorophenyl phenyl ether	NC	NC	NC	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
Dibenzofuran	NC	NC	NC	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
1,2-Dichlorobenzene	18,000	310	17	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
1,3-Dichlorobenzene	NC	NC	NC	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
1,4-Dichlorobenzene	NC	340	2	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
3,3'-Dichlorobenzidine	280	NC	1.3	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
2,4-Dichlorophenol	610	NC	1.5	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
Diethyl phthalate	1,000,000	2,000	470	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
2,4-Dimethylphenol	41,000	NC	9	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
Dimethyl phthalate	NC	NC	NC	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NA	< 0.67	< 0.40	NA	NA	NA	NA	< 0.37	NA	
2,4-Dinitrophenol	410	NC	3.3	NA	< 1.7	< 1.0	NA	NA	NA	NA	< 0.92	NA	
2,4-Dinitrotoluene	180	NC	0.25	NA	< 0.067	< 0.040	NA	NA	NA	NA	< 0.037	NA	
2,6-Dinitrotoluene	180	NC	0.26	NA	< 0.067	< 0.040	NA	NA	NA	NA	< 0.037	NA	
Di-n-butyl phthalate	200,000	2,300	NC	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
Di-n-octyl phthalate	4,100	10,000	1600	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
Hexachlorobenzene	78	2.6	0.4	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
Hexachlorobutadiene	NC	NC	NC	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
Hexachlorocyclopentadiene	14,000	1.1	1.1	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
Hexachloroethane	2,000	NC	0.5	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
Isophorone	410,000	4,600	8	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
2-Methylnaphthalene	NC	NC	NC	NA	< 0.34	< 0.21	NA	NA	NA	NA	0.38	NA	
2-Methylphenol	100,000	NC	15	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
4-Methylphenol	NC	NC	NC	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
2-Nitroaniline	NC	NC	NC	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
3-Nitroaniline	NC	NC	NC	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
4-Nitroaniline	NC	NC	NC	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
2-Nitrophenol	NC	NC	NC	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
4-Nitrophenol	NC	NC	NC	NA	< 0.67	< 0.40	NA	NA	NA	NA	< 0.37	NA	
Nitrobenzene	1,000	9.4	0.26	NA	< 0.067	< 0.040	NA	NA	NA	NA	< 0.037	NA	
N-Nitrosodimethylamine	NC	NC	NC	NA	< 0.067	< 0.040	NA	NA	NA	NA	< 0.037	NA	
N-Nitrosodiphenylamine	25,000	NC	1	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
2,2'-oxybis(1-Chloropropane)	NC	NC	NC	NA	< 0.067	< 0.040	NA	NA	NA	NA	< 0.037	NA	
Phenol	61,000	NC	100	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
Pyridine	NC	NC	NC	NA	< 0.067	< 0.040	NA	NA	NA	NA	< 0.037	NA	
1,2,4-Trichlorobenzene	2000	920	5	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
2,4,5-Trichlorophenol	200,000	NC	26	NA	< 1.4	< 0.82	NA	NA	NA	NA	< 0.74	NA	
2,4,6-Trichlorophenol	11,000	540	0.66	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
N-Nitrosodi-n-propylamine	18	NC	0.0018	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	
Pentachlorophenol	520	NC	NC	NA	< 0.34	< 0.21	NA	NA	NA	NA	< 0.19	NA	



TABLE 2
SVOCs and PNAs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	RPM-SB-18-3	RPM-SB-19-1	RPM-SB-19-2	RPM-SB-19-3	RPM-SB-20-1	RPM-SB-20-2	RPM-SB-21-1	RPM-SB-21-2	RPM-SB-21-3	
	Ingestion	Inhalation		Date:	1/20/2015	1/20/2015	1/20/2015	1/20/2015	12/11/2014	12/11/2014	1/20/2015	1/20/2015	1/20/2015
				Depth (feet):	13-15 feet	1-3 feet	6-8 feet	12-14 feet	1-3 feet	8-10 feet	1-3 feet	6-8 feet	13-15 feet
SVOCs													
Aniline	NC	NC	NC	NA	< 0.44	NA	NA	NA	NA	< 0.36	NA	NA	
Benzidine	NC	NC	NC	NA	< 0.44	NA	NA	NA	NA	< 0.35	NA	NA	
Benzoic acid	820,000	NC	400	NA	< 1.1	NA	NA	NA	NA	< 0.89	NA	NA	
Benzyl alcohol	NC	NC	NC	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
Bis(2-chloroethoxy)methane	NC	NC	NC	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
Bis(2-chloroethyl)ether	75	0.66	0.66	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
Bis(2-ethylhexyl)phthalate	4,100	31,000	46	NA	< 1.1	NA	NA	NA	NA	< 0.89	NA	NA	
4-Bromophenyl phenyl ether	NC	NC	NC	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
Butyl benzyl phthalate	410,000	930	930	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
Carbazole	6,200	NC	0.6	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
4-Chloroaniline	820	NC	0.7	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
4-Chloro-3-methylphenol	NC	NC	NC	NA	< 0.44	NA	NA	NA	NA	< 0.35	NA	NA	
2-Chloronaphthalene	NC	NC	NC	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
2-Chlorophenol	10,000	53,000	1.5	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
4-Chlorophenyl phenyl ether	NC	NC	NC	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
Dibenzofuran	NC	NC	NC	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
1,2-Dichlorobenzene	18,000	310	17	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
1,3-Dichlorobenzene	NC	NC	NC	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
1,4-Dichlorobenzene	NC	340	2	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
3,3'-Dichlorobenzidine	280	NC	1.3	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
2,4-Dichlorophenol	610	NC	1.5	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
Diethyl phthalate	1,000,000	2,000	470	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
2,4-Dimethylphenol	41,000	NC	9	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
Dimethyl phthalate	NC	NC	NC	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NA	< 0.44	NA	NA	NA	NA	< 0.35	NA	NA	
2,4-Dinitrophenol	410	NC	3.3	NA	< 1.1	NA	NA	NA	NA	< 0.89	NA	NA	
2,4-Dinitrotoluene	180	NC	0.25	NA	< 0.044	NA	NA	NA	NA	< 0.035	NA	NA	
2,6-Dinitrotoluene	180	NC	0.26	NA	< 0.044	NA	NA	NA	NA	< 0.035	NA	NA	
Di-n-butyl phthalate	200,000	2,300	NC	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
Di-n-octyl phthalate	4,100	10,000	1600	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
Hexachlorobenzene	78	2.6	0.4	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
Hexachlorobutadiene	NC	NC	NC	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
Hexachlorocyclopentadiene	14,000	1.1	1.1	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
Hexachloroethane	2,000	NC	0.5	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
Isophorone	410,000	4,600	8	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
2-Methylnaphthalene	NC	NC	NC	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
2-Methylphenol	100,000	NC	15	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
4-Methylphenol	NC	NC	NC	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
2-Nitroaniline	NC	NC	NC	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
3-Nitroaniline	NC	NC	NC	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
4-Nitroaniline	NC	NC	NC	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
2-Nitrophenol	NC	NC	NC	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
4-Nitrophenol	NC	NC	NC	NA	< 0.44	NA	NA	NA	NA	< 0.35	NA	NA	
Nitrobenzene	1,000	9.4	0.26	NA	< 0.044	NA	NA	NA	NA	< 0.035	NA	NA	
N-Nitrosodimethylamine	NC	NC	NC	NA	< 0.044	NA	NA	NA	NA	< 0.035	NA	NA	
N-Nitrosodiphenylamine	25,000	NC	1	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
2,2'-oxybis(1-Chloropropane)	NC	NC	NC	NA	< 0.044	NA	NA	NA	NA	< 0.035	NA	NA	
Phenol	61,000	NC	100	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
Pyridine	NC	NC	NC	NA	< 0.044	NA	NA	NA	NA	< 0.035	NA	NA	
1,2,4-Trichlorobenzene	2000	920	5	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
2,4,5-Trichlorophenol	200,000	NC	26	NA	< 0.89	NA	NA	NA	NA	< 0.72	NA	NA	
2,4,6-Trichlorophenol	11,000	540	0.66	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
N-Nitrosodi-n-propylamine	18	NC	0.0018	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	
Pentachlorophenol	520	NC	NC	NA	< 0.23	NA	NA	NA	NA	< 0.18	NA	NA	



TABLE 2
SVOCs and PNAs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC										
	Ingestion	Inhalation		Date:	RPM-SB-22-1	RPM-SB-22-2	RPM-SB-23-1	RPM-SB-23-2	RPM-SB-23-3	RPM-SB-24-1	RPM-SB-24-2	RPM-SB-25-1	RPM-SB-25-2
				Depth (feet):	12/11/2014	12/11/2014	1/20/2015	1/20/2015	1/20/2015	12/11/2014	12/11/2014	12/11/2014	12/11/2014
SVOCs				1-3 feet	6-8 feet	1-3 feet	6-8 feet	12-14 feet	1-3 feet	7-9 feet	1-3 feet	8-10 feet	
Aniline	NC	NC	NC	NA	NA	< 0.37	< 0.39	NA	NA	NA	NA	NA	
Benzidine	NC	NC	NC	NA	NA	< 0.36	< 0.38	NA	NA	NA	NA	NA	
Benzoic acid	820,000	NC	400	NA	NA	< 0.91	< 0.96	NA	NA	NA	NA	NA	
Benzyl alcohol	NC	NC	NC	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Bis(2-chloroethoxy)methane	NC	NC	NC	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Bis(2-chloroethyl)ether	75	0.66	0.66	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Bis(2-ethylhexyl)phthalate	4,100	31,000	46	NA	NA	< 0.91	< 0.96	NA	NA	NA	NA	NA	
4-Bromophenyl phenyl ether	NC	NC	NC	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Butyl benzyl phthalate	410,000	930	930	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Carbazole	6,200	NC	0.6	NA	NA	0.50	< 0.20	NA	NA	NA	NA	NA	
4-Chloroaniline	820	NC	0.7	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
4-Chloro-3-methylphenol	NC	NC	NC	NA	NA	< 0.36	< 0.38	NA	NA	NA	NA	NA	
2-Chloronaphthalene	NC	NC	NC	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2-Chlorophenol	10,000	53,000	1.5	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
4-Chlorophenyl phenyl ether	NC	NC	NC	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Dibenzofuran	NC	NC	NC	NA	NA	0.22	< 0.20	NA	NA	NA	NA	NA	
1,2-Dichlorobenzene	18,000	310	17	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
1,3-Dichlorobenzene	NC	NC	NC	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
1,4-Dichlorobenzene	NC	340	2	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
3,3'-Dichlorobenzidine	280	NC	1.3	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2,4-Dichlorophenol	610	NC	1.5	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Diethyl phthalate	1,000,000	2,000	470	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2,4-Dimethylphenol	41,000	NC	9	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Dimethyl phthalate	NC	NC	NC	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NA	NA	< 0.36	< 0.38	NA	NA	NA	NA	NA	
2,4-Dinitrophenol	410	NC	3.3	NA	NA	< 0.91	< 0.96	NA	NA	NA	NA	NA	
2,4-Dinitrotoluene	180	NC	0.25	NA	NA	< 0.036	< 0.038	NA	NA	NA	NA	NA	
2,6-Dinitrotoluene	180	NC	0.26	NA	NA	< 0.036	< 0.038	NA	NA	NA	NA	NA	
Di-n-butyl phthalate	200,000	2,300	NC	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Di-n-octyl phthalate	4,100	10,000	1600	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Hexachlorobenzene	78	2.6	0.4	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Hexachlorobutadiene	NC	NC	NC	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Hexachlorocyclopentadiene	14,000	1.1	1.1	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Hexachloroethane	2,000	NC	0.5	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Isophorone	410,000	4,600	8	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2-Methylnaphthalene	NC	NC	NC	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2-Methylphenol	100,000	NC	15	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
4-Methylphenol	NC	NC	NC	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2-Nitroaniline	NC	NC	NC	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
3-Nitroaniline	NC	NC	NC	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2-Nitrophenol	NC	NC	NC	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
4-Nitrophenol	NC	NC	NC	NA	NA	< 0.36	< 0.38	NA	NA	NA	NA	NA	
Nitrobenzene	1,000	9.4	0.26	NA	NA	< 0.036	< 0.038	NA	NA	NA	NA	NA	
N-Nitrosodimethylamine	NC	NC	NC	NA	NA	< 0.036	< 0.038	NA	NA	NA	NA	NA	
N-Nitrosodiphenylamine	25,000	NC	1	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2,2'-oxybis(1-Chloropropane)	NC	NC	NC	NA	NA	< 0.036	< 0.038	NA	NA	NA	NA	NA	
Phenol	61,000	NC	100	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Pyridine	NC	NC	NC	NA	NA	< 0.036	< 0.038	NA	NA	NA	NA	NA	
1,2,4-Trichlorobenzene	2000	920	5	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
2,4,5-Trichlorophenol	200,000	NC	26	NA	NA	< 0.74	< 0.78	NA	NA	NA	NA	NA	
2,4,6-Trichlorophenol	11,000	540	0.66	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
N-Nitrosodi-n-propylamine	18	NC	0.0018	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	
Pentachlorophenol	520	NC	NC	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	NA	



TABLE 2
SVOCs and PNAs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC		RPM-SB-26-1	RPM-SB-26-2	RPM-SB-26-3	RPM-SB-27-1	RPM-SB-27-2	RPM-SB-28-1	RPM-SB-28-2	RPM-SB-28-3	RPM-SB-29-1
	Ingestion	Inhalation		Date:	1/23/2015	1/23/2015	1/23/2015	12/12/2014	12/12/2014	1/23/2015	1/23/2015	1/23/2015	12/12/2014
				Depth (feet):	1-3 feet	7-9 feet	12-14 feet	1-3 feet	6-8 feet	1-3 feet	6-8 feet	13-15 feet	1-3 feet
SVOCs													
Aniline	NC	NC	NC		< 0.36	NA	NA	NA	< 0.38	< 0.37	NA	NA	NA
Benzidine	NC	NC	NC		< 0.36	NA	NA	NA	< 0.38	< 0.37	NA	NA	NA
Benzoic acid	820,000	NC	400		< 0.91	NA	NA	NA	< 0.96	< 0.92	NA	NA	NA
Benzyl alcohol	NC	NC	NC		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
Bis(2-chloroethoxy)methane	NC	NC	NC		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
Bis(2-chloroethyl)ether	75	0.66	0.66		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
Bis(2-ethylhexyl)phthalate	4,100	31,000	46		< 0.91	NA	NA	NA	< 0.96	< 0.92	NA	NA	NA
4-Bromophenyl phenyl ether	NC	NC	NC		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
Butyl benzyl phthalate	410,000	930	930		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
Carbazole	6,200	NC	0.6		< 0.19	NA	NA	NA	< 0.20	0.37	NA	NA	NA
4-Chloroaniline	820	NC	0.7		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
4-Chloro-3-methylphenol	NC	NC	NC		< 0.36	NA	NA	NA	< 0.38	< 0.37	NA	NA	NA
2-Chloronaphthalene	NC	NC	NC		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
2-Chlorophenol	10,000	53,000	1.5		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
4-Chlorophenyl phenyl ether	NC	NC	NC		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
Dibenzofuran	NC	NC	NC		< 0.19	NA	NA	NA	< 0.20	0.24	NA	NA	NA
1,2-Dichlorobenzene	18,000	310	17		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
1,3-Dichlorobenzene	NC	NC	NC		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
1,4-Dichlorobenzene	NC	340	2		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
3,3'-Dichlorobenzidine	280	NC	1.3		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
2,4-Dichlorophenol	610	NC	1.5		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
Diethyl phthalate	1,000,000	2,000	470		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
2,4-Dimethylphenol	41,000	NC	9		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
Dimethyl phthalate	NC	NC	NC		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
4,6-Dinitro-2-methylphenol	NC	NC	NC		< 0.36	NA	NA	NA	< 0.38	< 0.37	NA	NA	NA
2,4-Dinitrophenol	410	NC	3.3		< 0.91	NA	NA	NA	< 0.96	< 0.92	NA	NA	NA
2,4-Dinitrotoluene	180	NC	0.25		< 0.036	NA	NA	NA	< 0.038	< 0.037	NA	NA	NA
2,6-Dinitrotoluene	180	NC	0.26		< 0.036	NA	NA	NA	< 0.038	< 0.037	NA	NA	NA
Di-n-butyl phthalate	200,000	2,300	160		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
Di-n-octyl phthalate	4,100	10,000	NC		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
Hexachlorobenzene	78	2.6	0.4		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
Hexachlorobutadiene	NC	NC	NC		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
Hexachlorocyclopentadiene	14,000	1.1	1.1		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
Hexachloroethane	2,000	NC	0.5		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
Isophorone	410,000	4,600	8		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
2-Methylnaphthalene	NC	NC	NC		0.33	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
2-Methylphenol	100,000	NC	15		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
4-Methylphenol	NC	NC	NC		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
2-Nitroaniline	NC	NC	NC		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
3-Nitroaniline	NC	NC	NC		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
4-Nitroaniline	NC	NC	NC		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
2-Nitrophenol	NC	NC	NC		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
4-Nitrophenol	NC	NC	NC		< 0.36	NA	NA	NA	< 0.38	< 0.37	NA	NA	NA
Nitrobenzene	1,000	9.4	0.26		< 0.036	NA	NA	NA	< 0.038	< 0.037	NA	NA	NA
N-Nitrosodimethylamine	NC	NC	NC		< 0.036	NA	NA	NA	< 0.038	< 0.037	NA	NA	NA
N-Nitrosodiphenylamine	25,000	NC	1		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
2,2'-oxybis(1-Chloropropane)	NC	NC	NC		< 0.036	NA	NA	NA	< 0.038	< 0.037	NA	NA	NA
Phenol	61,000	NC	100		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
Pyridine	NC	NC	NC		< 0.036	NA	NA	NA	< 0.038	< 0.037	NA	NA	NA
1,2,4-Trichlorobenzene	2000	920	5		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
2,4,5-Trichlorophenol	200,000	NC	26		< 0.73	NA	NA	NA	< 0.77	< 0.74	NA	NA	NA
2,4,6-Trichlorophenol	11,000	540	0.66		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
N-Nitrosodi-n-propylamine	18	NC	0.0018		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA
Pentachlorophenol	520	NC	NC		< 0.19	NA	NA	NA	< 0.20	< 0.19	NA	NA	NA



TABLE 2
SVOCs and PNAs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	RPM-SB-29-2	RPM-SB-30-1	RPM-SB-30-2	RPM-SB-30-3	RPM-SB-31-1	RPM-SB-31-2	RPM-SB-32-1	RPM-SB-32-2	RPM-SB-32-3	
	Ingestion	Inhalation		Date:	12/12/2014	1/23/2015	1/23/2015	1/23/2015	12/12/2014	12/12/2014	1/23/2015	1/23/2015	1/23/2015
				Depth (feet):	7-9 feet	1-3 feet	6-8 feet	11-13 feet	1-3 feet	8-10 feet	1-3 feet	7-9 feet	13-15 feet
SVOCs													
Aniline	NC	NC	NC	< 0.35	< 0.38	NA	NA	NA	< 0.41	< 0.38	NA	NA	
Benzidine	NC	NC	NC	< 0.35	< 0.37	NA	NA	NA	< 0.40	< 0.38	NA	NA	
Benzoic acid	820,000	NC	400	< 0.87	< 0.94	NA	NA	NA	< 1.0	< 0.94	NA	NA	
Benzyl alcohol	NC	NC	NC	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
Bis(2-chloroethoxy)methane	NC	NC	NC	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
Bis(2-chloroethyl)ether	75	0.66	0.66	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
Bis(2-ethylhexyl)phthalate	4,100	31,000	46	< 0.87	< 0.94	NA	NA	NA	< 1.0	< 0.94	NA	NA	
4-Bromophenyl phenyl ether	NC	NC	NC	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
Butyl benzyl phthalate	410,000	930	930	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
Carbazole	6,200	NC	0.6	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
4-Chloroaniline	820	NC	0.7	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
4-Chloro-3-methylphenol	NC	NC	NC	< 0.35	< 0.37	NA	NA	NA	< 0.40	< 0.38	NA	NA	
2-Chloronaphthalene	NC	NC	NC	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
2-Chlorophenol	10,000	53,000	1.5	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
4-Chlorophenyl phenyl ether	NC	NC	NC	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
Dibenzofuran	NC	NC	NC	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
1,2-Dichlorobenzene	18,000	310	17	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
1,3-Dichlorobenzene	NC	NC	NC	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
1,4-Dichlorobenzene	NC	340	2	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
3,3'-Dichlorobenzidine	280	NC	1.3	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
2,4-Dichlorophenol	610	NC	1.5	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
Diethyl phthalate	1,000,000	2,000	470	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
2,4-Dimethylphenol	41,000	NC	9	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
Dimethyl phthalate	NC	NC	NC	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
4,6-Dinitro-2-methylphenol	NC	NC	NC	< 0.35	< 0.37	NA	NA	NA	< 0.40	< 0.38	NA	NA	
2,4-Dinitrophenol	410	NC	3.3	< 0.87	< 0.94	NA	NA	NA	< 1.0	< 0.94	NA	NA	
2,4-Dinitrotoluene	180	NC	0.25	< 0.035	< 0.037	NA	NA	NA	< 0.040	< 0.038	NA	NA	
2,6-Dinitrotoluene	180	NC	0.26	< 0.035	< 0.037	NA	NA	NA	< 0.040	< 0.038	NA	NA	
Di-n-butyl phthalate	200,000	2,300	NC	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
Di-n-octyl phthalate	4,100	10,000	1600	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
Hexachlorobenzene	78	2.6	0.4	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
Hexachlorobutadiene	NC	NC	NC	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
Hexachlorocyclopentadiene	14,000	1.1	1.1	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
Hexachloroethane	2,000	NC	0.5	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
Isophorone	410,000	4,600	8	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
2-Methylnaphthalene	NC	NC	NC	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
2-Methylphenol	100,000	NC	15	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
4-Methylphenol	NC	NC	NC	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
2-Nitroaniline	NC	NC	NC	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
3-Nitroaniline	NC	NC	NC	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
4-Nitroaniline	NC	NC	NC	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
2-Nitrophenol	NC	NC	NC	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
4-Nitrophenol	NC	NC	NC	< 0.35	< 0.37	NA	NA	NA	< 0.40	< 0.38	NA	NA	
Nitrobenzene	1,000	9.4	0.26	< 0.035	< 0.037	NA	NA	NA	< 0.040	< 0.038	NA	NA	
N-Nitrosodimethylamine	NC	NC	NC	< 0.035	< 0.037	NA	NA	NA	< 0.040	< 0.038	NA	NA	
N-Nitrosodiphenylamine	25,000	NC	1	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
2,2'-oxybis(1-Chloropropane)	NC	NC	NC	< 0.035	< 0.037	NA	NA	NA	< 0.040	< 0.038	NA	NA	
Phenol	61,000	NC	100	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
Pyridine	NC	NC	NC	< 0.035	< 0.037	NA	NA	NA	< 0.040	< 0.038	NA	NA	
1,2,4-Trichlorobenzene	2000	920	5	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
2,4,5-Trichlorophenol	200,000	NC	26	< 0.70	< 0.76	NA	NA	NA	< 0.82	< 0.76	NA	NA	
2,4,6-Trichlorophenol	11,000	540	0.66	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
N-Nitrosodi-n-propylamine	18	NC	0.0018	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	
Pentachlorophenol	520	NC	NC	< 0.18	< 0.19	NA	NA	NA	< 0.21	< 0.19	NA	NA	



TABLE 2
SVOCs and PNAs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	RPM-SB-33-1	RPM-SB-33-2	RPM-SB-34-1	RPM-SB-34-2	RPM-SB-34-3	RPM-SB-35-1	RPM-SB-35-2	RPM-SB-36-1	RPM-SB-36-2	
	Ingestion	Inhalation		Date:	12/12/2014	12/12/2014	1/23/2015	1/23/2015	1/23/2015	12/12/2014	12/12/2014	1/23/2015	1/23/2015
				Depth (feet):	1-3 feet	7-9 feet	1-3 feet	6-8 feet	13-15 feet	1-3 feet	6-8 feet	1-3 feet	6-8 feet
SVOCs													
Aniline	NC	NC	NC	NA	NA	< 0.41	NA	NA	NA	< 0.38	< 0.41	NA	
Benzidine	NC	NC	NC	NA	NA	< 0.41	NA	NA	NA	< 0.38	< 0.40	NA	
Benzoic acid	820,000	NC	400	NA	NA	< 1.0	NA	NA	NA	< 0.95	< 1.0	NA	
Benzyl alcohol	NC	NC	NC	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
Bis(2-chloroethoxy)methane	NC	NC	NC	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
Bis(2-chloroethyl)ether	75	0.66	0.66	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
Bis(2-ethylhexyl)phthalate	4,100	31,000	46	NA	NA	< 1.0	NA	NA	NA	< 0.95	< 1.0	NA	
4-Bromophenyl phenyl ether	NC	NC	NC	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
Butyl benzyl phthalate	410,000	930	930	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
Carbazole	6,200	NC	0.6	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
4-Chloroaniline	820	NC	0.7	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
4-Chloro-3-methylphenol	NC	NC	NC	NA	NA	< 0.41	NA	NA	NA	< 0.38	< 0.40	NA	
2-Chloronaphthalene	NC	NC	NC	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
2-Chlorophenol	10,000	53,000	1.5	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
4-Chlorophenyl phenyl ether	NC	NC	NC	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
Dibenzofuran	NC	NC	NC	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
1,2-Dichlorobenzene	18,000	310	17	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
1,3-Dichlorobenzene	NC	NC	NC	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
1,4-Dichlorobenzene	NC	340	2	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
3,3'-Dichlorobenzidine	280	NC	1.3	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
2,4-Dichlorophenol	610	NC	1.5	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
Diethyl phthalate	1,000,000	2,000	470	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
2,4-Dimethylphenol	41,000	NC	9	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
Dimethyl phthalate	NC	NC	NC	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NA	NA	< 0.41	NA	NA	NA	< 0.38	< 0.40	NA	
2,4-Dinitrophenol	410	NC	3.3	NA	NA	< 1.0	NA	NA	NA	< 0.95	< 1.0	NA	
2,4-Dinitrotoluene	180	NC	0.25	NA	NA	< 0.041	NA	NA	NA	< 0.038	< 0.040	NA	
2,6-Dinitrotoluene	180	NC	0.26	NA	NA	< 0.041	NA	NA	NA	< 0.038	< 0.040	NA	
Di-n-butyl phthalate	200,000	2,300	NC	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
Di-n-octyl phthalate	4,100	10,000	1600	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
Hexachlorobenzene	78	2.6	0.4	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
Hexachlorobutadiene	NC	NC	NC	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
Hexachlorocyclopentadiene	14,000	1.1	1.1	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
Hexachloroethane	2,000	NC	0.5	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
Isophorone	410,000	4,600	8	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
2-Methylnaphthalene	NC	NC	NC	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
2-Methylphenol	100,000	NC	15	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
4-Methylphenol	NC	NC	NC	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
2-Nitroaniline	NC	NC	NC	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
3-Nitroaniline	NC	NC	NC	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
4-Nitroaniline	NC	NC	NC	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
2-Nitrophenol	NC	NC	NC	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
4-Nitrophenol	NC	NC	NC	NA	NA	< 0.41	NA	NA	NA	< 0.38	< 0.40	NA	
Nitrobenzene	1,000	9.4	0.26	NA	NA	< 0.041	NA	NA	NA	< 0.038	< 0.040	NA	
N-Nitrosodimethylamine	NC	NC	NC	NA	NA	< 0.041	NA	NA	NA	< 0.038	< 0.040	NA	
N-Nitrosodiphenylamine	25,000	NC	1	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
2,2'-oxybis(1-Chloropropane)	NC	NC	NC	NA	NA	< 0.041	NA	NA	NA	< 0.038	< 0.040	NA	
Phenol	61,000	NC	100	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
Pyridine	NC	NC	NC	NA	NA	< 0.041	NA	NA	NA	< 0.038	< 0.040	NA	
1,2,4-Trichlorobenzene	2000	920	5	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
2,4,5-Trichlorophenol	200,000	NC	26	NA	NA	< 0.83	NA	NA	NA	< 0.76	< 0.82	NA	
2,4,6-Trichlorophenol	11,000	540	0.66	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
N-Nitrosodi-n-propylamine	18	NC	0.0018	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	
Pentachlorophenol	520	NC	NC	NA	NA	< 0.21	NA	NA	NA	< 0.19	< 0.21	NA	



TABLE 2
SVOCs and PNAs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-36-3	RPM-SB-37-1	RPM-SB-37-2
	Ingestion	Inhalation			1/23/2015	12/12/2014	12/12/2014
					Depth (feet):	13-15 feet	1-3 feet
SVOCs							
Aniline	NC	NC	NC		NA	NA	NA
Benzidine	NC	NC	NC		NA	NA	NA
Benzoic acid	820,000	NC	400		NA	NA	NA
Benzyl alcohol	NC	NC	NC		NA	NA	NA
Bis(2-chloroethoxy)methane	NC	NC	NC		NA	NA	NA
Bis(2-chloroethyl)ether	75	0.66	0.66		NA	NA	NA
Bis(2-ethylhexyl)phthalate	4,100	31,000	46		NA	NA	NA
4-Bromophenyl phenyl ether	NC	NC	NC		NA	NA	NA
Butyl benzyl phthalate	410,000	930	930		NA	NA	NA
Carbazole	6,200	NC	0.6		NA	NA	NA
4-Chloroaniline	820	NC	0.7		NA	NA	NA
4-Chloro-3-methylphenol	NC	NC	NC		NA	NA	NA
2-Chloronaphthalene	NC	NC	NC		NA	NA	NA
2-Chlorophenol	10,000	53,000	1.5		NA	NA	NA
4-Chlorophenyl phenyl ether	NC	NC	NC		NA	NA	NA
Dibenzofuran	NC	NC	NC		NA	NA	NA
1,2-Dichlorobenzene	18,000	310	17		NA	NA	NA
1,3-Dichlorobenzene	NC	NC	NC		NA	NA	NA
1,4-Dichlorobenzene	NC	340	2		NA	NA	NA
3,3'-Dichlorobenzidine	280	NC	1.3		NA	NA	NA
2,4-Dichlorophenol	610	NC	1.5		NA	NA	NA
Diethyl phthalate	1,000,000	2,000	470		NA	NA	NA
2,4-Dimethylphenol	41,000	NC	9		NA	NA	NA
Dimethyl phthalate	NC	NC	NC		NA	NA	NA
4,6-Dinitro-2-methylphenol	NC	NC	NC		NA	NA	NA
2,4-Dinitrophenol	410	NC	3.3		NA	NA	NA
2,4-Dinitrotoluene	180	NC	0.25		NA	NA	NA
2,6-Dinitrotoluene	180	NC	0.26		NA	NA	NA
Di-n-butyl phthalate	200,000	2,300	NC		NA	NA	NA
Di-n-octyl phthalate	4,100	10,000	1600		NA	NA	NA
Hexachlorobenzene	78	2.6	0.4		NA	NA	NA
Hexachlorobutadiene	NC	NC	NC		NA	NA	NA
Hexachlorocyclopentadiene	14,000	1.1	1.1		NA	NA	NA
Hexachloroethane	2,000	NC	0.5		NA	NA	NA
Isophorone	410,000	4,600	8		NA	NA	NA
2-Methylnaphthalene	NC	NC	NC		NA	NA	NA
2-Methylphenol	100,000	NC	15		NA	NA	NA
4-Methylphenol	NC	NC	NC		NA	NA	NA
2-Nitroaniline	NC	NC	NC		NA	NA	NA
3-Nitroaniline	NC	NC	NC		NA	NA	NA
4-Nitroaniline	NC	NC	NC		NA	NA	NA
2-Nitrophenol	NC	NC	NC		NA	NA	NA
4-Nitrophenol	NC	NC	NC		NA	NA	NA
Nitrobenzene	1,000	9.4	0.26		NA	NA	NA
N-Nitrosodimethylamine	NC	NC	NC		NA	NA	NA
N-Nitrosodiphenylamine	25,000	NC	1		NA	NA	NA
2,2'-oxybis(1-Chloropropane)	NC	NC	NC		NA	NA	NA
Phenol	61,000	NC	100		NA	NA	NA
Pyridine	NC	NC	NC		NA	NA	NA
1,2,4-Trichlorobenzene	2000	920	5		NA	NA	NA
2,4,5-Trichlorophenol	200,000	NC	26		NA	NA	NA
2,4,6-Trichlorophenol	11,000	540	0.66		NA	NA	NA
N-Nitrosodi-n-propylamine	18	NC	0.0018		NA	NA	NA
Pentachlorophenol	520	NC	NC		NA	NA	NA



TABLE 2
SVOCs and PNAs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-15-1	RPM-SB-15-2	RPM-SB-16-1	RPM-SB-16-2	RPM-SB-16-3	RPM-SB-17-1	RPM-SB-17-2	RPM-SB-18-1	RPM-SB-18-2
	Ingestion	Inhalation			12/11/2014	12/11/2014	1/20/2015	1/20/2015	1/20/2015	12/11/2014	12/11/2014	1/20/2015	1/20/2015
	Depth (feet):				1-3 feet	5-7 feet	1-3 feet	5-7 feet	11-13 feet	1-3 feet	7-9 feet	1-3 feet	6-8 feet
SVOCs													
PNAs													
Acenaphthene	120,000	NC	570		< 0.035	< 0.067	< 0.040	< 0.038	1.3	0.11	< 0.035	< 0.037	NA
Acenaphthylene	NC	NC	NC		< 0.035	< 0.067	< 0.040	0.10	1.1	< 0.035	< 0.035	< 0.037	NA
Anthracene	610,000	NC	12000		< 0.035	< 0.067	< 0.040	0.092	4.2	0.17	< 0.035	0.14	NA
Benz(a)anthracene	170	NC	1.1		< 0.035	< 0.067	< 0.040	0.43	9.7	0.35	< 0.035	0.037	NA
Benzo(a)pyrene	17	NC	1.3		< 0.035	< 0.067	< 0.040	0.50	7.7	0.26	< 0.035	< 0.037	NA
Benzo(b)fluoranthene	170	NC	1.5		< 0.035	< 0.067	< 0.040	0.46	7.0	0.33	< 0.035	0.14	NA
Benzo(g,h,i)perylene	NC	NC	NC		< 0.035	< 0.067	< 0.040	0.39	4.2	0.23	< 0.035	0.19	NA
Benzo(k)fluoranthene	1,700	NC	9		< 0.035	< 0.067	< 0.040	0.35	6.2	0.24	< 0.035	0.049	NA
Chrysene	17,000	NC	88		< 0.035	< 0.067	< 0.040	0.48	10	0.40	< 0.035	0.051	NA
Dibenz(a,h)anthracene	17	NC	0.2		< 0.035	< 0.067	< 0.040	0.18	2.4	0.12	< 0.035	0.061	NA
Fluoranthene	82,000	NC	3100		< 0.035	< 0.067	< 0.040	0.64	21	1.1	< 0.035	0.080	NA
Fluorene	82,000	NC	560		< 0.035	< 0.067	< 0.040	< 0.038	2.2	0.12	< 0.035	< 0.037	NA
Indeno(1,2,3-cd)pyrene	170	NC	0.9		< 0.035	< 0.067	< 0.040	0.33	4.5	0.22	< 0.035	0.18	NA
Naphthalene	4,100	1.8	1.8		< 0.035	< 0.067	< 0.040	< 0.038	0.70	0.075	< 0.035	0.069	NA
Phenanthrene	NC	NC	NC		< 0.035	< 0.067	< 0.040	0.36	21	1.2	< 0.035	0.17	NA
Pyrene	61,000	NC	2300		< 0.035	< 0.067	< 0.040	0.66	19	0.85	< 0.035	0.085	NA

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent



TABLE 2
SVOCs and PNAs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-18-3	RPM-SB-19-1	RPM-SB-19-2	RPM-SB-19-3	RPM-SB-20-1	RPM-SB-20-2	RPM-SB-21-1	RPM-SB-21-2	RPM-SB-21-3
	Ingestion	Inhalation			13-15 feet	1-3 feet	6-8 feet	12-14 feet	1-3 feet	8-10 feet	1-3 feet	6-8 feet	13-15 feet
SVOCs													
PNAs													
Acenaphthene	120,000	NC	570	Depth (feet):	0.038	< 0.044	< 0.037	< 0.040	< 0.035	< 0.035	< 0.035	< 0.038	< 0.038
Acenaphthylene	NC	NC	NC		< 0.037	< 0.044	< 0.037	< 0.040	< 0.035	< 0.035	< 0.035	< 0.038	< 0.038
Anthracene	610,000	NC	12000		0.074	< 0.044	< 0.037	< 0.040	< 0.035	< 0.035	0.045	< 0.038	< 0.038
Benz(a)anthracene	170	NC	1.1		0.16	0.062	< 0.037	< 0.040	< 0.035	< 0.035	0.11	0.058	< 0.038
Benzo(a)pyrene	17	NC	1.3		0.17	< 0.044	< 0.037	< 0.040	< 0.035	< 0.035	0.12	0.090	< 0.038
Benzo(b)fluoranthene	170	NC	1.5		0.18	0.057	< 0.037	< 0.040	< 0.035	< 0.035	0.14	0.10	< 0.038
Benzo(g,h,i)perylene	NC	NC	NC		0.14	< 0.044	< 0.037	< 0.040	< 0.035	< 0.035	0.099	0.084	< 0.038
Benzo(k)fluoranthene	1,700	NC	9		0.099	0.065	< 0.037	< 0.040	< 0.035	< 0.035	0.10	0.075	< 0.038
Chrysene	17,000	NC	88		0.19	0.049	< 0.037	< 0.040	< 0.035	< 0.035	0.14	0.096	< 0.038
Dibenz(a,h)anthracene	17	NC	0.2		< 0.037	< 0.044	< 0.037	< 0.040	< 0.035	< 0.035	< 0.035	< 0.038	< 0.038
Fluoranthene	82,000	NC	3100		0.35	0.073	< 0.037	< 0.040	< 0.035	< 0.035	0.17	0.11	< 0.038
Fluorene	82,000	NC	560		< 0.037	< 0.044	< 0.037	< 0.040	< 0.035	< 0.035	< 0.035	< 0.038	< 0.038
Indeno(1,2,3-cd)pyrene	170	NC	0.9		0.10	< 0.044	< 0.037	< 0.040	< 0.035	< 0.035	0.075	0.067	< 0.038
Naphthalene	4,100	1.8	1.8		< 0.037	< 0.044	< 0.037	0.055	< 0.035	< 0.035	< 0.035	< 0.038	< 0.038
Phenanthrene	NC	NC	NC		0.24	< 0.044	< 0.037	0.052	< 0.035	< 0.035	0.069	0.060	< 0.038
Pyrene	61,000	NC	2300		0.33	0.045	< 0.037	< 0.040	< 0.035	< 0.035	0.16	0.092	< 0.038

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent



TABLE 2
SVOCs and PNAs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-22-1	RPM-SB-22-2	RPM-SB-23-1	RPM-SB-23-2	RPM-SB-23-3	RPM-SB-24-1	RPM-SB-24-2	RPM-SB-25-1	RPM-SB-25-2
	Ingestion	Inhalation			12/11/2014	12/11/2014	1/20/2015	1/20/2015	1/20/2015	12/11/2014	12/11/2014	12/11/2014	12/11/2014
				Depth (feet):	1-3 feet	6-8 feet	1-3 feet	6-8 feet	12-14 feet	1-3 feet	7-9 feet	1-3 feet	8-10 feet
SVOCs													
PNAs													
Acenaphthene	120,000	NC	570		< 0.036	< 0.034	0.68	< 0.038	< 0.035	0.054	< 0.040	< 0.034	< 0.036
Acenaphthylene	NC	NC	NC		< 0.036	< 0.034	0.72	< 0.038	< 0.035	0.067	< 0.040	< 0.034	< 0.036
Anthracene	610,000	NC	12000		< 0.036	< 0.034	2.6	0.14	0.079	0.19	< 0.040	< 0.034	< 0.036
Benz(a)anthracene	170	NC	1.1		0.062	< 0.034	6.7	0.69	0.26	0.76	< 0.040	< 0.034	< 0.036
Benzo(a)pyrene	17	NC	1.3		0.051	< 0.034	5.6	0.78	0.30	0.82	< 0.040	< 0.034	< 0.036
Benzo(b)fluoranthene	170	NC	1.5		0.048	< 0.034	4.8	0.84	0.26	0.89	< 0.040	< 0.034	< 0.036
Benzo(g,h,i)perylene	NC	NC	NC		0.050	< 0.034	3.2	0.68	0.19	0.61	< 0.040	< 0.034	0.053
Benzo(k)fluoranthene	1,700	NC	9		0.055	< 0.034	4.6	0.59	0.26	0.53	< 0.040	< 0.034	< 0.036
Chrysene	17,000	NC	88		0.065	< 0.034	6.5	0.68	0.33	0.81	< 0.040	< 0.034	< 0.036
Dibenz(a,h)anthracene	17	NC	0.2		< 0.036	< 0.034	1.7	0.29	0.10	0.27	< 0.040	< 0.034	< 0.036
Fluoranthene	82,000	NC	3100		0.11	< 0.034	14	0.93	0.54	1.6	< 0.040	< 0.034	0.041
Fluorene	82,000	NC	560		< 0.036	< 0.034	0.60	0.051	< 0.035	0.049	< 0.040	< 0.034	< 0.036
Indeno(1,2,3-cd)pyrene	170	NC	0.9		0.041	< 0.034	3.2	0.62	0.20	0.54	< 0.040	< 0.034	< 0.036
Naphthalene	4,100	1.8	1.8		< 0.036	< 0.034	0.060	0.089	< 0.035	< 0.035	< 0.040	< 0.034	< 0.036
Phenanthrene	NC	NC	NC		0.062	< 0.034	7.3	0.34	0.26	0.86	< 0.040	< 0.034	< 0.036
Pyrene	61,000	NC	2300		0.094	< 0.034	12	1.1	0.57	1.3	< 0.040	< 0.034	0.038

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent



TABLE 2
SVOCs and PNAs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-26-1	RPM-SB-26-2	RPM-SB-26-3	RPM-SB-27-1	RPM-SB-27-2	RPM-SB-28-1	RPM-SB-28-2	RPM-SB-28-3	RPM-SB-29-1
					1/23/2015	1/23/2015	1/23/2015	12/12/2014	12/12/2014	1/23/2015	1/23/2015	1/23/2015	12/12/2014
	Ingestion	Inhalation	Depth (feet):	1-3 feet	7-9 feet	12-14 feet	1-3 feet	6-8 feet	1-3 feet	6-8 feet	13-15 feet	1-3 feet	
SVOCs													
PNAs													
Acenaphthene	120,000	NC	570		< 0.036	< 0.041	0.14	< 0.038	< 0.038	0.27	< 0.037	0.065	< 0.035
Acenaphthylene	NC	NC	NC		< 0.036	< 0.041	0.14	< 0.038	< 0.038	0.30	< 0.037	< 0.037	< 0.035
Anthracene	610,000	NC	12000		0.097	< 0.041	0.45	< 0.038	< 0.038	0.64	< 0.037	0.24	< 0.035
Benz(a)anthracene	170	NC	1.1		0.053	< 0.041	1.1	< 0.038	0.12	2.0	< 0.037	0.93	< 0.035
Benzo(a)pyrene	17	NC	1.3		0.061	< 0.041	0.94	< 0.038	0.11	1.9	< 0.037	0.98	< 0.035
Benzo(b)fluoranthene	170	NC	1.5		0.12	< 0.041	0.86	< 0.038	0.11	1.5	< 0.037	1.3	< 0.035
Benzo(g,h,i)perylene	NC	NC	NC		0.12	< 0.041	0.43	< 0.038	0.065	1.1	< 0.037	0.85	< 0.035
Benzo(k)fluoranthene	1,700	NC	9		0.065	< 0.041	0.72	< 0.038	0.094	1.3	< 0.037	0.65	< 0.035
Chrysene	17,000	NC	88		0.11	< 0.041	1.1	< 0.038	0.13	2.1	< 0.037	1.2	< 0.035
Dibenz(a,h)anthracene	17	NC	0.2		< 0.036	< 0.041	0.20	< 0.038	< 0.038	0.52	< 0.037	0.32	< 0.035
Fluoranthene	82,000	NC	3100		0.093	< 0.041	2.1	< 0.038	0.22	3.8	0.040	1.9	< 0.035
Fluorene	82,000	NC	560		< 0.036	< 0.041	0.22	< 0.038	< 0.038	0.34	< 0.037	0.11	< 0.035
Indeno(1,2,3-cd)pyrene	170	NC	0.9		0.12	< 0.041	0.46	< 0.038	0.057	1.1	< 0.037	0.64	< 0.035
Naphthalene	4,100	1.8	1.8		0.058	< 0.041	0.20	< 0.038	< 0.038	0.39	< 0.037	0.048	< 0.035
Phenanthrene	NC	NC	NC		0.14	< 0.041	2.4	< 0.038	0.10	3.3	< 0.037	1.2	< 0.035
Pyrene	61,000	NC	2300		0.077	< 0.041	1.9	< 0.038	0.19	3.2	< 0.037	1.6	< 0.035

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent



TABLE 2
SVOCs and PNAs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-29-2	RPM-SB-30-1	RPM-SB-30-2	RPM-SB-30-3	RPM-SB-31-1	RPM-SB-31-2	RPM-SB-32-1	RPM-SB-32-2	RPM-SB-32-3
	Ingestion	Inhalation			7-9 feet	1-3 feet	6-8 feet	11-13 feet	1-3 feet	8-10 feet	1-3 feet	7-9 feet	13-15 feet
	Depth (feet):												
SVOCs													
PNAs													
Acenaphthene	120,000	NC	570		< 0.037	< 0.037	< 0.040	< 0.037	< 0.040	< 0.040	< 0.038	NA	< 0.037
Acenaphthylene	NC	NC	NC		< 0.037	< 0.037	< 0.040	< 0.037	< 0.040	< 0.040	< 0.038	NA	< 0.037
Anthracene	610,000	NC	12000		< 0.037	0.096	< 0.040	< 0.037	< 0.040	< 0.040	0.063	NA	< 0.037
Benz(a)anthracene	170	NC	1.1		< 0.037	0.092	< 0.040	< 0.037	< 0.040	0.044	0.11	NA	< 0.037
Benzo(a)pyrene	17	NC	1.3		< 0.037	0.091	< 0.040	< 0.037	< 0.040	0.043	0.14	NA	< 0.037
Benzo(b)fluoranthene	170	NC	1.5		< 0.037	0.19	< 0.040	< 0.037	< 0.040	< 0.040	0.18	NA	< 0.037
Benzo(g,h,i)perylene	NC	NC	NC		< 0.037	0.13	< 0.040	< 0.037	< 0.040	< 0.040	0.12	NA	< 0.037
Benzo(k)fluoranthene	1,700	NC	9		< 0.037	< 0.037	< 0.040	< 0.037	< 0.040	< 0.040	0.075	NA	< 0.037
Chrysene	17,000	NC	88		< 0.037	0.088	< 0.040	< 0.037	< 0.040	0.053	0.13	NA	< 0.037
Dibenz(a,h)anthracene	17	NC	0.2		< 0.037	< 0.037	< 0.040	< 0.037	< 0.040	< 0.040	< 0.038	NA	< 0.037
Fluoranthene	82,000	NC	3100		< 0.037	0.14	< 0.040	0.046	< 0.040	0.086	0.20	NA	0.057
Fluorene	82,000	NC	560		< 0.037	< 0.037	< 0.040	< 0.037	< 0.040	< 0.040	< 0.038	NA	< 0.037
Indeno(1,2,3-cd)pyrene	170	NC	0.9		< 0.037	0.13	< 0.040	< 0.037	< 0.040	< 0.040	0.090	NA	< 0.037
Naphthalene	4,100	1.8	1.8		< 0.037	< 0.037	< 0.040	< 0.037	< 0.040	< 0.040	< 0.038	NA	< 0.037
Phenanthrene	NC	NC	NC		< 0.037	0.10	< 0.040	< 0.037	< 0.040	0.066	0.13	NA	< 0.037
Pyrene	61,000	NC	2300		< 0.037	0.13	< 0.040	< 0.037	< 0.040	0.088	0.17	NA	0.053

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent



TABLE 2
SVOCs and PNAs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-33-1	RPM-SB-33-2	RPM-SB-34-1	RPM-SB-34-2	RPM-SB-34-3	RPM-SB-35-1	RPM-SB-35-2	RPM-SB-36-1	RPM-SB-36-2
	Ingestion	Inhalation			12/12/2014	12/12/2014	1/23/2015	1/23/2015	1/23/2015	12/12/2014	12/12/2014	1/23/2015	1/23/2015
					Depth (feet):	1-3 feet	7-9 feet	1-3 feet	6-8 feet	13-15 feet	1-3 feet	6-8 feet	1-3 feet
SVOCs													
PNAs													
Acenaphthene	120,000	NC	570		< 0.039	< 0.041	0.16	NA	< 0.041	< 0.038	< 0.036	< 0.040	< 0.039
Acenaphthylene	NC	NC	NC		< 0.039	< 0.041	0.14	NA	< 0.041	< 0.038	< 0.036	< 0.040	< 0.039
Anthracene	610,000	NC	12000		< 0.039	0.15	0.37	NA	0.043	< 0.038	< 0.036	0.043	< 0.039
Benz(a)anthracene	170	NC	1.1		< 0.039	0.77	0.61	NA	0.10	< 0.038	< 0.036	0.14	< 0.039
Benzo(a)pyrene	17	NC	1.3		< 0.039	0.75	0.50	NA	0.099	< 0.038	< 0.036	0.14	< 0.039
Benzo(b)fluoranthene	170	NC	1.5		< 0.039	0.80	0.37	NA	0.12	< 0.038	< 0.036	0.15	< 0.039
Benzo(g,h,i)perylene	NC	NC	NC		< 0.039	0.50	0.26	NA	0.060	< 0.038	< 0.036	< 0.040	< 0.039
Benzo(k)fluoranthene	1,700	NC	9		< 0.039	0.57	0.38	NA	0.094	< 0.038	< 0.036	0.12	< 0.039
Chrysene	17,000	NC	88		< 0.039	0.93	0.60	NA	0.16	< 0.038	< 0.036	0.16	< 0.039
Dibenz(a,h)anthracene	17	NC	0.2		< 0.039	0.26	0.17	NA	< 0.041	< 0.038	< 0.036	< 0.040	< 0.039
Fluoranthene	82,000	NC	3100		< 0.039	1.4	1.6	NA	0.21	< 0.038	< 0.036	0.24	< 0.039
Fluorene	82,000	NC	560		< 0.039	0.043	0.21	NA	< 0.041	< 0.038	< 0.036	< 0.040	< 0.039
Indeno(1,2,3-cd)pyrene	170	NC	0.9		< 0.039	0.43	0.29	NA	0.050	< 0.038	< 0.036	0.062	< 0.039
Naphthalene	4,100	1.8	1.8		< 0.039	< 0.041	0.053	NA	< 0.041	< 0.038	< 0.036	< 0.040	< 0.039
Phenanthrene	NC	NC	NC		< 0.039	0.78	1.8	NA	0.25	< 0.038	< 0.036	0.21	< 0.039
Pyrene	61,000	NC	2300		< 0.039	1.3	1.2	NA	0.18	< 0.038	< 0.036	0.24	< 0.039

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent



TABLE 2
SVOCs and PNAs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC		RPM-SB-36-3	RPM-SB-37-1	RPM-SB-37-2
	Ingestion	Inhalation		Date:	1/23/2015	12/12/2014	12/12/2014
				Depth (feet):	13-15 feet	1-3 feet	6-8 feet
SVOCs							
PNAs							
Acenaphthene	120,000	NC	570		0.087	< 0.040	< 0.040
Acenaphthylene	NC	NC	NC		0.047	< 0.040	< 0.040
Anthracene	610,000	NC	12000		0.36	< 0.040	< 0.040
Benz(a)anthracene	170	NC	1.1		0.71	< 0.040	< 0.040
Benzo(a)pyrene	17	NC	1.3		0.62	< 0.040	< 0.040
Benzo(b)fluoranthene	170	NC	1.5		0.60	< 0.040	< 0.040
Benzo(g,h,i)perylene	NC	NC	NC		0.31	< 0.040	< 0.040
Benzo(k)fluoranthene	1,700	NC	9		0.52	< 0.040	< 0.040
Chrysene	17,000	NC	88		0.75	< 0.040	< 0.040
Dibenz(a,h)anthracene	17	NC	0.2		0.17	< 0.040	< 0.040
Fluoranthene	82,000	NC	3100		1.5	< 0.040	< 0.040
Fluorene	82,000	NC	560		0.14	< 0.040	< 0.040
Indeno(1,2,3-cd)pyrene	170	NC	0.9		0.28	< 0.040	< 0.040
Naphthalene	4,100	1.8	1.8		0.052	< 0.040	< 0.040
Phenanthrene	NC	NC	NC		1.5	< 0.040	< 0.040
Pyrene	61,000	NC	2300		1.2	< 0.040	< 0.040

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent



TABLE 3
Inorganics and pH
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Depth (feet):	RPM-SB-15-1	RPM-SB-15-2	RPM-SB-16-1	RPM-SB-16-2	RPM-SB-16-3	RPM-SB-17-1
					Date:	Date:	Date:	Date:	Date:	Date:
	Ingestion	Inhalation			1-3 feet	5-7 feet	1-3 feet	5-7 feet	11-13 feet	1-3 feet
RCRA INORGANICS										
Aluminum	NC	NC	---		NA	3000	2200	NA	NA	NA
Antimony	31	NC	5		< 2.2	< 3.9	< 2.3	< 2.3	NA	NA
Arsenic	61	25,000	13		1.7	< 1.9	2.3	5.8	25	3.0
Barium	5,500	690,000	1,500		NA	16	22	NA	59	7.9
Beryllium	160	1,300	22		< 0.55	< 0.97	< 0.56	0.73	NA	NA
Cadmium	78	1,800	5.2		< 0.55	< 0.97	0.68	1.0	< 0.57	< 0.54
Calcium	NC	NC	---		NA	41000	81000	NA	NA	NA
Chromium	230	270	21		7.0	8.7	11	8.1	25	5.8
Cobalt	4,700	NC	20		NA	3.0	2.1	NA	NA	NA
Copper	2,900	NC	2,900		< 2.7	< 4.9	5.9	34	NA	NA
Cyanide	1,600	NC	40		NA	< 0.51	< 0.31	NA	NA	NA
Iron	NC	NC	15,900		NA	5400	7600	NA	NA	NA
Lead*	700	NC	107*		3.9	4.9	150	94	86	7.1
Magnesium	325,000	NC	325,000		NA	21000	14000	NA	NA	NA
Manganese	1,600	69,000	636		NA	190	220	NA	NA	NA
Mercury	23	10	0.06		0.028	< 0.038	0.041	0.22	< 0.022	< 0.017
Nickel	1,600	13,000	100		3.4	6.4	10	10	NA	NA
Potassium	NC	NC	---		NA	600	300	NA	NA	NA
Selenium	390	NC	1.3		< 0.55	< 0.97	< 0.56	0.77	1.0	< 0.54
Silver	390	NC	4.4		< 1.1	< 1.9	< 1.1	< 1.1	< 1.1	< 1.1
Sodium	NC	NC	---		NA	< 1200	140	NA	NA	NA
Thallium	6.3	NC	2.6		< 1.1	< 1.9	< 1.1	< 1.1	NA	NA
Vanadium	550	NC	550		NA	14	8.6	NA	NA	NA
Zinc	23,000	NC	5,100		19	32	140	130	NA	NA
TCLP Arsenic	NC	NC	---		NA	NA	NA	NA	NA	NA
pH	NC	NC	---		NA	7.2	8.0	NA	NA	NA

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent

* - Compared to pH specific Maximum Allowable Concentration (107 mg/kg)

+ Value for elemental mercury



TABLE 3
Inorganics and pH
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-17-2	RPM-SB-18-1	RPM-SB-18-2	RPM-SB-18-3	RPM-SB-19-1	RPM-SB-19-2
					12/11/2014	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015
	Ingestion	Inhalation	Depth (feet):		7-9 feet	1-3 feet	6-8 feet	13-15 feet	1-3 feet	6-8 feet
RCRA INORGANICS										
Aluminum	NC	NC	---		NA	3300	NA	NA	18000	NA
Antimony	31	NC	5		NA	3.7	2.2	NA	< 2.5	< 2.1
Arsenic	61	25,000	13		2.1	260	5.8	8.7	11	7.1
Barium	5,500	690,000	1,500		3.9	45	NA	64	80	NA
Beryllium	160	1,300	22		NA	< 0.55	< 0.52	NA	0.99	< 0.54
Cadmium	78	1,800	5.2		< 0.53	1.4	< 0.52	0.79	0.87	< 0.54
Calcium	NC	NC	---		NA	75000	NA	NA	25000	NA
Chromium	230	270	21		4.2	17	17	9.2	28	13
Cobalt	4,700	NC	20		NA	6.9	NA	NA	14	NA
Copper	2,900	NC	2,900		NA	87	23	NA	53	14
Cyanide	1,600	NC	40		NA	< 0.28	NA	NA	< 0.34	NA
Iron	NC	NC	15,900		NA	45000	NA	NA	47000	NA
Lead*	700	NC	107*		3.7	150	71	49	82	9.9
Magnesium	325,000	NC	325,000		NA	38000	NA	NA	17000	NA
Manganese	1,600	69,000	636		NA	700	NA	NA	1700	NA
Mercury	23	10	0.06		< 0.018	0.062	< 0.019	0.061	0.051	< 0.021
Nickel	1,600	13,000	100		NA	23	10	NA	36	17
Potassium	NC	NC	---		NA	420	NA	NA	2200	NA
Selenium	390	NC	1.3		< 0.53	0.74	< 0.52	1.1	0.81	1.0
Silver	390	NC	4.4		< 1.1	< 1.1	< 1.0	< 1.1	< 1.2	< 1.1
Sodium	NC	NC	---		NA	140	NA	NA	89	NA
Thallium	6.3	NC	2.6		NA	< 1.1	< 1.0	NA	< 1.2	< 1.1
Vanadium	550	NC	550		NA	18	NA	NA	38	NA
Zinc	23,000	NC	5,100		NA	160	36	NA	63	37
TCLP Arsenic	NC	NC	---		NA	NA	NA	NA	NA	NA
pH	NC	NC	---		NA	8.1	NA	NA	7.9	NA

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent

* - Compared to pH specific Maximum Allowable Concentration (107 mg/kg)

+ Value for elemental mercury



TABLE 3
Inorganics and pH
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-19-3	RPM-SB-20-1	RPM-SB-20-2	RPM-SB-21-1	RPM-SB-21-2	RPM-SB-21-3
	Ingestion	Inhalation			1/20/2015	12/11/2014	12/11/2014	1/20/2015	1/20/2015	1/20/2015
				Depth (feet):	12-14 feet	1-3 feet	8-10 feet	1-3 feet	6-8 feet	13-15 feet
RCRA INORGANICS										
Aluminum	NC	NC	---		NA	NA	NA	1700	NA	NA
Antimony	31	NC	5		NA	NA	NA	< 2.1	< 2.2	NA
Arsenic	61	25,000	13		22	< 1.1	1.3	44	16	7.4
Barium	5,500	690,000	1,500		140	4.7	4.3	16	NA	78
Beryllium	160	1,300	22		NA	NA	NA	< 0.52	< 0.56	NA
Cadmium	78	1,800	5.2		0.84	< 0.55	< 0.51	< 0.52	0.72	< 0.58
Calcium	NC	NC	---		NA	NA	NA	100000	NA	NA
Chromium	230	270	21		16	4.7	3.4	5.4	33	12
Cobalt	4,700	NC	20		NA	NA	NA	3.2	NA	NA
Copper	2,900	NC	2,900		NA	NA	NA	25	63	NA
Cyanide	1,600	NC	40		NA	NA	NA	< 0.27	NA	NA
Iron	NC	NC	15,900		NA	NA	NA	13000	NA	NA
Lead*	700	NC	107*		51	2.8	6.3	880	88	11
Magnesium	325,000	NC	325,000		NA	NA	NA	61000	NA	NA
Manganese	1,600	69,000	636		NA	NA	NA	290	NA	NA
Mercury	23	10	0.06		< 0.023	< 0.021	< 0.018	< 0.021	< 0.021	< 0.022
Nickel	1,600	13,000	100		NA	NA	NA	9.5	51	NA
Potassium	NC	NC	---		NA	NA	NA	390	NA	NA
Selenium	390	NC	1.3		2.9	< 0.55	< 0.51	< 0.52	< 0.05	0.69
Silver	390	NC	4.4		< 1.2	< 1.1	< 1.0	< 1.0	< 1.1	< 1.2
Sodium	NC	NC	---		NA	NA	NA	120	NA	NA
Thallium	6.3	NC	2.6		NA	NA	NA	< 1.0	< 1.1	NA
Vanadium	550	NC	550		NA	NA	NA	8.6	NA	NA
Zinc	23,000	NC	5,100		NA	NA	NA	24	170	NA
TCLP Arsenic	NC	NC	---		NA	NA	NA	NA	NA	NA
pH	NC	NC	---		NA	NA	NA	8.6	NA	NA

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent

* - Compared to pH specific Maximum Allowable Concentration (107 mg/kg)

+ Value for elemental mercury



TABLE 3
Inorganics and pH
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-22-1	RPM-SB-22-2	RPM-SB-23-1	RPM-SB-23-2	RPM-SB-23-3	RPM-SB-24-1
					12/11/2014	12/11/2014	1/20/2015	1/20/2015	1/20/2015	12/11/2014
	Ingestion	Inhalation			Depth (feet):	1-3 feet	6-8 feet	1-3 feet	6-8 feet	12-14 feet
RCRA INORGANICS										
Aluminum	NC	NC	---		NA	NA	2600	3100	NA	NA
Antimony	31	NC	5		NA	NA	4.3	< 2.4	NA	NA
Arsenic	61	25,000	13		1.6	< 0.92	300	9.3	3.0	3.1
Barium	5,500	690,000	1,500		13	3.6	77	120	22	21
Beryllium	160	1,300	22		NA	NA	< 0.47	< 0.60	NA	NA
Cadmium	78	1,800	5.2		< 0.49	< 0.46	2.2	0.74	< 0.52	< 0.49
Calcium	NC	NC	---		NA	NA	64000	68000	NA	NA
Chromium	230	270	21		6.1	3.1	22	7.8	7.8	7.4
Cobalt	4,700	NC	20		NA	NA	7.4	4.0	NA	NA
Copper	2,900	NC	2,900		NA	NA	110	36	NA	NA
Cyanide	1,600	NC	40		NA	NA	< 0.28	< 0.29	NA	NA
Iron	NC	NC	15,900		NA	NA	41000	11000	NA	NA
Lead*	700	NC	107*		6.1	3.2	310	150	34	140
Magnesium	325,000	NC	325,000		NA	NA	40000	33000	NA	NA
Manganese	1,600	69,000	636		NA	NA	450	200	NA	NA
Mercury	23	10	0.06		< 0.020	< 0.020	0.13	0.11	< 0.021	0.077
Nickel	1,600	13,000	100		NA	NA	27	11	NA	NA
Potassium	NC	NC	---		NA	NA	400	500	NA	NA
Selenium	390	NC	1.3		< 0.49	< 0.46	1.1	0.8	0.62	< 0.49
Silver	390	NC	4.4		< 0.99	< 0.92	< 0.93	< 1.2	< 1.0	< 0.99
Sodium	NC	NC	---		NA	NA	96	210	NA	NA
Thallium	6.3	NC	2.6		NA	NA	< 0.93	< 1.2	NA	NA
Vanadium	550	NC	550		NA	NA	20	16	NA	NA
Zinc	23,000	NC	5,100		NA	NA	220	110	NA	NA
TCLP Arsenic	NC	NC	---		NA	NA	<0.01	NA	NA	NA
pH	NC	NC	---		NA	NA	7.9	7.8	NA	NA

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent

* - Compared to pH specific Maximum Allowable Concentration (107 mg/kg)

+ Value for elemental mercury



TABLE 3
Inorganics and pH
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-24-2	RPM-SB-25-1	RPM-SB-25-2	RPM-SB-26-1	RPM-SB-26-2	RPM-SB-26-3
					12/11/2014	12/11/2014	12/11/2014	1/23/2015	1/23/2015	1/23/2015
	Ingestion	Inhalation		Depth (feet):	7-9 feet	1-3 feet	8-10 feet	1-3 feet	7-9 feet	12-14 feet
RCRA INORGANICS										
Aluminum	NC	NC	---		NA	NA	NA	5200	NA	NA
Antimony	31	NC	5		NA	NA	NA	4.7	NA	NA
Arsenic	61	25,000	13		1.2	2.3	2.0	290	11	27
Barium	5,500	690,000	1,500		4.4	16	18	67	110	150
Beryllium	160	1,300	22		NA	NA	NA	0.64	NA	NA
Cadmium	78	1,800	5.2		< 0.53	< 0.50	< 0.54	2.2	< 0.59	3.1
Calcium	NC	NC	---		NA	NA	NA	63000	NA	NA
Chromium	230	270	21		3.2	6.3	7.9	25	16	13
Cobalt	4,700	NC	20		NA	NA	NA	6.3	NA	NA
Copper	2,900	NC	2,900		NA	NA	NA	110	NA	NA
Cyanide	1,600	NC	40		NA	NA	NA	< 0.28	NA	NA
Iron	NC	NC	15,900		NA	NA	NA	48000	NA	NA
Lead*	700	NC	107*		3.3	4.2	8.3	230	14	68
Magnesium	325,000	NC	325,000		NA	NA	NA	28000	NA	NA
Manganese	1,600	69,000	636		NA	NA	NA	1900	NA	NA
Mercury	23	10	0.06		< 0.023	< 0.018	< 0.019	0.073	0.030	< 0.023
Nickel	1,600	13,000	100		NA	NA	NA	26	NA	NA
Potassium	NC	NC	---		NA	NA	NA	570	NA	NA
Selenium	390	NC	1.3		< 0.53	< 0.50	< 0.54	< 1.1	< 0.59	< 0.63
Silver	390	NC	4.4		< 1.1	< 1.0	< 1.1	< 1.1	< 1.2	< 1.3
Sodium	NC	NC	---		NA	NA	NA	210	NA	NA
Thallium	6.3	NC	2.6		NA	NA	NA	< 1.1	NA	NA
Vanadium	550	NC	550		NA	NA	NA	22	NA	NA
Zinc	23,000	NC	5,100		NA	NA	NA	350	NA	NA
TCLP Arsenic	NC	NC	---		NA	NA	NA	NA	NA	NA
pH	NC	NC	---		NA	NA	NA	8.4	NA	NA

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent

* - Compared to pH specific Maximum Allowable Concentration (107 mg/kg)

+ Value for elemental mercury



TABLE 3
Inorganics and pH
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-27-1	RPM-SB-27-2	RPM-SB-28-1	RPM-SB-28-2	RPM-SB-28-3	RPM-SB-29-1
					12/12/2014	12/12/2014	1/23/2015	1/23/2015	1/23/2015	12/12/2014
	Ingestion	Inhalation			Depth (feet):	1-3 feet	6-8 feet	1-3 feet	6-8 feet	13-15 feet
RCRA INORGANICS										
Aluminum	NC	NC	---		NA	1100	6400	NA	NA	NA
Antimony	31	NC	5		< 2.1	< 2.3	< 2.2	NA	NA	NA
Arsenic	61	25,000	13		7.0	< 1.1	8.2	7.0	33	7.1
Barium	5,500	690,000	1,500		NA	4.9	78	54	54	60
Beryllium	160	1,300	22		0.63	< 0.57	< 0.54	NA	NA	NA
Cadmium	78	1,800	5.2		0.59	< 0.57	0.67	< 0.54	0.65	< 0.60
Calcium	NC	NC	---		NA	33000	1900	NA	NA	NA
Chromium	230	270	21		16	3.9	13	9.0	15	16
Cobalt	4,700	NC	20		NA	2.4	4.5	NA	NA	NA
Copper	2,900	NC	2,900		15	3.5	35	NA	NA	NA
Cyanide	1,600	NC	40		NA	< 0.29	< 0.28	NA	NA	NA
Iron	NC	NC	15,900		NA	3000	45000	NA	NA	NA
Lead*	700	NC	107*		14	3.3	45	12	83	51
Magnesium	325,000	NC	325,000		NA	18000	1200	NA	NA	NA
Manganese	1,600	69,000	636		NA	210	510	NA	NA	NA
Mercury	23	10	0.06		0.030	< 0.021	0.10	< 0.021	0.072	0.065
Nickel	1,600	13,000	100		20	6.0	9.5	NA	NA	NA
Potassium	NC	NC	---		NA	< 340	650	NA	NA	NA
Selenium	390	NC	1.3		< 0.52	< 0.57	< 1.1	< 0.54	< 0.46	< 1.2
Silver	390	NC	4.4		< 1.0	< 1.1	< 1.1	< 1.1	< 0.93	< 1.2
Sodium	NC	NC	---		NA	< 690	160	NA	NA	NA
Thallium	6.3	NC	2.6		< 1.0	< 1.1	< 1.1	NA	NA	NA
Vanadium	550	NC	550		NA	6.7	25	NA	NA	NA
Zinc	23,000	NC	5,100		45	18	52	NA	NA	NA
TCLP Arsenic	NC	NC	---		NA	NA	NA	NA	NA	NA
pH	NC	NC	---		NA	8.4	7.9	NA	NA	NA

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent

* - Compared to pH specific Maximum Allowable Concentration (107 mg/kg)

+ Value for elemental mercury



TABLE 3
Inorganics and pH
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC		RPM-SB-29-2	RPM-SB-30-1	RPM-SB-30-2	RPM-SB-30-3	RPM-SB-31-1	RPM-SB-31-2
				Date:	12/12/2014	1/23/2015	1/23/2015	1/23/2015	12/12/2014	12/12/2014
	Ingestion	Inhalation		Depth (feet):	7-9 feet	1-3 feet	6-8 feet	11-13 feet	1-3 feet	8-10 feet
RCRA INORGANICS										
Aluminum	NC	NC	---		1500	2900	NA	NA	NA	1300
Antimony	31	NC	5		< 2.2	3.1	NA	NA	< 2.2	< 2.4
Arsenic	61	25,000	13		3.6	96	8.7	3.2	2.6	1.4
Barium	5,500	690,000	1,500		6.1	47	93	21	NA	4.0
Beryllium	160	1,300	22		< 0.55	< 0.53	NA	NA	< 0.56	< 0.60
Cadmium	78	1,800	5.2		< 0.55	0.89	< 0.63	< 0.53	< 0.56	< 0.60
Calcium	NC	NC	---		49000	110000	NA	NA	NA	82000
Chromium	230	270	21		4.1	15	15	6.8	5.3	3.8
Cobalt	4,700	NC	20		6.5	5.1	NA	NA	NA	< 12
Copper	2,900	NC	2,900		7.2	57	NA	NA	< 28	< 3.0
Cyanide	1,600	NC	40		< 0.26	< 0.29	NA	NA	NA	< 0.31
Iron	NC	NC	15,900		4900	30000	NA	NA	NA	5500
Lead*	700	NC	107*		4.0	120	12	35	26	3.6
Magnesium	325,000	NC	325,000		26000	59000	NA	NA	NA	39000
Manganese	1,600	69,000	636		360	700	NA	NA	NA	270
Mercury	23	10	0.06		< 0.020	0.056	0.026	0.064	< 0.022	< 0.023
Nickel	1,600	13,000	100		11	17	NA	NA	4.4	8.0
Potassium	NC	NC	---		330	660	NA	NA	NA	< 360
Selenium	390	NC	1.3		< 0.55	< 0.53	< 1.3	< 0.53	< 0.56	< 0.6
Silver	390	NC	4.4		< 1.1	< 1.1	< 1.3	< 1.1	< 1.1	< 1.2
Sodium	NC	NC	---		< 660	170	NA	NA	NA	< 720
Thallium	6.3	NC	2.6		< 1.1	< 1.1	NA	NA	< 1.1	< 1.2
Vanadium	550	NC	550		6.1	17	NA	NA	NA	11
Zinc	23,000	NC	5,100		18	110	NA	NA	24	21
TCLP Arsenic	NC	NC	---		NA	NA	NA	NA	NA	NA
pH	NC	NC	---		8.4	8.1	NA	NA	NA	8.4

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent

* - Compared to pH specific Maximum Allowable Concentration (107 mg/kg)

+ Value for elemental mercury



TABLE 3
Inorganics and pH
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-32-1	RPM-SB-32-2	RPM-SB-32-3	RPM-SB-33-1	RPM-SB-33-2	RPM-SB-34-1
					1/23/2015	1/23/2015	1/23/2015	12/12/2014	12/12/2014	1/23/2015
	Ingestion	Inhalation			Depth (feet):	1-3 feet	7-9 feet	13-15 feet	1-3 feet	7-9 feet
RCRA INORGANICS										
Aluminum	NC	NC	---		4000	NA	NA	NA	NA	7000
Antimony	31	NC	5		2.8	< 2.1	NA	NA	NA	< 2.2
Arsenic	61	25,000	13		110	8.6	4.6	5.1	1.3	11
Barium	5,500	690,000	1,500		91	NA	15	140	3.2	69
Beryllium	160	1,300	22		0.84	< 0.53	NA	NA	NA	0.73
Cadmium	78	1,800	5.2		3.2	< 0.53	< 0.51	< 0.53	< 0.61	0.69
Calcium	NC	NC	---		97000	NA	NA	NA	NA	50000
Chromium	230	270	21		17	15	6.5	3.1	2.0	13
Cobalt	4,700	NC	20		5.9	NA	NA	NA	NA	7.5
Copper	2,900	NC	2,900		75	18	NA	NA	NA	38
Cyanide	1,600	NC	40		< 0.29	NA	NA	NA	NA	< 0.31
Iron	NC	NC	15,900		24000	NA	NA	NA	NA	22000
Lead*	700	NC	107*		160	12	19	160	2.3	57
Magnesium	325,000	NC	325,000		54000	NA	NA	NA	NA	29000
Manganese	1,600	69,000	636		1300	NA	NA	NA	NA	580
Mercury	23	10	0.06		0.083	< 0.022	< 0.021	0.20	< 0.023	0.11
Nickel	1,600	13,000	100		17	19	NA	NA	NA	19
Potassium	NC	NC	---		750	NA	NA	NA	NA	730
Selenium	390	NC	1.3		0.91	< 0.53	< 0.51	< 1.1	< 1.2	< 0.54
Silver	390	NC	4.4		< 1.2	< 1.1	< 1.0	< 1.1	< 1.2	< 1.1
Sodium	NC	NC	---		270	NA	NA	NA	NA	110
Thallium	6.3	NC	2.6		< 1.2	< 1.1	NA	NA	NA	< 1.1
Vanadium	550	NC	550		23	NA	NA	NA	NA	27
Zinc	23,000	NC	5,100		180	49	NA	NA	NA	98
TCLP Arsenic	NC	NC	---		NA	NA	NA	NA	NA	NA
pH	NC	NC	---		8.0	NA	NA	NA	NA	7.7

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent

* - Compared to pH specific Maximum Allowable Concentration (107 mg/kg)

+ Value for elemental mercury



TABLE 3
Inorganics and pH
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-34-2	RPM-SB-34-3	RPM-SB-35-1	RPM-SB-35-2	RPM-SB-36-1	RPM-SB-36-2
					1/23/2015	1/23/2015	12/12/2014	12/12/2014	1/23/2015	1/23/2015
	Ingestion	Inhalation	Depth (feet):		6-8 feet	13-15 feet	1-3 feet	6-8 feet	1-3 feet	6-8 feet
RCRA INORGANICS										
Aluminum	NC	NC	---		NA	NA	NA	1300	4200	NA
Antimony	31	NC	5		< 2.1	NA	NA	< 2.1	< 2.5	< 2.0
Arsenic	61	25,000	13		7.0	28	10	1.8	56	8.8
Barium	5,500	690,000	1,500		NA	160	290	4.1	64	NA
Beryllium	160	1,300	22		< 0.54	NA	NA	< 0.53	0.81	0.66
Cadmium	78	1,800	5.2		< 0.54	1.3	< 0.66	< 0.53	0.74	< 0.50
Calcium	NC	NC	---		NA	NA	NA	30000	52000	NA
Chromium	230	270	21		11	10	10	4.3	14	15
Cobalt	4,700	NC	20		NA	NA	NA	< 11	5.3	NA
Copper	2,900	NC	2,900		13	NA	NA	< 26	60	15
Cyanide	1,600	NC	40		NA	NA	NA	< 0.29	< 0.31	NA
Iron	NC	NC	15,900		NA	NA	NA	4500	28000	NA
Lead*	700	NC	107*		9.3	230	250	3.6	64	13
Magnesium	325,000	NC	325,000		NA	NA	NA	14000	29000	NA
Manganese	1,600	69,000	636		NA	NA	NA	200	390	NA
Mercury	23	10	0.06		< 0.020	0.052	0.28	< 0.021	0.66	< 0.023
Nickel	1,600	13,000	100		13	NA	NA	5.6	16	18
Potassium	NC	NC	---		NA	NA	NA	< 320	570	NA
Selenium	390	NC	1.3		< 0.54	1.5	< 1.3	0.75	< 0.62	< 0.5
Silver	390	NC	4.4		< 1.1	< 1.2	< 1.3	< 1.1	< 1.2	< 0.99
Sodium	NC	NC	---		NA	NA	NA	< 630	240	NA
Thallium	6.3	NC	2.6		< 1.1	NA	NA	< 1.1	< 1.2	< 0.99
Vanadium	550	NC	550		NA	NA	NA	6.6	21	NA
Zinc	23,000	NC	5,100		37	NA	NA	14	94	45
TCLP Arsenic	NC	NC	---		NA	NA	NA	NA	NA	NA
pH	NC	NC	---		NA	NA	NA	7.9	7.9	NA

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent

* - Compared to pH specific Maximum Allowable Concentration (107 mg/kg)

+ Value for elemental mercury



TABLE 3
Inorganics and pH
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-36-3	RPM-SB-37-1	RPM-SB-37-2
	Ingestion	Inhalation			1/23/2015	12/12/2014	12/12/2014
				Depth (feet):	13-15 feet	1-3 feet	6-8 feet
RCRA INORGANICS							
Aluminum	NC	NC	---		NA	NA	NA
Antimony	31	NC	5		NA	< 2.2	NA
Arsenic	61	25,000	13		81	2.8	1.6
Barium	5,500	690,000	1,500		360	NA	3.9
Beryllium	160	1,300	22		NA	< 0.55	NA
Cadmium	78	1,800	5.2		2.1	< 0.55	< 0.56
Calcium	NC	NC	---		NA	NA	NA
Chromium	230	270	21		10	7.3	1.9
Cobalt	4,700	NC	20		NA	NA	NA
Copper	2,900	NC	2,900		NA	< 27	NA
Cyanide	1,600	NC	40		NA	NA	NA
Iron	NC	NC	15,900		NA	NA	NA
Lead*	700	NC	107*		350	6.4	2.9
Magnesium	325,000	NC	325,000		NA	NA	NA
Manganese	1,600	69,000	636		NA	NA	NA
Mercury	23	10	0.06		0.11	< 0.020	< 0.019
Nickel	1,600	13,000	100		NA	4.8	NA
Potassium	NC	NC	---		NA	NA	NA
Selenium	390	NC	1.3		1.6	< 0.55	< 1.1
Silver	390	NC	4.4		< 1.2	< 1.1	< 1.1
Sodium	NC	NC	---		NA	NA	NA
Thallium	6.3	NC	2.6		NA	< 1.1	NA
Vanadium	550	NC	550		NA	NA	NA
Zinc	23,000	NC	5,100		NA	23	NA
TCLP Arsenic	NC	NC	---		NA	NA	NA
pH	NC	NC	---		NA	NA	NA

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent

* - Compared to pH specific Maximum Allowable Concentration (107 mg/kg)

+ Value for elemental mercury



TABLE 4
Pesticides and PCBs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:					
				RPM-SB-15-1	RPM-SB-15-2	RPM-SB-16-1	RPM-SB-16-2	RPM-SB-16-3	RPM-SB-18-1
	Ingestion	Inhalation	Depth (feet):	12/11/2014	12/11/2014	1/20/2015	1/20/2015	1/20/2015	1/20/2015
				1-3 feet	5-7 feet	1-3 feet	5-7 feet	11-13 feet	1-3 feet
Pesticides									
4,4'-DDD	520	NC	3	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
4,4'-DDE	370	NC	2	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
4,4'-DDT	100	2,100	2	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
Aldrin	6.1	9.3	0.94	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
alpha-BHC	20	2.1	NC	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
alpha-Chlordane	NC	NC	NC	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
beta-BHC	NC	NC	NC	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
Chlordane	100	22	1.8	< 0.017	< 0.032	< 0.020	< 0.018	NA	< 0.018
delta-BHC	NC	NC	NC	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
Dieldrin	7.8	3.1	0.603	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
Endosulfan I	NC	NC	18	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
Endosulfan II	NC	NC	NC	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
Endosulfan sulfate	NC	NC	18	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
Endrin	61	NC	1	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
Endrin aldehyde	NC	NC	NC	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
Endrin ketone	NC	NC	NC	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
gamma-BHC	96	NC	NC	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
gamma-Chlordane	NC	NC	NC	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
Heptachlor	28	16	NC	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
Heptachlor epoxide	2.7	13	NC	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
Methoxychlor	1,000	NC	160	< 0.0017	< 0.0032	< 0.0020	< 0.0018	NA	< 0.0018
Toxaphene	110	240	NC	< 0.035	< 0.067	< 0.041	< 0.038	NA	< 0.037
PCBs									
Aroclor 1016	NC	NC	1	< 0.084	< 0.16	< 0.098	< 0.091	< 0.090	< 0.089
Aroclor 1221	NC	NC	1	< 0.084	< 0.16	< 0.098	< 0.091	< 0.090	< 0.089
Aroclor 1232	NC	NC	1	< 0.084	< 0.16	< 0.098	< 0.091	< 0.090	< 0.089
Aroclor 1242	NC	NC	1	< 0.084	< 0.16	< 0.098	< 0.091	< 0.090	< 0.089
Aroclor 1248	NC	NC	1	< 0.084	< 0.16	< 0.098	< 0.091	< 0.090	< 0.089
Aroclor 1254	NC	NC	1	< 0.084	< 0.16	< 0.098	< 0.091	< 0.090	< 0.089
Aroclor 1260	NC	NC	1	< 0.084	< 0.16	< 0.098	< 0.091	< 0.090	< 0.089

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent

* - Compared to pH specific Maximum Allowable Concentration (107 mg/kg)

+ Value for elemental mercury



TABLE 4
Pesticides and PCBs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-18-2	RPM-SB-18-3	RPM-SB-19-1	RPM-SB-19-2	RPM-SB-19-3	RPM-SB-21-1	
	Ingestion	Inhalation			1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015
					Depth (feet):	6-8 feet	13-15 feet	1-3 feet	6-8 feet	12-14 feet	1-3 feet
Pesticides											
4,4'-DDD	520	NC	3		NA	NA	< 0.0021	NA	NA	< 0.0017	
4,4'-DDE	370	NC	2		NA	NA	< 0.0021	NA	NA	< 0.0017	
4,4'-DDT	100	2,100	2		NA	NA	< 0.0021	NA	NA	< 0.0017	
Aldrin	6.1	9.3	0.94		NA	NA	< 0.0021	NA	NA	< 0.0017	
alpha-BHC	20	2.1	NC		NA	NA	< 0.0021	NA	NA	< 0.0017	
alpha-Chlordane	NC	NC	NC		NA	NA	< 0.0021	NA	NA	< 0.0017	
beta-BHC	NC	NC	NC		NA	NA	< 0.0021	NA	NA	< 0.0017	
Chlordane	100	22	1.8		NA	NA	< 0.021	NA	NA	< 0.017	
delta-BHC	NC	NC	NC		NA	NA	< 0.0021	NA	NA	< 0.0017	
Dieldrin	7.8	3.1	0.603		NA	NA	< 0.0021	NA	NA	< 0.0017	
Endosulfan I	NC	NC	18		NA	NA	< 0.0021	NA	NA	< 0.0017	
Endosulfan II	NC	NC	NC		NA	NA	< 0.0021	NA	NA	< 0.0017	
Endosulfan sulfate	NC	NC	18		NA	NA	< 0.0021	NA	NA	< 0.0017	
Endrin	61	NC	1		NA	NA	< 0.0021	NA	NA	< 0.0017	
Endrin aldehyde	NC	NC	NC		NA	NA	< 0.0021	NA	NA	< 0.0017	
Endrin ketone	NC	NC	NC		NA	NA	< 0.0021	NA	NA	< 0.0017	
gamma-BHC	96	NC	NC		NA	NA	< 0.0021	NA	NA	< 0.0017	
gamma-Chlordane	NC	NC	NC		NA	NA	< 0.0021	NA	NA	< 0.0017	
Heptachlor	28	16	NC		NA	NA	< 0.0021	NA	NA	< 0.0017	
Heptachlor epoxide	2.7	13	NC		NA	NA	< 0.0021	NA	NA	< 0.0017	
Methoxychlor	1,000	NC	160		NA	NA	< 0.0021	NA	NA	< 0.0017	
Toxaphene	110	240	NC		NA	NA	< 0.044	NA	NA	< 0.035	
PCBs											
Aroclor 1016	NC	NC	1		< 0.096	< 0.091	< 0.11	< 0.090	< 0.097	< 0.086	
Aroclor 1221	NC	NC	1		< 0.096	< 0.091	< 0.11	< 0.090	< 0.097	< 0.086	
Aroclor 1232	NC	NC	1		< 0.096	< 0.091	< 0.11	< 0.090	< 0.097	< 0.086	
Aroclor 1242	NC	NC	1		< 0.096	< 0.091	< 0.11	< 0.090	< 0.097	< 0.086	
Aroclor 1248	NC	NC	1		< 0.096	< 0.091	< 0.11	< 0.090	< 0.097	< 0.086	
Aroclor 1254	NC	NC	1		< 0.096	< 0.091	< 0.11	< 0.090	< 0.097	< 0.086	
Aroclor 1260	NC	NC	1		< 0.096	< 0.091	< 0.11	< 0.090	< 0.097	< 0.086	

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent

* - Compared to pH specific Maximum Allowable Concentration (107 mg/kg)

+ Value for elemental mercury



TABLE 4
Pesticides and PCBs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-21-2	RPM-SB-21-3	RPM-SB-23-1	RPM-SB-23-2	RPM-SB-23-3	RPM-SB-26-1	
	Ingestion	Inhalation			1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/23/2015
	Depth (feet):				6-8 feet	13-15 feet	1-3 feet	6-8 feet	12-14 feet	1-3 feet	
Pesticides											
4,4'-DDD	520	NC	3		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
4,4'-DDE	370	NC	2		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
4,4'-DDT	100	2,100	2		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
Aldrin	6.1	9.3	0.94		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
alpha-BHC	20	2.1	NC		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
alpha-Chlordane	NC	NC	NC		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
beta-BHC	NC	NC	NC		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
Chlordane	100	22	1.8		NA	NA	< 0.018	< 0.019	NA	< 0.018	
delta-BHC	NC	NC	NC		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
Dieldrin	7.8	3.1	0.603		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
Endosulfan I	NC	NC	18		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
Endosulfan II	NC	NC	NC		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
Endosulfan sulfate	NC	NC	18		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
Endrin	61	NC	1		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
Endrin aldehyde	NC	NC	NC		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
Endrin ketone	NC	NC	NC		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
gamma-BHC	96	NC	NC		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
gamma-Chlordane	NC	NC	NC		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
Heptachlor	28	16	NC		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
Heptachlor epoxide	2.7	13	NC		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
Methoxychlor	1,000	NC	160		NA	NA	< 0.0018	< 0.0019	NA	< 0.0018	
Toxaphene	110	240	NC		NA	NA	< 0.037	< 0.038	NA	< 0.036	
PCBs											
Aroclor 1016	NC	NC	1		< 0.091	< 0.093	< 0.089	< 0.093	< 0.086	< 0.088	
Aroclor 1221	NC	NC	1		< 0.091	< 0.093	< 0.089	< 0.093	< 0.086	< 0.088	
Aroclor 1232	NC	NC	1		< 0.091	< 0.093	< 0.089	< 0.093	< 0.086	< 0.088	
Aroclor 1242	NC	NC	1		< 0.091	< 0.093	< 0.089	< 0.093	< 0.086	< 0.088	
Aroclor 1248	NC	NC	1		< 0.091	< 0.093	< 0.089	< 0.093	< 0.086	< 0.088	
Aroclor 1254	NC	NC	1		< 0.091	< 0.093	< 0.089	< 0.093	< 0.086	< 0.088	
Aroclor 1260	NC	NC	1		< 0.091	< 0.093	< 0.089	< 0.093	< 0.086	< 0.088	

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent

* - Compared to pH specific Maximum Allowable Concentration (107 mg/kg)

+ Value for elemental mercury



TABLE 4
Pesticides and PCBs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:					
				RPM-SB-26-2	RPM-SB-27-1	RPM-SB-27-2	RPM-SB-28-1	RPM-SB-28-2	RPM-SB-29-1
	Ingestion	Inhalation	Depth (feet):	1/23/2015	12/12/2014	12/12/2014	1/23/2015	1/23/2015	12/12/2014
				7-9 feet	1-3 feet	6-8 feet	1-3 feet	6-8 feet	1-3 feet
Pesticides									
4,4'-DDD	520	NC	3	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
4,4'-DDE	370	NC	2	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
4,4'-DDT	100	2,100	2	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
Aldrin	6.1	9.3	0.94	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
alpha-BHC	20	2.1	NC	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
alpha-Chlordane	NC	NC	NC	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
beta-BHC	NC	NC	NC	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
Chlordane	100	22	1.8	NA	< 0.019	< 0.019	< 0.018	NA	< 0.018
delta-BHC	NC	NC	NC	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
Dieldrin	7.8	3.1	0.603	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
Endosulfan I	NC	NC	18	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
Endosulfan II	NC	NC	NC	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
Endosulfan sulfate	NC	NC	18	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
Endrin	61	NC	1	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
Endrin aldehyde	NC	NC	NC	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
Endrin ketone	NC	NC	NC	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
gamma-BHC	96	NC	NC	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
gamma-Chlordane	NC	NC	NC	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
Heptachlor	28	16	NC	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
Heptachlor epoxide	2.7	13	NC	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
Methoxychlor	1,000	NC	160	NA	< 0.0019	< 0.0019	< 0.0018	NA	< 0.0018
Toxaphene	110	240	NC	NA	< 0.039	< 0.039	< 0.037	NA	< 0.038
PCBs									
Aroclor 1016	NC	NC	1	< 0.097	NA	< 0.093	< 0.089	< 0.088	NA
Aroclor 1221	NC	NC	1	< 0.097	NA	< 0.093	< 0.089	< 0.088	NA
Aroclor 1232	NC	NC	1	< 0.097	NA	< 0.093	< 0.089	< 0.088	NA
Aroclor 1242	NC	NC	1	< 0.097	NA	< 0.093	< 0.089	< 0.088	NA
Aroclor 1248	NC	NC	1	< 0.097	NA	< 0.093	< 0.089	< 0.088	NA
Aroclor 1254	NC	NC	1	< 0.097	NA	< 0.093	< 0.089	< 0.088	NA
Aroclor 1260	NC	NC	1	< 0.097	NA	< 0.093	< 0.089	< 0.088	NA

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent

* - Compared to pH specific Maximum Allowable Concentration (107 mg/kg)

+ Value for elemental mercury



TABLE 4
Pesticides and PCBs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-29-2	RPM-SB-30-1	RPM-SB-30-2	RPM-SB-31-2	RPM-SB-32-1	RPM-SB-32-3
	Ingestion	Inhalation			12/12/2014	1/23/2015	1/23/2015	12/12/2014	1/23/2015	1/23/2015
					Depth (feet):	7-9 feet	1-3 feet	6-8 feet	8-10 feet	1-3 feet
Pesticides										
4,4'-DDD	520	NC	3		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
4,4'-DDE	370	NC	2		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
4,4'-DDT	100	2,100	2		0.0021	< 0.0018	NA	< 0.0020	< 0.0018	NA
Aldrin	6.1	9.3	0.94		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
alpha-BHC	20	2.1	NC		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
alpha-Chlordane	NC	NC	NC		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
beta-BHC	NC	NC	NC		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
Chlordane	100	22	1.8		< 0.017	< 0.018	NA	< 0.020	< 0.018	NA
delta-BHC	NC	NC	NC		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
Dieldrin	7.8	3.1	0.603		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
Endosulfan I	NC	NC	18		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
Endosulfan II	NC	NC	NC		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
Endosulfan sulfate	NC	NC	18		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
Endrin	61	NC	1		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
Endrin aldehyde	NC	NC	NC		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
Endrin ketone	NC	NC	NC		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
gamma-BHC	96	NC	NC		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
gamma-Chlordane	NC	NC	NC		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
Heptachlor	28	16	NC		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
Heptachlor epoxide	2.7	13	NC		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
Methoxychlor	1,000	NC	160		< 0.0017	< 0.0018	NA	< 0.0020	< 0.0018	NA
Toxaphene	110	240	NC		< 0.035	< 0.038	NA	< 0.040	< 0.038	NA
PCBs										
Aroclor 1016	NC	NC	1		< 0.084	< 0.091	< 0.097	< 0.098	< 0.091	< 0.091
Aroclor 1221	NC	NC	1		< 0.084	< 0.091	< 0.097	< 0.098	< 0.091	< 0.091
Aroclor 1232	NC	NC	1		< 0.084	< 0.091	< 0.097	< 0.098	< 0.091	< 0.091
Aroclor 1242	NC	NC	1		< 0.084	< 0.091	< 0.097	< 0.098	< 0.091	< 0.091
Aroclor 1248	NC	NC	1		< 0.084	< 0.091	< 0.097	< 0.098	< 0.091	< 0.091
Aroclor 1254	NC	NC	1		< 0.084	< 0.091	< 0.097	< 0.098	< 0.091	< 0.091
Aroclor 1260	NC	NC	1		< 0.084	< 0.091	< 0.097	< 0.098	< 0.091	< 0.091

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent

* - Compared to pH specific Maximum Allowable Concentration (107 mg/kg)

+ Value for elemental mercury



TABLE 4
Pesticides and PCBs
CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization

	CONSTRUCTION WORKER		MAC	Date:	RPM-SB-34-1	RPM-SB-34-2	RPM-SB-35-2	RPM-SB-36-1	RPM-SB-36-2
					1/23/2015	1/23/2015	12/12/2014	1/23/2015	1/23/2015
	Ingestion	Inhalation			Depth (feet):	1-3 feet	6-8 feet	6-8 feet	1-3 feet
Pesticides									
4,4'-DDD	520	NC	3		< 0.0020	NA	< 0.0018	< 0.0020	NA
4,4'-DDE	370	NC	2		< 0.0020	NA	< 0.0018	< 0.0020	NA
4,4'-DDT	100	2,100	2		< 0.0020	NA	< 0.0018	< 0.0020	NA
Aldrin	6.1	9.3	0.94		< 0.0020	NA	< 0.0018	< 0.0020	NA
alpha-BHC	20	2.1	NC		< 0.0020	NA	< 0.0018	< 0.0020	NA
alpha-Chlordane	NC	NC	NC		< 0.0020	NA	< 0.0018	< 0.0020	NA
beta-BHC	NC	NC	NC		< 0.0020	NA	< 0.0018	< 0.0020	NA
Chlordane	100	22	1.8		< 0.020	NA	< 0.018	< 0.020	NA
delta-BHC	NC	NC	NC		< 0.0020	NA	< 0.0018	< 0.0020	NA
Dieldrin	7.8	3.1	0.603		< 0.0020	NA	< 0.0018	< 0.0020	NA
Endosulfan I	NC	NC	18		< 0.0020	NA	< 0.0018	< 0.0020	NA
Endosulfan II	NC	NC	NC		< 0.0020	NA	< 0.0018	< 0.0020	NA
Endosulfan sulfate	NC	NC	18		< 0.0020	NA	< 0.0018	< 0.0020	NA
Endrin	61	NC	1		< 0.0020	NA	< 0.0018	< 0.0020	NA
Endrin aldehyde	NC	NC	NC		< 0.0020	NA	< 0.0018	< 0.0020	NA
Endrin ketone	NC	NC	NC		< 0.0020	NA	< 0.0018	< 0.0020	NA
gamma-BHC	96	NC	NC		< 0.0020	NA	< 0.0018	< 0.0020	NA
gamma-Chlordane	NC	NC	NC		< 0.0020	NA	< 0.0018	< 0.0020	NA
Heptachlor	28	16	NC		< 0.0020	NA	< 0.0018	< 0.0020	NA
Heptachlor epoxide	2.7	13	NC		< 0.0020	NA	< 0.0018	< 0.0020	NA
Methoxychlor	1,000	NC	160		< 0.0020	NA	< 0.0018	< 0.0020	NA
Toxaphene	110	240	NC		< 0.041	NA	< 0.038	< 0.040	NA
PCBs									
Aroclor 1016	NC	NC	1		< 0.099	< 0.091	< 0.092	< 0.098	< 0.094
Aroclor 1221	NC	NC	1		< 0.099	< 0.091	< 0.092	< 0.098	< 0.094
Aroclor 1232	NC	NC	1		< 0.099	< 0.091	< 0.092	< 0.098	< 0.094
Aroclor 1242	NC	NC	1		< 0.099	< 0.091	< 0.092	< 0.098	< 0.094
Aroclor 1248	NC	NC	1		< 0.099	< 0.091	< 0.092	< 0.098	< 0.094
Aroclor 1254	NC	NC	1		< 0.099	< 0.091	< 0.092	< 0.098	< 0.094
Aroclor 1260	NC	NC	1		< 0.099	< 0.091	< 0.092	< 0.098	< 0.094

NC - No criteria available for this exposure pathway

NA - Not analyzed for this constituent

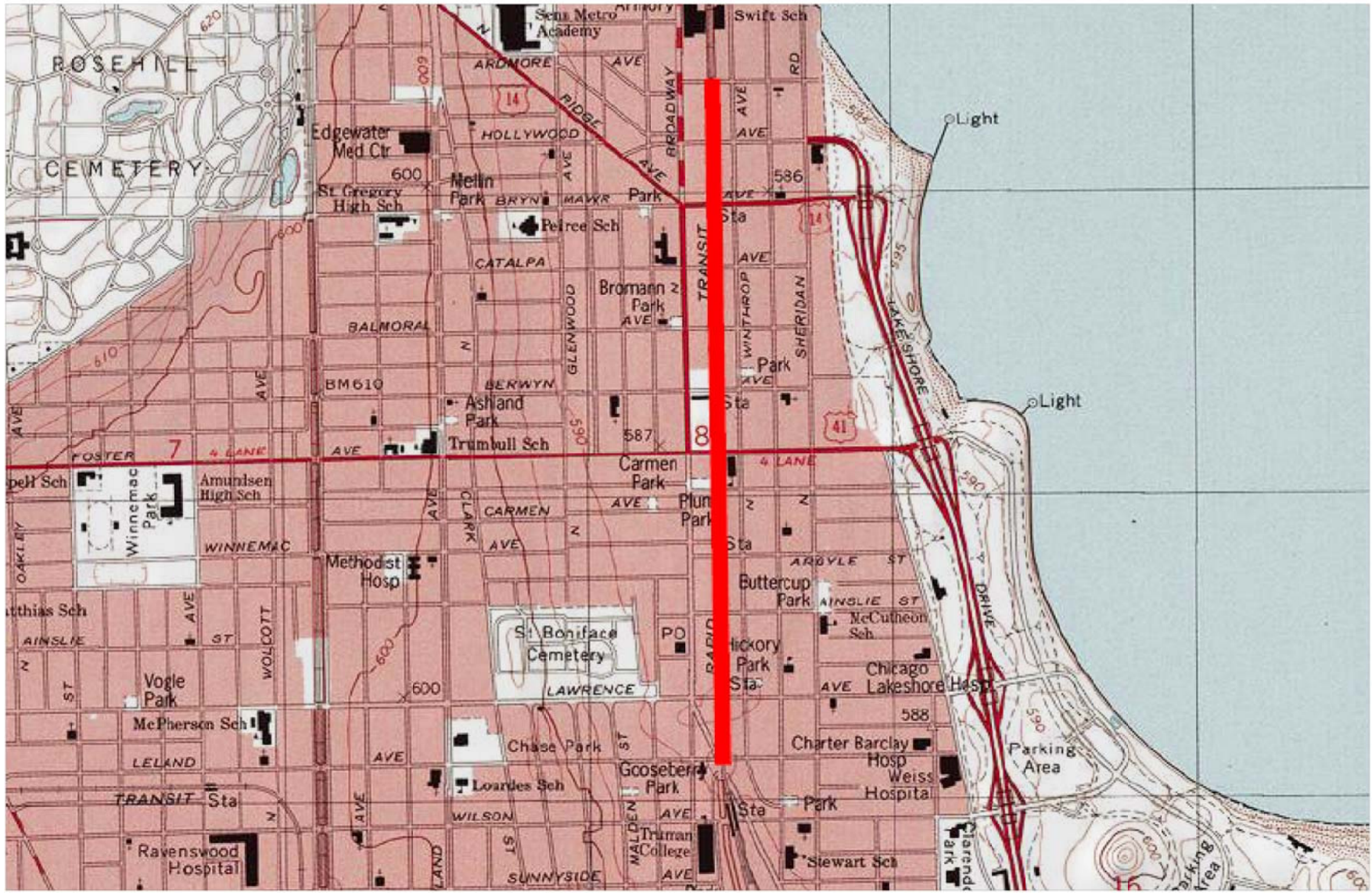
* - Compared to pH specific Maximum Allowable Concentration (107 mg/kg)

+ Value for elemental mercury



LIST OF EXHIBITS

Exhibit 1	Site Location Map
Exhibit 2	Boring Location Map
Exhibit 3	Construction Worker Precaution Areas
Exhibit 4	Fill Soil Disposal Map
Exhibit 5	Native Sand Soil Disposal Map



GSG CONSULTANTS, INC.

855 W. ADAMS, SUITE 200
CHICAGO, IL. 60607
PHONE: (312) 733-6262
FAX : (312) 733-5612

SCALE:

NTS

DRAWN BY:

LO

CHECKED BY:

SL

DATE:

2/11/15

EXHIBIT 1

SITE LOCATION MAP

LAWRENCE TO BRYN MAWR MODERNIZATION

CHICAGO, ILLINOIS

W. FOSTER AVE.

RPM-SB-25



W. WINONA AVE.

RPM-SB-24

1370+00

ARGYLE STATION

W. ARGYLE AVE.

RPM-SB-22

1360+00

W. AINSLIE AVE.

RPM-SB-20

1350+00

LAWRENCE STATION



W. LAWRENCE AVE.

RPM-SB-17

W. LELAND AVE.

RPM-SB-15

LEGEND

-  VIADUCT BORING LOCATION
-  CTA STATION



GSG CONSULTANTS, INC.

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NTS

DRAWN BY:
IM

CHECKED BY:
SL

DATE:
01/29/2015

EXHIBIT 2a

VIADUCT BORING LOCATION PLAN

LAWRENCE TO BRYN MAWR MODERNIZATION

CHICAGO, ILLINOIS

W. ARDMORE AVE.

RPM-SB-37



1410+00

W. HOLLYWOOD AVE.

RPM-SB-35

W. BRYN MAWR AVE.
BRYN MAWR STATION

RPM-SB-33

1400+00

W. CATALPA AVE.

RPM-SB-31

1390+00

W. BALMORAL AVE.

RPM-SB-29

W. BERWYN AVE.

RPM-SB-27

BERWYN STATION

0+00

LEGEND



VIADUCT BORING LOCATION



CTA STATION



GSG CONSULTANTS, INC.

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CHICAGO, IL. 60607
PHONE: (312) 733-6262
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SCALE:
NTS

DRAWN BY:
IM

CHECKED BY:
SL

DATE:
01/29/2015

EXHIBIT 2b

VIADUCT BORING LOCATION PLAN

LAWRENCE TO BRYN MAWR MODERNIZATION

CHICAGO, ILLINOIS



W. FOSTER AVE.

W. WINONA AVE.

ARGYLE STATION

W. ARGYLE AVE.

W. AINSLIE AVE.

LAWRENCE STATION

W. LAWRENCE AVE.

1370+00

1360+00

1350+00

RPM-SB-23



RPM-SB-21

RPM-SB-19

RPM-SB-18

RPM-SB-16

LEGEND

-  EMBANKMENT BORING LOCATION
-  CTA STATION



GSG CONSULTANTS, INC.

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CHICAGO, IL. 60607
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SCALE:
NTS

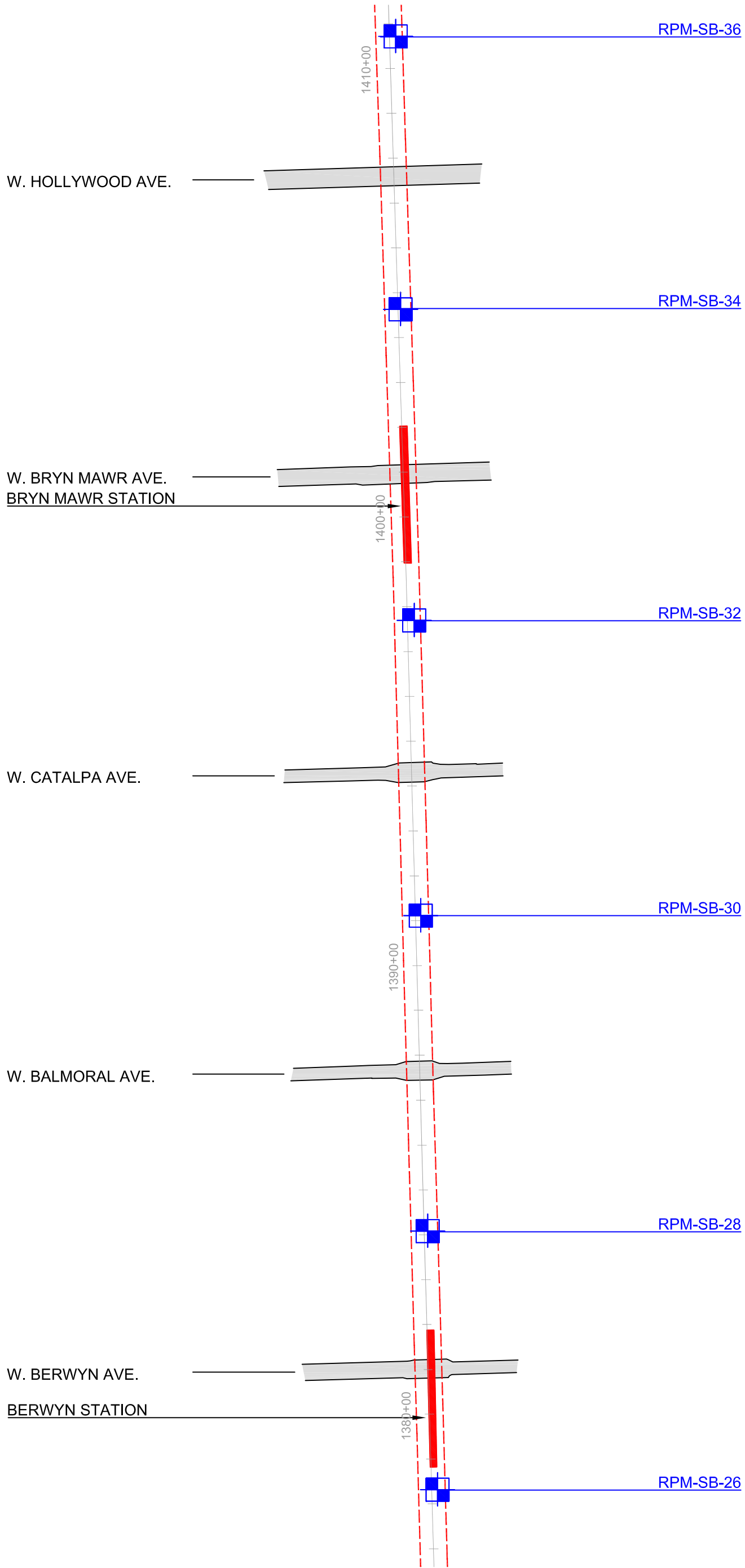
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DATE:
01/29/2015

EXHIBIT 2c

EMBANKMENT BORING LOCATION PLAN
LAWRENCE TO BRYN MAWR MODERNIZATION
CHICAGO, ILLINOIS



LEGEND

-  EMBANKMENT BORING LOCATION
-  CTA STATION



GSG CONSULTANTS, INC.

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SCALE: NTS	DRAWN BY: IM
	CHECKED BY: SL
	DATE: 01/29/2015

EXHIBIT 2d
EMBANKMENT BORING LOCATION PLAN
LAWRENCE TO BRYN MAWR MODERNIZATION
CHICAGO, ILLINOIS



W. FOSTER AVE.

W. WINONA AVE.

ARGYLE STATION

W. ARGYLE AVE.

W. AINSLIE AVE.

LAWRENCE STATION

W. LAWRENCE AVE.

1370+00

1360+00

1350+00

RPM-SB-23





RPM-SB-21

RPM-SB-19

RPM-SB-18

RPM-SB-16

LEGEND

-  EMBANKMENT BORING LOCATION
-  CONSTRUCTION WORKER PRECAUTION AREA
-  CONSTRUCTION WORKER PRECAUTION AREA NOT WARRENTED
-  CTA STATION



GSG CONSULTANTS, INC.

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CHICAGO, IL. 60607
PHONE: (312) 733-6262
FAX : (312) 733-5612

SCALE:
NTS

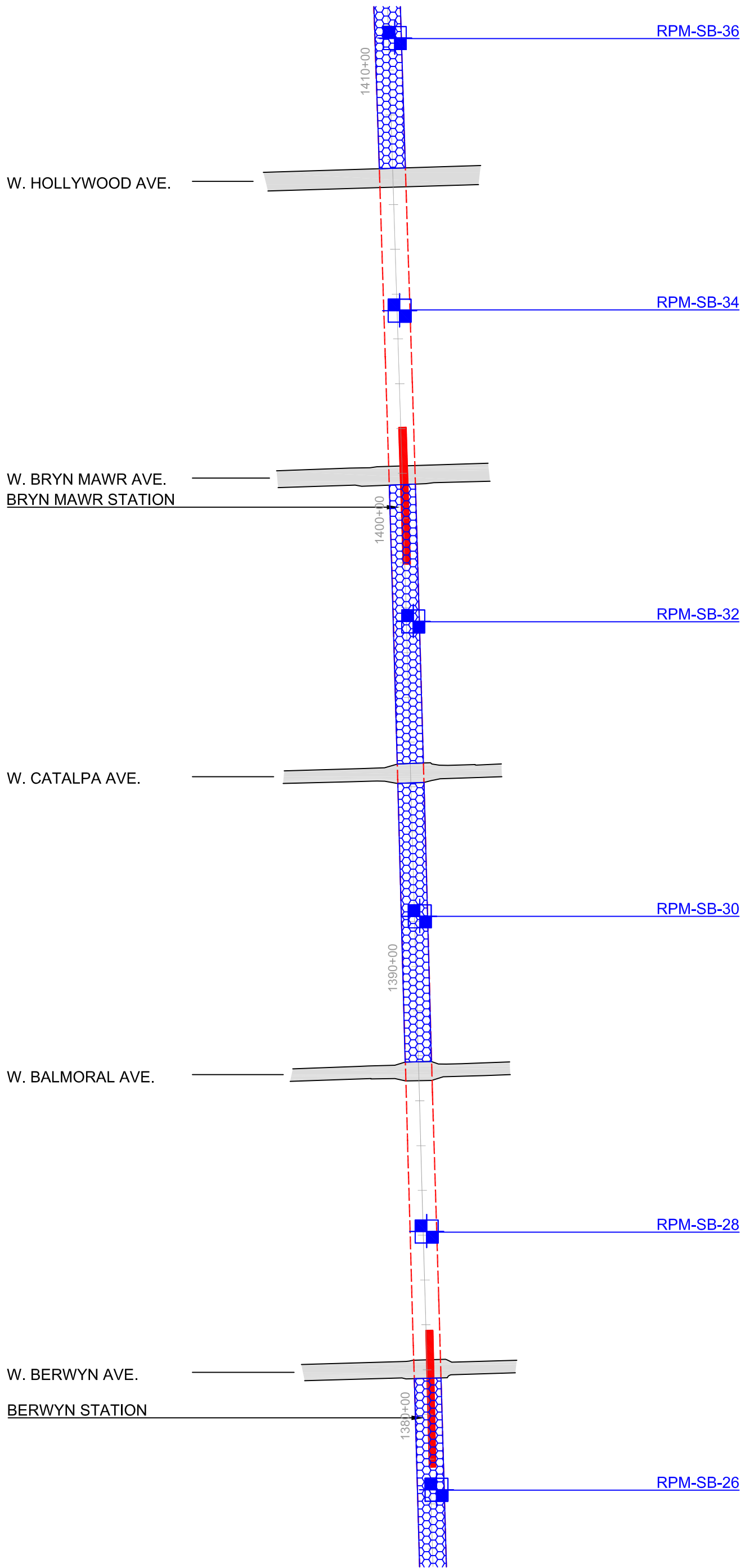
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



DATE:
01/29/2015

EXHIBIT 3a

EMBANKMENT CONSTRUCTION WORKER
PRECAUTION AREAS
LAWRENCE TO BRYN MAWR MODERNIZATION
CHICAGO, ILLINOIS



LEGEND

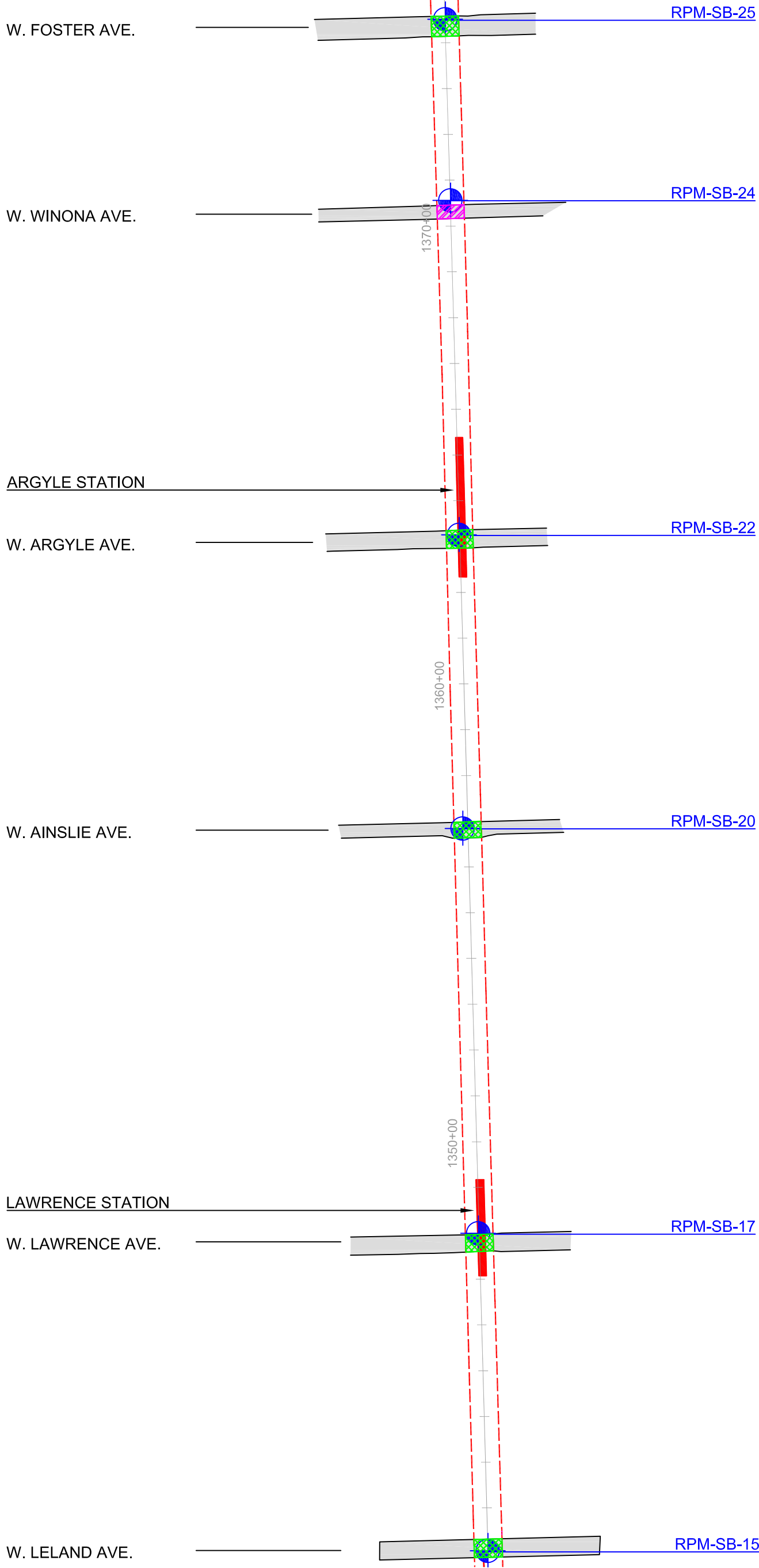
-  EMBANKMENT BORING LOCATION
-  CONSTRUCTION WORKER PRECAUTION AREA
-  CONSTRUCTION WORKER PRECAUTION AREA NOT WARRENTED
-  CTA STATION



GSG CONSULTANTS, INC.
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FAX : (312) 733-5612

SCALE: NTS	DRAWN BY: IM
	CHECKED BY: SL
	DATE: 01/29/2015

EXHIBIT 3b
EMBANKMENT CONSTRUCTION WORKER
PRECAUTION AREAS
LAWRENCE TO BRYN MAWR MODERNIZATION
CHICAGO, ILLINOIS



NOTE: VIADUCT BORINGS WERE PERFORMED AT STREET LEVEL AND ONLY REFLECT SOIL CONDITIONS AT THE INTERSECTION OF THE ELEVATED TRACK AND THE STREETS

LEGEND	
	VIADUCT BORING LOCATION
	CLEAN CONSTRUCTION OR DEMOLITION DEBRIS
	CONTAMINATED MATERIAL; DISPOSE OF AT SUBTITLE D LANDFILL
	CTA STATION



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	CHECKED BY: SL
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EXHIBIT 4a
 VIADUCT FILL SOIL DISPOSAL MAP
 LAWRENCE TO BRYN MAWR MODERNIZATION
 CHICAGO, ILLINOIS

W. ARDMORE AVE.

RPM-SB-37



1410+00

W. HOLLYWOOD AVE.

RPM-SB-35

W. BRYN MAWR AVE.
BRYN MAWR STATION

RPM-SB-33

1400+00

W. CATALPA AVE.

RPM-SB-31

1390+00

W. BALMORAL AVE.

RPM-SB-29

W. BERWYN AVE.

RPM-SB-27

BERWYN STATION

0+00

NOTE: VIADUCT BORINGS WERE PERFORMED AT STREET LEVEL AND ONLY REFLECT SOIL CONDITIONS AT THE INTERSECTION OF THE ELEVATED TRACK AND THE STREETS

LEGEND



VIADUCT BORING LOCATION



CLEAN CONSTRUCTION OR DEMOLITION DEBRIS



CONTAMINATED MATERIAL; DISPOSE OF AT SUBTITLE D LANDFILL



CTA STATION



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FAX : (312) 733-5612

SCALE:
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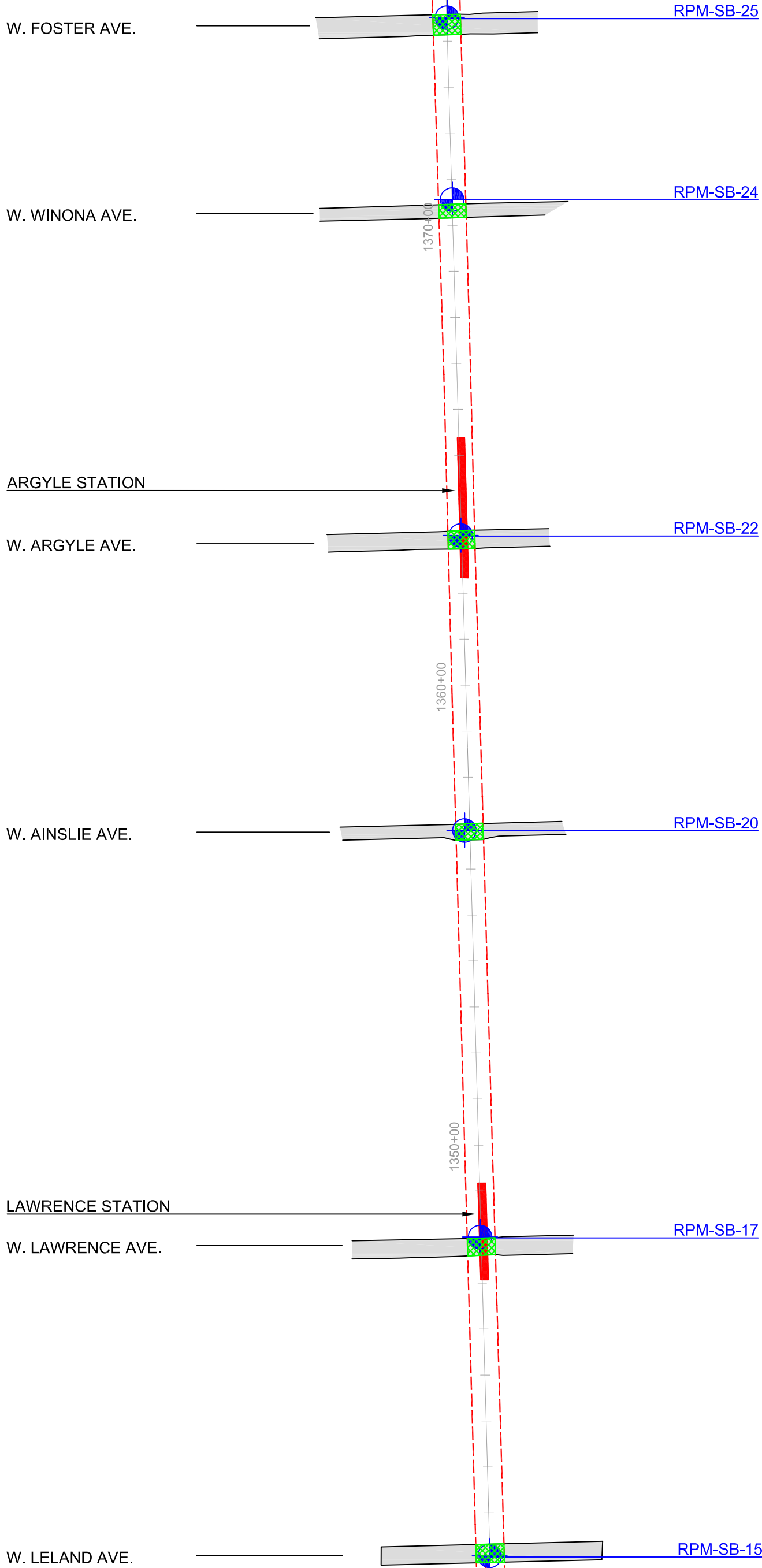
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01/29/2015

EXHIBIT 4b

VIADUCT FILL SOIL DISPOSAL MAP





LAWRENCE TO BRYN MAWR MODERNIZATION

CHICAGO, ILLINOIS



NOTE: VIADUCT BORINGS WERE PERFORMED AT STREET LEVEL AND ONLY REFLECT SOIL CONDITIONS AT THE INTERSECTION OF THE ELEVATED TRACK AND THE STREETS

LEGEND

-  VIADUCT BORING LOCATION
-  CLEAN CONSTRUCTION OR DEMOLITION DEBRIS
-  CONTAMINATED MATERIAL; DISPOSE OF AT SUBTITLE D LANDFILL
-  CTA STATION



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DATE:
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EXHIBIT 4c

VIADUCT NATIVE SOIL DISPOSAL MAP
LAWRENCE TO BRYN MAWR MODERNIZATION
CHICAGO, ILLINOIS

W. ARDMORE AVE.

RPM-SB-37



1410+00

W. HOLLYWOOD AVE.

RPM-SB-35

W. BRYN MAWR AVE.
BRYN MAWR STATION

RPM-SB-33

1400+00

W. CATALPA AVE.

RPM-SB-31

1390+00

W. BALMORAL AVE.

RPM-SB-29

W. BERWYN AVE.

RPM-SB-27

BERWYN STATION

0+00

NOTE: VIADUCT BORINGS WERE PERFORMED AT STREET LEVEL AND ONLY REFLECT SOIL CONDITIONS AT THE INTERSECTION OF THE ELEVATED TRACK AND THE STREETS

LEGEND



VIADUCT BORING LOCATION



CLEAN CONSTRUCTION OR DEMOLITION DEBRIS



CONTAMINATED MATERIAL; DISPOSE OF AT SUBTITLE D LANDFILL



CTA STATION



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DATE:
01/29/2015

EXHIBIT 4d

VIADUCT NATIVE SOIL DISPOSAL MAP

LAWRENCE TO BRYN MAWR MODERNIZATION

CHICAGO, ILLINOIS



W. FOSTER AVE.

W. WINONA AVE.

ARGYLE STATION

W. ARGYLE AVE.

W. AINSLIE AVE.

LAWRENCE STATION

W. LAWRENCE AVE.

1370+00

1360+00

1350+00

RPM-SB-23

RPM-SB-21

RPM-SB-19

RPM-SB-18

RPM-SB-16

LEGEND



EMBANKMENT BORING LOCATION



CLEAN CONSTRUCTION OR DEMOLITION DEBRIS



CONTAMINATED MATERIAL; DISPOSE OF AT SUBTITLE D LANDFILL



CTA STATION



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SCALE:
NTS

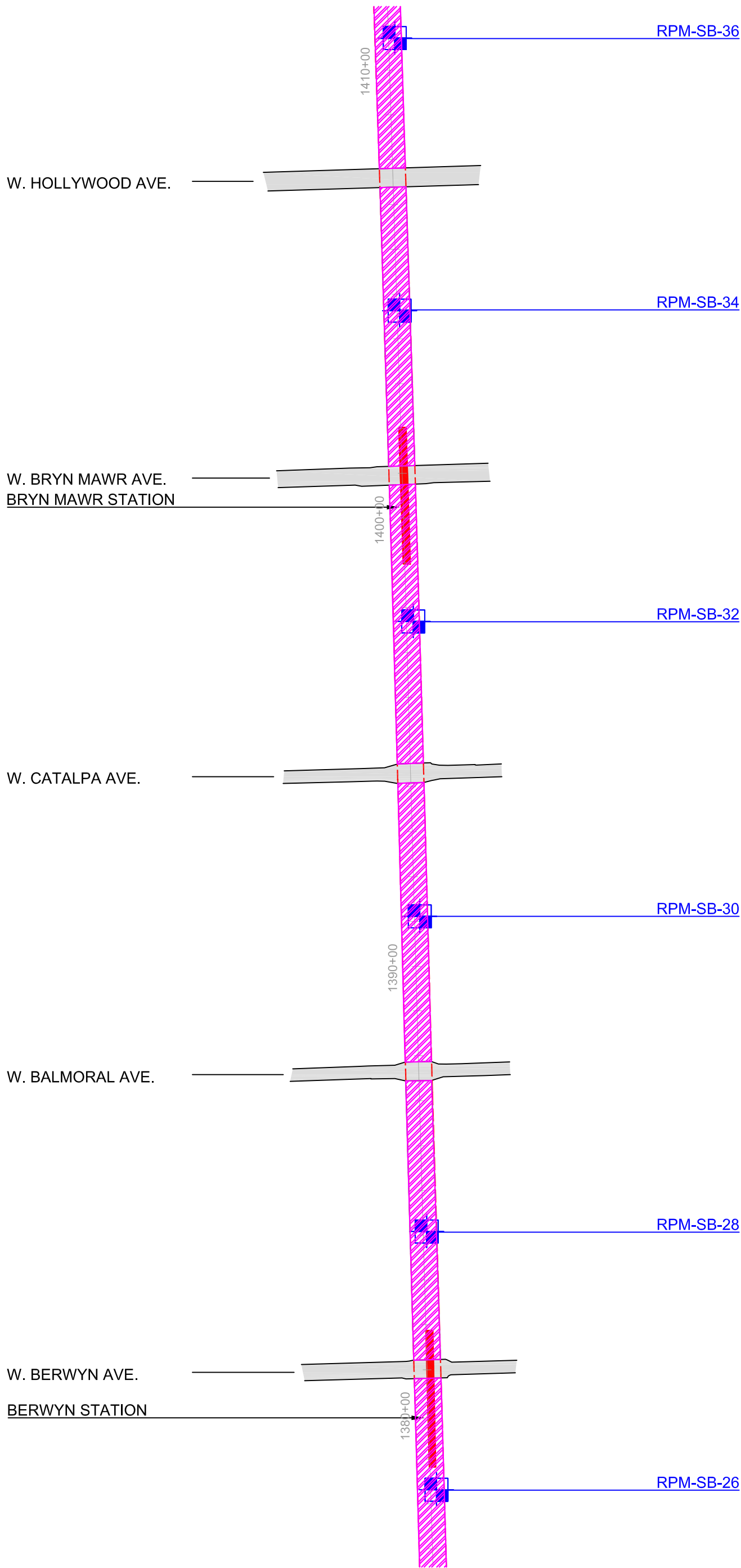
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


DATE:
01/29/2015

EXHIBIT 5a

EMBANKMENT FILL (0'-5') SOIL DISPOSAL MAP
LAWRENCE TO BRYN MAWR MODERNIZATION
CHICAGO, ILLINOIS



LEGEND

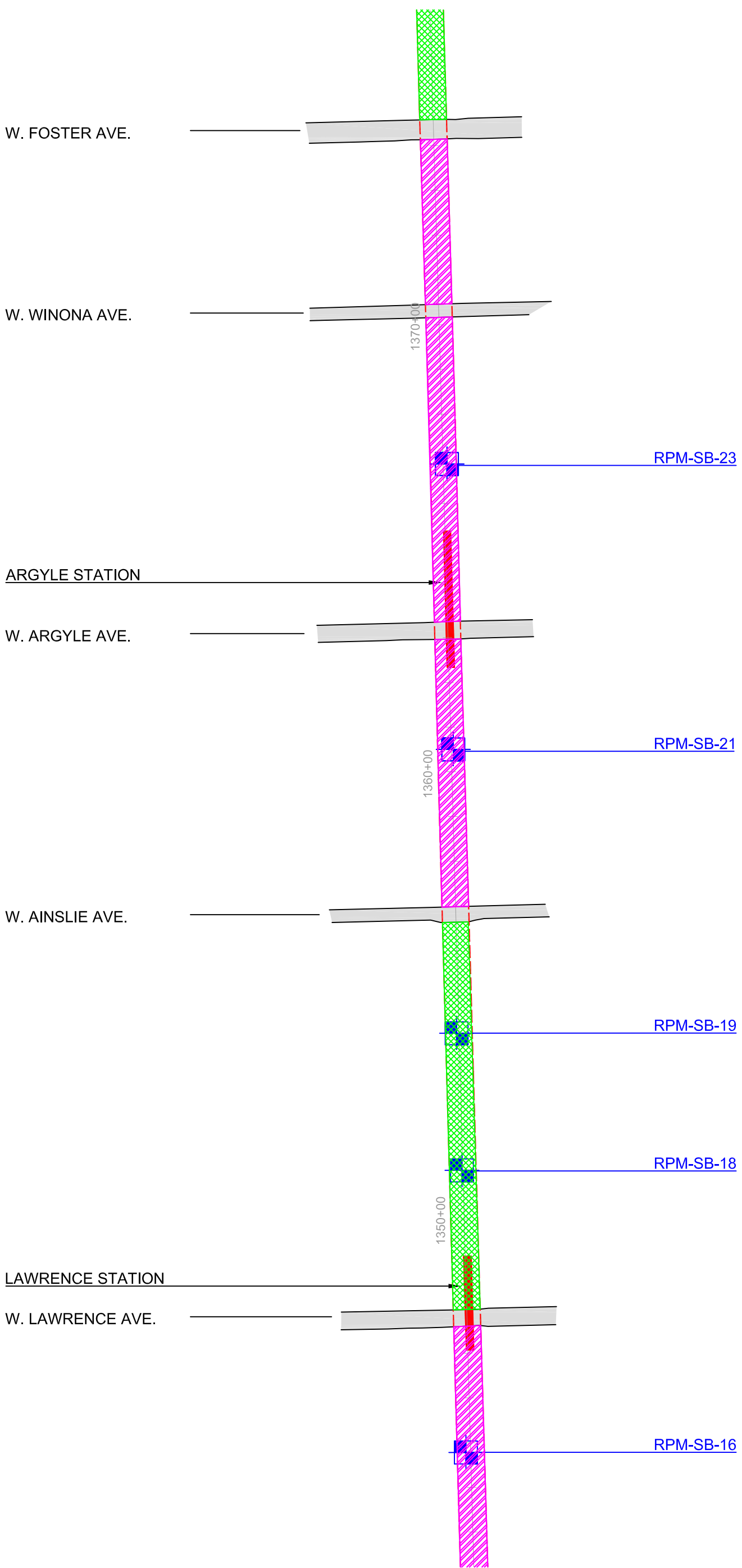
-  EMBANKMENT BORING LOCATION
-  CLEAN CONSTRUCTION OR DEMOLITION DEBRIS
-  CONTAMINATED MATERIAL; DISPOSE OF AT SUBTITLE D LANDFILL
-  CTA STATION







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	DATE: 01/29/2015

EXHIBIT 5b
EMBANKMENT FILL (0'-5') SOIL DISPOSAL MAP
LAWRENCE TO BRYN MAWR MODERNIZATION
CHICAGO, ILLINOIS



LEGEND

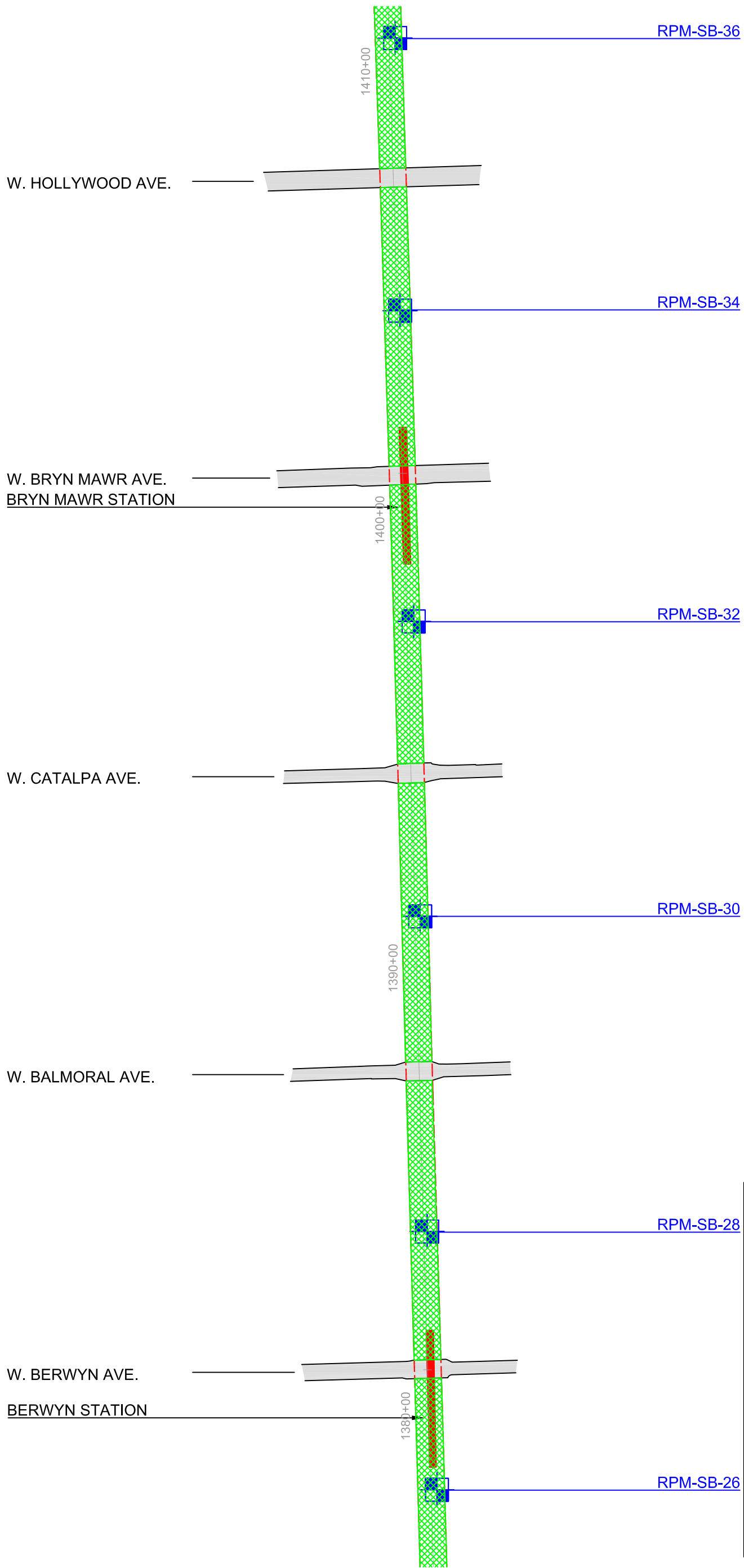
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-  CLEAN CONSTRUCTION OR DEMOLITION DEBRIS
-  CONTAMINATED MATERIAL; DISPOSE OF AT SUBTITLE D LANDFILL
-  CTA STATION







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EXHIBIT 5c
EMBANKMENT FILL (5'-10') SOIL DISPOSAL MAP
LAWRENCE TO BRYN MAWR MODERNIZATION
CHICAGO, ILLINOIS



LEGEND

-  EMBANKMENT BORING LOCATION
-  CLEAN CONSTRUCTION OR DEMOLITION DEBRIS
-  CONTAMINATED MATERIAL; DISPOSE OF AT SUBTITLE D LANDFILL
-  CTA STATION



GSG CONSULTANTS, INC.

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SCALE:
NTS

DRAWN BY:
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DATE:
01/29/2015

EXHIBIT 5d
EMBANKMENT FILL (5'-10') SOIL DISPOSAL MAP
LAWRENCE TO BRYN MAWR MODERNIZATION
CHICAGO, ILLINOIS



W. FOSTER AVE.

W. WINONA AVE.

ARGYLE STATION

W. ARGYLE AVE.

W. AINSLIE AVE.

LAWRENCE STATION

W. LAWRENCE AVE.

1370+00

1360+00

1350+00

RPM-SB-23

RPM-SB-21

RPM-SB-19

RPM-SB-18

RPM-SB-16

LEGEND



EMBANKMENT BORING LOCATION



CLEAN CONSTRUCTION OR DEMOLITION DEBRIS



CONTAMINATED MATERIAL; DISPOSE OF AT SUBTITLE D LANDFILL



CTA STATION



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SCALE:
NTS

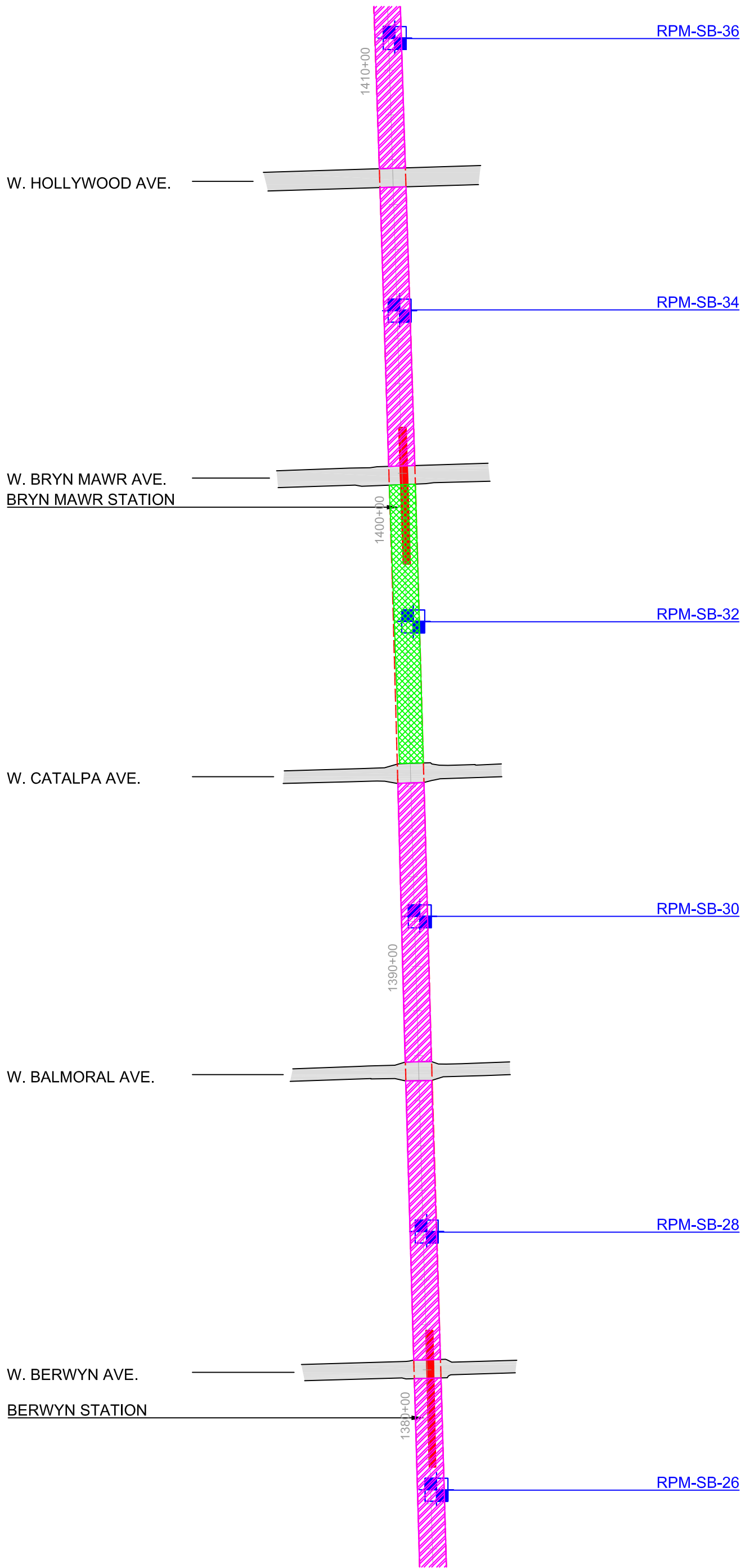
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


DATE:
01/29/2015

EXHIBIT 5e

EMBANKMENT FILL (10'-15') SOIL DISPOSAL MAP
LAWRENCE TO BRYN MAWR MODERNIZATION
CHICAGO, ILLINOIS



LEGEND

-  EMBANKMENT BORING LOCATION
-  CLEAN CONSTRUCTION OR DEMOLITION DEBRIS
-  CONTAMINATED MATERIAL; DISPOSE OF AT SUBTITLE D LANDFILL
-  CTA STATION



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SCALE:
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DATE:
01/29/2015

EXHIBIT 5f
EMBANKMENT FILL (10'-15') SOIL DISPOSAL MAP
LAWRENCE TO BRYN MAWR MODERNIZATION
CHICAGO, ILLINOIS

APPENDICES

- Appendix A Sampling Plan**
- Appendix B Boring Logs**
- Appendix C Laboratory Analytical Data Reports**
- Appendix D Summary of Findings**

APPENDIX A
Sampling Plan



November 17, 2014

Ms. Paula Pienton
T.Y. Lin International
Chicago, IL

Re: Red-Purple Modernization, Phase I Project
Chicago Transit Authority Red Line Belmont Station to Ardmore Avenue

Dear Ms. Pienton:

GSG Consultants, Inc. (GSG) is pleased to submit the attached soil sampling plan for the Red-Purple Modernization, Phase I Project (RPM PE). The proposed soil sample locations were selected based upon a review of the following information provided:

- Historic Sanborn Fire Insurance Maps (1894, 1905, 1920, 1937, 1950, 1975 and 1987);
- Hazardous Materials Technical Memorandum (CWC Transit Group, May 2012);
- Lawrence to Bryn Mawr Modernization Project Environmental Assessment (USDOT and CTA, October 2014);
- EDR Database Search, February 2012;
- EDR Database Search, June 2014; and
- Field Observations (October 29, 2014)

Attached is a table detailing our proposed sampling analysis plan. The proposed analysis will be used to determine the presence or absence of potentially impacted material in the areas where the CTA has identified proposed site improvements as part of the RPM PE project. Additionally, GSG has attached maps indicating the proposed boring locations.

Should you have any questions, please feel free to contact me at any time at 312-733-6262.

Sincerely,
GSG Consultants, Inc.

Scott Letzel, P.G.
Senior Project Manager

Attachment 1

Proposed Sampling Analysis Plan



	Soil Boring	Cross Street	Recognized Environmental Concern	Proposed Analytical Suite	Notes	Source of Information
South	RPM-SB-1	945 W. Belmont	CESQG (lead), UST	BTEX, RCRA metals	Under Red Line - track is elevated	2/13/12 EDR Report
	RPM-SB-2	3206 N. Wilton		PNAs, RCRA metals	Under Red Line - track is elevated	North Red and Purple Lines Vision Study maps
	RPM-SB-3	3232 N. Wilton		PNAs, RCRA metals	Under Red Line - track is elevated	North Red and Purple Lines Vision Study maps
	RPM-SB-4	939 W. School		PNAs, RCRA metals	Under Red Line - track is elevated	North Red and Purple Lines Vision Study maps
	RPM-SB-5	3346 N. Clark		PNAs, RCRA metals	Under Red Line - track is elevated	North Red and Purple Lines Vision Study maps
	RPM-SB-6	3335 N. Sheffield		PNAs, RCRA metals	Under Red Line - track is elevated	North Red and Purple Lines Vision Study maps
	RPM-SB-7	3360 N. Clark	Electrical substation	PNAs, RCRA metals, PCBs	Adjacent east - Line is elevated	North Red and Purple Lines Vision Study maps
	RPM-SB-8	947 W. Newport		PNAs, RCRA metals	Under Red Line - track is elevated	North Red and Purple Lines Vision Study maps
	RPM-SB-9	939 W. Cornelia		PNAs, RCRA metals	Under Red Line - track is elevated	North Red and Purple Lines Vision Study maps
	RPM-SB-10	3347 N. Sheffield		PNAs, RCRA metals	Under Brown Line - track is elevated	North Red and Purple Lines Vision Study maps
	RPM-SB-11	3400 N. Sheffield		PNAs, RCRA metals	Under Brown Line - track is elevated	North Red and Purple Lines Vision Study maps
	RPM-SB-12	1016 W. Roscoe		PNAs, RCRA metals	Under Brown Line - track is elevated	North Red and Purple Lines Vision Study maps
	RPM-SB-13	1040 W. Roscoe		PNAs, RCRA metals	Under Brown Line - track is elevated	North Red and Purple Lines Vision Study maps
	RPM-SB-14	3409 N. Seminary		PNAs, RCRA metals	Under Brown Line - track is elevated	North Red and Purple Lines Vision Study maps
	RPM-SB-15	4661 N. Broadway	2 USTs	BTEX, PNAs, RCRA metals	Viaduct boring (Leland Ave.), Adjacent east - Line is elevated	2/13/12 EDR Report
	RPM-SB-16	Lawrence Station south		PNAs, RCRA metals	On-track boring, south end of Lawrence Station; CTA flaggers required	North Red and Purple Lines Vision Study maps
	RPM-SB-17	1113 Lawrence		PNAs, RCRA metals	Viaduct boring	North Red and Purple Lines Vision Study maps
	RPM-SB-18	Lawrence Station north		PNAs, RCRA metals	On-track boring, north end of Lawrence Station; CTA flaggers required	North Red and Purple Lines Vision Study maps
	RPM-SB-19	Between Lawrence Station and Ainslie		PNAs, RCRA metals	On-track boring, north of Lawrence Station; CTA flaggers required	North Red and Purple Lines Vision Study maps
	RPM-SB-20	1113 Ainslie		PNAs, RCRA metals	Viaduct boring	North Red and Purple Lines Vision Study maps
	RPM-SB-21	Argyle Station south		PNAs, RCRA metals	On-track boring, south end of Argyle Station; CTA flaggers required	North Red and Purple Lines Vision Study maps
	RPM-SB-22	1113 Argyle		PNAs, RCRA metals	Viaduct boring	North Red and Purple Lines Vision Study maps
	RPM-SB-23	Argyle Station north		PNAs, RCRA metals	On-track boring, north end of Argyle Station; CTA flaggers required	North Red and Purple Lines Vision Study maps
	RPM-SB-24	1113 Winona	BOL, SQG, UST	VOCs, SVOCs, RCRA metals	Viaduct boring	7/7/14 EDR Report
	RPM-SB-25	1113 Foster	Auto repair, CESQG (lead)	BTEX, PNAs, RCRA metals	Viaduct boring	7/7/14 EDR Report
	RPM-SB-26	Berwyn Station south		PNAs, RCRA metals	On-track boring, south end of Berwyn Station; CTA flaggers required	North Red and Purple Lines Vision Study maps
	RPM-SB-27	1113 Berwyn	CESQG (lead), historic cleaners	VOCs, RCRA metals	Viaduct boring	7/7/14 EDR Report
	RPM-SB-28	Berwyn Station north		PNAs, RCRA metals	On-track boring, north end of Berwyn Station; CTA flaggers required	North Red and Purple Lines Vision Study maps
	RPM-SB-29	1113 Balmoral	Auto repair 1923 to present	BTEX, PNAs, RCRA metals	Viaduct boring	7/7/14 EDR Report
	RPM-SB-30	On track (approx. 5443 N. Broadway)		PNAs, RCRA metals	On-track boring; CTA flaggers required	North Red and Purple Lines Vision Study maps
	RPM-SB-31	1113 Catalpa	BOL, SQG, UST, auto repair	BTEX, PNAs, RCRA metals	Viaduct boring	7/7/14 EDR Report
	RPM-SB-32	Bryn Mawr Station south		PNAs, RCRA metals	On-track boring, south end of Bryn Mawr Station; CTA flaggers required	North Red and Purple Lines Vision Study maps
	RPM-SB-33	1113 Bryn Mawr		PNAs, RCRA metals	Viaduct boring	North Red and Purple Lines Vision Study maps
	RPM-SB-34	Bryn Mawr Station north		PNAs, RCRA metals	On-track boring, north end of Bryn Mawr Station; CTA flaggers required	North Red and Purple Lines Vision Study maps
	RPM-SB-35	1113 Hollywood		PNAs, RCRA metals	Viaduct boring	North Red and Purple Lines Vision Study maps
	RPM-SB-36	On track (approx. 5725 N. Broadway)		PNAs, RCRA metals	On-track boring; CTA flaggers required	North Red and Purple Lines Vision Study maps
North	RPM-SB-37	1113 Ardmore		PNAs, RCRA metals	Viaduct boring	North Red and Purple Lines Vision Study maps

Project limits (south to north): Belmont Avenue to Cornelia Avenue, Leland Avenue to Ardmore Avenue

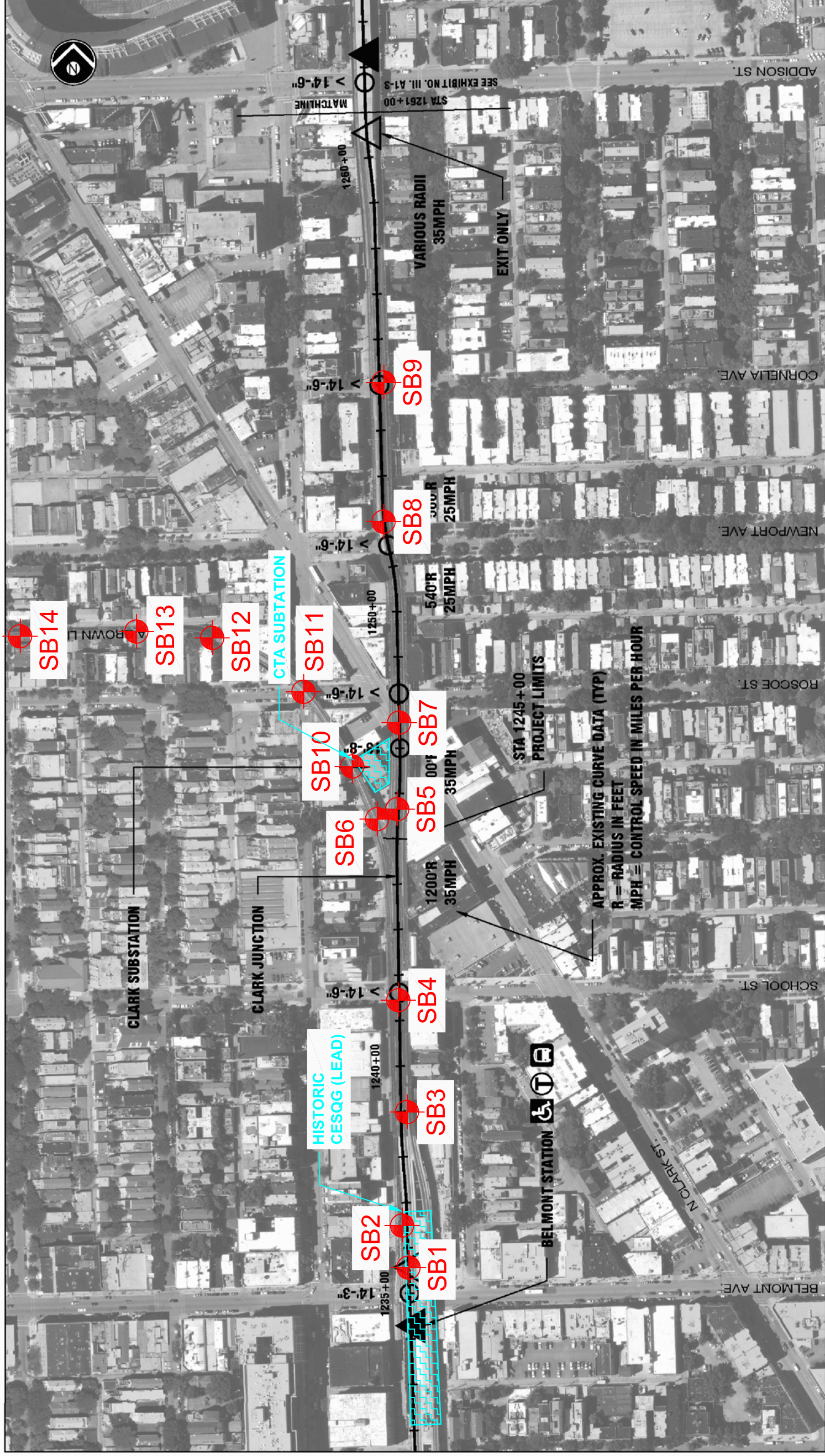
Recognized Environmental Conditions
SQG - Small Quantity Generator
LQG - Large Quantity Generator
CESQG - Conditionally Exempt Small Quantity Generator
UST - Underground Storage Tank
BOL - Illinois Bureau of Land site

Analysis
SVOCs - Semi-volatile Organic Compounds
PNAs - Polynuclear Aromatic Hydrocarbons
RCRA Metals - Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver
VOCs - Volatile Organic Compounds
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls

Attachment 2

Proposed Sampling Location Maps





LEGEND




-  Historic RECs
-  Proposed Viaduct Borings
-  Proposed Embankment Borings

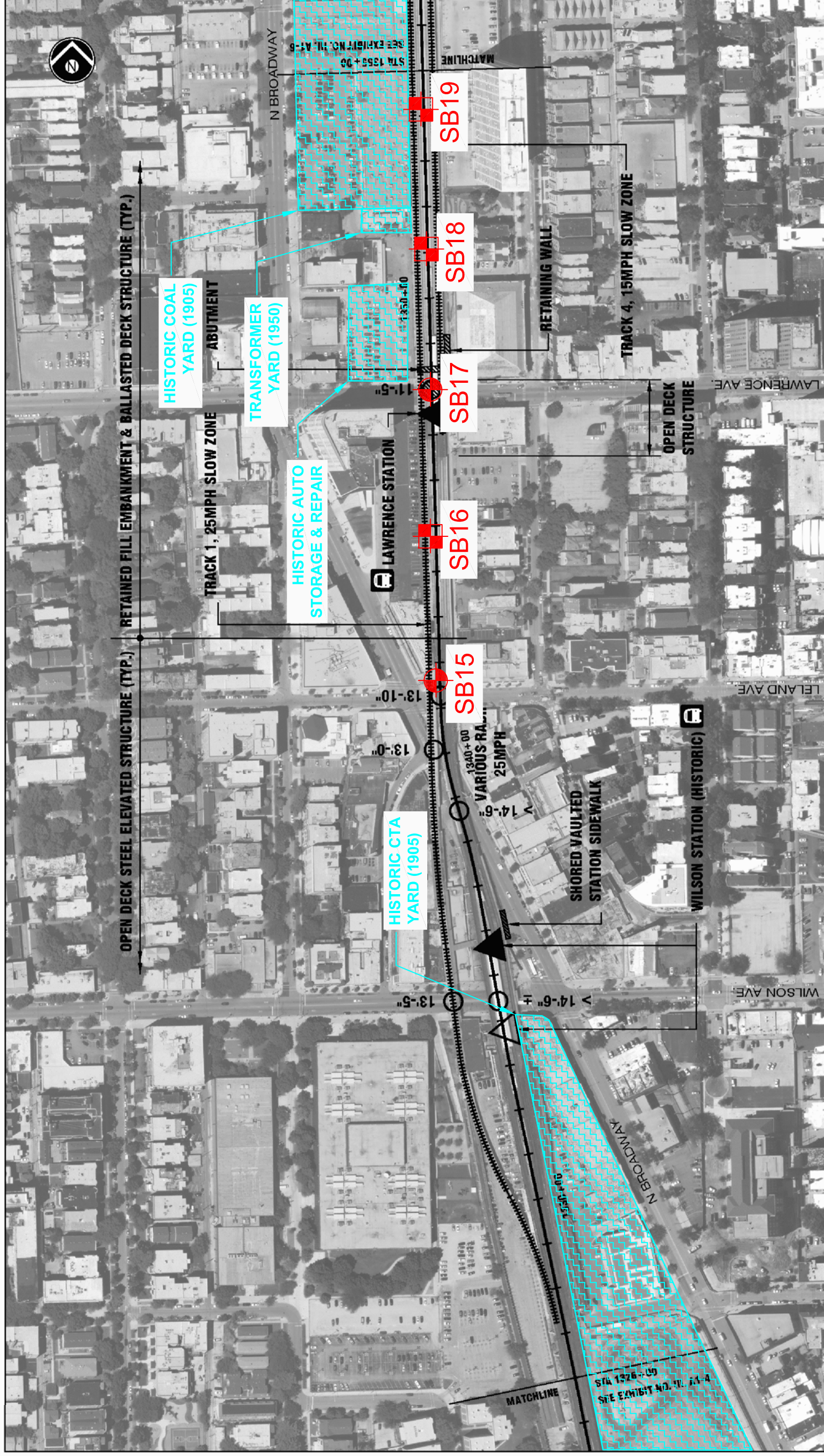
EXHIBIT 1A - BORING LOCATION MAP
 CTA RPM
 STA 1235+00 TO 1261+00
 CHICAGO, ILLINOIS

DRAWN BY:	IM
CHECKED BY:	SL
DATE:	11/17/2014




SCALE: NTS

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 FAX : (312) 733-5612





LEGEND

-  Historic RECs
-  Proposed Viaduct Borings
-  Proposed Embankment Borings



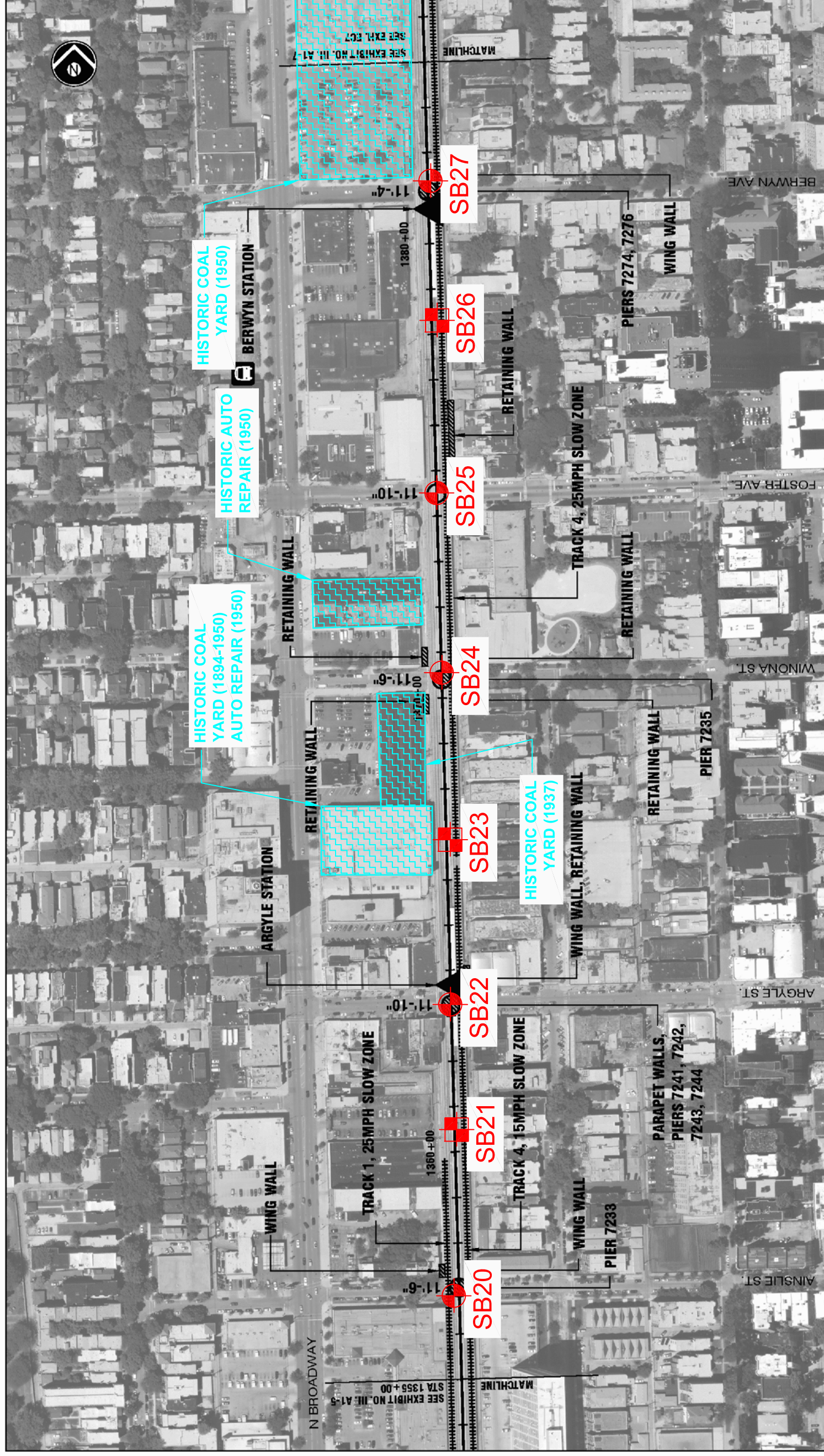
GSG CONSULTANTS, INC.

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 FAX : (312) 733-5612




SCALE:	NTS
DRAWN BY:	IM
CHECKED BY:	SL
DATE:	11/17/2014

EXHIBIT 1B - BORING LOCATION MAP

CTA RPM
 STA 1326+00 TO 1355+00
 CHICAGO, ILLINOIS



LEGEND

-  Historic RECs
-  Proposed Viaduct Borings
-  Proposed Embankment Borings



GSG CONSULTANTS, INC.

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 FAX : (312) 733-5612

SCALE:	NTS
DRAWN BY:	IM
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DATE:	11/17/2014

EXHIBIT 1C - BORING LOCATION MAP

CTA RPM
 STA 1355+00 TO 1384+00
 CHICAGO, ILLINOIS



LEGEND




-  Historic RECs
-  Proposed Viaduct Borings
-  Proposed Embankment Borings

EXHIBIT 1D - BORING LOCATION MAP
 CTA RPM
 STA 1384+00 TO 1413+00
 CHICAGO, ILLINOIS

DRAWN BY:	IM
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DATE:	11/17/2014




SCALE: NTS

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 855 W. ADAMS, SUITE 200
 CHICAGO, IL. 60607
 PHONE: (312) 733-6262
 FAX : (312) 733-5612





LEGEND

-  Historic RECs
-  Proposed Viaduct Borings
-  Proposed Embankment Borings



GSG CONSULTANTS, INC.

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 PHONE: (312) 733-6262
 FAX : (312) 733-5612

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EXHIBIT 1E - BORING LOCATION MAP
CTA RPM
STA 1413+00 TO 1442+00
CHICAGO, ILLINOIS

APPENDIX B

Boring Logs

Boring Logs



Existing soil conditions at viaduct locations



Existing soil conditions at on-track locations



GSG Consultants, Inc.
 855 West Adams, Suite 200
 Chicago, Illinois 60607
 Telephone: 312.733.6262
 Fax: 312.733.5612

BORING NUMBER RPM-SB-15

PAGE 1 OF 1

CLIENT TYLin International	PROJECT NAME CTA Red Purple Modernization
PROJECT NUMBER 14-1069	PROJECT LOCATION CTA Red Line
DATE STARTED 12/11/14 COMPLETED 12/11/14	GROUND ELEVATION _____ HOLE SIZE 2"
DRILLING CONTRACTOR GSG Drilling	GROUND WATER LEVELS:
DRILLING METHOD GeoProbe Dual-Tube sampling system	AT TIME OF DRILLING ---
LOGGED BY Ted Cagney CHECKED BY Scott Letzel	AT END OF DRILLING ---
NOTES 4661 N. Broadway; Lat: 41.967147 Long: 87.658233	AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0						
0.3					Concrete (4 inches thick)	
1.0					FILL: Gravel and sand	PID = 0
2.5		Sample RMP-SB-15-1 (1-3 feet) VOCs, PNAs, PP Metals, Pesticides, PCBs			FILL: Orange sand; fine to medium grained; slightly moist	PID = 0
5.0					FILL: Black silty sand; moist; cohesive; trace gravel	PID = 0
6.0					FILL: Orange sand; fine to medium grained; slightly moist	PID = 0
7.0					(SW) Brown SAND: Fine to coarse grained; slightly moist; trace gravel	PID = 0
7.5		Sample RMP-SB-15-2 (7-9 feet) TCL				PID = 0
10.0			SW			PID = 0
12.0						PID = 0

Bottom of borehole at 12.0 feet.

GENERAL BH / TP / WELL - GINT STD U.S.GDT - 2/19/15 15:26 - \GSGFS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM\FIELD SAMPLING DATA\DRILLING LOGS\CTA RED LINE - ALL SECTIONS.GPJ



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BORING NUMBER RPM-SB-16

CLIENT TYLin International	PROJECT NAME CTA Red Purple Modernization
PROJECT NUMBER 14-1069	PROJECT LOCATION CTA Red Line
DATE STARTED 1/20/15 COMPLETED 1/20/15	GROUND ELEVATION _____ HOLE SIZE 2"
DRILLING CONTRACTOR GSG Drilling	GROUND WATER LEVELS:
DRILLING METHOD GeoProbe Dual-Tube sampling system	AT TIME OF DRILLING ---
LOGGED BY Ted Cagney CHECKED BY Scott Letzel	AT END OF DRILLING ---
NOTES South Lawrence; Lat: 41.968433 Long: 87.658414	AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0					Ballast Stone	PID = 0
2.5		Sample RMP-SB-16-1 (1-3 feet) TCL		1.0	FILL: Brown to black sand; coarse grained; with cinders and gravel; moist	PID = 0
5.0		Sample RMP-SB-16-2 (5-7 feet) VOCs, PP Metals, Pesticides, PCBs				PID = 0
7.5						PID = 0
10.0						PID = 0
11.0				11.0	FILL: Dark Brown sand; coarse grained; with cinders, trace gravel and brick fragments; moist	PID = 0
12.5		Sample RMP-SB-16-3 (11-13 feet) PNAs, RCRA Metals, PCBs				PID = 0
15.0				15.0		PID = 0

Bottom of borehole at 15.0 feet.

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BORING NUMBER RPM-SB-17

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CLIENT TYLin International
PROJECT NUMBER 14-1069
DATE STARTED 12/11/14 **COMPLETED** 12/11/14
DRILLING CONTRACTOR GSG Drilling
DRILLING METHOD GeoProbe Dual-Tube sampling system
LOGGED BY Ted Cagney **CHECKED BY** Scott Letzel
NOTES 1113 W. Lawrence; Lat: 41.968386 Long: 87.658558

PROJECT NAME CTA Red Purple Modernization
PROJECT LOCATION CTA Red Line
GROUND ELEVATION _____ **HOLE SIZE** 2"
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0						
0.1					Asphalt (2 inches)	
0.5					FILL: White gravel and sand	
1.0					FILL: Black silty sand with gravel; slightly moist	PID = 0
2.5		Sample RMP-SB-17-1 (1-3 feet) PNAs, RCRA Metals			FILL: Orange sand; fine to medium grained; slightly moist	PID = 0
5.0						PID = 0
7.5		Sample RMP-SB-17-2 (7-9 feet) PNAs, RCRA Metals				PID = 0
7.0					(SW) Brown SAND: Fine to coarse grained; slightly moist; trace gravel	PID = 0
10.0			SW			PID = 0
12.0						PID = 0

Bottom of borehole at 12.0 feet.




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BORING NUMBER RPM-SB-18

CLIENT TYLin International	PROJECT NAME CTA Red Purple Modernization
PROJECT NUMBER 14-1069	PROJECT LOCATION CTA Red Line
DATE STARTED 1/20/15 COMPLETED 1/20/15	GROUND ELEVATION _____ HOLE SIZE 2"
DRILLING CONTRACTOR GSG Drilling	GROUND WATER LEVELS:
DRILLING METHOD GeoProbe Dual-Tube sampling system	AT TIME OF DRILLING ---
LOGGED BY Ted Cagney CHECKED BY Scott Letzel	AT END OF DRILLING ---
NOTES North Lawrence; Lat: 41.969858 Long: 87.658461	AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0					Ballast Stone	PID = 0
2.5		Sample RMP-SB-18-1 (1-3 feet) TCL			FILL: Black sand; coarse grained; with cinders and gravel; moist	PID = 0
7.5		Sample RMP-SB-18-2 (6-8 feet) VOCs, PP Metals, PCBs				PID = 0
11.0					FILL: Brown sand; fine to coarse grained; trace cinders and gravel; moist	PID = 0
15.0		Sample RMP-SB-18-3 (13-15 feet) PNAs, RCRA Metals, PCBs				PID = 0
Bottom of borehole at 15.0 feet.						

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BORING NUMBER RPM-SB-19

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CLIENT TYLin International	PROJECT NAME CTA Red Purple Modernization
PROJECT NUMBER 14-1069	PROJECT LOCATION CTA Red Line
DATE STARTED 1/20/15 COMPLETED 1/20/15	GROUND ELEVATION _____ HOLE SIZE 2"
DRILLING CONTRACTOR GSG Drilling	GROUND WATER LEVELS:
DRILLING METHOD GeoProbe Dual-Tube sampling system	AT TIME OF DRILLING ---
LOGGED BY Ted Cagney CHECKED BY Scott Letzel	AT END OF DRILLING ---
NOTES Lat: 41.97085 Long: 87.658472	AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0					Ballast Stone	PID = 0
1.0						
2.5		Sample RMP-SB-19-1 (1-3 feet) TCL			FILL: Black sand; coarse grained; trace gravel, brick fragments and cinders; moist	PID = 0
5.0						PID = 0
6.0						PID = 0
7.5		Sample RMP-SB-19-2 (6-8 feet) VOCs, PNAs, PP Metals, PCBs			FILL: Brown silty clay; with sand; trace gravel and cinders; moist	PID = 0
10.0						PID = 0
11.0						PID = 0
12.5		Sample RMP-SB-19-3 (12-14 feet) PNAs, RCRA Metals, PCBs			FILL: Dark Brown sand; coarse grained; trace cinders and gravel; moist	PID = 0
15.0						PID = 0
Bottom of borehole at 15.0 feet.						

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BORING NUMBER RPM-SB-20

CLIENT TYLin International
PROJECT NAME CTA Red Purple Modernization
PROJECT NUMBER 14-1069
PROJECT LOCATION CTA Red Line
DATE STARTED 12/11/14 **COMPLETED** 12/11/14
GROUND ELEVATION _____ **HOLE SIZE** 2"
DRILLING CONTRACTOR GSG Drilling
GROUND WATER LEVELS:
 ▽ **AT TIME OF DRILLING** 11.00 ft
 ▼ **AT END OF DRILLING** 11.00 ft
 ▼ **AFTER DRILLING** 11.00 ft
DRILLING METHOD GeoProbe Dual-Tube sampling system
LOGGED BY Ted Cagney **CHECKED BY** Scott Letzel
NOTES 1113 Ainslie; Lat: 41.971447 Long: 87.658628

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0						
0.3					Concrete (4 inches thick)	
1.0					FILL: Gravel and sand	PID = 0
2.5		Sample RMP-SB-20-1 (1-3 feet) PNAs, RCRA Metals			FILL: Orange sand; fine to medium grained; slightly moist	PID = 0
5.0						PID = 0
5.0					(SW) Brown SAND: Fine to coarse grained; moist; trace gravel	PID = 0
7.5			SW			PID = 0
10.0		Sample RMP-SB-20-2 (8-10 feet) PNAs, RCRA Metals				PID = 0
11.0					(SW) Gray SAND: Fine to medium grained; wet; trace gravel	PID = 0
12.0			SW			PID = 0

Bottom of borehole at 12.0 feet.

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BORING NUMBER RPM-SB-21

CLIENT TYLin International	PROJECT NAME CTA Red Purple Modernization
PROJECT NUMBER 14-1069	PROJECT LOCATION CTA Red Line
DATE STARTED 1/20/15 COMPLETED 1/20/15	GROUND ELEVATION _____ HOLE SIZE 2"
DRILLING CONTRACTOR GSG Drilling	GROUND WATER LEVELS:
DRILLING METHOD GeoProbe Dual-Tube sampling system	AT TIME OF DRILLING ---
LOGGED BY Ted Cagney CHECKED BY Scott Letzel	AT END OF DRILLING ---
NOTES South Argyle; Lat: 41.972433 Long: 87.658514	AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0					Ballast Stone	
1.0						PID = 0
2.5		Sample RMP-SB-21-1 (1-3 feet) TCL			FILL: Brown to black sand; coarse grained; with cinders and gravel; moist	PID = 0
5.0						PID = 0
6.0						PID = 0
7.5		Sample RMP-SB-21-2 (6-8 feet) VOCs, PNAs, PP Metals, PCBs			FILL: Dark Brown sand; coarse grained; trace gravel and cinders; moist	PID = 0
10.0						PID = 0
12.5						PID = 0
15.0		Sample RMP-SB-21-3 (13-15 feet) PNAs, RCRA Metals, PCBs				PID = 0

Bottom of borehole at 15.0 feet.

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BORING NUMBER RPM-SB-22

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CLIENT TYLin International
PROJECT NUMBER 14-1069
DATE STARTED 12/11/14 **COMPLETED** 12/11/14
DRILLING CONTRACTOR GSG Drilling
DRILLING METHOD GeoProbe Dual-Tube sampling system
LOGGED BY Ted Cagney **CHECKED BY** Scott Letzel
NOTES 1113 Argyle; Lat: 41.973189 Long: 87.658467

PROJECT NAME CTA Red Purple Modernization
PROJECT LOCATION CTA Red Line
GROUND ELEVATION _____ **HOLE SIZE** 2"
GROUND WATER LEVELS:
 ▽ **AT TIME OF DRILLING** 11.00 ft
 ▼ **AT END OF DRILLING** 11.00 ft
 ▼ **AFTER DRILLING** 11.00 ft

GENERAL BH / TP / WELL - GINT STD U.S. GDT - 2/19/15 15:26 - \GSGFS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM\FIELD SAMPLING DATA\DRILLING LOGS\CTA RED LINE - ALL SECTIONS.GPJ





DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0						
0.3					Concrete (4 inches thick)	
2.5		Sample RMP-SB-22-1 (1-3 feet) PNAs, RCRA Metals			FILL: Dark brown sand; fine to medium grained; trace gravel	PID = 0
4.0					(SP) Light brown SAND: Fine to medium grained; slightly moist	PID = 0
5.0			SP			PID = 0
7.5		Sample RMP-SB-22-2 (6-8 feet) PNAs, RCRA Metals				PID = 0
8.0					(SW) Brown SAND: Fine to coarse grained; with gravel; moist	PID = 0
10.0			SW			PID = 0
11.0					Wet at 11 feet	PID = 0
12.0					Bottom of borehole at 12.0 feet.	PID = 0



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BORING NUMBER RPM-SB-23

CLIENT TYLin International	PROJECT NAME CTA Red Purple Modernization
PROJECT NUMBER 14-1069	PROJECT LOCATION CTA Red Line
DATE STARTED 1/20/15 COMPLETED 1/20/15	GROUND ELEVATION _____ HOLE SIZE 2"
DRILLING CONTRACTOR GSG Drilling	GROUND WATER LEVELS:
DRILLING METHOD GeoProbe Dual-Tube sampling system	AT TIME OF DRILLING ---
LOGGED BY Ted Cagney CHECKED BY Scott Letzel	AT END OF DRILLING ---
NOTES North Argyle; Lat: 41.974222 Long: 87.658572	AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0					Ballast Stone	PID = 0
2.5		Sample RMP-SB-23-1 (1-3 feet) TCL			FILL: Brown to black sand; coarse grained; trace gravel, brick fragments and cinders; moist	PID = 0
5.0						PID = 0
7.5		Sample RMP-SB-23-2 (6-8 feet) TCL			FILL: Brown silty clay; with sand, trace gravel and cinders; moist	PID = 0
10.0						PID = 0
12.5		Sample RMP-SB-23-3 (12-14 feet) PNAs, RCRA Metals, PCBs			FILL: Dark Brown sand; coarse grained; trace gravel; moist	PID = 0
15.0						PID = 0
Bottom of borehole at 15.0 feet.						

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BORING NUMBER RPM-SB-24

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CLIENT TYLin International
PROJECT NUMBER 14-1069
DATE STARTED 12/11/14 **COMPLETED** 12/11/14
DRILLING CONTRACTOR GSG Drilling
DRILLING METHOD GeoProbe Dual-Tube sampling system
LOGGED BY Ted Cagney **CHECKED BY** Scott Letzel
NOTES 1113 Winona; Lat: 41.975294 Long: 87.65875

PROJECT NAME CTA Red Purple Modernization
PROJECT LOCATION CTA Red Line
GROUND ELEVATION _____ **HOLE SIZE** 2"
GROUND WATER LEVELS:
 ▽ **AT TIME OF DRILLING** 10.00 ft
 ▼ **AT END OF DRILLING** 10.00 ft
 ▼ **AFTER DRILLING** 10.00 ft

GENERAL BH / TP / WELL - GINT STD U.S. GDT - 2/19/15 15:26 - \GSGF02\PROJECTS - ENGINEERING\TYLIN\CTA RPM\FIELD SAMPLING DATA\DRILLING LOGS\CTA RED LINE - ALL SECTIONS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0						
0.3				Concrete (4 inches thick)	Concrete (4 inches thick)	
2.5		Sample RMP-SB-24-1 (1-3 feet) PNAs, RCRA Metals		FILL: Dark brown sand; fine to medium grained; moist; trace gravel	FILL: Dark brown sand; fine to medium grained; moist; trace gravel	PID = 0
5.0						PID = 0
7.5		Sample RMP-SB-24-2 (7-9 feet) PNAs, RCRA Metals		(SW) Brown SAND: Fine to coarse grained; trace gravel; moist	(SW) Brown SAND: Fine to coarse grained; trace gravel; moist	PID = 0
10.0			SW	Wet at 10 feet		PID = 0
12.0						PID = 0

Bottom of borehole at 12.0 feet.



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BORING NUMBER RPM-SB-25

CLIENT TYLin International
PROJECT NUMBER 14-1069
DATE STARTED 12/11/14 **COMPLETED** 12/11/14
DRILLING CONTRACTOR GSG Drilling
DRILLING METHOD GeoProbe Dual-Tube sampling system
LOGGED BY Ted Cagney **CHECKED BY** Scott Letzel
NOTES 1113 Foster; Lat: 41.976244 Long: 87.658761

PROJECT NAME CTA Red Purple Modernization
PROJECT LOCATION CTA Red Line
GROUND ELEVATION _____ **HOLE SIZE** 2"
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0						
0.1					Asphalt (2 inches)	
0.5					FILL: Gravel and sand	
					FILL: Orange sand; fine to medium grained; slightly moist	PID = 0
2.5		Sample RMP-SB-25-1 (1-3 feet) PNAs, RCRA Metals				PID = 0
						PID = 0
4.0					(SW) Brown SAND: Fine to coarse grained; trace gravel; moist	PID = 0
5.0						PID = 0
						PID = 0
7.5						PID = 0
			SW			PID = 0
10.0		Sample RMP-SB-25-2 (8-10 feet) PNAs, RCRA Metals				PID = 0
						PID = 0
12.0						PID = 0

Bottom of borehole at 12.0 feet.

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BORING NUMBER RPM-SB-26

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CLIENT TYLin International	PROJECT NAME CTA Red Purple Modernization
PROJECT NUMBER 14-1069	PROJECT LOCATION CTA Red Line
DATE STARTED 1/22/15 COMPLETED 1/22/15	GROUND ELEVATION _____ HOLE SIZE 2"
DRILLING CONTRACTOR GSG Drilling	GROUND WATER LEVELS:
DRILLING METHOD GeoProbe Dual-Tube sampling system	AT TIME OF DRILLING ---
LOGGED BY Ted Cagney CHECKED BY Scott Letzel	AT END OF DRILLING ---
NOTES South Berwyn; Lat: 41.977222 Long: 87.658656	AFTER DRILLING ---

GENERAL BH / TP / WELL - GINT STD U.S. GDT - 2/19/15 15:26 - \GSGFS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM\FIELD SAMPLING DATA\DRILLING LOGS\CTA RED LINE - ALL SECTIONS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0						
0.5					Ballast Stone	
2.5		Sample RMP-SB-26-1 (1-3 feet) TCL			FILL: Brown to Black sand; coarse grained; trace gravel, brick fragments and cinders; moist	PID = 0
5.0						PID = 0
7.5		Sample RMP-SB-26-2 (7-9 feet) VOCs, PNAs, RCRA Metals, PCBs			FILL: Brown silty clay; with sand; trace gravel and cinders; moist	PID = 0
10.0						PID = 0
12.5		Sample RMP-SB-26-3 (12-14 feet) PNAs, RCRA Metals			FILL: Dark Brown sand; coarse grained; trace cinders and gravel; moist	PID = 0
15.0						PID = 0

Bottom of borehole at 15.0 feet.



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BORING NUMBER RPM-SB-27

CLIENT TYLin International
PROJECT NAME CTA Red Purple Modernization
PROJECT NUMBER 14-1069
PROJECT LOCATION CTA Red Line
DATE STARTED 12/12/14 **COMPLETED** 12/12/14
GROUND ELEVATION _____ **HOLE SIZE** 2"
DRILLING CONTRACTOR GSG Drilling
GROUND WATER LEVELS:
 ▽ **AT TIME OF DRILLING** 8.00 ft
 ▼ **AT END OF DRILLING** 8.00 ft
 ▼ **AFTER DRILLING** 8.00 ft
DRILLING METHOD GeoProbe Dual-Tube sampling system
LOGGED BY Ted Cagney **CHECKED BY** Scott Letzel
NOTES 1113 Berwyn; Lat: 41.978269 Long: 87.658842

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0						
0.3					Concrete (4 inches thick)	
0.3					FILL: Black silty clay; with gravel and concrete	PID = 0
2.5		Sample RMP-SB-27-1 (1-3 feet) PNAs, PP Metals, Pesticides				PID = 0
4.0					(SW) Brown SAND: Fine to coarse grained; trace gravel; moist	PID = 0
5.0						PID = 0
7.5		Sample RMP-SB-27-2 (6-8 feet) TCL				PID = 0
8.0			SW		▼ Wet at 8 feet	PID = 0
10.0						PID = 0
12.0						PID = 0

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Bottom of borehole at 12.0 feet.



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BORING NUMBER RPM-SB-28

CLIENT TYLin International	PROJECT NAME CTA Red Purple Modernization
PROJECT NUMBER 14-1069	PROJECT LOCATION CTA Red Line
DATE STARTED 1/22/15 COMPLETED 1/22/15	GROUND ELEVATION _____ HOLE SIZE 2"
DRILLING CONTRACTOR GSG Drilling	GROUND WATER LEVELS:
DRILLING METHOD GeoProbe Dual-Tube sampling system	AT TIME OF DRILLING ---
LOGGED BY Ted Cagney CHECKED BY Scott Letzel	AT END OF DRILLING ---
NOTES North Berwyn; Lat: 41.978619 Long: 87.658689	AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0					Ballast Stone	
1.0						PID = 0
2.5		Sample RMP-SB-28-1 (1-3 feet) TCL			FILL: Black sand; coarse grained; trace gravel and cinders; moist	PID = 0
5.0						PID = 0
7.5		Sample RMP-SB-28-2 (6-8 feet) VOCs, PNAs, RCRA Metals, PCBs			FILL: Brown silty clay; with sand; trace gravel and cinders; moist	PID = 0
10.0						PID = 0
12.5					FILL: Dark Brown sand; coarse grained; trace gravel; moist	PID = 0
15.0		Sample RMP-SB-28-3 (13-15 feet) PNAs, RCRA Metals				PID = 0
Bottom of borehole at 15.0 feet.						

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BORING NUMBER RPM-SB-29

CLIENT TYLin International	PROJECT NAME CTA Red Purple Modernization
PROJECT NUMBER 14-1069	PROJECT LOCATION CTA Red Line
DATE STARTED 12/12/14 COMPLETED 12/12/14	GROUND ELEVATION _____ HOLE SIZE 2"
DRILLING CONTRACTOR GSG Drilling	GROUND WATER LEVELS:
DRILLING METHOD GeoProbe Dual-Tube sampling system	AT TIME OF DRILLING ---
LOGGED BY Ted Cagney CHECKED BY Scott Letzel	AT END OF DRILLING ---
NOTES 1113 Balmoral; Lat: 41.979892 Long: 87.658883	AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0						
0.1				Asphalt (2 inches)		
2.5		Sample RMP-SB-29-1 (1-3 feet) PNAs, RCRA Metals, Pesticides		FILL: Black silty clay; with gravel and concrete; slightly moist		PID = 0
4.0				FILL: Black sand; fine to coarse grained; some gravel; slightly moist		PID = 0
5.0				(SW) Brown SAND (SW): Fine to coarse grained; trace gravel; moist		PID = 0
7.5		Sample RMP-SB-29-2 (7-9 feet) TCL	SW			PID = 0
10.0						PID = 0
12.0						PID = 0

Bottom of borehole at 12.0 feet.

GENERAL BH / TP / WELL - GINT STD U.S. GDT - 2/19/15 15:26 - \GSGFS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM\FIELD SAMPLING DATA\DRILLING LOGS\CTA RED LINE - ALL SECTIONS.GPJ



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 Chicago, Illinois 60607
 Telephone: 312.733.6262
 Fax: 312.733.5612

BORING NUMBER RPM-SB-30

PAGE 1 OF 1

CLIENT TYLin International	PROJECT NAME CTA Red Purple Modernization
PROJECT NUMBER 14-1069	PROJECT LOCATION CTA Red Line
DATE STARTED 1/22/15 COMPLETED 1/22/15	GROUND ELEVATION _____ HOLE SIZE 2"
DRILLING CONTRACTOR GSG Drilling	GROUND WATER LEVELS:
DRILLING METHOD GeoProbe Dual-Tube sampling system	AT TIME OF DRILLING ---
LOGGED BY Ted Cagney CHECKED BY Scott Letzel	AT END OF DRILLING ---
NOTES 5443 N. Broadway; Lat: 41.980853 Long: 87.658747	AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0					Ballast Stone	PID = 0
1.0						PID = 0
2.5		Sample RMP-SB-30-1 (1-3 feet) TCL			FILL: Dark brown sand; coarse grained; trace brick fragments and cinders; moist	PID = 0
5.0						PID = 0
6.0		Sample RMP-SB-30-2 (6-8 feet) PNAs, RCRA Metals, PCBs			FILL: Brown silty clay; with sand, trace gravel; moist	PID = 0
7.5						PID = 0
10.0						PID = 0
11.0		Sample RMP-SB-30-3 (11-13 feet) PNAs, RCRA Metals			FILL: Dark Brown sand; coarse grained; trace gravel; moist	PID = 0
12.5						PID = 0
15.0						PID = 0
Bottom of borehole at 15.0 feet.						

GENERAL BH / TP / WELL - GINT STD U.S. GDT - 2/19/15 15:26 - \GSGFS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM\FIELD SAMPLING DATA\DRILLING LOGS\CTA RED LINE - ALL SECTIONS.GPJ



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BORING NUMBER RPM-SB-31

CLIENT TYLin International
PROJECT NUMBER 14-1069
DATE STARTED 12/12/14 **COMPLETED** 12/12/14
DRILLING CONTRACTOR GSG Drilling
DRILLING METHOD GeoProbe Dual-Tube sampling system
LOGGED BY Ted Cagney **CHECKED BY** Scott Letzel
NOTES 1113 Catalpa; Lat: 41.981725 Long: 87.658972

PROJECT NAME CTA Red Purple Modernization
PROJECT LOCATION CTA Red Line
GROUND ELEVATION _____ **HOLE SIZE** 2"
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

GENERAL BH / TP / WELL - GINT STD U.S. GDT - 2/19/15 15:26 - \GSGFS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM\FIELD SAMPLING DATA\DRILLING LOGS\CTA RED LINE - ALL SECTIONS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0						
0.3				Concrete (4 inches thick)		
0.3				FILL: Dark brown sand; fine grained; with gravel and cinders; slightly moist		PID = 0
2.5		Sample RMP-SB-31-1 (1-3 feet) PNAs, PP Metals				PID = 0
5.0						PID = 0
5.0			SW	(SW) Brown SAND: Fine to coarse grained; trace gravel; slightly moist		PID = 0
7.5						PID = 0
8.0						PID = 0
8.0				(SW) Gray SAND: Fine to medium grained; trace gravel; moist; petroleum odor		PID = 23.6
10.0		Sample RMP-SB-31-2 (8-10 feet) TCL	SW			PID = 39.4
10.0						PID = 20.1
12.0						PID = 8.7
Bottom of borehole at 12.0 feet.						



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BORING NUMBER RPM-SB-32

CLIENT TYLin International	PROJECT NAME CTA Red Purple Modernization
PROJECT NUMBER 14-1069	PROJECT LOCATION CTA Red Line
DATE STARTED 1/22/15 COMPLETED 1/22/15	GROUND ELEVATION _____ HOLE SIZE 2"
DRILLING CONTRACTOR GSG Drilling	GROUND WATER LEVELS:
DRILLING METHOD GeoProbe Dual-Tube sampling system	AT TIME OF DRILLING ---
LOGGED BY Ted Cagney CHECKED BY Scott Letzel	AT END OF DRILLING ---
NOTES South Bryn Mawr; Lat: 41.982808 Long: 87.658789	AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0					Ballast Stone	PID = 0
1.0						PID = 0
2.5		Sample RMP-SB-32-1 (1-3 feet) TCL			FILL: Brown sand; coarse grained; trace brick fragments, cinders and gravel; moist	PID = 0
5.0						PID = 0
6.5					FILL: Brown silty clay; with sand; trace gravel; moist	PID = 0
7.5		Sample RMP-SB-32-2 (7-9 feet) VOCs, PP Metals				PID = 0
10.0						PID = 0
12.5						PID = 0
13.0					FILL: Dark Brown sand; coarse grained; with cinders; trace gravel; moist	PID = 0
15.0		Sample RMP-SB-32-3 (13-15 feet) PNAs, RCRA Metals, PCBs				PID = 0
Bottom of borehole at 15.0 feet.						

GENERAL BH / TP / WELL - GINT STD U.S. GDT - 2/19/15 15:26 - \GSGFS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM\FIELD SAMPLING DATA\DRILLING LOGS\CTA RED LINE - ALL SECTIONS.GPJ



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BORING NUMBER RPM-SB-33

PAGE 1 OF 1

CLIENT TYLin International **PROJECT NAME** CTA Red Purple Modernization
PROJECT NUMBER 14-1069 **PROJECT LOCATION** CTA Red Line
DATE STARTED 12/12/14 **COMPLETED** 12/12/14 **GROUND ELEVATION** _____ **HOLE SIZE** 2"
DRILLING CONTRACTOR GSG Drilling **GROUND WATER LEVELS:**
DRILLING METHOD GeoProbe Dual-Tube sampling system **AT TIME OF DRILLING** ---
LOGGED BY Ted Cagney **CHECKED BY** Scott Letzel **AT END OF DRILLING** ---
NOTES 1113 Bryn Mawr; Lat: 41.983739 Long: 87.65885 **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0					Concrete (8 inches thick)	
0.7					FILL: Black silty clay; with gravel and cinders; moist	PID = 0
2.5		Sample RMP-SB-33-1 (1-3 feet) PNAs, RCRA Metals				PID = 0
5.0					(SW) Brown SAND: Fine to coarse grained; trace gravel; moist	PID = 0
7.5		Sample RMP-SB-33-2 (7-9 feet) PNAs, RCRA Metals	SW			PID = 0
10.0						PID = 0
12.0						PID = 0

GENERAL BH / TP / WELL - GINT STD U.S. GDT - 2/19/15 15:26 - \GSGFS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM\FIELD SAMPLING DATA\DRILLING LOGS\CTA RED LINE - ALL SECTIONS.GPJ

Bottom of borehole at 12.0 feet.



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BORING NUMBER RPM-SB-34

CLIENT TYLin International	PROJECT NAME CTA Red Purple Modernization
PROJECT NUMBER 14-1069	PROJECT LOCATION CTA Red Line
DATE STARTED 1/22/15 COMPLETED 1/22/15	GROUND ELEVATION _____ HOLE SIZE 2"
DRILLING CONTRACTOR GSG Drilling	GROUND WATER LEVELS:
DRILLING METHOD GeoProbe Dual-Tube sampling system	AT TIME OF DRILLING ---
LOGGED BY Ted Cagney CHECKED BY Scott Letzel	AT END OF DRILLING ---
NOTES North Bryn Mawr; Lat: 41.984519 Long: 87.65855	AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0					Ballast Stone	PID = 0
1.0						PID = 0
2.5		Sample RMP-SB-34-1 (1-3 feet) TCL			FILL: Black sand; coarse grained; with cinders and gravel; moist	PID = 0
5.0						PID = 0
7.5		Sample RMP-SB-34-2 (6-8 feet) VOCs, PP Metals, PCBs			FILL: Brown silty clay; with sand; trace gravel and cinders; moist	PID = 0
10.0						PID = 0
12.5						PID = 0
13.0						PID = 0
15.0		Sample RMP-SB-34-3 (13-15 feet) PNAs, RCRA Metals			FILL: Dark Brown sand; coarse grained; trace gravel and brick fragments; moist	PID = 0
Bottom of borehole at 15.0 feet.						

GENERAL BH / TP / WELL - GINT STD U.S. GDT - 2/19/15 15:26 - \GSGFS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM\FIELD SAMPLING DATA\DRILLING LOGS\CTA RED LINE - ALL SECTIONS.GPJ



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BORING NUMBER RPM-SB-35

PAGE 1 OF 1

CLIENT TYLin International
PROJECT NUMBER 14-1069
DATE STARTED 12/12/14 **COMPLETED** 12/12/14
DRILLING CONTRACTOR GSG Drilling
DRILLING METHOD GeoProbe Dual-Tube sampling system
LOGGED BY Ted Cagney **CHECKED BY** Scott Letzel
NOTES 1113 Hollywood; Lat: 41.985378 Long: 87.658781

PROJECT NAME CTA Red Purple Modernization
PROJECT LOCATION CTA Red Line
GROUND ELEVATION _____ **HOLE SIZE** 2"
GROUND WATER LEVELS:
 ▽ **AT TIME OF DRILLING** 11.00 ft
 ▼ **AT END OF DRILLING** 11.00 ft
 ▼ **AFTER DRILLING** 11.00 ft

GENERAL BH / TP / WELL - GINT STD U.S. GDT - 2/19/15 15:26 - \GSGFS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM\FIELD SAMPLING DATA\DRILLING LOGS\CTA RED LINE - ALL SECTIONS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0						
0.1				Asphalt	Asphalt	
0.9				Concrete (8 inches thick)	Concrete (8 inches thick)	PID = 0
2.5	Sample RMP-SB-35-1 (1-3 feet) PNAs, RCRA Metals			FILL: Black silty clay; with gravel and cinders; moist	FILL: Black silty clay; with gravel and cinders; moist	PID = 0
5.0				(SW) Brown SAND: Fine to coarse grained; trace gravel; moist	(SW) Brown SAND: Fine to coarse grained; trace gravel; moist	PID = 0
7.5	Sample RMP-SB-35-2 (6-8 feet) TCL		SW			PID = 0
10.0						PID = 0
11.0						PID = 0
11.0					(SW) Gray SAND: Fine to medium grained; trace gravel; wet	
12.0			SW			PID = 0

Bottom of borehole at 12.0 feet.



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BORING NUMBER RPM-SB-36

PAGE 1 OF 1

CLIENT TYLin International	PROJECT NAME CTA Red Purple Modernization
PROJECT NUMBER 14-1069	PROJECT LOCATION CTA Red Line
DATE STARTED 1/22/15 COMPLETED 1/22/15	GROUND ELEVATION _____ HOLE SIZE 2"
DRILLING CONTRACTOR GSG Drilling	GROUND WATER LEVELS:
DRILLING METHOD GeoProbe Dual-Tube sampling system	AT TIME OF DRILLING ---
LOGGED BY Ted Cagney CHECKED BY Scott Letzel	AT END OF DRILLING ---
NOTES 5725 N. Broadway; Lat: 41.986264 Long: 87.658894	AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0					Ballast Stone	
1.0						PID = 0
2.5		Sample RMP-SB-36-1 (1-3 feet) TCL			FILL: Black sand; coarse grained; with cinders and gravel; moist	PID = 0
5.0						PID = 0
7.5		Sample RMP-SB-36-2 (6-8 feet) PNAs, PP Metals, PCBs			FILL: Brown silty clay; with sand, trace gravel; moist	PID = 0
10.0						PID = 0
12.5					FILL: Dark Brown sand; coarse grained; trace gravel; moist	PID = 0
15.0		Sample RMP-SB-36-3 (13-15 feet) PNAs, RCRA Metals				PID = 0
Bottom of borehole at 15.0 feet.						

GENERAL BH / TP / WELL - GINT STD U.S. GDT - 2/19/15 15:26 - \GSGFS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM\FIELD SAMPLING DATA\DRILLING LOGS\CTA RED LINE - ALL SECTIONS.GPJ



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BORING NUMBER RPM-SB-37

CLIENT TYLin International
PROJECT NUMBER 14-1069
DATE STARTED 12/12/14 **COMPLETED** 12/12/14
DRILLING CONTRACTOR GSG Drilling
DRILLING METHOD GeoProbe Dual-Tube sampling system
LOGGED BY Ted Cagney **CHECKED BY** Scott Letzel
NOTES 1113 Ardmore; Lat: 41.987217 Long: 87.658822

PROJECT NAME CTA Red Purple Modernization
PROJECT LOCATION CTA Red Line
GROUND ELEVATION _____ **HOLE SIZE** 2"
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

GENERAL BH / TP / WELL - GINT STD U.S. GDT - 2/19/15 15:26 - \GSGFS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM\FIELD SAMPLING DATA\DRILLING LOGS\CTA RED LINE - ALL SECTIONS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	Environmental Data
0.0						
0.3					Concrete (4 inches thick)	
2.5		Sample RMP-SB-37-1 (1-3 feet) PNAs, PP Metals			FILL: Black silty clay; with gravel and cinders; moist	PID = 0
5.0					(SP) Brown SAND (SP): Fine to coarse grained; slightly moist; loose; trace gravel	PID = 0
7.5		Sample RMP-SB-37-2 (6-8 feet) PNAs, RCRA Metals	SP			PID = 0
10.0						PID = 0
12.0						PID = 0

Bottom of borehole at 12.0 feet.

Particle Size Analysis and Grain Size Analysis



GSG MATERIAL TESTING, INC.

CONSTRUCTION INSPECTION SERVICES

Report of Sieve Analysis

Fine Than No. 200 sieve by washing: T 11 / C117

Client: GSG Consultants **Contractor:** _____
Project: CTA RPM (Embankment) **Project No.:** _____
Location: _____
Material: Dark sand, gravel & cinders **Source:** S-1 @ 0'-5'
Submitted By: _____ **Weight before wash:** 156.8 grams
Natural Moisture Content: _____ **Weight after wash:** 140.2 grams

Sieve Size or #	Individual Weight Retained Grams	Cumulative Weight Retained Grams	% Retained	% Passing	Specification
2"					
1 1/2"					
1"					
3/4"	0	0	0	100	
1/2"	25.1	25.1	16	84	
3/8"	3.8	28.9	18	82	
# 4	13.3	42.2	27	73	
# 8	11.9	54.1	35	65	
# 10	2.9	57	36	64	
# 16	8.1	65.1	42	58	
# 30		65.1	42	58	
# 40	14.7	79.8	51	49	
# 50	12.2	92	59	41	
# 100	38.3	130.3	83	17	
# 200	7.8	138.1	88	11.9	
PAN	2	140.1			

Comments: Percent passing # 200 sieve: 11.9 %

Tested By: Ilvar Varquez **Date Sampled:** _____

Checked By: _____ **Date Tested:** 2/26/2015

Particle Size Analysis; Sieve/Hydrometer

Date: _____ Report No: _____ Computer File No.: _____
 Proj. No.: _____ Project Name: CTA RPM
 Client: GSG Consultants, Inc.
 Boring: S Sample: 2 Depth, ft.: 5'-10' Balance No. used: _____
 Desc: _____

SIEVE; COARSE (+ #10)

	DESCRIPTION + #10:	Sieve	Cummul. Wt.	Total wt.	% Finer of
		Size	Retained+tare	passing	Total Sample
Wt. of air dry soil & tare, g:	183.40	1 1/2"	0.00	183.40	100.0
Wt. of dry/washed + #10 & tare, g:	25.10	1"	0.00	183.40	100.0
Weight of air dry - #10, g (A-B):	158.30	3/4"	10.30	173.10	94.4
Wt. of tare for sieve of + #10, g:	0.00	1/2"	14.00	169.40	92.4
Composite Correction Factor:		3/8"	16.70	166.70	90.9
Composite Correction @ 68F(20C)		#4	19.60	163.80	89.3
Hygro. MC wet wt. & tare, g	62.10	#8	24.20	159.20	86.8
Hygro. MC dry wt. & tare, g	62.00	#10	25.10		86.3

SIEVE; (- #10)

Wt. of tare for sieve of + #10, g:	0.00	Tare No.	1.00	#16	1.30	51.74	84.2
Composite Correction Factor:				#40	8.80	44.24	72.0
Composite Correction @ 68F(20C)				#50	21.50	31.54	51.3
Hygro. MC wet wt. & tare, g	62.10			#100	48.10	4.94	8.0
Hygro. MC dry wt. & tare, g	62.00			#200	48.80	4.24	6.9
Hygroscopic MC tare wt., g	28.50	Tare No.	1.00				
Hygroscopic correction factor:	0.997	Calc. + #10	8.41027				
Wt. - #10 used in hydrometer, g:	53.20						
Wt. of tare for sieve of - #10, g:	0.00	Tare No.	1.00				
Oven dry wt. - #10 in hydro., g:	53.04						
Weight "W", g:	61.45						

[Values for L, K, and (a) are from AASHTO T 88 tables]

Hydrometer No.: _____ **HYDROMETER - #10** Graduate No.: _____

Reading Time	Elapse Time	Hydro. Reading	Temp., F Suspension	Composite Correction	Corr. Hydr. Reading	L, mm	K	Diam. Soil Part., mm	% Finer of Total Sample
	0								
	2	9.0	70.0	5.5	3.5	157.0	0.00420	0.0372	5.6
	5	8.0	70.0	5.5	2.5	159.0	0.00420	0.0237	4.0
	15	8.0	70.0	5.5	2.5	159.0	0.00420	0.0137	4.0
	30	7.0	70.0	5.5	1.5	160.5	0.00420	0.0097	2.4
	60	7.0	70.0	5.5	1.5	160.5	0.00420	0.0069	2.4
	250	6.0	69.0	5.8	0.3	162.0	0.00420	0.0034	0.4
	1440	6.0	69.0	5.8	0.3	162.0	0.00420	0.0014	0.4

Specific Gravity of Solids: _____ (use 2.70 if not determined) Sp. Gravity Correction Factor (a): 0.99

Sample Condition (organic, contaminated, other unusual observation): _____

Date Tested: 2/25/2015 Technician: Tony



GSG Consultants, Inc.

2945 W. Harrison Street
Chicago, Illinois 60612
Phone: 312-666-2989 Fax: 312-666-2952

ASTHO T 88
Particle Size Analysis

Project No. _____ Lab No. _____ Report No. _____

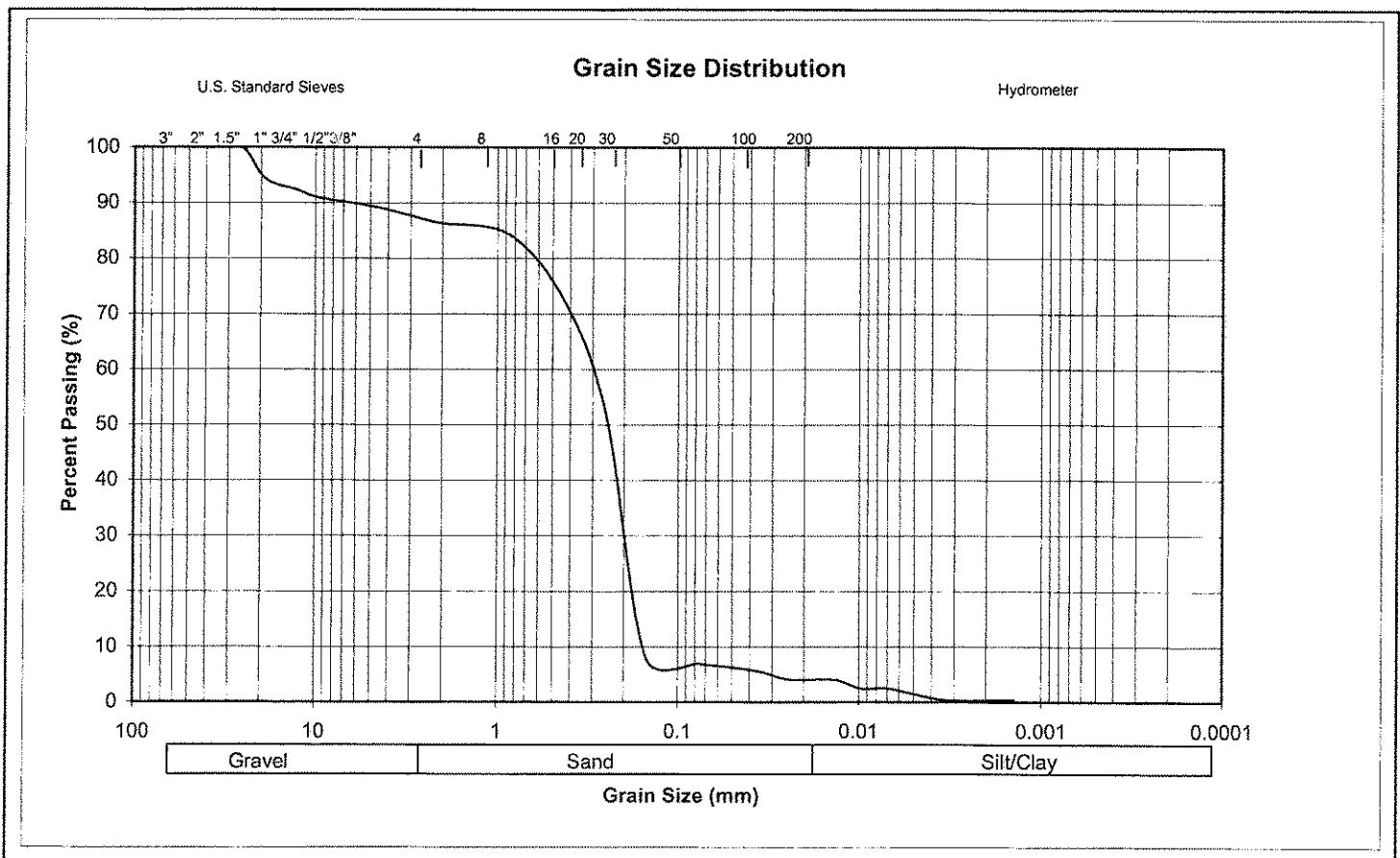
Project: CTA RPM

Tested for: GSG Consultants, Inc.

Date Received _____ Date Tested 2/25/2015

Sample Obtained from: S @ 5'-10'

Sample Description: _____



$D_{10} = 0.16$ mm Coefficient of Uniformity, $C_u = D_{60} / D_{10} = 1.88$

$D_{30} = 0.2$ mm Coefficient of Curvature, $C_c = D_{30}^2 / (D_{10} * D_{60}) = 0.83$

$D_{60} = 0.3$ mm USCS Classification: GP

Remarks: _____

Tested By: Tony

Reviewed By: _____

Particle Size Analysis; Sieve/Hydrometer

Date: _____ Report No: _____ Computer File No.: _____
 Proj. No.: _____ Project Name: CTA RPM
 Client: GSG Consultants, Inc.
 Boring: S Sample: 3 Depth, ft.: 10'-15' Balance No. used: _____
 Desc: _____

		DESCRIPTION + #10:		Sieve Size	Cummul. Wt. Retained+tare	Total wt. passing	% Finer of Total Sample
Wt. of air dry soil & tare, g:	231.90	Rounded _____		1 1/2"	0.00	231.90	100.0
Wt. of dry/washed + #10 & tare, g:	39.90	Angular _____		1"	0.00	231.90	100.0
Weight of air dry - #10, g (A-B):	192.00	Hard _____ Soft _____		3/4"	0.00	231.90	100.0
Wt. of tare for sieve of + #10, g:	0.00	Weathered _____		1/2"	13.20	218.70	94.3
Composite Correction Factor:		Tare No. 1.00		3/8"	23.90	208.00	89.7
Composite Correction @ 68F(20C)				#4	33.00	198.90	85.8
Hygro. MC wet wt. & tare, g	61.80			#8	38.60	193.30	83.4
Hygro. MC dry wt. & tare, g	61.00			#10	39.90		82.8
Hygroscopic MC tare wt., g	28.20	Tare No. 1.00		SIEVE; (- #10)			
Hygroscopic correction factor:	0.976	Calc. + #10 11.5227		#16	1.00	54.45	81.3
Wt. - #10 used in hydrometer, g:	56.80			#40	4.10	51.35	76.7
Wt. of tare for sieve of - #10, g:	0.00	Tare No. 1.00		#50	7.00	48.45	72.3
Oven dry wt. - #10 in hydro., g:	55.45			#100	12.30	43.15	64.4
Weight "W", g:	66.97			#200	16.00	39.45	58.9
Hydrometer Type:	152H			[Values for L, K, and (a) are from AASHTO T 88 tables]			

Hydrometer No.:		HYDROMETER - #10				Graduate No.:			
Reading Time	Elapse Time	Hydro. Reading	Temp., F Suspension	Composite Correction	Corr. Hydr. Reading	L, mm	K	Diam. Soil Part., mm	% Finer of Total Sample
	0								
	2	31.0	70.0	5.6	25.5	121.0	0.00420	0.0327	37.6
	5	26.0	70.0	5.5	20.5	129.5	0.00420	0.0214	30.3
	15	22.0	70.0	5.5	16.5	136.0	0.00420	0.0126	24.4
	30	19.0	70.0	5.5	13.5	141.0	0.00420	0.0091	20.0
	60	17.0	70.0	5.5	11.5	144.0	0.00420	0.0065	17.0
	250	15.0	69.0	5.8	9.3	147.5	0.00420	0.0032	13.7
	1440	12.0	68.0	5.9	6.1	152.5	0.00420	0.0014	9.0

Specific Gravity of Solids: _____ (use 2.70 if not determined) Sp. Gravity Correction Factor (a): 0.99

Sample Condition (organic, contaminated, other unusual observation): _____

Date Tested: 2/25/2015 Technician: Tony



GSG Consultants, Inc.

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Phone: 312-666-2989 Fax: 312-666-2952

AASTHO T 88
Particle Size Analysis

Project No. _____ Lab No. _____ Report No. _____

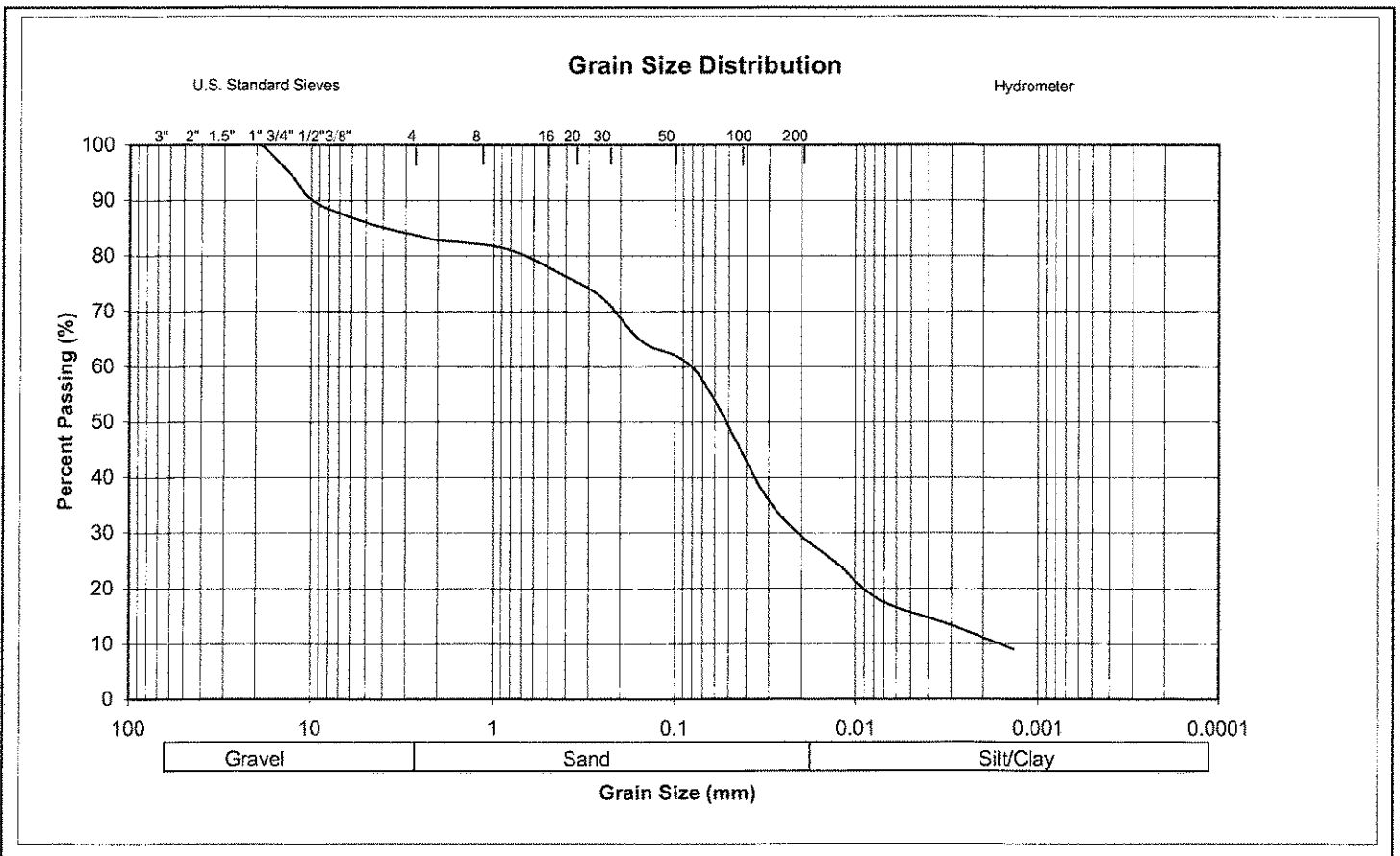
Project: CTA RPM

Tested for: GSG Consultants, Inc.

Date Received _____ Date Tested 2/25/2015

Sample Obtained from: S @ 10'-15'

Sample Description: _____



D₁₀ = 0.0017 mm Coefficient of Uniformity, Cu = D₆₀ / D₁₀ = 47.06

D₃₀ = 0.02 mm Coefficient of Curvature, Cc = D₃₀² / (D₁₀ * D₆₀) = 2.94

D₆₀ = 0.08 mm USCS Classification: GC

Remarks: _____

Tested By: Tony

Reviewed By: _____

APPENDIX C

Laboratory Analytical Data Reports

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

February 16, 2015

GSG Consultants, Inc.
855 W. Adams
Chicago, IL 60607

Telephone: (312) 733-6262
Fax: (312) 733-5612

Analytical Report for STAT Work Order: 14120340 Revision 1

RE: Red-Purple Modernization, 1151 Leland

Dear Ted Cagney:

STAT Analysis received 12 samples for the referenced project on 12/11/2014 1:35:00 PM. The analytical results are presented in the following report.

This report is revised to reflect changes made after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Victoria Young
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: GSG Consultants, Inc.
Project: Red-Purple Modernization, 1151 Leland
Work Order: 14120340 Revision 1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
14120340-001A	RPM -SB- 15-1		12/11/2014 9:15:00 AM	12/11/2014
14120340-001B	RPM -SB- 15-1		12/11/2014 9:15:00 AM	12/11/2014
14120340-002A	RPM -SB- 15-2		12/11/2014 9:25:00 AM	12/11/2014
14120340-002B	RPM -SB- 15-2		12/11/2014 9:25:00 AM	12/11/2014
14120340-003A	RPM -SB- 17-1		12/11/2014 9:45:00 AM	12/11/2014
14120340-004A	RPM -SB- 17-2		12/11/2014 9:55:00 AM	12/11/2014
14120340-005A	RPM -SB- 20-1		12/11/2014 10:50:00 AM	12/11/2014
14120340-006A	RPM -SB- 20-2		12/11/2014 11:00:00 AM	12/11/2014
14120340-007A	RPM -SB- 22-1		12/11/2014 11:20:00 AM	12/11/2014
14120340-008A	RPM -SB- 22-2		12/11/2014 11:30:00 AM	12/11/2014
14120340-009A	RPM -SB- 24-1		12/11/2014 12:05:00 PM	12/11/2014
14120340-010A	RPM -SB- 24-2		12/11/2014 12:10:00 PM	12/11/2014
14120340-011A	RPM -SB- 25-1		12/11/2014 12:25:00 PM	12/11/2014
14120340-012A	RPM -SB- 25-2		12/11/2014 12:35:00 PM	12/11/2014

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Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 15-1

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 9:15:00 AM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs						
	SW8082 (SW3550B)			Prep Date: 12/16/2014		Analyst: GVC
Aroclor 1016	ND	0.084		mg/Kg-dry	1	12/16/2014
Aroclor 1221	ND	0.084		mg/Kg-dry	1	12/16/2014
Aroclor 1232	ND	0.084		mg/Kg-dry	1	12/16/2014
Aroclor 1242	ND	0.084		mg/Kg-dry	1	12/16/2014
Aroclor 1248	ND	0.084		mg/Kg-dry	1	12/16/2014
Aroclor 1254	ND	0.084		mg/Kg-dry	1	12/16/2014
Aroclor 1260	ND	0.084		mg/Kg-dry	1	12/16/2014
Pesticides						
	SW8081 (SW3550B)			Prep Date: 12/16/2014		Analyst: GVC
4,4'-DDD	ND	0.0017		mg/Kg-dry	1	12/16/2014
4,4'-DDE	ND	0.0017		mg/Kg-dry	1	12/16/2014
4,4'-DDT	ND	0.0017		mg/Kg-dry	1	12/16/2014
Aldrin	ND	0.0017		mg/Kg-dry	1	12/16/2014
alpha-BHC	ND	0.0017		mg/Kg-dry	1	12/16/2014
alpha-Chlordane	ND	0.0017		mg/Kg-dry	1	12/16/2014
beta-BHC	ND	0.0017		mg/Kg-dry	1	12/16/2014
Chlordane	ND	0.017		mg/Kg-dry	1	12/16/2014
delta-BHC	ND	0.0017		mg/Kg-dry	1	12/16/2014
Dieldrin	ND	0.0017		mg/Kg-dry	1	12/16/2014
Endosulfan I	ND	0.0017		mg/Kg-dry	1	12/16/2014
Endosulfan II	ND	0.0017		mg/Kg-dry	1	12/16/2014
Endosulfan sulfate	ND	0.0017		mg/Kg-dry	1	12/16/2014
Endrin	ND	0.0017		mg/Kg-dry	1	12/16/2014
Endrin aldehyde	ND	0.0017		mg/Kg-dry	1	12/16/2014
Endrin ketone	ND	0.0017		mg/Kg-dry	1	12/16/2014
gamma-BHC	ND	0.0017		mg/Kg-dry	1	12/16/2014
gamma-Chlordane	ND	0.0017		mg/Kg-dry	1	12/16/2014
Heptachlor	ND	0.0017		mg/Kg-dry	1	12/16/2014
Heptachlor epoxide	ND	0.0017		mg/Kg-dry	1	12/16/2014
Methoxychlor	ND	0.0017		mg/Kg-dry	1	12/16/2014
Toxaphene	ND	0.035		mg/Kg-dry	1	12/16/2014
Mercury						
	SW7471A			Prep Date: 12/17/2014		Analyst: LB
Mercury	0.028	0.021		mg/Kg-dry	1	12/17/2014
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 12/16/2014		Analyst: JG
Antimony	ND	2.2		mg/Kg-dry	10	12/16/2014
Arsenic	1.7	1.1		mg/Kg-dry	10	12/16/2014
Beryllium	ND	0.55		mg/Kg-dry	10	12/16/2014
Cadmium	ND	0.55		mg/Kg-dry	10	12/16/2014

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 15-1

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 9:15:00 AM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/16/2014		Analyst: JG	
Chromium	7.0	1.1		mg/Kg-dry	10	12/16/2014
Copper	ND	2.7		mg/Kg-dry	10	12/16/2014
Lead	3.9	0.55		mg/Kg-dry	10	12/16/2014
Nickel	3.4	1.1		mg/Kg-dry	10	12/16/2014
Selenium	ND	0.55		mg/Kg-dry	10	12/16/2014
Silver	ND	1.1		mg/Kg-dry	10	12/16/2014
Thallium	ND	1.1		mg/Kg-dry	10	12/16/2014
Zinc	19	5.5		mg/Kg-dry	10	12/16/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)		Prep Date: 12/15/2014		Analyst: DM	
Acenaphthene	ND	0.035		mg/Kg-dry	1	12/16/2014
Acenaphthylene	ND	0.035		mg/Kg-dry	1	12/16/2014
Anthracene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benz(a)anthracene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(a)pyrene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(b)fluoranthene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(g,h,i)perylene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(k)fluoranthene	ND	0.035		mg/Kg-dry	1	12/16/2014
Chrysene	ND	0.035		mg/Kg-dry	1	12/16/2014
Dibenz(a,h)anthracene	ND	0.035		mg/Kg-dry	1	12/16/2014
Fluoranthene	ND	0.035		mg/Kg-dry	1	12/16/2014
Fluorene	ND	0.035		mg/Kg-dry	1	12/16/2014
Indeno(1,2,3-cd)pyrene	ND	0.035		mg/Kg-dry	1	12/16/2014
Naphthalene	ND	0.035		mg/Kg-dry	1	12/16/2014
Phenanthrene	ND	0.035		mg/Kg-dry	1	12/16/2014
Pyrene	ND	0.035		mg/Kg-dry	1	12/16/2014
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 12/11/2014		Analyst: ART	
Acetone	ND	0.085		mg/Kg-dry	1	12/16/2014
Benzene	ND	0.0057		mg/Kg-dry	1	12/16/2014
Bromodichloromethane	ND	0.0057		mg/Kg-dry	1	12/16/2014
Bromoform	ND	0.0057		mg/Kg-dry	1	12/16/2014
Bromomethane	ND	0.011		mg/Kg-dry	1	12/16/2014
2-Butanone	ND	0.085		mg/Kg-dry	1	12/16/2014
Carbon disulfide	ND	0.057		mg/Kg-dry	1	12/16/2014
Carbon tetrachloride	ND	0.0057		mg/Kg-dry	1	12/16/2014
Chlorobenzene	ND	0.0057		mg/Kg-dry	1	12/16/2014
Chloroethane	ND	0.011		mg/Kg-dry	1	12/16/2014
Chloroform	ND	0.0057		mg/Kg-dry	1	12/16/2014

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 15-1

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 9:15:00 AM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/11/2014		Analyst: ART
Chloromethane	ND	0.011		mg/Kg-dry	1	12/16/2014
Dibromochloromethane	ND	0.0057		mg/Kg-dry	1	12/16/2014
1,1-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/16/2014
1,2-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/16/2014
1,1-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/16/2014
cis-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/16/2014
trans-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/16/2014
1,2-Dichloropropane	ND	0.0057		mg/Kg-dry	1	12/16/2014
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/16/2014
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/16/2014
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	12/16/2014
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/16/2014
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/16/2014
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/16/2014
Methyl tert-butyl ether	ND	0.0057		mg/Kg-dry	1	12/16/2014
Styrene	ND	0.0057		mg/Kg-dry	1	12/16/2014
1,1,2,2-Tetrachloroethane	ND	0.0057		mg/Kg-dry	1	12/16/2014
Tetrachloroethene	ND	0.0057		mg/Kg-dry	1	12/16/2014
Toluene	ND	0.0057		mg/Kg-dry	1	12/16/2014
1,1,1-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/16/2014
1,1,2-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/16/2014
Trichloroethene	ND	0.0057		mg/Kg-dry	1	12/16/2014
Vinyl chloride	ND	0.0057		mg/Kg-dry	1	12/16/2014
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/16/2014
Percent Moisture		D2974		Prep Date: 12/12/2014		Analyst: RW
Percent Moisture	5.8	0.2	*	wt%	1	12/13/2014

Qualifiers:
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Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 15-2

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 9:25:00 AM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs						
	SW8082 (SW3550B)			Prep Date: 12/16/2014		Analyst: GVC
Aroclor 1016	ND	0.16		mg/Kg-dry	1	12/16/2014
Aroclor 1221	ND	0.16		mg/Kg-dry	1	12/16/2014
Aroclor 1232	ND	0.16		mg/Kg-dry	1	12/16/2014
Aroclor 1242	ND	0.16		mg/Kg-dry	1	12/16/2014
Aroclor 1248	ND	0.16		mg/Kg-dry	1	12/16/2014
Aroclor 1254	ND	0.16		mg/Kg-dry	1	12/16/2014
Aroclor 1260	ND	0.16		mg/Kg-dry	1	12/16/2014
Pesticides						
	SW8081 (SW3550B)			Prep Date: 12/16/2014		Analyst: GVC
4,4'-DDD	ND	0.0032		mg/Kg-dry	1	12/16/2014
4,4'-DDE	ND	0.0032		mg/Kg-dry	1	12/16/2014
4,4'-DDT	ND	0.0032		mg/Kg-dry	1	12/16/2014
Aldrin	ND	0.0032		mg/Kg-dry	1	12/16/2014
alpha-BHC	ND	0.0032		mg/Kg-dry	1	12/16/2014
alpha-Chlordane	ND	0.0032		mg/Kg-dry	1	12/16/2014
beta-BHC	ND	0.0032		mg/Kg-dry	1	12/16/2014
Chlordane	ND	0.032		mg/Kg-dry	1	12/16/2014
delta-BHC	ND	0.0032		mg/Kg-dry	1	12/16/2014
Dieldrin	ND	0.0032		mg/Kg-dry	1	12/16/2014
Endosulfan I	ND	0.0032		mg/Kg-dry	1	12/16/2014
Endosulfan II	ND	0.0032		mg/Kg-dry	1	12/16/2014
Endosulfan sulfate	ND	0.0032		mg/Kg-dry	1	12/16/2014
Endrin	ND	0.0032		mg/Kg-dry	1	12/16/2014
Endrin aldehyde	ND	0.0032		mg/Kg-dry	1	12/16/2014
Endrin ketone	ND	0.0032		mg/Kg-dry	1	12/16/2014
gamma-BHC	ND	0.0032		mg/Kg-dry	1	12/16/2014
gamma-Chlordane	ND	0.0032		mg/Kg-dry	1	12/16/2014
Heptachlor	ND	0.0032		mg/Kg-dry	1	12/16/2014
Heptachlor epoxide	ND	0.0032		mg/Kg-dry	1	12/16/2014
Methoxychlor	ND	0.0032		mg/Kg-dry	1	12/16/2014
Toxaphene	ND	0.067		mg/Kg-dry	1	12/16/2014
Mercury						
	SW7471A			Prep Date: 12/17/2014		Analyst: LB
Mercury	ND	0.038		mg/Kg-dry	1	12/17/2014
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 12/16/2014		Analyst: JG
Aluminum	3000	390		mg/Kg-dry	100	12/16/2014
Antimony	ND	3.9		mg/Kg-dry	10	12/16/2014
Arsenic	ND	1.9		mg/Kg-dry	10	12/16/2014
Barium	16	1.9		mg/Kg-dry	10	12/16/2014

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 15-2

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 9:25:00 AM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/16/2014		Analyst: JG	
Beryllium	ND	0.97		mg/Kg-dry	10	12/16/2014
Cadmium	ND	0.97		mg/Kg-dry	10	12/16/2014
Calcium	41000	1200		mg/Kg-dry	100	12/16/2014
Chromium	8.7	1.9		mg/Kg-dry	10	12/16/2014
Cobalt	3.0	1.9		mg/Kg-dry	10	12/16/2014
Copper	ND	4.9		mg/Kg-dry	10	12/16/2014
Iron	5400	580		mg/Kg-dry	100	12/16/2014
Lead	4.9	0.97		mg/Kg-dry	10	12/16/2014
Magnesium	21000	580		mg/Kg-dry	100	12/16/2014
Manganese	190	1.9		mg/Kg-dry	10	12/16/2014
Nickel	6.4	1.9		mg/Kg-dry	10	12/16/2014
Potassium	600	580		mg/Kg-dry	100	12/16/2014
Selenium	ND	0.97		mg/Kg-dry	10	12/16/2014
Silver	ND	1.9		mg/Kg-dry	10	12/16/2014
Sodium	ND	1200		mg/Kg-dry	100	12/16/2014
Thallium	ND	1.9		mg/Kg-dry	10	12/16/2014
Vanadium	14	1.9		mg/Kg-dry	10	12/16/2014
Zinc	32	9.7		mg/Kg-dry	10	12/16/2014
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 12/15/2014		Analyst: DM	
Acenaphthene	ND	0.067		mg/Kg-dry	1	12/16/2014
Acenaphthylene	ND	0.067		mg/Kg-dry	1	12/16/2014
Aniline	ND	0.67		mg/Kg-dry	1	12/16/2014
Anthracene	ND	0.067		mg/Kg-dry	1	12/16/2014
Benz(a)anthracene	ND	0.067		mg/Kg-dry	1	12/16/2014
Benzidine	ND	0.67		mg/Kg-dry	1	12/16/2014
Benzo(a)pyrene	ND	0.067		mg/Kg-dry	1	12/16/2014
Benzo(b)fluoranthene	ND	0.067		mg/Kg-dry	1	12/16/2014
Benzo(g,h,i)perylene	ND	0.067		mg/Kg-dry	1	12/16/2014
Benzo(k)fluoranthene	ND	0.067		mg/Kg-dry	1	12/16/2014
Benzoic acid	ND	1.7		mg/Kg-dry	1	12/16/2014
Benzyl alcohol	ND	0.34		mg/Kg-dry	1	12/16/2014
Bis(2-chloroethoxy)methane	ND	0.34		mg/Kg-dry	1	12/16/2014
Bis(2-chloroethyl)ether	ND	0.34		mg/Kg-dry	1	12/16/2014
Bis(2-ethylhexyl)phthalate	ND	1.7		mg/Kg-dry	1	12/16/2014
4-Bromophenyl phenyl ether	ND	0.34		mg/Kg-dry	1	12/16/2014
Butyl benzyl phthalate	ND	0.34		mg/Kg-dry	1	12/16/2014
Carbazole	ND	0.34		mg/Kg-dry	1	12/16/2014
4-Chloroaniline	ND	0.34		mg/Kg-dry	1	12/16/2014

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 15-2

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 9:25:00 AM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/15/2014		Analyst: DM
4-Chloro-3-methylphenol	ND	0.67		mg/Kg-dry	1	12/16/2014
2-Chloronaphthalene	ND	0.34		mg/Kg-dry	1	12/16/2014
2-Chlorophenol	ND	0.34		mg/Kg-dry	1	12/16/2014
4-Chlorophenyl phenyl ether	ND	0.34		mg/Kg-dry	1	12/16/2014
Chrysene	ND	0.067		mg/Kg-dry	1	12/16/2014
Dibenz(a,h)anthracene	ND	0.067		mg/Kg-dry	1	12/16/2014
Dibenzofuran	ND	0.34		mg/Kg-dry	1	12/16/2014
1,2-Dichlorobenzene	ND	0.34		mg/Kg-dry	1	12/16/2014
1,3-Dichlorobenzene	ND	0.34		mg/Kg-dry	1	12/16/2014
1,4-Dichlorobenzene	ND	0.34		mg/Kg-dry	1	12/16/2014
3,3'-Dichlorobenzidine	ND	0.34		mg/Kg-dry	1	12/16/2014
2,4-Dichlorophenol	ND	0.34		mg/Kg-dry	1	12/16/2014
Diethyl phthalate	ND	0.34		mg/Kg-dry	1	12/16/2014
2,4-Dimethylphenol	ND	0.34		mg/Kg-dry	1	12/16/2014
Dimethyl phthalate	ND	0.34		mg/Kg-dry	1	12/16/2014
4,6-Dinitro-2-methylphenol	ND	0.67		mg/Kg-dry	1	12/16/2014
2,4-Dinitrophenol	ND	1.7		mg/Kg-dry	1	12/16/2014
2,4-Dinitrotoluene	ND	0.067		mg/Kg-dry	1	12/16/2014
2,6-Dinitrotoluene	ND	0.067		mg/Kg-dry	1	12/16/2014
Di-n-butyl phthalate	ND	0.34		mg/Kg-dry	1	12/16/2014
Di-n-octyl phthalate	ND	0.34		mg/Kg-dry	1	12/16/2014
Fluoranthene	ND	0.067		mg/Kg-dry	1	12/16/2014
Fluorene	ND	0.067		mg/Kg-dry	1	12/16/2014
Hexachlorobenzene	ND	0.34		mg/Kg-dry	1	12/16/2014
Hexachlorobutadiene	ND	0.34		mg/Kg-dry	1	12/16/2014
Hexachlorocyclopentadiene	ND	0.34		mg/Kg-dry	1	12/16/2014
Hexachloroethane	ND	0.34		mg/Kg-dry	1	12/16/2014
Indeno(1,2,3-cd)pyrene	ND	0.067		mg/Kg-dry	1	12/16/2014
Isophorone	ND	0.34		mg/Kg-dry	1	12/16/2014
2-Methylnaphthalene	ND	0.34		mg/Kg-dry	1	12/16/2014
2-Methylphenol	ND	0.34		mg/Kg-dry	1	12/16/2014
4-Methylphenol	ND	0.34		mg/Kg-dry	1	12/16/2014
Naphthalene	ND	0.067		mg/Kg-dry	1	12/16/2014
2-Nitroaniline	ND	0.34		mg/Kg-dry	1	12/16/2014
3-Nitroaniline	ND	0.34		mg/Kg-dry	1	12/16/2014
4-Nitroaniline	ND	0.34		mg/Kg-dry	1	12/16/2014
2-Nitrophenol	ND	0.34		mg/Kg-dry	1	12/16/2014
4-Nitrophenol	ND	0.67		mg/Kg-dry	1	12/16/2014

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 15-2

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 9:25:00 AM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/15/2014		Analyst: DM
Nitrobenzene	ND	0.067		mg/Kg-dry	1	12/16/2014
N-Nitrosodi-n-propylamine	ND	0.067		mg/Kg-dry	1	12/16/2014
N-Nitrosodimethylamine	ND	0.34		mg/Kg-dry	1	12/16/2014
N-Nitrosodiphenylamine	ND	0.067		mg/Kg-dry	1	12/16/2014
2, 2'-oxybis(1-Chloropropane)	ND	0.34		mg/Kg-dry	1	12/16/2014
Pentachlorophenol	ND	0.067		mg/Kg-dry	1	12/16/2014
Phenanthrene	ND	0.067		mg/Kg-dry	1	12/16/2014
Phenol	ND	0.34		mg/Kg-dry	1	12/16/2014
Pyrene	ND	0.067		mg/Kg-dry	1	12/16/2014
Pyridine	ND	1.4		mg/Kg-dry	1	12/16/2014
1,2,4-Trichlorobenzene	ND	0.34		mg/Kg-dry	1	12/16/2014
2,4,5-Trichlorophenol	ND	0.34		mg/Kg-dry	1	12/16/2014
2,4,6-Trichlorophenol	ND	0.34		mg/Kg-dry	1	12/16/2014
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/11/2014		Analyst: ART
Acetone	ND	0.17		mg/Kg-dry	1	12/16/2014
Benzene	ND	0.012		mg/Kg-dry	1	12/16/2014
Bromodichloromethane	ND	0.012		mg/Kg-dry	1	12/16/2014
Bromoform	ND	0.012		mg/Kg-dry	1	12/16/2014
Bromomethane	ND	0.023		mg/Kg-dry	1	12/16/2014
2-Butanone	ND	0.17		mg/Kg-dry	1	12/16/2014
Carbon disulfide	ND	0.12		mg/Kg-dry	1	12/16/2014
Carbon tetrachloride	ND	0.012		mg/Kg-dry	1	12/16/2014
Chlorobenzene	ND	0.012		mg/Kg-dry	1	12/16/2014
Chloroethane	ND	0.023		mg/Kg-dry	1	12/16/2014
Chloroform	ND	0.012		mg/Kg-dry	1	12/16/2014
Chloromethane	ND	0.023		mg/Kg-dry	1	12/16/2014
Dibromochloromethane	ND	0.012		mg/Kg-dry	1	12/16/2014
1,1-Dichloroethane	ND	0.012		mg/Kg-dry	1	12/16/2014
1,2-Dichloroethane	ND	0.012		mg/Kg-dry	1	12/16/2014
1,1-Dichloroethene	ND	0.012		mg/Kg-dry	1	12/16/2014
cis-1,2-Dichloroethene	ND	0.012		mg/Kg-dry	1	12/16/2014
trans-1,2-Dichloroethene	ND	0.012		mg/Kg-dry	1	12/16/2014
1,2-Dichloropropane	ND	0.012		mg/Kg-dry	1	12/16/2014
cis-1,3-Dichloropropene	ND	0.0046		mg/Kg-dry	1	12/16/2014
trans-1,3-Dichloropropene	ND	0.0046		mg/Kg-dry	1	12/16/2014
Ethylbenzene	ND	0.012		mg/Kg-dry	1	12/16/2014
2-Hexanone	ND	0.046		mg/Kg-dry	1	12/16/2014
4-Methyl-2-pentanone	ND	0.046		mg/Kg-dry	1	12/16/2014

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Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 15-2

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 9:25:00 AM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 12/11/2014	Analyst: ART
Methylene chloride	ND	0.023		mg/Kg-dry	1	12/16/2014
Methyl tert-butyl ether	ND	0.012		mg/Kg-dry	1	12/16/2014
Styrene	ND	0.012		mg/Kg-dry	1	12/16/2014
1,1,2,2-Tetrachloroethane	ND	0.012		mg/Kg-dry	1	12/16/2014
Tetrachloroethene	ND	0.012		mg/Kg-dry	1	12/16/2014
Toluene	ND	0.012		mg/Kg-dry	1	12/16/2014
1,1,1-Trichloroethane	ND	0.012		mg/Kg-dry	1	12/16/2014
1,1,2-Trichloroethane	ND	0.012		mg/Kg-dry	1	12/16/2014
Trichloroethene	ND	0.012		mg/Kg-dry	1	12/16/2014
Vinyl chloride	ND	0.012		mg/Kg-dry	1	12/16/2014
Xylenes, Total	ND	0.035		mg/Kg-dry	1	12/16/2014
Cyanide, Total	SW9012A				Prep Date: 12/15/2014	Analyst: YZ
Cyanide	ND	0.51		mg/Kg-dry	1	12/16/2014
pH (25 °C)	SW9045C				Prep Date: 12/16/2014	Analyst: PBG
pH	7.2			pH Units	1	12/16/2014
Percent Moisture	D2974				Prep Date: 12/12/2014	Analyst: RW
Percent Moisture	51.1	0.2	*	wt%	1	12/13/2014

Qualifiers:
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 J - Analyte detected below quantitation limits
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Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 17-1

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 9:45:00 AM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 12/17/2014 Analyst: LB
Mercury	ND	0.017		mg/Kg-dry	1	12/17/2014
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/17/2014 Analyst: JG
Arsenic	3.0	1.1		mg/Kg-dry	10	12/18/2014
Barium	7.9	1.1		mg/Kg-dry	10	12/18/2014
Cadmium	ND	0.54		mg/Kg-dry	10	12/18/2014
Chromium	5.8	1.1		mg/Kg-dry	10	12/18/2014
Lead	7.1	0.54		mg/Kg-dry	10	12/18/2014
Selenium	ND	0.54		mg/Kg-dry	10	12/18/2014
Silver	ND	1.1		mg/Kg-dry	10	12/18/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)					Prep Date: 12/15/2014 Analyst: DM
Acenaphthene	0.11	0.035		mg/Kg-dry	1	12/16/2014
Acenaphthylene	ND	0.035		mg/Kg-dry	1	12/16/2014
Anthracene	0.17	0.035		mg/Kg-dry	1	12/16/2014
Benzo(a)anthracene	0.35	0.035		mg/Kg-dry	1	12/16/2014
Benzo(a)pyrene	0.26	0.035		mg/Kg-dry	1	12/16/2014
Benzo(b)fluoranthene	0.33	0.035		mg/Kg-dry	1	12/16/2014
Benzo(g,h,i)perylene	0.23	0.035		mg/Kg-dry	1	12/16/2014
Benzo(k)fluoranthene	0.24	0.035		mg/Kg-dry	1	12/16/2014
Chrysene	0.40	0.035		mg/Kg-dry	1	12/16/2014
Dibenz(a,h)anthracene	0.12	0.035		mg/Kg-dry	1	12/16/2014
Fluoranthene	1.1	0.035		mg/Kg-dry	1	12/16/2014
Fluorene	0.12	0.035		mg/Kg-dry	1	12/16/2014
Indeno(1,2,3-cd)pyrene	0.22	0.035		mg/Kg-dry	1	12/16/2014
Naphthalene	0.075	0.035		mg/Kg-dry	1	12/16/2014
Phenanthrene	1.2	0.035		mg/Kg-dry	1	12/16/2014
Pyrene	0.85	0.035		mg/Kg-dry	1	12/16/2014
Percent Moisture	D2974					Prep Date: 12/12/2014 Analyst: RW
Percent Moisture	6.7	0.2	*	wt%	1	12/13/2014

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 17-2

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 9:55:00 AM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 12/17/2014 Analyst: LB
Mercury	ND	0.018		mg/Kg-dry	1	12/17/2014
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/17/2014 Analyst: JG
Arsenic	2.1	1.1		mg/Kg-dry	10	12/18/2014
Barium	3.9	1.1		mg/Kg-dry	10	12/18/2014
Cadmium	ND	0.53		mg/Kg-dry	10	12/18/2014
Chromium	4.2	1.1		mg/Kg-dry	10	12/18/2014
Lead	3.7	0.53		mg/Kg-dry	10	12/18/2014
Selenium	ND	0.53		mg/Kg-dry	10	12/18/2014
Silver	ND	1.1		mg/Kg-dry	10	12/18/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)					Prep Date: 12/15/2014 Analyst: DM
Acenaphthene	ND	0.035		mg/Kg-dry	1	12/16/2014
Acenaphthylene	ND	0.035		mg/Kg-dry	1	12/16/2014
Anthracene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(a)anthracene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(a)pyrene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(b)fluoranthene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(g,h,i)perylene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(k)fluoranthene	ND	0.035		mg/Kg-dry	1	12/16/2014
Chrysene	ND	0.035		mg/Kg-dry	1	12/16/2014
Dibenz(a,h)anthracene	ND	0.035		mg/Kg-dry	1	12/16/2014
Fluoranthene	ND	0.035		mg/Kg-dry	1	12/16/2014
Fluorene	ND	0.035		mg/Kg-dry	1	12/16/2014
Indeno(1,2,3-cd)pyrene	ND	0.035		mg/Kg-dry	1	12/16/2014
Naphthalene	ND	0.035		mg/Kg-dry	1	12/16/2014
Phenanthrene	ND	0.035		mg/Kg-dry	1	12/16/2014
Pyrene	ND	0.035		mg/Kg-dry	1	12/16/2014
Percent Moisture	D2974					Prep Date: 12/12/2014 Analyst: RW
Percent Moisture	5.4	0.2	*	wt%	1	12/13/2014

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 20-1

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 10:50:00 AM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 12/17/2014 Analyst: LB
Mercury	ND	0.021		mg/Kg-dry	1	12/17/2014
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/17/2014 Analyst: JG
Arsenic	ND	1.1		mg/Kg-dry	10	12/18/2014
Barium	4.7	1.1		mg/Kg-dry	10	12/18/2014
Cadmium	ND	0.55		mg/Kg-dry	10	12/18/2014
Chromium	4.7	1.1		mg/Kg-dry	10	12/18/2014
Lead	2.8	0.55		mg/Kg-dry	10	12/18/2014
Selenium	ND	0.55		mg/Kg-dry	10	12/18/2014
Silver	ND	1.1		mg/Kg-dry	10	12/18/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)					Prep Date: 12/15/2014 Analyst: DM
Acenaphthene	ND	0.035		mg/Kg-dry	1	12/16/2014
Acenaphthylene	ND	0.035		mg/Kg-dry	1	12/16/2014
Anthracene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(a)anthracene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(a)pyrene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(b)fluoranthene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(g,h,i)perylene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(k)fluoranthene	ND	0.035		mg/Kg-dry	1	12/16/2014
Chrysene	ND	0.035		mg/Kg-dry	1	12/16/2014
Dibenz(a,h)anthracene	ND	0.035		mg/Kg-dry	1	12/16/2014
Fluoranthene	ND	0.035		mg/Kg-dry	1	12/16/2014
Fluorene	ND	0.035		mg/Kg-dry	1	12/16/2014
Indeno(1,2,3-cd)pyrene	ND	0.035		mg/Kg-dry	1	12/16/2014
Naphthalene	ND	0.035		mg/Kg-dry	1	12/16/2014
Phenanthrene	ND	0.035		mg/Kg-dry	1	12/16/2014
Pyrene	ND	0.035		mg/Kg-dry	1	12/16/2014
Percent Moisture	D2974					Prep Date: 12/12/2014 Analyst: RW
Percent Moisture	6.3	0.2	*	wt%	1	12/13/2014

Qualifiers:
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 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 20-2

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 11:00:00 AM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 12/17/2014 Analyst: LB
Mercury	ND	0.018		mg/Kg-dry	1	12/17/2014
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/17/2014 Analyst: JG
Arsenic	1.3	1.0		mg/Kg-dry	10	12/18/2014
Barium	4.3	1.0		mg/Kg-dry	10	12/18/2014
Cadmium	ND	0.51		mg/Kg-dry	10	12/18/2014
Chromium	3.4	1.0		mg/Kg-dry	10	12/18/2014
Lead	6.3	0.51		mg/Kg-dry	10	12/18/2014
Selenium	ND	0.51		mg/Kg-dry	10	12/18/2014
Silver	ND	1.0		mg/Kg-dry	10	12/18/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)					Prep Date: 12/15/2014 Analyst: DM
Acenaphthene	ND	0.035		mg/Kg-dry	1	12/16/2014
Acenaphthylene	ND	0.035		mg/Kg-dry	1	12/16/2014
Anthracene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(a)anthracene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(a)pyrene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(b)fluoranthene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(g,h,i)perylene	ND	0.035		mg/Kg-dry	1	12/16/2014
Benzo(k)fluoranthene	ND	0.035		mg/Kg-dry	1	12/16/2014
Chrysene	ND	0.035		mg/Kg-dry	1	12/16/2014
Dibenz(a,h)anthracene	ND	0.035		mg/Kg-dry	1	12/16/2014
Fluoranthene	ND	0.035		mg/Kg-dry	1	12/16/2014
Fluorene	ND	0.035		mg/Kg-dry	1	12/16/2014
Indeno(1,2,3-cd)pyrene	ND	0.035		mg/Kg-dry	1	12/16/2014
Naphthalene	ND	0.035		mg/Kg-dry	1	12/16/2014
Phenanthrene	ND	0.035		mg/Kg-dry	1	12/16/2014
Pyrene	ND	0.035		mg/Kg-dry	1	12/16/2014
Percent Moisture	D2974					Prep Date: 12/12/2014 Analyst: RW
Percent Moisture	5.9	0.2	*	wt%	1	12/13/2014

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 22-1

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 11:20:00 AM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 12/17/2014 Analyst: LB
Mercury	ND	0.020		mg/Kg-dry	1	12/17/2014
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/17/2014 Analyst: JG
Arsenic	1.6	0.99		mg/Kg-dry	10	12/18/2014
Barium	13	0.99		mg/Kg-dry	10	12/18/2014
Cadmium	ND	0.49		mg/Kg-dry	10	12/18/2014
Chromium	6.1	0.99		mg/Kg-dry	10	12/18/2014
Lead	6.1	0.49		mg/Kg-dry	10	12/18/2014
Selenium	ND	0.49		mg/Kg-dry	10	12/18/2014
Silver	ND	0.99		mg/Kg-dry	10	12/18/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)					Prep Date: 12/16/2014 Analyst: DM
Acenaphthene	ND	0.036		mg/Kg-dry	1	12/16/2014
Acenaphthylene	ND	0.036		mg/Kg-dry	1	12/16/2014
Anthracene	ND	0.036		mg/Kg-dry	1	12/16/2014
Benzo(a)anthracene	0.062	0.036		mg/Kg-dry	1	12/16/2014
Benzo(a)pyrene	0.051	0.036		mg/Kg-dry	1	12/16/2014
Benzo(b)fluoranthene	0.048	0.036		mg/Kg-dry	1	12/16/2014
Benzo(g,h,i)perylene	0.050	0.036		mg/Kg-dry	1	12/16/2014
Benzo(k)fluoranthene	0.055	0.036		mg/Kg-dry	1	12/16/2014
Chrysene	0.065	0.036		mg/Kg-dry	1	12/16/2014
Dibenz(a,h)anthracene	ND	0.036		mg/Kg-dry	1	12/16/2014
Fluoranthene	0.11	0.036		mg/Kg-dry	1	12/16/2014
Fluorene	ND	0.036		mg/Kg-dry	1	12/16/2014
Indeno(1,2,3-cd)pyrene	0.041	0.036		mg/Kg-dry	1	12/16/2014
Naphthalene	ND	0.036		mg/Kg-dry	1	12/16/2014
Phenanthrene	0.062	0.036		mg/Kg-dry	1	12/16/2014
Pyrene	0.094	0.036		mg/Kg-dry	1	12/16/2014
Percent Moisture	D2974					Prep Date: 12/12/2014 Analyst: RW
Percent Moisture	8.1	0.2	*	wt%	1	12/13/2014

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 22-2

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 11:30:00 AM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 12/17/2014 Analyst: LB
Mercury	ND	0.020		mg/Kg-dry	1	12/17/2014
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/17/2014 Analyst: JG
Arsenic	ND	0.92		mg/Kg-dry	10	12/18/2014
Barium	3.6	0.92		mg/Kg-dry	10	12/18/2014
Cadmium	ND	0.46		mg/Kg-dry	10	12/18/2014
Chromium	3.1	0.92		mg/Kg-dry	10	12/18/2014
Lead	3.2	0.46		mg/Kg-dry	10	12/18/2014
Selenium	ND	0.46		mg/Kg-dry	10	12/18/2014
Silver	ND	0.92		mg/Kg-dry	10	12/18/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)					Prep Date: 12/16/2014 Analyst: DM
Acenaphthene	ND	0.034		mg/Kg-dry	1	12/16/2014
Acenaphthylene	ND	0.034		mg/Kg-dry	1	12/16/2014
Anthracene	ND	0.034		mg/Kg-dry	1	12/16/2014
Benzo(a)anthracene	ND	0.034		mg/Kg-dry	1	12/16/2014
Benzo(a)pyrene	ND	0.034		mg/Kg-dry	1	12/16/2014
Benzo(b)fluoranthene	ND	0.034		mg/Kg-dry	1	12/16/2014
Benzo(g,h,i)perylene	ND	0.034		mg/Kg-dry	1	12/16/2014
Benzo(k)fluoranthene	ND	0.034		mg/Kg-dry	1	12/16/2014
Chrysene	ND	0.034		mg/Kg-dry	1	12/16/2014
Dibenz(a,h)anthracene	ND	0.034		mg/Kg-dry	1	12/16/2014
Fluoranthene	ND	0.034		mg/Kg-dry	1	12/16/2014
Fluorene	ND	0.034		mg/Kg-dry	1	12/16/2014
Indeno(1,2,3-cd)pyrene	ND	0.034		mg/Kg-dry	1	12/16/2014
Naphthalene	ND	0.034		mg/Kg-dry	1	12/16/2014
Phenanthrene	ND	0.034		mg/Kg-dry	1	12/16/2014
Pyrene	ND	0.034		mg/Kg-dry	1	12/16/2014
Percent Moisture	D2974					Prep Date: 12/12/2014 Analyst: RW
Percent Moisture	3.6	0.2	*	wt%	1	12/13/2014

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 24-1

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 12:05:00 PM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 12/17/2014 Analyst: LB
Mercury	0.077	0.020		mg/Kg-dry	1	12/17/2014
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/17/2014 Analyst: JG
Arsenic	3.1	0.99		mg/Kg-dry	10	12/18/2014
Barium	21	0.99		mg/Kg-dry	10	12/18/2014
Cadmium	ND	0.49		mg/Kg-dry	10	12/18/2014
Chromium	7.4	0.99		mg/Kg-dry	10	12/18/2014
Lead	140	0.49		mg/Kg-dry	10	12/18/2014
Selenium	ND	0.49		mg/Kg-dry	10	12/18/2014
Silver	ND	0.99		mg/Kg-dry	10	12/18/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)					Prep Date: 12/16/2014 Analyst: DM
Acenaphthene	0.054	0.035		mg/Kg-dry	1	12/16/2014
Acenaphthylene	0.067	0.035		mg/Kg-dry	1	12/16/2014
Anthracene	0.19	0.035		mg/Kg-dry	1	12/16/2014
Benzo(a)anthracene	0.76	0.035		mg/Kg-dry	1	12/16/2014
Benzo(a)pyrene	0.82	0.035		mg/Kg-dry	1	12/16/2014
Benzo(b)fluoranthene	0.89	0.035		mg/Kg-dry	1	12/16/2014
Benzo(g,h,i)perylene	0.61	0.035		mg/Kg-dry	1	12/16/2014
Benzo(k)fluoranthene	0.53	0.035		mg/Kg-dry	1	12/16/2014
Chrysene	0.81	0.035		mg/Kg-dry	1	12/16/2014
Dibenz(a,h)anthracene	0.27	0.035		mg/Kg-dry	1	12/16/2014
Fluoranthene	1.6	0.035		mg/Kg-dry	1	12/16/2014
Fluorene	0.049	0.035		mg/Kg-dry	1	12/16/2014
Indeno(1,2,3-cd)pyrene	0.54	0.035		mg/Kg-dry	1	12/16/2014
Naphthalene	ND	0.035		mg/Kg-dry	1	12/16/2014
Phenanthrene	0.86	0.035		mg/Kg-dry	1	12/16/2014
Pyrene	1.3	0.035		mg/Kg-dry	1	12/16/2014
Percent Moisture	D2974					Prep Date: 12/12/2014 Analyst: RW
Percent Moisture	7.1	0.2	*	wt%	1	12/13/2014

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 24-2

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 12:10:00 PM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 12/17/2014 Analyst: LB
Mercury	ND	0.023		mg/Kg-dry	1	12/17/2014
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/17/2014 Analyst: JG
Arsenic	1.2	1.1		mg/Kg-dry	10	12/18/2014
Barium	4.4	1.1		mg/Kg-dry	10	12/18/2014
Cadmium	ND	0.53		mg/Kg-dry	10	12/18/2014
Chromium	3.2	1.1		mg/Kg-dry	10	12/18/2014
Lead	3.3	0.53		mg/Kg-dry	10	12/18/2014
Selenium	ND	0.53		mg/Kg-dry	10	12/18/2014
Silver	ND	1.1		mg/Kg-dry	10	12/18/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)					Prep Date: 12/16/2014 Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	12/17/2014
Acenaphthylene	ND	0.040		mg/Kg-dry	1	12/17/2014
Anthracene	ND	0.040		mg/Kg-dry	1	12/17/2014
Benzo(a)anthracene	ND	0.040		mg/Kg-dry	1	12/17/2014
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	12/17/2014
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	12/17/2014
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	12/17/2014
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	12/17/2014
Chrysene	ND	0.040		mg/Kg-dry	1	12/17/2014
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	12/17/2014
Fluoranthene	ND	0.040		mg/Kg-dry	1	12/17/2014
Fluorene	ND	0.040		mg/Kg-dry	1	12/17/2014
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	12/17/2014
Naphthalene	ND	0.040		mg/Kg-dry	1	12/17/2014
Phenanthrene	ND	0.040		mg/Kg-dry	1	12/17/2014
Pyrene	ND	0.040		mg/Kg-dry	1	12/17/2014
Percent Moisture	D2974					Prep Date: 12/12/2014 Analyst: RW
Percent Moisture	17.4	0.2	*	wt%	1	12/13/2014

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 25-1

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 12:25:00 PM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 12/17/2014 Analyst: LB
Mercury	ND	0.018		mg/Kg-dry	1	12/17/2014
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/17/2014 Analyst: JG
Arsenic	2.3	1.0		mg/Kg-dry	10	12/18/2014
Barium	16	1.0		mg/Kg-dry	10	12/18/2014
Cadmium	ND	0.50		mg/Kg-dry	10	12/18/2014
Chromium	6.3	1.0		mg/Kg-dry	10	12/18/2014
Lead	4.2	0.50		mg/Kg-dry	10	12/18/2014
Selenium	ND	0.50		mg/Kg-dry	10	12/18/2014
Silver	ND	1.0		mg/Kg-dry	10	12/18/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)					Prep Date: 12/16/2014 Analyst: DM
Acenaphthene	ND	0.034		mg/Kg-dry	1	12/17/2014
Acenaphthylene	ND	0.034		mg/Kg-dry	1	12/17/2014
Anthracene	ND	0.034		mg/Kg-dry	1	12/17/2014
Benzo(a)anthracene	ND	0.034		mg/Kg-dry	1	12/17/2014
Benzo(a)pyrene	ND	0.034		mg/Kg-dry	1	12/17/2014
Benzo(b)fluoranthene	ND	0.034		mg/Kg-dry	1	12/17/2014
Benzo(g,h,i)perylene	ND	0.034		mg/Kg-dry	1	12/17/2014
Benzo(k)fluoranthene	ND	0.034		mg/Kg-dry	1	12/17/2014
Chrysene	ND	0.034		mg/Kg-dry	1	12/17/2014
Dibenz(a,h)anthracene	ND	0.034		mg/Kg-dry	1	12/17/2014
Fluoranthene	ND	0.034		mg/Kg-dry	1	12/17/2014
Fluorene	ND	0.034		mg/Kg-dry	1	12/17/2014
Indeno(1,2,3-cd)pyrene	ND	0.034		mg/Kg-dry	1	12/17/2014
Naphthalene	ND	0.034		mg/Kg-dry	1	12/17/2014
Phenanthrene	ND	0.034		mg/Kg-dry	1	12/17/2014
Pyrene	ND	0.034		mg/Kg-dry	1	12/17/2014
Percent Moisture	D2974					Prep Date: 12/12/2014 Analyst: RW
Percent Moisture	5.1	0.2	*	wt%	1	12/13/2014

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 16, 2015

ANALYTICAL RESULTS

Date Printed: February 16, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM -SB- 25-2

Work Order: 14120340 Revision 1

Collection Date: 12/11/2014 12:35:00 PM

Project: Red-Purple Modernization, 1151 Leland

Matrix: Soil

Lab ID: 14120340-012

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 12/17/2014 Analyst: LB
Mercury	ND	0.019		mg/Kg-dry	1	12/17/2014
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/17/2014 Analyst: JG
Arsenic	2.0	1.1		mg/Kg-dry	10	12/18/2014
Barium	18	1.1		mg/Kg-dry	10	12/18/2014
Cadmium	ND	0.54		mg/Kg-dry	10	12/18/2014
Chromium	7.9	1.1		mg/Kg-dry	10	12/18/2014
Lead	8.3	0.54		mg/Kg-dry	10	12/18/2014
Selenium	ND	0.54		mg/Kg-dry	10	12/18/2014
Silver	ND	1.1		mg/Kg-dry	10	12/18/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)					Prep Date: 12/16/2014 Analyst: DM
Acenaphthene	ND	0.036		mg/Kg-dry	1	12/17/2014
Acenaphthylene	ND	0.036		mg/Kg-dry	1	12/17/2014
Anthracene	ND	0.036		mg/Kg-dry	1	12/17/2014
Benzo(a)anthracene	ND	0.036		mg/Kg-dry	1	12/17/2014
Benzo(a)pyrene	ND	0.036		mg/Kg-dry	1	12/17/2014
Benzo(b)fluoranthene	ND	0.036		mg/Kg-dry	1	12/17/2014
Benzo(g,h,i)perylene	0.053	0.036		mg/Kg-dry	1	12/17/2014
Benzo(k)fluoranthene	ND	0.036		mg/Kg-dry	1	12/17/2014
Chrysene	ND	0.036		mg/Kg-dry	1	12/17/2014
Dibenz(a,h)anthracene	ND	0.036		mg/Kg-dry	1	12/17/2014
Fluoranthene	0.041	0.036		mg/Kg-dry	1	12/17/2014
Fluorene	ND	0.036		mg/Kg-dry	1	12/17/2014
Indeno(1,2,3-cd)pyrene	ND	0.036		mg/Kg-dry	1	12/17/2014
Naphthalene	ND	0.036		mg/Kg-dry	1	12/17/2014
Phenanthrene	ND	0.036		mg/Kg-dry	1	12/17/2014
Pyrene	0.038	0.036		mg/Kg-dry	1	12/17/2014
Percent Moisture	D2974					Prep Date: 12/12/2014 Analyst: RW
Percent Moisture	9.4	0.2	*	wt%	1	12/13/2014

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

CHAIN OF CUSTODY RECORD

Company: <u>GSG</u>		P.O. No.:									
Project Number: <u>Client Tracking No.:</u>		Quote No.:									
Project Name: <u>Red-Purple Modernization</u>											
Project Location: <u>1151 Leland</u>											
Sampler(s): <u>JC</u>											
Report To: <u>Ted Casney</u>		Phone: <u>312 733 6262</u>									
		Fax: <u>312 733 5612</u>									
e-mail: <u>T.Casney@GSG-Consultants.com</u>											
QC Level: 1	2	3	4								
Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	Remarks	Lab No.:	Results Needed:	am/pm
SB <u>RPM-SB-15-1</u>	<u>12/11/14</u>	<u>915</u>	<u>Soil</u>		X		<u>4</u>		<u>001</u>		
<u>RPM-SB-15-2</u>		<u>925</u>			X		<u>4</u>		<u>002</u>		
<u>RPM 17-1</u>		<u>945</u>			X		<u>1</u>		<u>003</u>		
<u>RPM 17-2</u>		<u>955</u>			X		<u>1</u>		<u>004</u>		
<u>RPM 20-1</u>		<u>1050</u>			X		<u>1</u>		<u>005</u>		
<u>RPM 20-2</u>		<u>1100</u>			X		<u>1</u>		<u>006</u>		
<u>RPM 22-1</u>		<u>1120</u>			X		<u>1</u>		<u>007</u>		
<u>RPM 22-2</u>		<u>1130</u>			X		<u>1</u>		<u>008</u>		
<u>RPM 24-1</u>		<u>1205</u>			X		<u>1</u>		<u>009</u>		
<u>RPM 24-2</u>		<u>1210</u>			X		<u>1</u>		<u>010</u>		
<u>RPM 25-1</u>		<u>1225</u>			X		<u>1</u>		<u>011</u>		
<u>RPM 25-2</u>		<u>1235</u>			X		<u>1</u>		<u>012</u>		
Laboratory Work Order No.: <u>14920340</u> Received on Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Temperature: <u>40</u> °C											

Sample Receipt Checklist

Client Name GSG

Date and Time Received: 12/11/2014 1:35:00 PM

Work Order Number 14120340

Received by: JOK

Checklist completed by:

[Signature]
Signature

12/11/14
Date

Reviewed by:

[Initials] 12/15/14
Initials Date

Matrix:

Carrier name STAT Analysis

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature 4.2 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: COMPLETE SAMPLE IS TAKEN FROM LABELS ON SAMPLE CONTAINER

Client / Person contacted: _____

Date contacted: _____

Contacted by: _____

Response: _____

STAT Analysis Corporation

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February 12, 2015

GSG Consultants, Inc.
855 W. Adams
Chicago, IL 60607

Telephone: (312) 733-6262
Fax: (312) 733-5612

Analytical Report for STAT Work Order: 14120373 Revision 1

RE: RPM, Broadway & Berwyn

Dear Ted Cagney:

STAT Analysis received 12 samples for the referenced project on 12/12/2014 3:15:00 PM. The analytical results are presented in the following report.

This report is revised to reflect changes made after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Victoria Young
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: GSG Consultants, Inc.
Project: RPM, Broadway & Berwyn
Work Order: 14120373 Revision 1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
14120373-001A	RPM - SB - 27-1		12/12/2014 8:45:00 AM	12/12/2014
14120373-002A	RPM - SB - 27-2		12/12/2014 8:50:00 AM	12/12/2014
14120373-002B	RPM - SB - 27-2		12/12/2014 8:50:00 AM	12/12/2014
14120373-003A	RPM - SB - 29-1		12/12/2014 9:10:00 AM	12/12/2014
14120373-004A	RPM - SB - 29-2		12/12/2014 9:20:00 AM	12/12/2014
14120373-004B	RPM - SB - 29-2		12/12/2014 9:20:00 AM	12/12/2014
14120373-005A	RPM - SB - 31-1		12/12/2014 9:45:00 AM	12/12/2014
14120373-006A	RPM - SB - 31-2		12/12/2014 9:50:00 AM	12/12/2014
14120373-006B	RPM - SB - 31-2		12/12/2014 9:50:00 AM	12/12/2014
14120373-007A	RPM - SB - 33-1		12/12/2014 10:15:00 AM	12/12/2014
14120373-008A	RPM - SB - 33-2		12/12/2014 10:20:00 AM	12/12/2014
14120373-009A	RPM - SB - 35-1		12/12/2014 11:00:00 AM	12/12/2014
14120373-010A	RPM - SB - 35-2		12/12/2014 11:10:00 AM	12/12/2014
14120373-010B	RPM - SB - 35-2		12/12/2014 11:10:00 AM	12/12/2014
14120373-011A	RPM - SB - 37-1		12/12/2014 11:35:00 AM	12/12/2014
14120373-012A	RPM - SB - 37-2		12/12/2014 11:45:00 AM	12/12/2014

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-001

Client Sample ID: RPM - SB - 27-1
 Collection Date: 12/12/2014 8:45:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)			Prep Date: 12/16/2014		Analyst: GVC
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	12/16/2014
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	12/16/2014
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	12/16/2014
Aldrin	ND	0.0019		mg/Kg-dry	1	12/16/2014
alpha-BHC	ND	0.0019		mg/Kg-dry	1	12/16/2014
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	12/16/2014
beta-BHC	ND	0.0019		mg/Kg-dry	1	12/16/2014
Chlordane	ND	0.019		mg/Kg-dry	1	12/16/2014
delta-BHC	ND	0.0019		mg/Kg-dry	1	12/16/2014
Dieldrin	ND	0.0019		mg/Kg-dry	1	12/16/2014
Endosulfan I	ND	0.0019		mg/Kg-dry	1	12/16/2014
Endosulfan II	ND	0.0019		mg/Kg-dry	1	12/16/2014
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	12/16/2014
Endrin	ND	0.0019		mg/Kg-dry	1	12/16/2014
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	12/16/2014
Endrin ketone	ND	0.0019		mg/Kg-dry	1	12/16/2014
gamma-BHC	ND	0.0019		mg/Kg-dry	1	12/16/2014
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	12/16/2014
Heptachlor	ND	0.0019		mg/Kg-dry	1	12/16/2014
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	12/16/2014
Methoxychlor	ND	0.0019		mg/Kg-dry	1	12/16/2014
Toxaphene	ND	0.039		mg/Kg-dry	1	12/16/2014
Mercury	SW7471A			Prep Date: 12/18/2014		Analyst: LB
Mercury	0.030	0.019		mg/Kg-dry	1	12/18/2014
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 12/16/2014		Analyst: JG
Antimony	ND	2.1		mg/Kg-dry	10	12/16/2014
Arsenic	7.0	1.0		mg/Kg-dry	10	12/16/2014
Beryllium	0.63	0.52		mg/Kg-dry	10	12/16/2014
Cadmium	0.59	0.52		mg/Kg-dry	10	12/16/2014
Chromium	16	1.0		mg/Kg-dry	10	12/16/2014
Copper	15	2.6		mg/Kg-dry	10	12/16/2014
Lead	14	0.52		mg/Kg-dry	10	12/16/2014
Nickel	20	1.0		mg/Kg-dry	10	12/16/2014
Selenium	ND	0.52		mg/Kg-dry	10	12/16/2014
Silver	ND	1.0		mg/Kg-dry	10	12/16/2014
Thallium	ND	1.0		mg/Kg-dry	10	12/16/2014
Zinc	45	5.2		mg/Kg-dry	10	12/16/2014

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-001

Client Sample ID: RPM - SB - 27-1
 Collection Date: 12/12/2014 8:45:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)				Prep Date: 12/17/2014	Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	12/18/2014
Acenaphthylene	ND	0.039		mg/Kg-dry	1	12/18/2014
Anthracene	ND	0.039		mg/Kg-dry	1	12/18/2014
Benzo(a)anthracene	ND	0.039		mg/Kg-dry	1	12/18/2014
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	12/18/2014
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	12/18/2014
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	12/18/2014
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	12/18/2014
Chrysene	ND	0.039		mg/Kg-dry	1	12/18/2014
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	12/18/2014
Fluoranthene	ND	0.039		mg/Kg-dry	1	12/18/2014
Fluorene	ND	0.039		mg/Kg-dry	1	12/18/2014
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	12/18/2014
Naphthalene	ND	0.039		mg/Kg-dry	1	12/18/2014
Phenanthrene	ND	0.039		mg/Kg-dry	1	12/18/2014
Pyrene	ND	0.039		mg/Kg-dry	1	12/18/2014
Percent Moisture	D2974				Prep Date: 12/15/2014	Analyst: RW
Percent Moisture	15.8	0.2	*	wt%	1	12/16/2014

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-002

Client Sample ID: RPM - SB - 27-2
 Collection Date: 12/12/2014 8:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs						
	SW8082 (SW3550B)			Prep Date: 12/16/2014		Analyst: GVC
Aroclor 1016	ND	0.093		mg/Kg-dry	1	12/16/2014
Aroclor 1221	ND	0.093		mg/Kg-dry	1	12/16/2014
Aroclor 1232	ND	0.093		mg/Kg-dry	1	12/16/2014
Aroclor 1242	ND	0.093		mg/Kg-dry	1	12/16/2014
Aroclor 1248	ND	0.093		mg/Kg-dry	1	12/16/2014
Aroclor 1254	ND	0.093		mg/Kg-dry	1	12/16/2014
Aroclor 1260	ND	0.093		mg/Kg-dry	1	12/16/2014
Pesticides						
	SW8081 (SW3550B)			Prep Date: 12/16/2014		Analyst: GVC
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	12/16/2014
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	12/16/2014
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	12/16/2014
Aldrin	ND	0.0019		mg/Kg-dry	1	12/16/2014
alpha-BHC	ND	0.0019		mg/Kg-dry	1	12/16/2014
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	12/16/2014
beta-BHC	ND	0.0019		mg/Kg-dry	1	12/16/2014
Chlordane	ND	0.019		mg/Kg-dry	1	12/16/2014
delta-BHC	ND	0.0019		mg/Kg-dry	1	12/16/2014
Dieldrin	ND	0.0019		mg/Kg-dry	1	12/16/2014
Endosulfan I	ND	0.0019		mg/Kg-dry	1	12/16/2014
Endosulfan II	ND	0.0019		mg/Kg-dry	1	12/16/2014
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	12/16/2014
Endrin	ND	0.0019		mg/Kg-dry	1	12/16/2014
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	12/16/2014
Endrin ketone	ND	0.0019		mg/Kg-dry	1	12/16/2014
gamma-BHC	ND	0.0019		mg/Kg-dry	1	12/16/2014
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	12/16/2014
Heptachlor	ND	0.0019		mg/Kg-dry	1	12/16/2014
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	12/16/2014
Methoxychlor	ND	0.0019		mg/Kg-dry	1	12/16/2014
Toxaphene	ND	0.039		mg/Kg-dry	1	12/16/2014
Mercury						
	SW7471A			Prep Date: 12/18/2014		Analyst: LB
Mercury	ND	0.021		mg/Kg-dry	1	12/18/2014
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 12/16/2014		Analyst: JG
Aluminum	1100	230		mg/Kg-dry	100	12/16/2014
Antimony	ND	2.3		mg/Kg-dry	10	12/16/2014
Arsenic	ND	1.1		mg/Kg-dry	10	12/16/2014
Barium	4.9	1.1		mg/Kg-dry	10	12/16/2014

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
 * - Non-accredited parameter H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-002

Client Sample ID: RPM - SB - 27-2
 Collection Date: 12/12/2014 8:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/16/2014			Analyst: JG
Beryllium	ND	0.57		mg/Kg-dry	10	12/16/2014
Cadmium	ND	0.57		mg/Kg-dry	10	12/16/2014
Calcium	33000	690		mg/Kg-dry	100	12/16/2014
Chromium	3.9	1.1		mg/Kg-dry	10	12/16/2014
Cobalt	2.4	1.1		mg/Kg-dry	10	12/16/2014
Copper	3.5	2.9		mg/Kg-dry	10	12/16/2014
Iron	3000	340		mg/Kg-dry	100	12/16/2014
Lead	3.3	0.57		mg/Kg-dry	10	12/16/2014
Magnesium	18000	340		mg/Kg-dry	100	12/16/2014
Manganese	210	1.1		mg/Kg-dry	10	12/16/2014
Nickel	6.0	1.1		mg/Kg-dry	10	12/16/2014
Potassium	ND	340		mg/Kg-dry	100	12/16/2014
Selenium	ND	0.57		mg/Kg-dry	10	12/16/2014
Silver	ND	1.1		mg/Kg-dry	10	12/16/2014
Sodium	ND	690		mg/Kg-dry	100	12/16/2014
Thallium	ND	1.1		mg/Kg-dry	10	12/16/2014
Vanadium	6.7	1.1		mg/Kg-dry	10	12/16/2014
Zinc	18	5.7		mg/Kg-dry	10	12/16/2014

Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 12/17/2014			Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	12/18/2014
Acenaphthylene	ND	0.038		mg/Kg-dry	1	12/18/2014
Aniline	ND	0.38		mg/Kg-dry	1	12/18/2014
Anthracene	ND	0.038		mg/Kg-dry	1	12/18/2014
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	12/18/2014
Benzidine	ND	0.38		mg/Kg-dry	1	12/18/2014
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	12/18/2014
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	12/18/2014
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	12/18/2014
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	12/18/2014
Benzoic acid	ND	0.96		mg/Kg-dry	1	12/18/2014
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	12/18/2014
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	12/18/2014
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	12/18/2014
Bis(2-ethylhexyl)phthalate	ND	0.96		mg/Kg-dry	1	12/18/2014
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	12/18/2014
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	12/18/2014
Carbazole	ND	0.20		mg/Kg-dry	1	12/18/2014
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	12/18/2014

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
 * - Non-accredited parameter H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-002

Client Sample ID: RPM - SB - 27-2
 Collection Date: 12/12/2014 8:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/17/2014		Analyst: DM
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	12/18/2014
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	12/18/2014
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	12/18/2014
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	12/18/2014
Chrysene	ND	0.038		mg/Kg-dry	1	12/18/2014
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	12/18/2014
Dibenzofuran	ND	0.20		mg/Kg-dry	1	12/18/2014
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	12/18/2014
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	12/18/2014
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	12/18/2014
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	12/18/2014
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	12/18/2014
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	12/18/2014
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	12/18/2014
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	12/18/2014
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	12/18/2014
2,4-Dinitrophenol	ND	0.96		mg/Kg-dry	1	12/18/2014
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	12/18/2014
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	12/18/2014
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	12/18/2014
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	12/18/2014
Fluoranthene	ND	0.038		mg/Kg-dry	1	12/18/2014
Fluorene	ND	0.038		mg/Kg-dry	1	12/18/2014
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	12/18/2014
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	12/18/2014
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	12/18/2014
Hexachloroethane	ND	0.20		mg/Kg-dry	1	12/18/2014
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	12/18/2014
Isophorone	ND	0.20		mg/Kg-dry	1	12/18/2014
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	12/18/2014
2-Methylphenol	ND	0.20		mg/Kg-dry	1	12/18/2014
4-Methylphenol	ND	0.20		mg/Kg-dry	1	12/18/2014
Naphthalene	ND	0.038		mg/Kg-dry	1	12/18/2014
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	12/18/2014
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	12/18/2014
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	12/18/2014
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	12/18/2014
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	12/18/2014

Qualifiers:
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 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-002

Client Sample ID: RPM - SB - 27-2
 Collection Date: 12/12/2014 8:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 12/17/2014		Analyst: DM	
Nitrobenzene	ND	0.038		mg/Kg-dry	1	12/18/2014
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	12/18/2014
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	12/18/2014
N-Nitrosodiphenylamine	ND	0.038		mg/Kg-dry	1	12/18/2014
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	12/18/2014
Pentachlorophenol	ND	0.038		mg/Kg-dry	1	12/18/2014
Phenanthrene	ND	0.038		mg/Kg-dry	1	12/18/2014
Phenol	ND	0.20		mg/Kg-dry	1	12/18/2014
Pyrene	ND	0.038		mg/Kg-dry	1	12/18/2014
Pyridine	ND	0.77		mg/Kg-dry	1	12/18/2014
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	12/18/2014
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	12/18/2014
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	12/18/2014

Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 12/13/2014		Analyst: ERP	
Acetone	ND	0.093		mg/Kg-dry	1	12/18/2014
Benzene	ND	0.0062		mg/Kg-dry	1	12/18/2014
Bromodichloromethane	ND	0.0062		mg/Kg-dry	1	12/18/2014
Bromoform	ND	0.0062		mg/Kg-dry	1	12/18/2014
Bromomethane	ND	0.012		mg/Kg-dry	1	12/18/2014
2-Butanone	ND	0.093		mg/Kg-dry	1	12/18/2014
Carbon disulfide	ND	0.062		mg/Kg-dry	1	12/18/2014
Carbon tetrachloride	ND	0.0062		mg/Kg-dry	1	12/18/2014
Chlorobenzene	ND	0.0062		mg/Kg-dry	1	12/18/2014
Chloroethane	ND	0.012		mg/Kg-dry	1	12/18/2014
Chloroform	ND	0.0062		mg/Kg-dry	1	12/18/2014
Chloromethane	ND	0.012		mg/Kg-dry	1	12/18/2014
Dibromochloromethane	ND	0.0062		mg/Kg-dry	1	12/18/2014
1,1-Dichloroethane	ND	0.0062		mg/Kg-dry	1	12/18/2014
1,2-Dichloroethane	ND	0.0062		mg/Kg-dry	1	12/18/2014
1,1-Dichloroethene	ND	0.0062		mg/Kg-dry	1	12/18/2014
cis-1,2-Dichloroethene	ND	0.0062		mg/Kg-dry	1	12/18/2014
trans-1,2-Dichloroethene	ND	0.0062		mg/Kg-dry	1	12/18/2014
1,2-Dichloropropane	ND	0.0062		mg/Kg-dry	1	12/18/2014
cis-1,3-Dichloropropene	ND	0.0025		mg/Kg-dry	1	12/18/2014
trans-1,3-Dichloropropene	ND	0.0025		mg/Kg-dry	1	12/18/2014
Ethylbenzene	ND	0.0062		mg/Kg-dry	1	12/18/2014
2-Hexanone	ND	0.025		mg/Kg-dry	1	12/18/2014
4-Methyl-2-pentanone	ND	0.025		mg/Kg-dry	1	12/18/2014

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-002

Client Sample ID: RPM - SB - 27-2
 Collection Date: 12/12/2014 8:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 12/13/2014 Analyst: ERP			
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/18/2014
Methyl tert-butyl ether	ND	0.0062		mg/Kg-dry	1	12/18/2014
Styrene	ND	0.0062		mg/Kg-dry	1	12/18/2014
1,1,2,2-Tetrachloroethane	ND	0.0062		mg/Kg-dry	1	12/18/2014
Tetrachloroethene	ND	0.0062		mg/Kg-dry	1	12/18/2014
Toluene	ND	0.0062		mg/Kg-dry	1	12/18/2014
1,1,1-Trichloroethane	ND	0.0062		mg/Kg-dry	1	12/18/2014
1,1,2-Trichloroethane	ND	0.0062		mg/Kg-dry	1	12/18/2014
Trichloroethene	ND	0.0062		mg/Kg-dry	1	12/18/2014
Vinyl chloride	ND	0.0062		mg/Kg-dry	1	12/18/2014
Xylenes, Total	ND	0.019		mg/Kg-dry	1	12/18/2014
Cyanide, Total	SW9012A		Prep Date: 12/15/2014 Analyst: YZ			
Cyanide	ND	0.29		mg/Kg-dry	1	12/16/2014
pH (25 °C)	SW9045C		Prep Date: 12/17/2014 Analyst: RW			
pH	8.4			pH Units	1	12/17/2014
Percent Moisture	D2974		Prep Date: 12/15/2014 Analyst: RW			
Percent Moisture	14.5	0.2	*	wt%	1	12/16/2014

Qualifiers:
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-003

Client Sample ID: RPM - SB - 29-1
 Collection Date: 12/12/2014 9:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)		Prep Date: 12/16/2014 Analyst: GVC			
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	12/16/2014
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	12/16/2014
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	12/16/2014
Aldrin	ND	0.0018		mg/Kg-dry	1	12/16/2014
alpha-BHC	ND	0.0018		mg/Kg-dry	1	12/16/2014
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	12/16/2014
beta-BHC	ND	0.0018		mg/Kg-dry	1	12/16/2014
Chlordane	ND	0.018		mg/Kg-dry	1	12/16/2014
delta-BHC	ND	0.0018		mg/Kg-dry	1	12/16/2014
Dieldrin	ND	0.0018		mg/Kg-dry	1	12/16/2014
Endosulfan I	ND	0.0018		mg/Kg-dry	1	12/16/2014
Endosulfan II	ND	0.0018		mg/Kg-dry	1	12/16/2014
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	12/16/2014
Endrin	ND	0.0018		mg/Kg-dry	1	12/16/2014
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	12/16/2014
Endrin ketone	ND	0.0018		mg/Kg-dry	1	12/16/2014
gamma-BHC	ND	0.0018		mg/Kg-dry	1	12/16/2014
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	12/16/2014
Heptachlor	ND	0.0018		mg/Kg-dry	1	12/16/2014
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	12/16/2014
Methoxychlor	ND	0.0018		mg/Kg-dry	1	12/16/2014
Toxaphene	ND	0.038		mg/Kg-dry	1	12/16/2014
Mercury	SW7471A		Prep Date: 12/18/2014 Analyst: LB			
Mercury	0.065	0.021		mg/Kg-dry	1	12/18/2014
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/17/2014 Analyst: JG			
Arsenic	7.1	1.2		mg/Kg-dry	10	12/17/2014
Barium	60	1.2		mg/Kg-dry	10	12/18/2014
Cadmium	ND	0.60		mg/Kg-dry	10	12/18/2014
Chromium	16	1.2		mg/Kg-dry	10	12/17/2014
Lead	51	0.60		mg/Kg-dry	10	12/17/2014
Selenium	ND	1.2		mg/Kg-dry	10	12/17/2014
Silver	ND	1.2		mg/Kg-dry	10	12/17/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)		Prep Date: 12/17/2014 Analyst: DM			
Acenaphthene	ND	0.038		mg/Kg-dry	1	12/18/2014
Acenaphthylene	ND	0.038		mg/Kg-dry	1	12/18/2014
Anthracene	ND	0.038		mg/Kg-dry	1	12/18/2014
Benz(a)anthracene	0.12	0.038		mg/Kg-dry	1	12/18/2014

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-003

Client Sample ID: RPM - SB - 29-1
 Collection Date: 12/12/2014 9:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/17/2014		Analyst: DM
Benzo(a)pyrene	0.11	0.038		mg/Kg-dry	1	12/18/2014
Benzo(b)fluoranthene	0.11	0.038		mg/Kg-dry	1	12/18/2014
Benzo(g,h,i)perylene	0.065	0.038		mg/Kg-dry	1	12/18/2014
Benzo(k)fluoranthene	0.094	0.038		mg/Kg-dry	1	12/18/2014
Chrysene	0.13	0.038		mg/Kg-dry	1	12/18/2014
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	12/18/2014
Fluoranthene	0.22	0.038		mg/Kg-dry	1	12/18/2014
Fluorene	ND	0.038		mg/Kg-dry	1	12/18/2014
Indeno(1,2,3-cd)pyrene	0.057	0.038		mg/Kg-dry	1	12/18/2014
Naphthalene	ND	0.038		mg/Kg-dry	1	12/18/2014
Phenanthrene	0.10	0.038		mg/Kg-dry	1	12/18/2014
Pyrene	0.19	0.038		mg/Kg-dry	1	12/18/2014
Percent Moisture		D2974		Prep Date: 12/15/2014		Analyst: RW
Percent Moisture	14.1	0.2	*	wt%	1	12/16/2014

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-004

Client Sample ID: RPM - SB - 29-2
 Collection Date: 12/12/2014 9:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs						
	SW8082 (SW3550B)			Prep Date: 12/16/2014		Analyst: GVC
Aroclor 1016	ND	0.084		mg/Kg-dry	1	12/16/2014
Aroclor 1221	ND	0.084		mg/Kg-dry	1	12/16/2014
Aroclor 1232	ND	0.084		mg/Kg-dry	1	12/16/2014
Aroclor 1242	ND	0.084		mg/Kg-dry	1	12/16/2014
Aroclor 1248	ND	0.084		mg/Kg-dry	1	12/16/2014
Aroclor 1254	ND	0.084		mg/Kg-dry	1	12/16/2014
Aroclor 1260	ND	0.084		mg/Kg-dry	1	12/16/2014
Pesticides						
	SW8081 (SW3550B)			Prep Date: 12/16/2014		Analyst: GVC
4,4'-DDD	ND	0.0017		mg/Kg-dry	1	12/16/2014
4,4'-DDE	ND	0.0017		mg/Kg-dry	1	12/16/2014
4,4'-DDT	0.0021	0.0017		mg/Kg-dry	1	12/16/2014
Aldrin	ND	0.0017		mg/Kg-dry	1	12/16/2014
alpha-BHC	ND	0.0017		mg/Kg-dry	1	12/16/2014
alpha-Chlordane	ND	0.0017		mg/Kg-dry	1	12/16/2014
beta-BHC	ND	0.0017		mg/Kg-dry	1	12/16/2014
Chlordane	ND	0.017		mg/Kg-dry	1	12/16/2014
delta-BHC	ND	0.0017		mg/Kg-dry	1	12/16/2014
Dieldrin	ND	0.0017		mg/Kg-dry	1	12/16/2014
Endosulfan I	ND	0.0017		mg/Kg-dry	1	12/16/2014
Endosulfan II	ND	0.0017		mg/Kg-dry	1	12/16/2014
Endosulfan sulfate	ND	0.0017		mg/Kg-dry	1	12/16/2014
Endrin	ND	0.0017		mg/Kg-dry	1	12/16/2014
Endrin aldehyde	ND	0.0017		mg/Kg-dry	1	12/16/2014
Endrin ketone	ND	0.0017		mg/Kg-dry	1	12/16/2014
gamma-BHC	ND	0.0017		mg/Kg-dry	1	12/16/2014
gamma-Chlordane	ND	0.0017		mg/Kg-dry	1	12/16/2014
Heptachlor	ND	0.0017		mg/Kg-dry	1	12/16/2014
Heptachlor epoxide	ND	0.0017		mg/Kg-dry	1	12/16/2014
Methoxychlor	ND	0.0017		mg/Kg-dry	1	12/16/2014
Toxaphene	ND	0.035		mg/Kg-dry	1	12/16/2014
Mercury						
	SW7471A			Prep Date: 12/18/2014		Analyst: LB
Mercury	ND	0.020		mg/Kg-dry	1	12/18/2014
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 12/16/2014		Analyst: JG
Aluminum	1500	220		mg/Kg-dry	100	12/16/2014
Antimony	ND	2.2		mg/Kg-dry	10	12/16/2014
Arsenic	3.6	1.1		mg/Kg-dry	10	12/16/2014
Barium	6.1	1.1		mg/Kg-dry	10	12/16/2014

Qualifiers:
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 * - Non-accredited parameter

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-004

Client Sample ID: RPM - SB - 29-2
 Collection Date: 12/12/2014 9:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/16/2014			Analyst: JG
Beryllium	ND	0.55		mg/Kg-dry	10	12/16/2014
Cadmium	ND	0.55		mg/Kg-dry	10	12/16/2014
Calcium	49000	660		mg/Kg-dry	100	12/16/2014
Chromium	4.1	1.1		mg/Kg-dry	10	12/16/2014
Cobalt	6.5	1.1		mg/Kg-dry	10	12/16/2014
Copper	7.2	2.8		mg/Kg-dry	10	12/16/2014
Iron	4900	330		mg/Kg-dry	100	12/16/2014
Lead	4.0	0.55		mg/Kg-dry	10	12/16/2014
Magnesium	26000	330		mg/Kg-dry	100	12/16/2014
Manganese	360	1.1		mg/Kg-dry	10	12/16/2014
Nickel	11	1.1		mg/Kg-dry	10	12/16/2014
Potassium	330	330		mg/Kg-dry	100	12/16/2014
Selenium	ND	0.55		mg/Kg-dry	10	12/16/2014
Silver	ND	1.1		mg/Kg-dry	10	12/16/2014
Sodium	ND	660		mg/Kg-dry	100	12/16/2014
Thallium	ND	1.1		mg/Kg-dry	10	12/16/2014
Vanadium	6.1	1.1		mg/Kg-dry	10	12/16/2014
Zinc	18	5.5		mg/Kg-dry	10	12/16/2014

Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 12/17/2014			Analyst: DM
Acenaphthene	ND	0.035		mg/Kg-dry	1	12/18/2014
Acenaphthylene	ND	0.035		mg/Kg-dry	1	12/18/2014
Aniline	ND	0.35		mg/Kg-dry	1	12/18/2014
Anthracene	ND	0.035		mg/Kg-dry	1	12/18/2014
Benz(a)anthracene	ND	0.035		mg/Kg-dry	1	12/18/2014
Benzidine	ND	0.35		mg/Kg-dry	1	12/18/2014
Benzo(a)pyrene	ND	0.035		mg/Kg-dry	1	12/18/2014
Benzo(b)fluoranthene	ND	0.035		mg/Kg-dry	1	12/18/2014
Benzo(g,h,i)perylene	ND	0.035		mg/Kg-dry	1	12/18/2014
Benzo(k)fluoranthene	ND	0.035		mg/Kg-dry	1	12/18/2014
Benzoic acid	ND	0.87		mg/Kg-dry	1	12/18/2014
Benzyl alcohol	ND	0.18		mg/Kg-dry	1	12/18/2014
Bis(2-chloroethoxy)methane	ND	0.18		mg/Kg-dry	1	12/18/2014
Bis(2-chloroethyl)ether	ND	0.18		mg/Kg-dry	1	12/18/2014
Bis(2-ethylhexyl)phthalate	ND	0.87		mg/Kg-dry	1	12/18/2014
4-Bromophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	12/18/2014
Butyl benzyl phthalate	ND	0.18		mg/Kg-dry	1	12/18/2014
Carbazole	ND	0.18		mg/Kg-dry	1	12/18/2014
4-Chloroaniline	ND	0.18		mg/Kg-dry	1	12/18/2014

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
 * - Non-accredited parameter H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-004

Client Sample ID: RPM - SB - 29-2
 Collection Date: 12/12/2014 9:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/17/2014		Analyst: DM
4-Chloro-3-methylphenol	ND	0.35		mg/Kg-dry	1	12/18/2014
2-Chloronaphthalene	ND	0.18		mg/Kg-dry	1	12/18/2014
2-Chlorophenol	ND	0.18		mg/Kg-dry	1	12/18/2014
4-Chlorophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	12/18/2014
Chrysene	ND	0.035		mg/Kg-dry	1	12/18/2014
Dibenz(a,h)anthracene	ND	0.035		mg/Kg-dry	1	12/18/2014
Dibenzofuran	ND	0.18		mg/Kg-dry	1	12/18/2014
1,2-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	12/18/2014
1,3-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	12/18/2014
1,4-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	12/18/2014
3,3'-Dichlorobenzidine	ND	0.18		mg/Kg-dry	1	12/18/2014
2,4-Dichlorophenol	ND	0.18		mg/Kg-dry	1	12/18/2014
Diethyl phthalate	ND	0.18		mg/Kg-dry	1	12/18/2014
2,4-Dimethylphenol	ND	0.18		mg/Kg-dry	1	12/18/2014
Dimethyl phthalate	ND	0.18		mg/Kg-dry	1	12/18/2014
4,6-Dinitro-2-methylphenol	ND	0.35		mg/Kg-dry	1	12/18/2014
2,4-Dinitrophenol	ND	0.87		mg/Kg-dry	1	12/18/2014
2,4-Dinitrotoluene	ND	0.035		mg/Kg-dry	1	12/18/2014
2,6-Dinitrotoluene	ND	0.035		mg/Kg-dry	1	12/18/2014
Di-n-butyl phthalate	ND	0.18		mg/Kg-dry	1	12/18/2014
Di-n-octyl phthalate	ND	0.18		mg/Kg-dry	1	12/18/2014
Fluoranthene	ND	0.035		mg/Kg-dry	1	12/18/2014
Fluorene	ND	0.035		mg/Kg-dry	1	12/18/2014
Hexachlorobenzene	ND	0.18		mg/Kg-dry	1	12/18/2014
Hexachlorobutadiene	ND	0.18		mg/Kg-dry	1	12/18/2014
Hexachlorocyclopentadiene	ND	0.18		mg/Kg-dry	1	12/18/2014
Hexachloroethane	ND	0.18		mg/Kg-dry	1	12/18/2014
Indeno(1,2,3-cd)pyrene	ND	0.035		mg/Kg-dry	1	12/18/2014
Isophorone	ND	0.18		mg/Kg-dry	1	12/18/2014
2-Methylnaphthalene	ND	0.18		mg/Kg-dry	1	12/18/2014
2-Methylphenol	ND	0.18		mg/Kg-dry	1	12/18/2014
4-Methylphenol	ND	0.18		mg/Kg-dry	1	12/18/2014
Naphthalene	ND	0.035		mg/Kg-dry	1	12/18/2014
2-Nitroaniline	ND	0.18		mg/Kg-dry	1	12/18/2014
3-Nitroaniline	ND	0.18		mg/Kg-dry	1	12/18/2014
4-Nitroaniline	ND	0.18		mg/Kg-dry	1	12/18/2014
2-Nitrophenol	ND	0.18		mg/Kg-dry	1	12/18/2014
4-Nitrophenol	ND	0.35		mg/Kg-dry	1	12/18/2014

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-004

Client Sample ID: RPM - SB - 29-2
 Collection Date: 12/12/2014 9:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/17/2014		Analyst: DM
Nitrobenzene	ND	0.035		mg/Kg-dry	1	12/18/2014
N-Nitrosodi-n-propylamine	ND	0.035		mg/Kg-dry	1	12/18/2014
N-Nitrosodimethylamine	ND	0.18		mg/Kg-dry	1	12/18/2014
N-Nitrosodiphenylamine	ND	0.035		mg/Kg-dry	1	12/18/2014
2, 2'-oxybis(1-Chloropropane)	ND	0.18		mg/Kg-dry	1	12/18/2014
Pentachlorophenol	ND	0.035		mg/Kg-dry	1	12/18/2014
Phenanthrene	ND	0.035		mg/Kg-dry	1	12/18/2014
Phenol	ND	0.18		mg/Kg-dry	1	12/18/2014
Pyrene	ND	0.035		mg/Kg-dry	1	12/18/2014
Pyridine	ND	0.70		mg/Kg-dry	1	12/18/2014
1,2,4-Trichlorobenzene	ND	0.18		mg/Kg-dry	1	12/18/2014
2,4,5-Trichlorophenol	ND	0.18		mg/Kg-dry	1	12/18/2014
2,4,6-Trichlorophenol	ND	0.18		mg/Kg-dry	1	12/18/2014
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/13/2014		Analyst: ERP
Acetone	ND	0.085		mg/Kg-dry	1	12/18/2014
Benzene	ND	0.0057		mg/Kg-dry	1	12/18/2014
Bromodichloromethane	ND	0.0057		mg/Kg-dry	1	12/18/2014
Bromoform	ND	0.0057		mg/Kg-dry	1	12/18/2014
Bromomethane	ND	0.011		mg/Kg-dry	1	12/18/2014
2-Butanone	ND	0.085		mg/Kg-dry	1	12/18/2014
Carbon disulfide	ND	0.057		mg/Kg-dry	1	12/18/2014
Carbon tetrachloride	ND	0.0057		mg/Kg-dry	1	12/18/2014
Chlorobenzene	ND	0.0057		mg/Kg-dry	1	12/18/2014
Chloroethane	ND	0.011		mg/Kg-dry	1	12/18/2014
Chloroform	ND	0.0057		mg/Kg-dry	1	12/18/2014
Chloromethane	ND	0.011		mg/Kg-dry	1	12/18/2014
Dibromochloromethane	ND	0.0057		mg/Kg-dry	1	12/18/2014
1,1-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/18/2014
1,2-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/18/2014
1,1-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/18/2014
cis-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/18/2014
trans-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/18/2014
1,2-Dichloropropane	ND	0.0057		mg/Kg-dry	1	12/18/2014
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/18/2014
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/18/2014
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	12/18/2014
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/18/2014
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/18/2014

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-004

Client Sample ID: RPM - SB - 29-2
 Collection Date: 12/12/2014 9:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 12/13/2014 Analyst: ERP			
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/18/2014
Methyl tert-butyl ether	ND	0.0057		mg/Kg-dry	1	12/18/2014
Styrene	ND	0.0057		mg/Kg-dry	1	12/18/2014
1,1,2,2-Tetrachloroethane	ND	0.0057		mg/Kg-dry	1	12/18/2014
Tetrachloroethene	ND	0.0057		mg/Kg-dry	1	12/18/2014
Toluene	ND	0.0057		mg/Kg-dry	1	12/18/2014
1,1,1-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/18/2014
1,1,2-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/18/2014
Trichloroethene	ND	0.0057		mg/Kg-dry	1	12/18/2014
Vinyl chloride	ND	0.0057		mg/Kg-dry	1	12/18/2014
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/18/2014
Cyanide, Total	SW9012A		Prep Date: 12/15/2014 Analyst: YZ			
Cyanide	ND	0.26		mg/Kg-dry	1	12/16/2014
pH (25 °C)	SW9045C		Prep Date: 12/17/2014 Analyst: RW			
pH	8.4			pH Units	1	12/17/2014
Percent Moisture	D2974		Prep Date: 12/15/2014 Analyst: RW			
Percent Moisture	5.6	0.2	*	wt%	1	12/16/2014

Qualifiers:
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 E - Value above quantitation range
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-005

Client Sample ID: RPM - SB - 31-1
 Collection Date: 12/12/2014 9:45:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A				Prep Date: 12/18/2014	Analyst: LB
Mercury	ND	0.022		mg/Kg-dry	1	12/18/2014
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 12/16/2014	Analyst: JG
Antimony	ND	2.2		mg/Kg-dry	10	12/16/2014
Arsenic	2.6	1.1		mg/Kg-dry	10	12/16/2014
Beryllium	ND	0.56		mg/Kg-dry	10	12/16/2014
Cadmium	ND	0.56		mg/Kg-dry	10	12/16/2014
Chromium	5.3	1.1		mg/Kg-dry	10	12/16/2014
Copper	ND	28		mg/Kg-dry	100	12/16/2014
Lead	26	0.56		mg/Kg-dry	10	12/16/2014
Nickel	4.4	1.1		mg/Kg-dry	10	12/16/2014
Selenium	ND	0.56		mg/Kg-dry	10	12/16/2014
Silver	ND	1.1		mg/Kg-dry	10	12/16/2014
Thallium	ND	1.1		mg/Kg-dry	10	12/16/2014
Zinc	24	5.6		mg/Kg-dry	10	12/16/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)				Prep Date: 12/17/2014	Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	12/18/2014
Acenaphthylene	ND	0.037		mg/Kg-dry	1	12/18/2014
Anthracene	ND	0.037		mg/Kg-dry	1	12/18/2014
Benzo(a)anthracene	ND	0.037		mg/Kg-dry	1	12/18/2014
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	12/18/2014
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	12/18/2014
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	12/18/2014
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	12/18/2014
Chrysene	ND	0.037		mg/Kg-dry	1	12/18/2014
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	12/18/2014
Fluoranthene	ND	0.037		mg/Kg-dry	1	12/18/2014
Fluorene	ND	0.037		mg/Kg-dry	1	12/18/2014
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	12/18/2014
Naphthalene	ND	0.037		mg/Kg-dry	1	12/18/2014
Phenanthrene	ND	0.037		mg/Kg-dry	1	12/18/2014
Pyrene	ND	0.037		mg/Kg-dry	1	12/18/2014
Percent Moisture	D2974				Prep Date: 12/15/2014	Analyst: RW
Percent Moisture	11.4	0.2	*	wt%	1	12/16/2014

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-006

Client Sample ID: RPM - SB - 31-2
 Collection Date: 12/12/2014 9:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs						
	SW8082 (SW3550B)			Prep Date: 12/16/2014		Analyst: GVC
Aroclor 1016	ND	0.098		mg/Kg-dry	1	12/17/2014
Aroclor 1221	ND	0.098		mg/Kg-dry	1	12/17/2014
Aroclor 1232	ND	0.098		mg/Kg-dry	1	12/17/2014
Aroclor 1242	ND	0.098		mg/Kg-dry	1	12/17/2014
Aroclor 1248	ND	0.098		mg/Kg-dry	1	12/17/2014
Aroclor 1254	ND	0.098		mg/Kg-dry	1	12/17/2014
Aroclor 1260	ND	0.098		mg/Kg-dry	1	12/17/2014
Pesticides						
	SW8081 (SW3550B)			Prep Date: 12/16/2014		Analyst: GVC
4,4'-DDD	ND	0.0020		mg/Kg-dry	1	12/17/2014
4,4'-DDE	ND	0.0020		mg/Kg-dry	1	12/17/2014
4,4'-DDT	ND	0.0020		mg/Kg-dry	1	12/17/2014
Aldrin	ND	0.0020		mg/Kg-dry	1	12/17/2014
alpha-BHC	ND	0.0020		mg/Kg-dry	1	12/17/2014
alpha-Chlordane	ND	0.0020		mg/Kg-dry	1	12/17/2014
beta-BHC	ND	0.0020		mg/Kg-dry	1	12/17/2014
Chlordane	ND	0.020		mg/Kg-dry	1	12/17/2014
delta-BHC	ND	0.0020		mg/Kg-dry	1	12/17/2014
Dieldrin	ND	0.0020		mg/Kg-dry	1	12/17/2014
Endosulfan I	ND	0.0020		mg/Kg-dry	1	12/17/2014
Endosulfan II	ND	0.0020		mg/Kg-dry	1	12/17/2014
Endosulfan sulfate	ND	0.0020		mg/Kg-dry	1	12/17/2014
Endrin	ND	0.0020		mg/Kg-dry	1	12/17/2014
Endrin aldehyde	ND	0.0020		mg/Kg-dry	1	12/17/2014
Endrin ketone	ND	0.0020		mg/Kg-dry	1	12/17/2014
gamma-BHC	ND	0.0020		mg/Kg-dry	1	12/17/2014
gamma-Chlordane	ND	0.0020		mg/Kg-dry	1	12/17/2014
Heptachlor	ND	0.0020		mg/Kg-dry	1	12/17/2014
Heptachlor epoxide	ND	0.0020		mg/Kg-dry	1	12/17/2014
Methoxychlor	ND	0.0020		mg/Kg-dry	1	12/17/2014
Toxaphene	ND	0.040		mg/Kg-dry	1	12/17/2014
Mercury						
	SW7471A			Prep Date: 12/18/2014		Analyst: LB
Mercury	ND	0.023		mg/Kg-dry	1	12/18/2014
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 12/16/2014		Analyst: JG
Aluminum	1300	240		mg/Kg-dry	100	12/16/2014
Antimony	ND	2.4		mg/Kg-dry	10	12/16/2014
Arsenic	1.4	1.2		mg/Kg-dry	10	12/16/2014
Barium	4.0	1.2		mg/Kg-dry	10	12/16/2014

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-006

Client Sample ID: RPM - SB - 31-2
 Collection Date: 12/12/2014 9:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/16/2014			Analyst: JG
Beryllium	ND	0.60		mg/Kg-dry	10	12/16/2014
Cadmium	ND	0.60		mg/Kg-dry	10	12/16/2014
Calcium	82000	720		mg/Kg-dry	100	12/16/2014
Chromium	3.8	1.2		mg/Kg-dry	10	12/16/2014
Cobalt	ND	12		mg/Kg-dry	100	12/16/2014
Copper	ND	3.0		mg/Kg-dry	10	12/16/2014
Iron	5500	360		mg/Kg-dry	100	12/16/2014
Lead	3.6	0.60		mg/Kg-dry	10	12/16/2014
Magnesium	39000	360		mg/Kg-dry	100	12/16/2014
Manganese	270	1.2		mg/Kg-dry	10	12/16/2014
Nickel	8.0	1.2		mg/Kg-dry	10	12/16/2014
Potassium	ND	360		mg/Kg-dry	100	12/16/2014
Selenium	ND	0.60		mg/Kg-dry	10	12/16/2014
Silver	ND	1.2		mg/Kg-dry	10	12/16/2014
Sodium	ND	720		mg/Kg-dry	100	12/16/2014
Thallium	ND	1.2		mg/Kg-dry	10	12/16/2014
Vanadium	11	1.2		mg/Kg-dry	10	12/16/2014
Zinc	21	6.0		mg/Kg-dry	10	12/16/2014

Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 12/17/2014			Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	12/18/2014
Acenaphthylene	ND	0.040		mg/Kg-dry	1	12/18/2014
Aniline	ND	0.41		mg/Kg-dry	1	12/18/2014
Anthracene	ND	0.040		mg/Kg-dry	1	12/18/2014
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	12/18/2014
Benzidine	ND	0.40		mg/Kg-dry	1	12/18/2014
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	12/18/2014
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	12/18/2014
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	12/18/2014
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	12/18/2014
Benzoic acid	ND	1.0		mg/Kg-dry	1	12/18/2014
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	12/18/2014
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	12/18/2014
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	12/18/2014
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	12/18/2014
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	12/18/2014
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	12/18/2014
Carbazole	ND	0.21		mg/Kg-dry	1	12/18/2014
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	12/18/2014

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
 * - Non-accredited parameter H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-006

Client Sample ID: RPM - SB - 31-2
 Collection Date: 12/12/2014 9:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/17/2014		Analyst: DM
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	12/18/2014
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	12/18/2014
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	12/18/2014
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	12/18/2014
Chrysene	ND	0.040		mg/Kg-dry	1	12/18/2014
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	12/18/2014
Dibenzofuran	ND	0.21		mg/Kg-dry	1	12/18/2014
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	12/18/2014
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	12/18/2014
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	12/18/2014
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	12/18/2014
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	12/18/2014
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	12/18/2014
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	12/18/2014
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	12/18/2014
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	12/18/2014
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	12/18/2014
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	12/18/2014
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	12/18/2014
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	12/18/2014
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	12/18/2014
Fluoranthene	ND	0.040		mg/Kg-dry	1	12/18/2014
Fluorene	ND	0.040		mg/Kg-dry	1	12/18/2014
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	12/18/2014
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	12/18/2014
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	12/18/2014
Hexachloroethane	ND	0.21		mg/Kg-dry	1	12/18/2014
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	12/18/2014
Isophorone	ND	0.21		mg/Kg-dry	1	12/18/2014
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	12/18/2014
2-Methylphenol	ND	0.21		mg/Kg-dry	1	12/18/2014
4-Methylphenol	ND	0.21		mg/Kg-dry	1	12/18/2014
Naphthalene	ND	0.040		mg/Kg-dry	1	12/18/2014
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	12/18/2014
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	12/18/2014
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	12/18/2014
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	12/18/2014
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	12/18/2014

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 HT - Sample received past holding time
 * - Non-accredited parameter

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-006

Client Sample ID: RPM - SB - 31-2
 Collection Date: 12/12/2014 9:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/17/2014		Analyst: DM
Nitrobenzene	ND	0.040		mg/Kg-dry	1	12/18/2014
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	12/18/2014
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	12/18/2014
N-Nitrosodiphenylamine	ND	0.040		mg/Kg-dry	1	12/18/2014
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	12/18/2014
Pentachlorophenol	ND	0.040		mg/Kg-dry	1	12/18/2014
Phenanthrene	ND	0.040		mg/Kg-dry	1	12/18/2014
Phenol	ND	0.21		mg/Kg-dry	1	12/18/2014
Pyrene	ND	0.040		mg/Kg-dry	1	12/18/2014
Pyridine	ND	0.82		mg/Kg-dry	1	12/18/2014
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	12/18/2014
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	12/18/2014
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	12/18/2014
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/13/2014		Analyst: ERP
Acetone	ND	0.087		mg/Kg-dry	1	12/18/2014
Benzene	ND	0.0058		mg/Kg-dry	1	12/18/2014
Bromodichloromethane	ND	0.0058		mg/Kg-dry	1	12/18/2014
Bromoform	ND	0.0058		mg/Kg-dry	1	12/18/2014
Bromomethane	ND	0.012		mg/Kg-dry	1	12/18/2014
2-Butanone	ND	0.087		mg/Kg-dry	1	12/18/2014
Carbon disulfide	ND	0.058		mg/Kg-dry	1	12/18/2014
Carbon tetrachloride	ND	0.0058		mg/Kg-dry	1	12/18/2014
Chlorobenzene	ND	0.0058		mg/Kg-dry	1	12/18/2014
Chloroethane	ND	0.012		mg/Kg-dry	1	12/18/2014
Chloroform	ND	0.0058		mg/Kg-dry	1	12/18/2014
Chloromethane	ND	0.012		mg/Kg-dry	1	12/18/2014
Dibromochloromethane	ND	0.0058		mg/Kg-dry	1	12/18/2014
1,1-Dichloroethane	ND	0.0058		mg/Kg-dry	1	12/18/2014
1,2-Dichloroethane	ND	0.0058		mg/Kg-dry	1	12/18/2014
1,1-Dichloroethene	ND	0.0058		mg/Kg-dry	1	12/18/2014
cis-1,2-Dichloroethene	0.021	0.0058		mg/Kg-dry	1	12/18/2014
trans-1,2-Dichloroethene	ND	0.0058		mg/Kg-dry	1	12/18/2014
1,2-Dichloropropane	ND	0.0058		mg/Kg-dry	1	12/18/2014
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/18/2014
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/18/2014
Ethylbenzene	ND	0.0058		mg/Kg-dry	1	12/18/2014
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/18/2014
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/18/2014

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-006

Client Sample ID: RPM - SB - 31-2
 Collection Date: 12/12/2014 9:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 12/13/2014 Analyst: ERP			
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/18/2014
Methyl tert-butyl ether	ND	0.0058		mg/Kg-dry	1	12/18/2014
Styrene	ND	0.0058		mg/Kg-dry	1	12/18/2014
1,1,2,2-Tetrachloroethane	ND	0.0058		mg/Kg-dry	1	12/18/2014
Tetrachloroethene	ND	0.0058		mg/Kg-dry	1	12/18/2014
Toluene	ND	0.0058		mg/Kg-dry	1	12/18/2014
1,1,1-Trichloroethane	ND	0.0058		mg/Kg-dry	1	12/18/2014
1,1,2-Trichloroethane	ND	0.0058		mg/Kg-dry	1	12/18/2014
Trichloroethene	ND	0.0058		mg/Kg-dry	1	12/18/2014
Vinyl chloride	ND	0.0058		mg/Kg-dry	1	12/18/2014
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/18/2014
Cyanide, Total	SW9012A		Prep Date: 12/15/2014 Analyst: YZ			
Cyanide	ND	0.31		mg/Kg-dry	1	12/16/2014
pH (25 °C)	SW9045C		Prep Date: 12/17/2014 Analyst: RW			
pH	8.4			pH Units	1	12/17/2014
Percent Moisture	D2974		Prep Date: 12/15/2014 Analyst: RW			
Percent Moisture	19.1	0.2	*	wt%	1	12/16/2014

Qualifiers:
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 HT - Sample received past holding time
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-007

Client Sample ID: RPM - SB - 33-1
 Collection Date: 12/12/2014 10:15:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 12/18/2014 Analyst: LB
Mercury	0.20	0.021		mg/Kg-dry	1	12/18/2014
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/17/2014 Analyst: JG
Arsenic	5.1	1.1		mg/Kg-dry	10	12/17/2014
Barium	140	1.1		mg/Kg-dry	10	12/18/2014
Cadmium	ND	0.53		mg/Kg-dry	10	12/18/2014
Chromium	3.1	1.1		mg/Kg-dry	10	12/17/2014
Lead	160	0.53		mg/Kg-dry	10	12/17/2014
Selenium	ND	1.1		mg/Kg-dry	10	12/17/2014
Silver	ND	1.1		mg/Kg-dry	10	12/17/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)					Prep Date: 12/17/2014 Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	12/18/2014
Acenaphthylene	ND	0.040		mg/Kg-dry	1	12/18/2014
Anthracene	ND	0.040		mg/Kg-dry	1	12/18/2014
Benzo(a)anthracene	0.044	0.040		mg/Kg-dry	1	12/18/2014
Benzo(a)pyrene	0.043	0.040		mg/Kg-dry	1	12/18/2014
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	12/18/2014
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	12/18/2014
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	12/18/2014
Chrysene	0.053	0.040		mg/Kg-dry	1	12/18/2014
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	12/18/2014
Fluoranthene	0.086	0.040		mg/Kg-dry	1	12/18/2014
Fluorene	ND	0.040		mg/Kg-dry	1	12/18/2014
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	12/18/2014
Naphthalene	ND	0.040		mg/Kg-dry	1	12/18/2014
Phenanthrene	0.066	0.040		mg/Kg-dry	1	12/18/2014
Pyrene	0.088	0.040		mg/Kg-dry	1	12/18/2014
Percent Moisture	D2974					Prep Date: 12/15/2014 Analyst: RW
Percent Moisture	17.9	0.2	*	wt%	1	12/16/2014

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-008

Client Sample ID: RPM - SB - 33-2
 Collection Date: 12/12/2014 10:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 12/18/2014 Analyst: LB
Mercury	ND	0.023		mg/Kg-dry	1	12/18/2014
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/17/2014 Analyst: JG
Arsenic	1.3	1.2		mg/Kg-dry	10	12/17/2014
Barium	3.2	1.2		mg/Kg-dry	10	12/18/2014
Cadmium	ND	0.61		mg/Kg-dry	10	12/18/2014
Chromium	2.0	1.2		mg/Kg-dry	10	12/17/2014
Lead	2.3	0.61		mg/Kg-dry	10	12/17/2014
Selenium	ND	1.2		mg/Kg-dry	10	12/17/2014
Silver	ND	1.2		mg/Kg-dry	10	12/17/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)					Prep Date: 12/17/2014 Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	12/18/2014
Acenaphthylene	ND	0.039		mg/Kg-dry	1	12/18/2014
Anthracene	ND	0.039		mg/Kg-dry	1	12/18/2014
Benzo(a)anthracene	ND	0.039		mg/Kg-dry	1	12/18/2014
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	12/18/2014
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	12/18/2014
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	12/18/2014
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	12/18/2014
Chrysene	ND	0.039		mg/Kg-dry	1	12/18/2014
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	12/18/2014
Fluoranthene	ND	0.039		mg/Kg-dry	1	12/18/2014
Fluorene	ND	0.039		mg/Kg-dry	1	12/18/2014
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	12/18/2014
Naphthalene	ND	0.039		mg/Kg-dry	1	12/18/2014
Phenanthrene	ND	0.039		mg/Kg-dry	1	12/18/2014
Pyrene	ND	0.039		mg/Kg-dry	1	12/18/2014
Percent Moisture	D2974					Prep Date: 12/15/2014 Analyst: RW
Percent Moisture	16.7	0.2	*	wt%	1	12/16/2014

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-009

Client Sample ID: RPM - SB - 35-1
 Collection Date: 12/12/2014 11:00:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 12/18/2014 Analyst: LB
Mercury	0.28	0.022		mg/Kg-dry	1	12/18/2014
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/17/2014 Analyst: JG
Arsenic	10	1.3		mg/Kg-dry	10	12/17/2014
Barium	290	1.3		mg/Kg-dry	10	12/18/2014
Cadmium	ND	0.66		mg/Kg-dry	10	12/18/2014
Chromium	10	1.3		mg/Kg-dry	10	12/17/2014
Lead	250	0.66		mg/Kg-dry	10	12/17/2014
Selenium	ND	1.3		mg/Kg-dry	10	12/17/2014
Silver	ND	1.3		mg/Kg-dry	10	12/17/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)					Prep Date: 12/17/2014 Analyst: DM
Acenaphthene	ND	0.041		mg/Kg-dry	1	12/18/2014
Acenaphthylene	ND	0.041		mg/Kg-dry	1	12/18/2014
Anthracene	0.15	0.041		mg/Kg-dry	1	12/18/2014
Benzo(a)anthracene	0.77	0.041		mg/Kg-dry	1	12/18/2014
Benzo(a)pyrene	0.75	0.041		mg/Kg-dry	1	12/18/2014
Benzo(b)fluoranthene	0.80	0.041		mg/Kg-dry	1	12/18/2014
Benzo(g,h,i)perylene	0.50	0.041		mg/Kg-dry	1	12/18/2014
Benzo(k)fluoranthene	0.57	0.041		mg/Kg-dry	1	12/18/2014
Chrysene	0.93	0.041		mg/Kg-dry	1	12/18/2014
Dibenz(a,h)anthracene	0.26	0.041		mg/Kg-dry	1	12/18/2014
Fluoranthene	1.4	0.041		mg/Kg-dry	1	12/18/2014
Fluorene	0.043	0.041		mg/Kg-dry	1	12/18/2014
Indeno(1,2,3-cd)pyrene	0.43	0.041		mg/Kg-dry	1	12/18/2014
Naphthalene	ND	0.041		mg/Kg-dry	1	12/18/2014
Phenanthrene	0.78	0.041		mg/Kg-dry	1	12/18/2014
Pyrene	1.3	0.041		mg/Kg-dry	1	12/18/2014
Percent Moisture	D2974					Prep Date: 12/15/2014 Analyst: RW
Percent Moisture	19.9	0.2	*	wt%	1	12/16/2014

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-010

Client Sample ID: RPM - SB - 35-2
 Collection Date: 12/12/2014 11:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs						
	SW8082 (SW3550B)			Prep Date: 12/16/2014 Analyst: GVC		
Aroclor 1016	ND	0.092		mg/Kg-dry	1	12/17/2014
Aroclor 1221	ND	0.092		mg/Kg-dry	1	12/17/2014
Aroclor 1232	ND	0.092		mg/Kg-dry	1	12/17/2014
Aroclor 1242	ND	0.092		mg/Kg-dry	1	12/17/2014
Aroclor 1248	ND	0.092		mg/Kg-dry	1	12/17/2014
Aroclor 1254	ND	0.092		mg/Kg-dry	1	12/17/2014
Aroclor 1260	ND	0.092		mg/Kg-dry	1	12/17/2014
Pesticides						
	SW8081 (SW3550B)			Prep Date: 12/16/2014 Analyst: GVC		
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	12/17/2014
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	12/17/2014
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	12/17/2014
Aldrin	ND	0.0018		mg/Kg-dry	1	12/17/2014
alpha-BHC	ND	0.0018		mg/Kg-dry	1	12/17/2014
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	12/17/2014
beta-BHC	ND	0.0018		mg/Kg-dry	1	12/17/2014
Chlordane	ND	0.018		mg/Kg-dry	1	12/17/2014
delta-BHC	ND	0.0018		mg/Kg-dry	1	12/17/2014
Dieldrin	ND	0.0018		mg/Kg-dry	1	12/17/2014
Endosulfan I	ND	0.0018		mg/Kg-dry	1	12/17/2014
Endosulfan II	ND	0.0018		mg/Kg-dry	1	12/17/2014
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	12/17/2014
Endrin	ND	0.0018		mg/Kg-dry	1	12/17/2014
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	12/17/2014
Endrin ketone	ND	0.0018		mg/Kg-dry	1	12/17/2014
gamma-BHC	ND	0.0018		mg/Kg-dry	1	12/17/2014
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	12/17/2014
Heptachlor	ND	0.0018		mg/Kg-dry	1	12/17/2014
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	12/17/2014
Methoxychlor	ND	0.0018		mg/Kg-dry	1	12/17/2014
Toxaphene	ND	0.038		mg/Kg-dry	1	12/17/2014
Mercury						
	SW7471A			Prep Date: 12/18/2014 Analyst: LB		
Mercury	ND	0.021		mg/Kg-dry	1	12/18/2014
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 12/16/2014 Analyst: JG		
Aluminum	1300	210		mg/Kg-dry	100	12/16/2014
Antimony	ND	2.1		mg/Kg-dry	10	12/16/2014
Arsenic	1.8	1.1		mg/Kg-dry	10	12/16/2014
Barium	4.1	1.1		mg/Kg-dry	10	12/16/2014

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 HT - Sample received past holding time
 * - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-010

Client Sample ID: RPM - SB - 35-2
 Collection Date: 12/12/2014 11:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/16/2014			Analyst: JG
Beryllium	ND	0.53		mg/Kg-dry	10	12/16/2014
Cadmium	ND	0.53		mg/Kg-dry	10	12/16/2014
Calcium	30000	630		mg/Kg-dry	100	12/16/2014
Chromium	4.3	1.1		mg/Kg-dry	10	12/16/2014
Cobalt	ND	11		mg/Kg-dry	100	12/16/2014
Copper	ND	26		mg/Kg-dry	100	12/16/2014
Iron	4500	320		mg/Kg-dry	100	12/16/2014
Lead	3.6	0.53		mg/Kg-dry	10	12/16/2014
Magnesium	14000	320		mg/Kg-dry	100	12/16/2014
Manganese	200	1.1		mg/Kg-dry	10	12/16/2014
Nickel	5.6	1.1		mg/Kg-dry	10	12/16/2014
Potassium	ND	320		mg/Kg-dry	100	12/16/2014
Selenium	0.75	0.53		mg/Kg-dry	10	12/16/2014
Silver	ND	1.1		mg/Kg-dry	10	12/16/2014
Sodium	ND	630		mg/Kg-dry	100	12/16/2014
Thallium	ND	1.1		mg/Kg-dry	10	12/16/2014
Vanadium	6.6	1.1		mg/Kg-dry	10	12/16/2014
Zinc	14	5.3		mg/Kg-dry	10	12/16/2014

Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 12/17/2014			Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	12/18/2014
Acenaphthylene	ND	0.038		mg/Kg-dry	1	12/18/2014
Aniline	ND	0.38		mg/Kg-dry	1	12/18/2014
Anthracene	ND	0.038		mg/Kg-dry	1	12/18/2014
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	12/18/2014
Benzidine	ND	0.38		mg/Kg-dry	1	12/18/2014
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	12/18/2014
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	12/18/2014
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	12/18/2014
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	12/18/2014
Benzoic acid	ND	0.95		mg/Kg-dry	1	12/18/2014
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	12/18/2014
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	12/18/2014
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	12/18/2014
Bis(2-ethylhexyl)phthalate	ND	0.95		mg/Kg-dry	1	12/18/2014
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	12/18/2014
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	12/18/2014
Carbazole	ND	0.19		mg/Kg-dry	1	12/18/2014
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	12/18/2014

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-010

Client Sample ID: RPM - SB - 35-2
 Collection Date: 12/12/2014 11:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/17/2014		Analyst: DM
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	12/18/2014
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	12/18/2014
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	12/18/2014
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	12/18/2014
Chrysene	ND	0.038		mg/Kg-dry	1	12/18/2014
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	12/18/2014
Dibenzofuran	ND	0.19		mg/Kg-dry	1	12/18/2014
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	12/18/2014
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	12/18/2014
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	12/18/2014
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	12/18/2014
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	12/18/2014
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	12/18/2014
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	12/18/2014
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	12/18/2014
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	12/18/2014
2,4-Dinitrophenol	ND	0.95		mg/Kg-dry	1	12/18/2014
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	12/18/2014
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	12/18/2014
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	12/18/2014
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	12/18/2014
Fluoranthene	ND	0.038		mg/Kg-dry	1	12/18/2014
Fluorene	ND	0.038		mg/Kg-dry	1	12/18/2014
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	12/18/2014
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	12/18/2014
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	12/18/2014
Hexachloroethane	ND	0.19		mg/Kg-dry	1	12/18/2014
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	12/18/2014
Isophorone	ND	0.19		mg/Kg-dry	1	12/18/2014
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	12/18/2014
2-Methylphenol	ND	0.19		mg/Kg-dry	1	12/18/2014
4-Methylphenol	ND	0.19		mg/Kg-dry	1	12/18/2014
Naphthalene	ND	0.038		mg/Kg-dry	1	12/18/2014
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	12/18/2014
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	12/18/2014
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	12/18/2014
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	12/18/2014
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	12/18/2014

Qualifiers:
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Date Reported: February 12, 2015

Date Printed: February 12, 2015

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-010

Client Sample ID: RPM - SB - 35-2
 Collection Date: 12/12/2014 11:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/17/2014		Analyst: DM
Nitrobenzene	ND	0.038		mg/Kg-dry	1	12/18/2014
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	12/18/2014
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	12/18/2014
N-Nitrosodiphenylamine	ND	0.038		mg/Kg-dry	1	12/18/2014
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	12/18/2014
Pentachlorophenol	ND	0.038		mg/Kg-dry	1	12/18/2014
Phenanthrene	ND	0.038		mg/Kg-dry	1	12/18/2014
Phenol	ND	0.19		mg/Kg-dry	1	12/18/2014
Pyrene	ND	0.038		mg/Kg-dry	1	12/18/2014
Pyridine	ND	0.76		mg/Kg-dry	1	12/18/2014
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	12/18/2014
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	12/18/2014
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	12/18/2014
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/13/2014		Analyst: ERP
Acetone	ND	0.077		mg/Kg-dry	1	12/18/2014
Benzene	ND	0.0051		mg/Kg-dry	1	12/18/2014
Bromodichloromethane	ND	0.0051		mg/Kg-dry	1	12/18/2014
Bromoform	ND	0.0051		mg/Kg-dry	1	12/18/2014
Bromomethane	ND	0.010		mg/Kg-dry	1	12/18/2014
2-Butanone	ND	0.077		mg/Kg-dry	1	12/18/2014
Carbon disulfide	ND	0.051		mg/Kg-dry	1	12/18/2014
Carbon tetrachloride	ND	0.0051		mg/Kg-dry	1	12/18/2014
Chlorobenzene	ND	0.0051		mg/Kg-dry	1	12/18/2014
Chloroethane	ND	0.010		mg/Kg-dry	1	12/18/2014
Chloroform	ND	0.0051		mg/Kg-dry	1	12/18/2014
Chloromethane	ND	0.010		mg/Kg-dry	1	12/18/2014
Dibromochloromethane	ND	0.0051		mg/Kg-dry	1	12/18/2014
1,1-Dichloroethane	ND	0.0051		mg/Kg-dry	1	12/18/2014
1,2-Dichloroethane	ND	0.0051		mg/Kg-dry	1	12/18/2014
1,1-Dichloroethene	ND	0.0051		mg/Kg-dry	1	12/18/2014
cis-1,2-Dichloroethene	ND	0.0051		mg/Kg-dry	1	12/18/2014
trans-1,2-Dichloroethene	ND	0.0051		mg/Kg-dry	1	12/18/2014
1,2-Dichloropropane	ND	0.0051		mg/Kg-dry	1	12/18/2014
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	12/18/2014
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	12/18/2014
Ethylbenzene	ND	0.0051		mg/Kg-dry	1	12/18/2014
2-Hexanone	ND	0.020		mg/Kg-dry	1	12/18/2014
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	12/18/2014

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-010

Client Sample ID: RPM - SB - 35-2
 Collection Date: 12/12/2014 11:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 12/13/2014 Analyst: ERP			
Methylene chloride	ND	0.010		mg/Kg-dry	1	12/18/2014
Methyl tert-butyl ether	ND	0.0051		mg/Kg-dry	1	12/18/2014
Styrene	ND	0.0051		mg/Kg-dry	1	12/18/2014
1,1,2,2-Tetrachloroethane	ND	0.0051		mg/Kg-dry	1	12/18/2014
Tetrachloroethene	ND	0.0051		mg/Kg-dry	1	12/18/2014
Toluene	ND	0.0051		mg/Kg-dry	1	12/18/2014
1,1,1-Trichloroethane	ND	0.0051		mg/Kg-dry	1	12/18/2014
1,1,2-Trichloroethane	ND	0.0051		mg/Kg-dry	1	12/18/2014
Trichloroethene	ND	0.0051		mg/Kg-dry	1	12/18/2014
Vinyl chloride	ND	0.0051		mg/Kg-dry	1	12/18/2014
Xylenes, Total	ND	0.015		mg/Kg-dry	1	12/18/2014
Cyanide, Total	SW9012A		Prep Date: 12/15/2014 Analyst: YZ			
Cyanide	ND	0.29		mg/Kg-dry	1	12/16/2014
pH (25 °C)	SW9045C		Prep Date: 12/17/2014 Analyst: RW			
pH	7.9			pH Units	1	12/17/2014
Percent Moisture	D2974		Prep Date: 12/15/2014 Analyst: RW			
Percent Moisture	13.5	0.2	*	wt%	1	12/16/2014

Qualifiers:
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-011

Client Sample ID: RPM - SB - 37-1
 Collection Date: 12/12/2014 11:35:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A				Prep Date: 12/18/2014	Analyst: LB
Mercury	ND	0.020		mg/Kg-dry	1	12/18/2014
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 12/16/2014	Analyst: JG
Antimony	ND	2.2		mg/Kg-dry	10	12/16/2014
Arsenic	2.8	1.1		mg/Kg-dry	10	12/16/2014
Beryllium	ND	0.55		mg/Kg-dry	10	12/16/2014
Cadmium	ND	0.55		mg/Kg-dry	10	12/16/2014
Chromium	7.3	1.1		mg/Kg-dry	10	12/16/2014
Copper	ND	27		mg/Kg-dry	100	12/16/2014
Lead	6.4	0.55		mg/Kg-dry	10	12/16/2014
Nickel	4.8	1.1		mg/Kg-dry	10	12/16/2014
Selenium	ND	0.55		mg/Kg-dry	10	12/16/2014
Silver	ND	1.1		mg/Kg-dry	10	12/16/2014
Thallium	ND	1.1		mg/Kg-dry	10	12/16/2014
Zinc	23	5.5		mg/Kg-dry	10	12/16/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)				Prep Date: 12/17/2014	Analyst: DM
Acenaphthene	ND	0.036		mg/Kg-dry	1	12/18/2014
Acenaphthylene	ND	0.036		mg/Kg-dry	1	12/18/2014
Anthracene	ND	0.036		mg/Kg-dry	1	12/18/2014
Benzo(a)anthracene	ND	0.036		mg/Kg-dry	1	12/18/2014
Benzo(a)pyrene	ND	0.036		mg/Kg-dry	1	12/18/2014
Benzo(b)fluoranthene	ND	0.036		mg/Kg-dry	1	12/18/2014
Benzo(g,h,i)perylene	ND	0.036		mg/Kg-dry	1	12/18/2014
Benzo(k)fluoranthene	ND	0.036		mg/Kg-dry	1	12/18/2014
Chrysene	ND	0.036		mg/Kg-dry	1	12/18/2014
Dibenz(a,h)anthracene	ND	0.036		mg/Kg-dry	1	12/18/2014
Fluoranthene	ND	0.036		mg/Kg-dry	1	12/18/2014
Fluorene	ND	0.036		mg/Kg-dry	1	12/18/2014
Indeno(1,2,3-cd)pyrene	ND	0.036		mg/Kg-dry	1	12/18/2014
Naphthalene	ND	0.036		mg/Kg-dry	1	12/18/2014
Phenanthrene	ND	0.036		mg/Kg-dry	1	12/18/2014
Pyrene	ND	0.036		mg/Kg-dry	1	12/18/2014
Percent Moisture	D2974				Prep Date: 12/15/2014	Analyst: RW
Percent Moisture	9.0	0.2	*	wt%	1	12/16/2014

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 14120373 Revision 1
 Project: RPM, Broadway & Berwyn
 Lab ID: 14120373-012

Client Sample ID: RPM - SB - 37-2
 Collection Date: 12/12/2014 11:45:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 12/18/2014 Analyst: LB
Mercury	ND	0.019		mg/Kg-dry	1	12/18/2014
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/17/2014 Analyst: JG
Arsenic	1.6	1.1		mg/Kg-dry	10	12/17/2014
Barium	3.9	1.1		mg/Kg-dry	10	12/18/2014
Cadmium	ND	0.56		mg/Kg-dry	10	12/18/2014
Chromium	1.9	1.1		mg/Kg-dry	10	12/17/2014
Lead	2.9	0.56		mg/Kg-dry	10	12/17/2014
Selenium	ND	1.1		mg/Kg-dry	10	12/17/2014
Silver	ND	1.1		mg/Kg-dry	10	12/17/2014
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)					Prep Date: 12/17/2014 Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	12/18/2014
Acenaphthylene	ND	0.040		mg/Kg-dry	1	12/18/2014
Anthracene	ND	0.040		mg/Kg-dry	1	12/18/2014
Benzo(a)anthracene	ND	0.040		mg/Kg-dry	1	12/18/2014
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	12/18/2014
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	12/18/2014
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	12/18/2014
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	12/18/2014
Chrysene	ND	0.040		mg/Kg-dry	1	12/18/2014
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	12/18/2014
Fluoranthene	ND	0.040		mg/Kg-dry	1	12/18/2014
Fluorene	ND	0.040		mg/Kg-dry	1	12/18/2014
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	12/18/2014
Naphthalene	ND	0.040		mg/Kg-dry	1	12/18/2014
Phenanthrene	ND	0.040		mg/Kg-dry	1	12/18/2014
Pyrene	ND	0.040		mg/Kg-dry	1	12/18/2014
Percent Moisture	D2974					Prep Date: 12/15/2014 Analyst: RW
Percent Moisture	17.4	0.2	*	wt%	1	12/16/2014

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
 * - Non-accredited parameter H - Holding time exceeded

Company: <u>GSG</u>		Client Tracking No.:								
Project Number:		Quote No.:								
Project Name: <u>RPm</u>										
Project Location: <u>Broadway & Bryn Mawr</u>										
Sampler(s): <u>TC</u>										
Report To: <u>Ted Casney</u>		Turn Around:								
Phone: <u>312 733 6262</u>										
Fax: <u>312 733 5012</u>										
e-mail: <u>TCasney@GSG-Consul</u>										
QC Level: 1 2 3 4										
Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp	Grab	Preserv.	No. of Containers	Remarks	Lab No.:	am/pm
<u>RPm-SB-27-1</u>	<u>12/12/14</u>	<u>845</u>	<u>Soil</u>	<u>X</u>	<u>X</u>		<u>1</u>	<u>X</u>	<u>001</u>	
<u>RPm-SB-27-2</u>		<u>850</u>		<u>X</u>	<u>X</u>		<u>4</u>	<u>X</u>	<u>002</u>	
<u>RPm-SB-29-1</u>		<u>910</u>		<u>X</u>	<u>X</u>		<u>1</u>	<u>X</u>	<u>003</u>	
<u>RPm-SB-29-2</u>		<u>920</u>		<u>X</u>	<u>X</u>		<u>4</u>	<u>X</u>	<u>004</u>	
<u>RPm-SB-31-1</u>		<u>945</u>		<u>X</u>	<u>X</u>		<u>1</u>	<u>X</u>	<u>005</u>	
<u>RPm-SB-31-2</u>		<u>950</u>		<u>X</u>	<u>X</u>		<u>4</u>	<u>X</u>	<u>006</u>	
<u>RPm-SB-33-1</u>		<u>1015</u>		<u>X</u>	<u>X</u>		<u>1</u>	<u>X</u>	<u>007</u>	
<u>RPm-SB-33-2</u>		<u>1020</u>		<u>X</u>	<u>X</u>		<u>1</u>	<u>X</u>	<u>008</u>	
<u>RPm-SB-35-1</u>		<u>1100</u>		<u>X</u>	<u>X</u>		<u>1</u>	<u>X</u>	<u>009</u>	
<u>RPm-SB-35-2</u>		<u>1110</u>		<u>X</u>	<u>X</u>		<u>4</u>	<u>X</u>	<u>010</u>	
<u>RPm-SB-37-1</u>		<u>1135</u>		<u>X</u>	<u>X</u>		<u>1</u>	<u>X</u>	<u>011</u>	
<u>RPm-SB-37-2</u>		<u>1145</u>		<u>X</u>	<u>X</u>		<u>1</u>	<u>X</u>	<u>012</u>	
Laboratory Work Order No.: <u>14120373</u> Received on Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Temperature: <u>3.8</u> °C										

Relinquished by: (Signature) [Signature] Date/Time: 12/12/14 15:15 Comments: SAFETY LOCK

Received by: (Signature) [Signature] Date/Time: 6/24/14 10:00

Relinquished by: (Signature) _____ Date/Time: _____

Received by: (Signature) _____ Date/Time: _____

Relinquished by: (Signature) _____ Date/Time: _____

Received by: (Signature) _____ Date/Time: _____

Sample Receipt Checklist

Client Name GSG

Date and Time Received: 12/12/2014 3:15:00 PM

Work Order Number 14120373

Received by: JOK

Checklist completed by: [Signature] 12/12/14
Signature Date

Reviewed by: [Initials] 12/16/14
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature 3.8 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: _____

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

STAT Analysis Corporation

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February 12, 2015

GSG Consultants, Inc.
855 W. Adams
Chicago, IL 60607

Telephone: (312) 733-6262
Fax: (312) 733-5612

Analytical Report for STAT Work Order: 15010403 Revision 2

RE: CTARPM, Lawrence to Argyle

Dear Ted Cagney:

STAT Analysis received 15 samples for the referenced project on 1/20/2015 4:55:00 PM. The analytical results are presented in the following report.

This report is revised to reflect changes made after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Victoria Young
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: GSG Consultants, Inc.
Project: CTARPM, Lawrence to Argyle
Work Order: 15010403 Revision 2

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
15010403-001A	RPM-SB-16-1		1/20/2015 10:10:00 AM	1/20/2015
15010403-001B	RPM-SB-16-1		1/20/2015 10:10:00 AM	1/20/2015
15010403-002A	RPM-SB-16-2		1/20/2015 10:15:00 AM	1/20/2015
15010403-002B	RPM-SB-16-2		1/20/2015 10:15:00 AM	1/20/2015
15010403-003A	RPM-SB-16-3		1/20/2015 10:25:00 AM	1/20/2015
15010403-004A	RPM-SB-18-1		1/20/2015 10:35:00 AM	1/20/2015
15010403-004B	RPM-SB-18-1		1/20/2015 10:35:00 AM	1/20/2015
15010403-005A	RPM-SB-18-2		1/20/2015 10:45:00 AM	1/20/2015
15010403-005B	RPM-SB-18-2		1/20/2015 10:45:00 AM	1/20/2015
15010403-006A	RPM-SB-18-3		1/20/2015 10:55:00 AM	1/20/2015
15010403-007A	RPM-SB-19-1		1/20/2015 11:10:00 AM	1/20/2015
15010403-007B	RPM-SB-19-1		1/20/2015 11:10:00 AM	1/20/2015
15010403-008A	RPM-SB-19-2		1/20/2015 11:20:00 AM	1/20/2015
15010403-008B	RPM-SB-19-2		1/20/2015 11:20:00 AM	1/20/2015
15010403-009A	RPM-SB-19-3		1/20/2015 11:25:00 AM	1/20/2015
15010403-010A	RPM-SB-21-1		1/20/2015 11:40:00 AM	1/20/2015
15010403-010B	RPM-SB-21-1		1/20/2015 11:40:00 AM	1/20/2015
15010403-011A	RPM-SB-21-2		1/20/2015 11:50:00 AM	1/20/2015
15010403-011B	RPM-SB-21-2		1/20/2015 11:50:00 AM	1/20/2015
15010403-012A	RPM-SB-21-3		1/20/2015 11:55:00 AM	1/20/2015
15010403-013A	RPM-SB-23-1		1/20/2015 12:10:00 PM	1/20/2015
15010403-013B	RPM-SB-23-1		1/20/2015 12:10:00 PM	1/20/2015
15010403-014A	RPM-SB-23-2		1/20/2015 12:15:00 PM	1/20/2015
15010403-014B	RPM-SB-23-2		1/20/2015 12:15:00 PM	1/20/2015
15010403-015A	RPM-SB-23-3		1/20/2015 12:25:00 PM	1/20/2015

CLIENT: GSG Consultants, Inc.
Project: CTARPM, Lawrence to Argyle
Work Order: 15010403 Revision 2

CASE NARRATIVE

The VOC soil Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) analyzed 01/26/2015 had recovery of Bromomethane outside of control limits (55%/62% (LCS/LCSD) recovery, QC limits 70-130%).

The Metals Laboratory Control Sample (LCS) (preparation batch 82149) had recovery outside of control limits for Antimony (143% recovery, QC Limits 80-120%).

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-16-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 10:10:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/22/2015		Analyst: GVC
Aroclor 1016	ND	0.098		mg/Kg-dry	1	1/23/2015
Aroclor 1221	ND	0.098		mg/Kg-dry	1	1/23/2015
Aroclor 1232	ND	0.098		mg/Kg-dry	1	1/23/2015
Aroclor 1242	ND	0.098		mg/Kg-dry	1	1/23/2015
Aroclor 1248	ND	0.098		mg/Kg-dry	1	1/23/2015
Aroclor 1254	ND	0.098		mg/Kg-dry	1	1/23/2015
Aroclor 1260	ND	0.098		mg/Kg-dry	1	1/23/2015
Pesticides	SW8081 (SW3550B)			Prep Date: 1/22/2015		Analyst: GVC
4,4'-DDD	ND	0.0020		mg/Kg-dry	1	1/23/2015
4,4'-DDE	ND	0.0020		mg/Kg-dry	1	1/23/2015
4,4'-DDT	ND	0.0020		mg/Kg-dry	1	1/23/2015
Aldrin	ND	0.0020		mg/Kg-dry	1	1/23/2015
alpha-BHC	ND	0.0020		mg/Kg-dry	1	1/23/2015
alpha-Chlordane	ND	0.0020		mg/Kg-dry	1	1/23/2015
beta-BHC	ND	0.0020		mg/Kg-dry	1	1/23/2015
Chlordane	ND	0.020		mg/Kg-dry	1	1/23/2015
delta-BHC	ND	0.0020		mg/Kg-dry	1	1/23/2015
Dieldrin	ND	0.0020		mg/Kg-dry	1	1/23/2015
Endosulfan I	ND	0.0020		mg/Kg-dry	1	1/23/2015
Endosulfan II	ND	0.0020		mg/Kg-dry	1	1/23/2015
Endosulfan sulfate	ND	0.0020		mg/Kg-dry	1	1/23/2015
Endrin	ND	0.0020		mg/Kg-dry	1	1/23/2015
Endrin aldehyde	ND	0.0020		mg/Kg-dry	1	1/23/2015
Endrin ketone	ND	0.0020		mg/Kg-dry	1	1/23/2015
gamma-BHC	ND	0.0020		mg/Kg-dry	1	1/23/2015
gamma-Chlordane	ND	0.0020		mg/Kg-dry	1	1/23/2015
Heptachlor	ND	0.0020		mg/Kg-dry	1	1/23/2015
Heptachlor epoxide	ND	0.0020		mg/Kg-dry	1	1/23/2015
Methoxychlor	ND	0.0020		mg/Kg-dry	1	1/23/2015
Toxaphene	ND	0.041		mg/Kg-dry	1	1/23/2015
Mercury	SW7471A			Prep Date: 1/22/2015		Analyst: LB
Mercury	0.041	0.025		mg/Kg-dry	1	1/22/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/23/2015		Analyst: JG
Aluminum	2200	230		mg/Kg-dry	100	1/26/2015
Antimony	ND	2.3		mg/Kg-dry	10	1/26/2015
Arsenic	2.3	1.1		mg/Kg-dry	10	1/24/2015
Barium	22	1.1		mg/Kg-dry	10	1/24/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-16-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 10:10:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/23/2015		Analyst: JG
Beryllium	ND	0.56		mg/Kg-dry	10	1/24/2015
Cadmium	0.68	0.56		mg/Kg-dry	10	1/24/2015
Calcium	81000	680		mg/Kg-dry	100	1/26/2015
Chromium	11	1.1		mg/Kg-dry	10	1/24/2015
Cobalt	2.1	1.1		mg/Kg-dry	10	1/24/2015
Copper	5.9	2.8		mg/Kg-dry	10	1/24/2015
Iron	7600	340		mg/Kg-dry	100	1/26/2015
Lead	150	0.56		mg/Kg-dry	10	1/24/2015
Magnesium	14000	340		mg/Kg-dry	100	1/26/2015
Manganese	220	1.1		mg/Kg-dry	10	1/24/2015
Nickel	10	1.1		mg/Kg-dry	10	1/24/2015
Potassium	300	34		mg/Kg-dry	10	1/24/2015
Selenium	ND	0.56		mg/Kg-dry	10	1/24/2015
Silver	ND	1.1		mg/Kg-dry	10	1/24/2015
Sodium	140	68		mg/Kg-dry	10	1/26/2015
Thallium	ND	1.1		mg/Kg-dry	10	1/24/2015
Vanadium	8.6	1.1		mg/Kg-dry	10	1/24/2015
Zinc	140	5.6		mg/Kg-dry	10	1/24/2015
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)			Prep Date: 1/23/2015		Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	1/23/2015
Acenaphthylene	ND	0.040		mg/Kg-dry	1	1/23/2015
Aniline	ND	0.41		mg/Kg-dry	1	1/23/2015
Anthracene	ND	0.040		mg/Kg-dry	1	1/23/2015
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	1/23/2015
Benzdine	ND	0.40		mg/Kg-dry	1	1/23/2015
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	1/23/2015
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	1/23/2015
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	1/23/2015
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	1/23/2015
Benzoic acid	ND	1.0		mg/Kg-dry	1	1/23/2015
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	1/23/2015
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	1/23/2015
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	1/23/2015
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	1/23/2015
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	1/23/2015
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	1/23/2015
Carbazole	ND	0.21		mg/Kg-dry	1	1/23/2015
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	1/23/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 15010403 Revision 2
 Project: CTARPM, Lawrence to Argyle
 Lab ID: 15010403-001

Client Sample ID: RPM-SB-16-1
 Collection Date: 1/20/2015 10:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
		SW8270C (SW3550B)				Prep Date: 1/23/2015 Analyst: DM
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	1/23/2015
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	1/23/2015
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	1/23/2015
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	1/23/2015
Chrysene	ND	0.040		mg/Kg-dry	1	1/23/2015
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	1/23/2015
Dibenzofuran	ND	0.21		mg/Kg-dry	1	1/23/2015
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	1/23/2015
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	1/23/2015
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	1/23/2015
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	1/23/2015
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	1/23/2015
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	1/23/2015
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	1/23/2015
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	1/23/2015
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	1/23/2015
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	1/23/2015
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	1/23/2015
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	1/23/2015
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	1/23/2015
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	1/23/2015
Fluoranthene	ND	0.040		mg/Kg-dry	1	1/23/2015
Fluorene	ND	0.040		mg/Kg-dry	1	1/23/2015
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	1/23/2015
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	1/23/2015
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	1/23/2015
Hexachloroethane	ND	0.21		mg/Kg-dry	1	1/23/2015
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	1/23/2015
Isophorone	ND	0.21		mg/Kg-dry	1	1/23/2015
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	1/23/2015
2-Methylphenol	ND	0.21		mg/Kg-dry	1	1/23/2015
4-Methylphenol	ND	0.21		mg/Kg-dry	1	1/23/2015
Naphthalene	ND	0.040		mg/Kg-dry	1	1/23/2015
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	1/23/2015
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	1/23/2015
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	1/23/2015
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	1/23/2015
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	1/23/2015

Qualifiers:
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 * - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-16-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 10:10:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/23/2015		Analyst: DM	
Nitrobenzene	ND	0.040		mg/Kg-dry	1	1/23/2015
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	1/23/2015
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	1/23/2015
N-Nitrosodiphenylamine	ND	0.040		mg/Kg-dry	1	1/23/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	1/23/2015
Pentachlorophenol	ND	0.040		mg/Kg-dry	1	1/23/2015
Phenanthrene	ND	0.040		mg/Kg-dry	1	1/23/2015
Phenol	ND	0.21		mg/Kg-dry	1	1/23/2015
Pyrene	ND	0.040		mg/Kg-dry	1	1/23/2015
Pyridine	ND	0.82		mg/Kg-dry	1	1/23/2015
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	1/23/2015
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	1/23/2015
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	1/23/2015
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 1/21/2015		Analyst: ERP	
Acetone	ND	0.12		mg/Kg-dry	1	1/26/2015
Benzene	ND	0.0080		mg/Kg-dry	1	1/26/2015
Bromodichloromethane	ND	0.0080		mg/Kg-dry	1	1/26/2015
Bromoform	ND	0.0080		mg/Kg-dry	1	1/26/2015
Bromomethane	ND	0.016		mg/Kg-dry	1	1/26/2015
2-Butanone	ND	0.12		mg/Kg-dry	1	1/26/2015
Carbon disulfide	ND	0.080		mg/Kg-dry	1	1/26/2015
Carbon tetrachloride	ND	0.0080		mg/Kg-dry	1	1/26/2015
Chlorobenzene	ND	0.0080		mg/Kg-dry	1	1/26/2015
Chloroethane	ND	0.016		mg/Kg-dry	1	1/26/2015
Chloroform	ND	0.0080		mg/Kg-dry	1	1/26/2015
Chloromethane	ND	0.016		mg/Kg-dry	1	1/26/2015
Dibromochloromethane	ND	0.0080		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethane	ND	0.0080		mg/Kg-dry	1	1/26/2015
1,2-Dichloroethane	ND	0.0080		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethene	ND	0.0080		mg/Kg-dry	1	1/26/2015
cis-1,2-Dichloroethene	ND	0.0080		mg/Kg-dry	1	1/26/2015
trans-1,2-Dichloroethene	ND	0.0080		mg/Kg-dry	1	1/26/2015
1,2-Dichloropropane	ND	0.0080		mg/Kg-dry	1	1/26/2015
cis-1,3-Dichloropropene	ND	0.0032		mg/Kg-dry	1	1/26/2015
trans-1,3-Dichloropropene	ND	0.0032		mg/Kg-dry	1	1/26/2015
Ethylbenzene	ND	0.0080		mg/Kg-dry	1	1/26/2015
2-Hexanone	ND	0.032		mg/Kg-dry	1	1/26/2015
4-Methyl-2-pentanone	ND	0.032		mg/Kg-dry	1	1/26/2015

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
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 * - Non-accredited parameter H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-16-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 10:10:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/21/2015	Analyst: ERP
Methylene chloride	ND	0.016		mg/Kg-dry	1	1/26/2015
Methyl tert-butyl ether	ND	0.0080		mg/Kg-dry	1	1/26/2015
Styrene	ND	0.0080		mg/Kg-dry	1	1/26/2015
1,1,2,2-Tetrachloroethane	ND	0.0080		mg/Kg-dry	1	1/26/2015
Tetrachloroethene	ND	0.0080		mg/Kg-dry	1	1/26/2015
Toluene	ND	0.0080		mg/Kg-dry	1	1/26/2015
1,1,1-Trichloroethane	ND	0.0080		mg/Kg-dry	1	1/26/2015
1,1,2-Trichloroethane	ND	0.0080		mg/Kg-dry	1	1/26/2015
Trichloroethene	ND	0.0080		mg/Kg-dry	1	1/26/2015
Vinyl chloride	ND	0.0080		mg/Kg-dry	1	1/26/2015
Xylenes, Total	ND	0.024		mg/Kg-dry	1	1/26/2015
Cyanide, Total	SW9012A				Prep Date: 1/21/2015	Analyst: YZ
Cyanide	ND	0.31		mg/Kg-dry	1	1/22/2015
pH (25 °C)	SW9045C				Prep Date: 1/21/2015	Analyst: RW
pH	8.0			pH Units	1	1/21/2015
Percent Moisture	D2974				Prep Date: 1/21/2015	Analyst: RW
Percent Moisture	19.2	0.2	*	wt%	1	1/22/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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 E - Value above quantitation range
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-16-2

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 10:15:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/22/2015		Analyst: GVC
Aroclor 1016	ND	0.091		mg/Kg-dry	1	1/23/2015
Aroclor 1221	ND	0.091		mg/Kg-dry	1	1/23/2015
Aroclor 1232	ND	0.091		mg/Kg-dry	1	1/23/2015
Aroclor 1242	ND	0.091		mg/Kg-dry	1	1/23/2015
Aroclor 1248	ND	0.091		mg/Kg-dry	1	1/23/2015
Aroclor 1254	ND	0.091		mg/Kg-dry	1	1/23/2015
Aroclor 1260	ND	0.091		mg/Kg-dry	1	1/23/2015
Pesticides	SW8081 (SW3550B)			Prep Date: 1/22/2015		Analyst: GVC
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	1/23/2015
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	1/23/2015
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	1/23/2015
Aldrin	ND	0.0018		mg/Kg-dry	1	1/23/2015
alpha-BHC	ND	0.0018		mg/Kg-dry	1	1/23/2015
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	1/23/2015
beta-BHC	ND	0.0018		mg/Kg-dry	1	1/23/2015
Chlordane	ND	0.018		mg/Kg-dry	1	1/23/2015
delta-BHC	ND	0.0018		mg/Kg-dry	1	1/23/2015
Dieldrin	ND	0.0018		mg/Kg-dry	1	1/23/2015
Endosulfan I	ND	0.0018		mg/Kg-dry	1	1/23/2015
Endosulfan II	ND	0.0018		mg/Kg-dry	1	1/23/2015
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	1/23/2015
Endrin	ND	0.0018		mg/Kg-dry	1	1/23/2015
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	1/23/2015
Endrin ketone	ND	0.0018		mg/Kg-dry	1	1/23/2015
gamma-BHC	ND	0.0018		mg/Kg-dry	1	1/23/2015
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	1/23/2015
Heptachlor	ND	0.0018		mg/Kg-dry	1	1/23/2015
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	1/23/2015
Methoxychlor	ND	0.0018		mg/Kg-dry	1	1/23/2015
Toxaphene	ND	0.038		mg/Kg-dry	1	1/23/2015
Mercury	SW7471A			Prep Date: 1/22/2015		Analyst: LB
Mercury	0.22	0.020		mg/Kg-dry	1	1/22/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/23/2015		Analyst: JG
Antimony	ND	2.3		mg/Kg-dry	10	1/26/2015
Arsenic	5.8	1.1		mg/Kg-dry	10	1/26/2015
Beryllium	0.73	0.56		mg/Kg-dry	10	1/26/2015
Cadmium	1.0	0.56		mg/Kg-dry	10	1/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-16-2

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 10:15:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 1/23/2015		Analyst: JG	
Chromium	8.1	1.1		mg/Kg-dry	10	1/26/2015
Copper	34	2.8		mg/Kg-dry	10	1/26/2015
Lead	94	0.56		mg/Kg-dry	10	1/26/2015
Nickel	10	1.1		mg/Kg-dry	10	1/26/2015
Selenium	0.77	0.56		mg/Kg-dry	10	1/26/2015
Silver	ND	1.1		mg/Kg-dry	10	1/26/2015
Thallium	ND	1.1		mg/Kg-dry	10	1/26/2015
Zinc	130	5.6		mg/Kg-dry	10	1/26/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)		Prep Date: 1/30/2015		Analyst: DM	
Acenaphthene	ND	0.038		mg/Kg-dry	1	2/2/2015
Acenaphthylene	0.10	0.038		mg/Kg-dry	1	2/2/2015
Anthracene	0.092	0.038		mg/Kg-dry	1	2/2/2015
Benz(a)anthracene	0.43	0.038		mg/Kg-dry	1	2/2/2015
Benzo(a)pyrene	0.50	0.038		mg/Kg-dry	1	2/2/2015
Benzo(b)fluoranthene	0.46	0.038		mg/Kg-dry	1	2/2/2015
Benzo(g,h,i)perylene	0.39	0.038		mg/Kg-dry	1	2/2/2015
Benzo(k)fluoranthene	0.35	0.038		mg/Kg-dry	1	2/2/2015
Chrysene	0.48	0.038		mg/Kg-dry	1	2/2/2015
Dibenz(a,h)anthracene	0.18	0.038		mg/Kg-dry	1	2/2/2015
Fluoranthene	0.64	0.038		mg/Kg-dry	1	2/2/2015
Fluorene	ND	0.038		mg/Kg-dry	1	2/2/2015
Indeno(1,2,3-cd)pyrene	0.33	0.038		mg/Kg-dry	1	2/2/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	2/2/2015
Phenanthrene	0.36	0.038		mg/Kg-dry	1	2/2/2015
Pyrene	0.66	0.038		mg/Kg-dry	1	2/2/2015
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 1/21/2015		Analyst: ERP	
Acetone	ND	0.16		mg/Kg-dry	1	1/26/2015
Benzene	ND	0.011		mg/Kg-dry	1	1/26/2015
Bromodichloromethane	ND	0.011		mg/Kg-dry	1	1/26/2015
Bromoform	ND	0.011		mg/Kg-dry	1	1/26/2015
Bromomethane	ND	0.021		mg/Kg-dry	1	1/26/2015
2-Butanone	ND	0.16		mg/Kg-dry	1	1/26/2015
Carbon disulfide	ND	0.11		mg/Kg-dry	1	1/26/2015
Carbon tetrachloride	ND	0.011		mg/Kg-dry	1	1/26/2015
Chlorobenzene	ND	0.011		mg/Kg-dry	1	1/26/2015
Chloroethane	ND	0.021		mg/Kg-dry	1	1/26/2015
Chloroform	ND	0.011		mg/Kg-dry	1	1/26/2015

Qualifiers:
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 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-16-2

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 10:15:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B			Prep Date: 1/21/2015		Analyst: ERP
Chloromethane	ND	0.021		mg/Kg-dry	1	1/26/2015
Dibromochloromethane	ND	0.011		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethane	ND	0.011		mg/Kg-dry	1	1/26/2015
1,2-Dichloroethane	ND	0.011		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethene	ND	0.011		mg/Kg-dry	1	1/26/2015
cis-1,2-Dichloroethene	ND	0.011		mg/Kg-dry	1	1/26/2015
trans-1,2-Dichloroethene	ND	0.011		mg/Kg-dry	1	1/26/2015
1,2-Dichloropropane	ND	0.011		mg/Kg-dry	1	1/26/2015
cis-1,3-Dichloropropene	ND	0.0042		mg/Kg-dry	1	1/26/2015
trans-1,3-Dichloropropene	ND	0.0042		mg/Kg-dry	1	1/26/2015
Ethylbenzene	ND	0.011		mg/Kg-dry	1	1/26/2015
2-Hexanone	ND	0.042		mg/Kg-dry	1	1/26/2015
4-Methyl-2-pentanone	ND	0.042		mg/Kg-dry	1	1/26/2015
Methylene chloride	ND	0.021		mg/Kg-dry	1	1/26/2015
Methyl tert-butyl ether	ND	0.011		mg/Kg-dry	1	1/26/2015
Styrene	ND	0.011		mg/Kg-dry	1	1/26/2015
1,1,2,2-Tetrachloroethane	ND	0.011		mg/Kg-dry	1	1/26/2015
Tetrachloroethene	ND	0.011		mg/Kg-dry	1	1/26/2015
Toluene	ND	0.011		mg/Kg-dry	1	1/26/2015
1,1,1-Trichloroethane	ND	0.011		mg/Kg-dry	1	1/26/2015
1,1,2-Trichloroethane	ND	0.011		mg/Kg-dry	1	1/26/2015
Trichloroethene	ND	0.011		mg/Kg-dry	1	1/26/2015
Vinyl chloride	ND	0.011		mg/Kg-dry	1	1/26/2015
Xylenes, Total	ND	0.032		mg/Kg-dry	1	1/26/2015
Percent Moisture	D2974			Prep Date: 1/21/2015		Analyst: RW
Percent Moisture	12.7	0.2	*	wt%	1	1/22/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-16-3

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 10:25:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)		Prep Date: 1/21/2015		Analyst: GVC	
Aroclor 1016	ND	0.090		mg/Kg-dry	1	1/21/2015
Aroclor 1221	ND	0.090		mg/Kg-dry	1	1/21/2015
Aroclor 1232	ND	0.090		mg/Kg-dry	1	1/21/2015
Aroclor 1242	ND	0.090		mg/Kg-dry	1	1/21/2015
Aroclor 1248	ND	0.090		mg/Kg-dry	1	1/21/2015
Aroclor 1254	ND	0.090		mg/Kg-dry	1	1/21/2015
Aroclor 1260	ND	0.090		mg/Kg-dry	1	1/21/2015
Mercury	SW7471A		Prep Date: 1/22/2015		Analyst: LB	
Mercury	ND	0.022		mg/Kg-dry	1	1/22/2015
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 1/27/2015		Analyst: JG	
Arsenic	25	1.1		mg/Kg-dry	10	1/27/2015
Barium	59	1.1		mg/Kg-dry	10	1/27/2015
Cadmium	ND	0.57		mg/Kg-dry	10	1/27/2015
Chromium	25	1.1		mg/Kg-dry	10	1/27/2015
Lead	86	0.57		mg/Kg-dry	10	1/27/2015
Selenium	1.0	0.57		mg/Kg-dry	10	1/27/2015
Silver	ND	1.1		mg/Kg-dry	10	1/27/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)		Prep Date: 1/23/2015		Analyst: DM	
Acenaphthene	1.3	0.037		mg/Kg-dry	1	1/23/2015
Acenaphthylene	1.1	0.037		mg/Kg-dry	1	1/23/2015
Anthracene	4.2	0.037		mg/Kg-dry	1	1/23/2015
Benz(a)anthracene	9.7	0.18		mg/Kg-dry	5	1/27/2015
Benzo(a)pyrene	7.7	0.18		mg/Kg-dry	5	1/27/2015
Benzo(b)fluoranthene	7.0	0.18		mg/Kg-dry	5	1/27/2015
Benzo(g,h,i)perylene	4.2	0.18		mg/Kg-dry	5	1/27/2015
Benzo(k)fluoranthene	6.2	0.18		mg/Kg-dry	5	1/27/2015
Chrysene	10	0.18		mg/Kg-dry	5	1/27/2015
Dibenz(a,h)anthracene	2.4	0.037		mg/Kg-dry	1	1/23/2015
Fluoranthene	21	0.18		mg/Kg-dry	5	1/27/2015
Fluorene	2.2	0.037		mg/Kg-dry	1	1/23/2015
Indeno(1,2,3-cd)pyrene	4.5	0.037		mg/Kg-dry	1	1/23/2015
Naphthalene	0.70	0.037		mg/Kg-dry	1	1/23/2015
Phenanthrene	21	0.18		mg/Kg-dry	5	1/27/2015
Pyrene	19	0.18		mg/Kg-dry	5	1/27/2015
Percent Moisture	D2974		Prep Date: 1/21/2015		Analyst: RW	
Percent Moisture	11.3	0.2	*	wt%	1	1/22/2015

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-18-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 10:35:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/22/2015		Analyst: GVC
Aroclor 1016	ND	0.089		mg/Kg-dry	1	1/23/2015
Aroclor 1221	ND	0.089		mg/Kg-dry	1	1/23/2015
Aroclor 1232	ND	0.089		mg/Kg-dry	1	1/23/2015
Aroclor 1242	ND	0.089		mg/Kg-dry	1	1/23/2015
Aroclor 1248	ND	0.089		mg/Kg-dry	1	1/23/2015
Aroclor 1254	ND	0.089		mg/Kg-dry	1	1/23/2015
Aroclor 1260	ND	0.089		mg/Kg-dry	1	1/23/2015
Pesticides	SW8081 (SW3550B)			Prep Date: 1/22/2015		Analyst: GVC
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	1/23/2015
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	1/23/2015
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	1/23/2015
Aldrin	ND	0.0018		mg/Kg-dry	1	1/23/2015
alpha-BHC	ND	0.0018		mg/Kg-dry	1	1/23/2015
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	1/23/2015
beta-BHC	ND	0.0018		mg/Kg-dry	1	1/23/2015
Chlordane	ND	0.018		mg/Kg-dry	1	1/23/2015
delta-BHC	ND	0.0018		mg/Kg-dry	1	1/23/2015
Dieldrin	ND	0.0018		mg/Kg-dry	1	1/23/2015
Endosulfan I	ND	0.0018		mg/Kg-dry	1	1/23/2015
Endosulfan II	ND	0.0018		mg/Kg-dry	1	1/23/2015
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	1/23/2015
Endrin	ND	0.0018		mg/Kg-dry	1	1/23/2015
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	1/23/2015
Endrin ketone	ND	0.0018		mg/Kg-dry	1	1/23/2015
gamma-BHC	ND	0.0018		mg/Kg-dry	1	1/23/2015
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	1/23/2015
Heptachlor	ND	0.0018		mg/Kg-dry	1	1/23/2015
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	1/23/2015
Methoxychlor	ND	0.0018		mg/Kg-dry	1	1/23/2015
Toxaphene	ND	0.037		mg/Kg-dry	1	1/23/2015
Mercury	SW7471A			Prep Date: 1/22/2015		Analyst: LB
Mercury	0.062	0.021		mg/Kg-dry	1	1/22/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/23/2015		Analyst: JG
Aluminum	3300	220		mg/Kg-dry	100	1/26/2015
Antimony	3.7	2.2		mg/Kg-dry	10	1/26/2015
Arsenic	260	1.1		mg/Kg-dry	10	1/24/2015
Barium	45	1.1		mg/Kg-dry	10	1/24/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 HT - Sample received past holding time
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-18-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 10:35:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/23/2015		Analyst: JG
Beryllium	ND	0.55		mg/Kg-dry	10	1/24/2015
Cadmium	1.4	0.55		mg/Kg-dry	10	1/24/2015
Calcium	75000	660		mg/Kg-dry	100	1/26/2015
Chromium	17	1.1		mg/Kg-dry	10	1/24/2015
Cobalt	6.9	1.1		mg/Kg-dry	10	1/24/2015
Copper	87	2.7		mg/Kg-dry	10	1/24/2015
Iron	45000	330		mg/Kg-dry	100	1/26/2015
Lead	150	0.55		mg/Kg-dry	10	1/24/2015
Magnesium	38000	330		mg/Kg-dry	100	1/26/2015
Manganese	700	1.1		mg/Kg-dry	10	1/24/2015
Nickel	23	1.1		mg/Kg-dry	10	1/24/2015
Potassium	420	33		mg/Kg-dry	10	1/24/2015
Selenium	0.74	0.55		mg/Kg-dry	10	1/24/2015
Silver	ND	1.1		mg/Kg-dry	10	1/24/2015
Sodium	140	66		mg/Kg-dry	10	1/26/2015
Thallium	ND	1.1		mg/Kg-dry	10	1/24/2015
Vanadium	18	1.1		mg/Kg-dry	10	1/24/2015
Zinc	160	5.5		mg/Kg-dry	10	1/24/2015
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)			Prep Date: 1/23/2015		Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	1/23/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	1/23/2015
Aniline	ND	0.37		mg/Kg-dry	1	1/23/2015
Anthracene	0.14	0.037		mg/Kg-dry	1	1/23/2015
Benz(a)anthracene	0.037	0.037		mg/Kg-dry	1	1/23/2015
Benzidine	ND	0.37		mg/Kg-dry	1	1/23/2015
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	1/23/2015
Benzo(b)fluoranthene	0.14	0.037		mg/Kg-dry	1	1/23/2015
Benzo(g,h,i)perylene	0.19	0.037		mg/Kg-dry	1	1/23/2015
Benzo(k)fluoranthene	0.049	0.037		mg/Kg-dry	1	1/23/2015
Benzoic acid	ND	0.92		mg/Kg-dry	1	1/23/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	1/23/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	1/23/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	1/23/2015
Bis(2-ethylhexyl)phthalate	1.1	0.92		mg/Kg-dry	1	1/23/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	1/23/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	1/23/2015
Carbazole	ND	0.19		mg/Kg-dry	1	1/23/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	1/23/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-18-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 10:35:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/23/2015		Analyst: DM	
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	1/23/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	1/23/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	1/23/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	1/23/2015
Chrysene	0.051	0.037		mg/Kg-dry	1	1/23/2015
Dibenz(a,h)anthracene	0.061	0.037		mg/Kg-dry	1	1/23/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	1/23/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/23/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/23/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/23/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	1/23/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	1/23/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	1/23/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	1/23/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	1/23/2015
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	1/23/2015
2,4-Dinitrophenol	ND	0.92		mg/Kg-dry	1	1/23/2015
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	1/23/2015
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	1/23/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	1/23/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	1/23/2015
Fluoranthene	0.080	0.037		mg/Kg-dry	1	1/23/2015
Fluorene	ND	0.037		mg/Kg-dry	1	1/23/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	1/23/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	1/23/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	1/23/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	1/23/2015
Indeno(1,2,3-cd)pyrene	0.18	0.037		mg/Kg-dry	1	1/23/2015
Isophorone	ND	0.19		mg/Kg-dry	1	1/23/2015
2-Methylnaphthalene	0.38	0.19		mg/Kg-dry	1	1/23/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	1/23/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	1/23/2015
Naphthalene	0.069	0.037		mg/Kg-dry	1	1/23/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/23/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/23/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/23/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	1/23/2015
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	1/23/2015

Qualifiers:
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 J - Analyte detected below quantitation limits
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 HT - Sample received past holding time
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-18-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 10:35:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/23/2015		Analyst: DM	
Nitrobenzene	ND	0.037		mg/Kg-dry	1	1/23/2015
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	1/23/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	1/23/2015
N-Nitrosodiphenylamine	ND	0.037		mg/Kg-dry	1	1/23/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	1/23/2015
Pentachlorophenol	ND	0.037		mg/Kg-dry	1	1/23/2015
Phenanthrene	0.17	0.037		mg/Kg-dry	1	1/23/2015
Phenol	ND	0.19		mg/Kg-dry	1	1/23/2015
Pyrene	0.085	0.037		mg/Kg-dry	1	1/23/2015
Pyridine	ND	0.74		mg/Kg-dry	1	1/23/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	1/23/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	1/23/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	1/23/2015
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 1/21/2015		Analyst: ERP	
Acetone	ND	0.094		mg/Kg-dry	1	1/26/2015
Benzene	ND	0.0062		mg/Kg-dry	1	1/26/2015
Bromodichloromethane	ND	0.0062		mg/Kg-dry	1	1/26/2015
Bromoform	ND	0.0062		mg/Kg-dry	1	1/26/2015
Bromomethane	ND	0.012		mg/Kg-dry	1	1/26/2015
2-Butanone	ND	0.094		mg/Kg-dry	1	1/26/2015
Carbon disulfide	ND	0.062		mg/Kg-dry	1	1/26/2015
Carbon tetrachloride	ND	0.0062		mg/Kg-dry	1	1/26/2015
Chlorobenzene	ND	0.0062		mg/Kg-dry	1	1/26/2015
Chloroethane	ND	0.012		mg/Kg-dry	1	1/26/2015
Chloroform	ND	0.0062		mg/Kg-dry	1	1/26/2015
Chloromethane	ND	0.012		mg/Kg-dry	1	1/26/2015
Dibromochloromethane	ND	0.0062		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethane	ND	0.0062		mg/Kg-dry	1	1/26/2015
1,2-Dichloroethane	ND	0.0062		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethene	ND	0.0062		mg/Kg-dry	1	1/26/2015
cis-1,2-Dichloroethene	ND	0.0062		mg/Kg-dry	1	1/26/2015
trans-1,2-Dichloroethene	ND	0.0062		mg/Kg-dry	1	1/26/2015
1,2-Dichloropropane	ND	0.0062		mg/Kg-dry	1	1/26/2015
cis-1,3-Dichloropropene	ND	0.0025		mg/Kg-dry	1	1/26/2015
trans-1,3-Dichloropropene	ND	0.0025		mg/Kg-dry	1	1/26/2015
Ethylbenzene	ND	0.0062		mg/Kg-dry	1	1/26/2015
2-Hexanone	ND	0.025		mg/Kg-dry	1	1/26/2015
4-Methyl-2-pentanone	ND	0.025		mg/Kg-dry	1	1/26/2015

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
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Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 10:35:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/21/2015	Analyst: ERP
Methylene chloride	ND	0.012		mg/Kg-dry	1	1/26/2015
Methyl tert-butyl ether	ND	0.0062		mg/Kg-dry	1	1/26/2015
Styrene	ND	0.0062		mg/Kg-dry	1	1/26/2015
1,1,2,2-Tetrachloroethane	ND	0.0062		mg/Kg-dry	1	1/26/2015
Tetrachloroethene	ND	0.0062		mg/Kg-dry	1	1/26/2015
Toluene	ND	0.0062		mg/Kg-dry	1	1/26/2015
1,1,1-Trichloroethane	ND	0.0062		mg/Kg-dry	1	1/26/2015
1,1,2-Trichloroethane	ND	0.0062		mg/Kg-dry	1	1/26/2015
Trichloroethene	ND	0.0062		mg/Kg-dry	1	1/26/2015
Vinyl chloride	ND	0.0062		mg/Kg-dry	1	1/26/2015
Xylenes, Total	ND	0.019		mg/Kg-dry	1	1/26/2015
Cyanide, Total	SW9012A				Prep Date: 1/21/2015	Analyst: YZ
Cyanide	ND	0.28		mg/Kg-dry	1	1/22/2015
pH (25 °C)	SW9045C				Prep Date: 1/21/2015	Analyst: RW
pH	8.1			pH Units	1	1/21/2015
Percent Moisture	D2974				Prep Date: 1/21/2015	Analyst: RW
Percent Moisture	10.4	0.2	*	wt%	1	1/22/2015

Qualifiers:
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-18-2

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 10:45:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/21/2015		Analyst: GVC
Aroclor 1016	ND	0.096		mg/Kg-dry	1	1/21/2015
Aroclor 1221	ND	0.096		mg/Kg-dry	1	1/21/2015
Aroclor 1232	ND	0.096		mg/Kg-dry	1	1/21/2015
Aroclor 1242	ND	0.096		mg/Kg-dry	1	1/21/2015
Aroclor 1248	ND	0.096		mg/Kg-dry	1	1/21/2015
Aroclor 1254	ND	0.096		mg/Kg-dry	1	1/21/2015
Aroclor 1260	ND	0.096		mg/Kg-dry	1	1/21/2015
Mercury	SW7471A			Prep Date: 1/22/2015		Analyst: LB
Mercury	ND	0.019		mg/Kg-dry	1	1/22/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/23/2015		Analyst: JG
Antimony	2.2	2.1		mg/Kg-dry	10	1/26/2015
Arsenic	5.8	1.0		mg/Kg-dry	10	1/26/2015
Beryllium	ND	0.52		mg/Kg-dry	10	1/26/2015
Cadmium	ND	0.52		mg/Kg-dry	10	1/26/2015
Chromium	17	1.0		mg/Kg-dry	10	1/26/2015
Copper	23	2.6		mg/Kg-dry	10	1/26/2015
Lead	71	0.52		mg/Kg-dry	10	1/26/2015
Nickel	10	1.0		mg/Kg-dry	10	1/26/2015
Selenium	ND	0.52		mg/Kg-dry	10	1/26/2015
Silver	ND	1.0		mg/Kg-dry	10	1/26/2015
Thallium	ND	1.0		mg/Kg-dry	10	1/26/2015
Zinc	36	5.2		mg/Kg-dry	10	1/26/2015
Volatile Organic Compounds by GC/MS	SW5035/8260B			Prep Date: 1/21/2015		Analyst: ERP
Acetone	ND	0.11		mg/Kg-dry	1	1/26/2015
Benzene	ND	0.0074		mg/Kg-dry	1	1/26/2015
Bromodichloromethane	ND	0.0074		mg/Kg-dry	1	1/26/2015
Bromoform	ND	0.0074		mg/Kg-dry	1	1/26/2015
Bromomethane	ND	0.015		mg/Kg-dry	1	1/26/2015
2-Butanone	ND	0.11		mg/Kg-dry	1	1/26/2015
Carbon disulfide	ND	0.074		mg/Kg-dry	1	1/26/2015
Carbon tetrachloride	ND	0.0074		mg/Kg-dry	1	1/26/2015
Chlorobenzene	ND	0.0074		mg/Kg-dry	1	1/26/2015
Chloroethane	ND	0.015		mg/Kg-dry	1	1/26/2015
Chloroform	ND	0.0074		mg/Kg-dry	1	1/26/2015
Chloromethane	ND	0.015		mg/Kg-dry	1	1/26/2015
Dibromochloromethane	ND	0.0074		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethane	ND	0.0074		mg/Kg-dry	1	1/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-18-2

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 10:45:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/21/2015	Analyst: ERP
1,2-Dichloroethane	ND	0.0074		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethane	ND	0.0074		mg/Kg-dry	1	1/26/2015
cis-1,2-Dichloroethene	ND	0.0074		mg/Kg-dry	1	1/26/2015
trans-1,2-Dichloroethene	ND	0.0074		mg/Kg-dry	1	1/26/2015
1,2-Dichloropropane	ND	0.0074		mg/Kg-dry	1	1/26/2015
cis-1,3-Dichloropropene	ND	0.0030		mg/Kg-dry	1	1/26/2015
trans-1,3-Dichloropropene	ND	0.0030		mg/Kg-dry	1	1/26/2015
Ethylbenzene	ND	0.0074		mg/Kg-dry	1	1/26/2015
2-Hexanone	ND	0.030		mg/Kg-dry	1	1/26/2015
4-Methyl-2-pentanone	ND	0.030		mg/Kg-dry	1	1/26/2015
Methylene chloride	ND	0.015		mg/Kg-dry	1	1/26/2015
Methyl tert-butyl ether	ND	0.0074		mg/Kg-dry	1	1/26/2015
Styrene	ND	0.0074		mg/Kg-dry	1	1/26/2015
1,1,2,2-Tetrachloroethane	ND	0.0074		mg/Kg-dry	1	1/26/2015
Tetrachloroethene	ND	0.0074		mg/Kg-dry	1	1/26/2015
Toluene	ND	0.0074		mg/Kg-dry	1	1/26/2015
1,1,1-Trichloroethane	ND	0.0074		mg/Kg-dry	1	1/26/2015
1,1,2-Trichloroethane	ND	0.0074		mg/Kg-dry	1	1/26/2015
Trichloroethene	ND	0.0074		mg/Kg-dry	1	1/26/2015
Vinyl chloride	ND	0.0074		mg/Kg-dry	1	1/26/2015
Xylenes, Total	ND	0.022		mg/Kg-dry	1	1/26/2015
Percent Moisture	D2974				Prep Date: 1/21/2015	Analyst: RW
Percent Moisture	17.0	0.2	*	wt%	1	1/22/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-18-3

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 10:55:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/21/2015		Analyst: GVC
Aroclor 1016	ND	0.091		mg/Kg-dry	1	1/21/2015
Aroclor 1221	ND	0.091		mg/Kg-dry	1	1/21/2015
Aroclor 1232	ND	0.091		mg/Kg-dry	1	1/21/2015
Aroclor 1242	ND	0.091		mg/Kg-dry	1	1/21/2015
Aroclor 1248	ND	0.091		mg/Kg-dry	1	1/21/2015
Aroclor 1254	ND	0.091		mg/Kg-dry	1	1/21/2015
Aroclor 1260	ND	0.091		mg/Kg-dry	1	1/21/2015
Mercury	SW7471A			Prep Date: 1/22/2015		Analyst: LB
Mercury	0.061	0.021		mg/Kg-dry	1	1/22/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/27/2015		Analyst: JG
Arsenic	8.7	1.1		mg/Kg-dry	10	1/27/2015
Barium	64	1.1		mg/Kg-dry	10	1/27/2015
Cadmium	0.79	0.56		mg/Kg-dry	10	1/27/2015
Chromium	9.2	1.1		mg/Kg-dry	10	1/27/2015
Lead	49	0.56		mg/Kg-dry	10	1/27/2015
Selenium	1.1	0.56		mg/Kg-dry	10	1/27/2015
Silver	ND	1.1		mg/Kg-dry	10	1/27/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)			Prep Date: 1/23/2015		Analyst: DM
Acenaphthene	0.038	0.037		mg/Kg-dry	1	1/23/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	1/23/2015
Anthracene	0.074	0.037		mg/Kg-dry	1	1/23/2015
Benz(a)anthracene	0.16	0.037		mg/Kg-dry	1	1/23/2015
Benzo(a)pyrene	0.17	0.037		mg/Kg-dry	1	1/23/2015
Benzo(b)fluoranthene	0.18	0.037		mg/Kg-dry	1	1/23/2015
Benzo(g,h,i)perylene	0.14	0.037		mg/Kg-dry	1	1/23/2015
Benzo(k)fluoranthene	0.099	0.037		mg/Kg-dry	1	1/23/2015
Chrysene	0.19	0.037		mg/Kg-dry	1	1/23/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	1/23/2015
Fluoranthene	0.35	0.037		mg/Kg-dry	1	1/23/2015
Fluorene	ND	0.037		mg/Kg-dry	1	1/23/2015
Indeno(1,2,3-cd)pyrene	0.10	0.037		mg/Kg-dry	1	1/23/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	1/23/2015
Phenanthrene	0.24	0.037		mg/Kg-dry	1	1/23/2015
Pyrene	0.33	0.037		mg/Kg-dry	1	1/23/2015
Percent Moisture	D2974			Prep Date: 1/21/2015		Analyst: RW
Percent Moisture	12.4	0.2	*	wt%	1	1/22/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-19-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:10:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)		Prep Date: 1/22/2015		Analyst: GVC	
Aroclor 1016	ND	0.11		mg/Kg-dry	1	1/23/2015
Aroclor 1221	ND	0.11		mg/Kg-dry	1	1/23/2015
Aroclor 1232	ND	0.11		mg/Kg-dry	1	1/23/2015
Aroclor 1242	ND	0.11		mg/Kg-dry	1	1/23/2015
Aroclor 1248	ND	0.11		mg/Kg-dry	1	1/23/2015
Aroclor 1254	ND	0.11		mg/Kg-dry	1	1/23/2015
Aroclor 1260	ND	0.11		mg/Kg-dry	1	1/23/2015
Pesticides	SW8081 (SW3550B)		Prep Date: 1/22/2015		Analyst: GVC	
4,4'-DDD	ND	0.0021		mg/Kg-dry	1	1/23/2015
4,4'-DDE	ND	0.0021		mg/Kg-dry	1	1/23/2015
4,4'-DDT	ND	0.0021		mg/Kg-dry	1	1/23/2015
Aldrin	ND	0.0021		mg/Kg-dry	1	1/23/2015
alpha-BHC	ND	0.0021		mg/Kg-dry	1	1/23/2015
alpha-Chlordane	ND	0.0021		mg/Kg-dry	1	1/23/2015
beta-BHC	ND	0.0021		mg/Kg-dry	1	1/23/2015
Chlordane	ND	0.021		mg/Kg-dry	1	1/23/2015
delta-BHC	ND	0.0021		mg/Kg-dry	1	1/23/2015
Dieldrin	ND	0.0021		mg/Kg-dry	1	1/23/2015
Endosulfan I	ND	0.0021		mg/Kg-dry	1	1/23/2015
Endosulfan II	ND	0.0021		mg/Kg-dry	1	1/23/2015
Endosulfan sulfate	ND	0.0021		mg/Kg-dry	1	1/23/2015
Endrin	ND	0.0021		mg/Kg-dry	1	1/23/2015
Endrin aldehyde	ND	0.0021		mg/Kg-dry	1	1/23/2015
Endrin ketone	ND	0.0021		mg/Kg-dry	1	1/23/2015
gamma-BHC	ND	0.0021		mg/Kg-dry	1	1/23/2015
gamma-Chlordane	ND	0.0021		mg/Kg-dry	1	1/23/2015
Heptachlor	ND	0.0021		mg/Kg-dry	1	1/23/2015
Heptachlor epoxide	ND	0.0021		mg/Kg-dry	1	1/23/2015
Methoxychlor	ND	0.0021		mg/Kg-dry	1	1/23/2015
Toxaphene	ND	0.044		mg/Kg-dry	1	1/23/2015
Mercury	SW7471A		Prep Date: 1/22/2015		Analyst: LB	
Mercury	0.051	0.022		mg/Kg-dry	1	1/22/2015
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 1/23/2015		Analyst: JG	
Aluminum	18000	250		mg/Kg-dry	100	1/26/2015
Antimony	ND	2.5		mg/Kg-dry	10	1/26/2015
Arsenic	11	1.2		mg/Kg-dry	10	1/24/2015
Barium	80	1.2		mg/Kg-dry	10	1/24/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-19-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:10:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/23/2015		Analyst: JG
Beryllium	0.99	0.62		mg/Kg-dry	10	1/24/2015
Cadmium	0.87	0.62		mg/Kg-dry	10	1/24/2015
Calcium	25000	740		mg/Kg-dry	100	1/26/2015
Chromium	28	1.2		mg/Kg-dry	10	1/26/2015
Cobalt	14	1.2		mg/Kg-dry	10	1/26/2015
Copper	53	3.1		mg/Kg-dry	10	1/26/2015
Iron	47000	370		mg/Kg-dry	100	1/26/2015
Lead	82	0.62		mg/Kg-dry	10	1/24/2015
Magnesium	17000	370		mg/Kg-dry	100	1/26/2015
Manganese	1700	12		mg/Kg-dry	100	1/26/2015
Nickel	36	1.2		mg/Kg-dry	10	1/26/2015
Potassium	2200	37		mg/Kg-dry	10	1/26/2015
Selenium	0.81	0.62		mg/Kg-dry	10	1/24/2015
Silver	ND	1.2		mg/Kg-dry	10	1/24/2015
Sodium	89	74		mg/Kg-dry	10	1/26/2015
Thallium	ND	1.2		mg/Kg-dry	10	1/24/2015
Vanadium	38	1.2		mg/Kg-dry	10	1/26/2015
Zinc	63	6.2		mg/Kg-dry	10	1/26/2015
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)			Prep Date: 1/23/2015		Analyst: DM
Acenaphthene	ND	0.044		mg/Kg-dry	1	1/23/2015
Acenaphthylene	ND	0.044		mg/Kg-dry	1	1/23/2015
Aniline	ND	0.44		mg/Kg-dry	1	1/23/2015
Anthracene	ND	0.044		mg/Kg-dry	1	1/23/2015
Benz(a)anthracene	0.062	0.044		mg/Kg-dry	1	1/23/2015
Benzidine	ND	0.44		mg/Kg-dry	1	1/23/2015
Benzo(a)pyrene	ND	0.044		mg/Kg-dry	1	1/23/2015
Benzo(b)fluoranthene	0.057	0.044		mg/Kg-dry	1	1/23/2015
Benzo(g,h,i)perylene	ND	0.044		mg/Kg-dry	1	1/23/2015
Benzo(k)fluoranthene	0.065	0.044		mg/Kg-dry	1	1/23/2015
Benzoic acid	ND	1.1		mg/Kg-dry	1	1/23/2015
Benzyl alcohol	ND	0.23		mg/Kg-dry	1	1/23/2015
Bis(2-chloroethoxy)methane	ND	0.23		mg/Kg-dry	1	1/23/2015
Bis(2-chloroethyl)ether	ND	0.23		mg/Kg-dry	1	1/23/2015
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	1/23/2015
4-Bromophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	1/23/2015
Butyl benzyl phthalate	ND	0.23		mg/Kg-dry	1	1/23/2015
Carbazole	ND	0.23		mg/Kg-dry	1	1/23/2015
4-Chloroaniline	ND	0.23		mg/Kg-dry	1	1/23/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-19-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:10:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
						Prep Date: 1/23/2015 Analyst: DM
4-Chloro-3-methylphenol	ND	0.44		mg/Kg-dry	1	1/23/2015
2-Chloronaphthalene	ND	0.23		mg/Kg-dry	1	1/23/2015
2-Chlorophenol	ND	0.23		mg/Kg-dry	1	1/23/2015
4-Chlorophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	1/23/2015
Chrysene	0.049	0.044		mg/Kg-dry	1	1/23/2015
Dibenz(a,h)anthracene	ND	0.044		mg/Kg-dry	1	1/23/2015
Dibenzofuran	ND	0.23		mg/Kg-dry	1	1/23/2015
1,2-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	1/23/2015
1,3-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	1/23/2015
1,4-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	1/23/2015
3,3'-Dichlorobenzidine	ND	0.23		mg/Kg-dry	1	1/23/2015
2,4-Dichlorophenol	ND	0.23		mg/Kg-dry	1	1/23/2015
Diethyl phthalate	ND	0.23		mg/Kg-dry	1	1/23/2015
2,4-Dimethylphenol	ND	0.23		mg/Kg-dry	1	1/23/2015
Dimethyl phthalate	ND	0.23		mg/Kg-dry	1	1/23/2015
4,6-Dinitro-2-methylphenol	ND	0.44		mg/Kg-dry	1	1/23/2015
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	1/23/2015
2,4-Dinitrotoluene	ND	0.044		mg/Kg-dry	1	1/23/2015
2,6-Dinitrotoluene	ND	0.044		mg/Kg-dry	1	1/23/2015
Di-n-butyl phthalate	ND	0.23		mg/Kg-dry	1	1/23/2015
Di-n-octyl phthalate	ND	0.23		mg/Kg-dry	1	1/23/2015
Fluoranthene	0.073	0.044		mg/Kg-dry	1	1/23/2015
Fluorene	ND	0.044		mg/Kg-dry	1	1/23/2015
Hexachlorobenzene	ND	0.23		mg/Kg-dry	1	1/23/2015
Hexachlorobutadiene	ND	0.23		mg/Kg-dry	1	1/23/2015
Hexachlorocyclopentadiene	ND	0.23		mg/Kg-dry	1	1/23/2015
Hexachloroethane	ND	0.23		mg/Kg-dry	1	1/23/2015
Indeno(1,2,3-cd)pyrene	ND	0.044		mg/Kg-dry	1	1/23/2015
Isophorone	ND	0.23		mg/Kg-dry	1	1/23/2015
2-Methylnaphthalene	ND	0.23		mg/Kg-dry	1	1/23/2015
2-Methylphenol	ND	0.23		mg/Kg-dry	1	1/23/2015
4-Methylphenol	ND	0.23		mg/Kg-dry	1	1/23/2015
Naphthalene	ND	0.044		mg/Kg-dry	1	1/23/2015
2-Nitroaniline	ND	0.23		mg/Kg-dry	1	1/23/2015
3-Nitroaniline	ND	0.23		mg/Kg-dry	1	1/23/2015
4-Nitroaniline	ND	0.23		mg/Kg-dry	1	1/23/2015
2-Nitrophenol	ND	0.23		mg/Kg-dry	1	1/23/2015
4-Nitrophenol	ND	0.44		mg/Kg-dry	1	1/23/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-19-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:10:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/23/2015		Analyst: DM	
Nitrobenzene	ND	0.044		mg/Kg-dry	1	1/23/2015
N-Nitrosodi-n-propylamine	ND	0.044		mg/Kg-dry	1	1/23/2015
N-Nitrosodimethylamine	ND	0.23		mg/Kg-dry	1	1/23/2015
N-Nitrosodiphenylamine	ND	0.044		mg/Kg-dry	1	1/23/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.23		mg/Kg-dry	1	1/23/2015
Pentachlorophenol	ND	0.044		mg/Kg-dry	1	1/23/2015
Phenanthrene	ND	0.044		mg/Kg-dry	1	1/23/2015
Phenol	ND	0.23		mg/Kg-dry	1	1/23/2015
Pyrene	0.045	0.044		mg/Kg-dry	1	1/23/2015
Pyridine	ND	0.89		mg/Kg-dry	1	1/23/2015
1,2,4-Trichlorobenzene	ND	0.23		mg/Kg-dry	1	1/23/2015
2,4,5-Trichlorophenol	ND	0.23		mg/Kg-dry	1	1/23/2015
2,4,6-Trichlorophenol	ND	0.23		mg/Kg-dry	1	1/23/2015
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 1/21/2015		Analyst: ERP	
Acetone	ND	0.11		mg/Kg-dry	1	1/26/2015
Benzene	ND	0.0072		mg/Kg-dry	1	1/26/2015
Bromodichloromethane	ND	0.0072		mg/Kg-dry	1	1/26/2015
Bromoform	ND	0.0072		mg/Kg-dry	1	1/26/2015
Bromomethane	ND	0.014		mg/Kg-dry	1	1/26/2015
2-Butanone	ND	0.11		mg/Kg-dry	1	1/26/2015
Carbon disulfide	ND	0.072		mg/Kg-dry	1	1/26/2015
Carbon tetrachloride	ND	0.0072		mg/Kg-dry	1	1/26/2015
Chlorobenzene	ND	0.0072		mg/Kg-dry	1	1/26/2015
Chloroethane	ND	0.014		mg/Kg-dry	1	1/26/2015
Chloroform	ND	0.0072		mg/Kg-dry	1	1/26/2015
Chloromethane	ND	0.014		mg/Kg-dry	1	1/26/2015
Dibromochloromethane	ND	0.0072		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethane	ND	0.0072		mg/Kg-dry	1	1/26/2015
1,2-Dichloroethane	ND	0.0072		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethene	ND	0.0072		mg/Kg-dry	1	1/26/2015
cis-1,2-Dichloroethene	ND	0.0072		mg/Kg-dry	1	1/26/2015
trans-1,2-Dichloroethene	ND	0.0072		mg/Kg-dry	1	1/26/2015
1,2-Dichloropropane	ND	0.0072		mg/Kg-dry	1	1/26/2015
cis-1,3-Dichloropropene	ND	0.0029		mg/Kg-dry	1	1/26/2015
trans-1,3-Dichloropropene	ND	0.0029		mg/Kg-dry	1	1/26/2015
Ethylbenzene	ND	0.0072		mg/Kg-dry	1	1/26/2015
2-Hexanone	ND	0.029		mg/Kg-dry	1	1/26/2015
4-Methyl-2-pentanone	ND	0.029		mg/Kg-dry	1	1/26/2015

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
 * - Non-accredited parameter H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-19-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:10:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/21/2015	Analyst: ERP
Methylene chloride	ND	0.014		mg/Kg-dry	1	1/26/2015
Methyl tert-butyl ether	ND	0.0072		mg/Kg-dry	1	1/26/2015
Styrene	ND	0.0072		mg/Kg-dry	1	1/26/2015
1,1,2,2-Tetrachloroethane	ND	0.0072		mg/Kg-dry	1	1/26/2015
Tetrachloroethene	ND	0.0072		mg/Kg-dry	1	1/26/2015
Toluene	ND	0.0072		mg/Kg-dry	1	1/26/2015
1,1,1-Trichloroethane	ND	0.0072		mg/Kg-dry	1	1/26/2015
1,1,2-Trichloroethane	ND	0.0072		mg/Kg-dry	1	1/26/2015
Trichloroethene	ND	0.0072		mg/Kg-dry	1	1/26/2015
Vinyl chloride	ND	0.0072		mg/Kg-dry	1	1/26/2015
Xylenes, Total	ND	0.022		mg/Kg-dry	1	1/26/2015
Cyanide, Total	SW9012A				Prep Date: 1/23/2015	Analyst: YZ
Cyanide	ND	0.34		mg/Kg-dry	1	1/23/2015
pH (25 °C)	SW9045C				Prep Date: 1/21/2015	Analyst: RW
pH	7.9			pH Units	1	1/21/2015
Percent Moisture	D2974				Prep Date: 1/21/2015	Analyst: RW
Percent Moisture	25.5	0.2	*	wt%	1	1/22/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-19-2

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:20:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/21/2015		Analyst: GVC
Aroclor 1016	ND	0.090		mg/Kg-dry	1	1/21/2015
Aroclor 1221	ND	0.090		mg/Kg-dry	1	1/21/2015
Aroclor 1232	ND	0.090		mg/Kg-dry	1	1/21/2015
Aroclor 1242	ND	0.090		mg/Kg-dry	1	1/21/2015
Aroclor 1248	ND	0.090		mg/Kg-dry	1	1/21/2015
Aroclor 1254	ND	0.090		mg/Kg-dry	1	1/21/2015
Aroclor 1260	ND	0.090		mg/Kg-dry	1	1/21/2015
Mercury	SW7471A			Prep Date: 1/22/2015		Analyst: LB
Mercury	ND	0.021		mg/Kg-dry	1	1/22/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/23/2015		Analyst: JG
Antimony	ND	2.1		mg/Kg-dry	10	1/26/2015
Arsenic	7.1	1.1		mg/Kg-dry	10	1/26/2015
Beryllium	ND	0.54		mg/Kg-dry	10	1/26/2015
Cadmium	ND	0.54		mg/Kg-dry	10	1/26/2015
Chromium	13	1.1		mg/Kg-dry	10	1/26/2015
Copper	14	2.7		mg/Kg-dry	10	1/26/2015
Lead	9.9	0.54		mg/Kg-dry	10	1/26/2015
Nickel	17	1.1		mg/Kg-dry	10	1/26/2015
Selenium	1.0	0.54		mg/Kg-dry	10	1/26/2015
Silver	ND	1.1		mg/Kg-dry	10	1/26/2015
Thallium	ND	1.1		mg/Kg-dry	10	1/26/2015
Zinc	37	5.4		mg/Kg-dry	10	1/26/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)			Prep Date: 1/23/2015		Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	1/23/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	1/23/2015
Anthracene	ND	0.037		mg/Kg-dry	1	1/23/2015
Benz(a)anthracene	ND	0.037		mg/Kg-dry	1	1/23/2015
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	1/23/2015
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	1/23/2015
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	1/23/2015
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	1/23/2015
Chrysene	ND	0.037		mg/Kg-dry	1	1/23/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	1/23/2015
Fluoranthene	ND	0.037		mg/Kg-dry	1	1/23/2015
Fluorene	ND	0.037		mg/Kg-dry	1	1/23/2015
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	1/23/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	1/23/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-19-2

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:20:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)				Prep Date: 1/23/2015	Analyst: DM
Phenanthrene	ND	0.037		mg/Kg-dry	1	1/23/2015
Pyrene	ND	0.037		mg/Kg-dry	1	1/23/2015
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/21/2015	Analyst: ERP
Acetone	ND	0.082		mg/Kg-dry	1	1/26/2015
Benzene	ND	0.0055		mg/Kg-dry	1	1/26/2015
Bromodichloromethane	ND	0.0055		mg/Kg-dry	1	1/26/2015
Bromoform	ND	0.0055		mg/Kg-dry	1	1/26/2015
Bromomethane	ND	0.011		mg/Kg-dry	1	1/26/2015
2-Butanone	ND	0.082		mg/Kg-dry	1	1/26/2015
Carbon disulfide	ND	0.055		mg/Kg-dry	1	1/26/2015
Carbon tetrachloride	ND	0.0055		mg/Kg-dry	1	1/26/2015
Chlorobenzene	ND	0.0055		mg/Kg-dry	1	1/26/2015
Chloroethane	ND	0.011		mg/Kg-dry	1	1/26/2015
Chloroform	ND	0.0055		mg/Kg-dry	1	1/26/2015
Chloromethane	ND	0.011		mg/Kg-dry	1	1/26/2015
Dibromochloromethane	ND	0.0055		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethane	ND	0.0055		mg/Kg-dry	1	1/26/2015
1,2-Dichloroethane	ND	0.0055		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethene	ND	0.0055		mg/Kg-dry	1	1/26/2015
cis-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	1/26/2015
trans-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	1/26/2015
1,2-Dichloropropane	ND	0.0055		mg/Kg-dry	1	1/26/2015
cis-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	1/26/2015
trans-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	1/26/2015
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	1/26/2015
2-Hexanone	ND	0.022		mg/Kg-dry	1	1/26/2015
4-Methyl-2-pentanone	ND	0.022		mg/Kg-dry	1	1/26/2015
Methylene chloride	ND	0.011		mg/Kg-dry	1	1/26/2015
Methyl tert-butyl ether	ND	0.0055		mg/Kg-dry	1	1/26/2015
Styrene	ND	0.0055		mg/Kg-dry	1	1/26/2015
1,1,2,2-Tetrachloroethane	ND	0.0055		mg/Kg-dry	1	1/26/2015
Tetrachloroethene	ND	0.0055		mg/Kg-dry	1	1/26/2015
Toluene	ND	0.0055		mg/Kg-dry	1	1/26/2015
1,1,1-Trichloroethane	ND	0.0055		mg/Kg-dry	1	1/26/2015
1,1,2-Trichloroethane	ND	0.0055		mg/Kg-dry	1	1/26/2015
Trichloroethene	ND	0.0055		mg/Kg-dry	1	1/26/2015
Vinyl chloride	ND	0.0055		mg/Kg-dry	1	1/26/2015
Xylenes, Total	ND	0.016		mg/Kg-dry	1	1/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-19-2

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:20:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Percent Moisture	D2974				Prep Date: 1/21/2015	Analyst: RW
Percent Moisture	12.1	0.2	*	wt%	1	1/22/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-19-3

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:25:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)				Prep Date: 1/21/2015	Analyst: GVC
Aroclor 1016	ND	0.097		mg/Kg-dry	1	1/21/2015
Aroclor 1221	ND	0.097		mg/Kg-dry	1	1/21/2015
Aroclor 1232	ND	0.097		mg/Kg-dry	1	1/21/2015
Aroclor 1242	ND	0.097		mg/Kg-dry	1	1/21/2015
Aroclor 1248	ND	0.097		mg/Kg-dry	1	1/21/2015
Aroclor 1254	ND	0.097		mg/Kg-dry	1	1/21/2015
Aroclor 1260	ND	0.097		mg/Kg-dry	1	1/21/2015
Mercury	SW7471A				Prep Date: 1/22/2015	Analyst: LB
Mercury	ND	0.023		mg/Kg-dry	1	1/22/2015
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 1/27/2015	Analyst: JG
Arsenic	22	1.2		mg/Kg-dry	10	1/27/2015
Barium	140	1.2		mg/Kg-dry	10	1/27/2015
Cadmium	0.84	0.61		mg/Kg-dry	10	1/27/2015
Chromium	16	1.2		mg/Kg-dry	10	1/27/2015
Lead	51	0.61		mg/Kg-dry	10	1/27/2015
Selenium	2.9	0.61		mg/Kg-dry	10	1/27/2015
Silver	ND	1.2		mg/Kg-dry	10	1/27/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)				Prep Date: 1/23/2015	Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	1/23/2015
Acenaphthylene	ND	0.040		mg/Kg-dry	1	1/23/2015
Anthracene	ND	0.040		mg/Kg-dry	1	1/23/2015
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	1/23/2015
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	1/23/2015
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	1/23/2015
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	1/23/2015
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	1/23/2015
Chrysene	ND	0.040		mg/Kg-dry	1	1/23/2015
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	1/23/2015
Fluoranthene	ND	0.040		mg/Kg-dry	1	1/23/2015
Fluorene	ND	0.040		mg/Kg-dry	1	1/23/2015
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	1/23/2015
Naphthalene	0.055	0.040		mg/Kg-dry	1	1/23/2015
Phenanthrene	0.052	0.040		mg/Kg-dry	1	1/23/2015
Pyrene	ND	0.040		mg/Kg-dry	1	1/23/2015
Percent Moisture	D2974				Prep Date: 1/21/2015	Analyst: RW
Percent Moisture	18.4	0.2	*	wt%	1	1/22/2015

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
 * - Non-accredited parameter H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-21-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:40:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs						
	SW8082 (SW3550B)			Prep Date: 1/22/2015		Analyst: GVC
Aroclor 1016	ND	0.086		mg/Kg-dry	1	1/23/2015
Aroclor 1221	ND	0.086		mg/Kg-dry	1	1/23/2015
Aroclor 1232	ND	0.086		mg/Kg-dry	1	1/23/2015
Aroclor 1242	ND	0.086		mg/Kg-dry	1	1/23/2015
Aroclor 1248	ND	0.086		mg/Kg-dry	1	1/23/2015
Aroclor 1254	ND	0.086		mg/Kg-dry	1	1/23/2015
Aroclor 1260	ND	0.086		mg/Kg-dry	1	1/23/2015
Pesticides						
	SW8081 (SW3550B)			Prep Date: 1/22/2015		Analyst: GVC
4,4'-DDD	ND	0.0017		mg/Kg-dry	1	1/23/2015
4,4'-DDE	ND	0.0017		mg/Kg-dry	1	1/23/2015
4,4'-DDT	ND	0.0017		mg/Kg-dry	1	1/23/2015
Aldrin	ND	0.0017		mg/Kg-dry	1	1/23/2015
alpha-BHC	ND	0.0017		mg/Kg-dry	1	1/23/2015
alpha-Chlordane	ND	0.0017		mg/Kg-dry	1	1/23/2015
beta-BHC	ND	0.0017		mg/Kg-dry	1	1/23/2015
Chlordane	ND	0.017		mg/Kg-dry	1	1/23/2015
delta-BHC	ND	0.0017		mg/Kg-dry	1	1/23/2015
Dieldrin	ND	0.0017		mg/Kg-dry	1	1/23/2015
Endosulfan I	ND	0.0017		mg/Kg-dry	1	1/23/2015
Endosulfan II	ND	0.0017		mg/Kg-dry	1	1/23/2015
Endosulfan sulfate	ND	0.0017		mg/Kg-dry	1	1/23/2015
Endrin	ND	0.0017		mg/Kg-dry	1	1/23/2015
Endrin aldehyde	ND	0.0017		mg/Kg-dry	1	1/23/2015
Endrin ketone	ND	0.0017		mg/Kg-dry	1	1/23/2015
gamma-BHC	ND	0.0017		mg/Kg-dry	1	1/23/2015
gamma-Chlordane	ND	0.0017		mg/Kg-dry	1	1/23/2015
Heptachlor	ND	0.0017		mg/Kg-dry	1	1/23/2015
Heptachlor epoxide	ND	0.0017		mg/Kg-dry	1	1/23/2015
Methoxychlor	ND	0.0017		mg/Kg-dry	1	1/23/2015
Toxaphene	ND	0.035		mg/Kg-dry	1	1/23/2015
Mercury						
	SW7471A			Prep Date: 1/22/2015		Analyst: LB
Mercury	ND	0.021		mg/Kg-dry	1	1/22/2015
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 1/23/2015		Analyst: JG
Aluminum	1700	210		mg/Kg-dry	100	1/26/2015
Antimony	ND	2.1		mg/Kg-dry	10	1/26/2015
Arsenic	44	1.0		mg/Kg-dry	10	1/24/2015
Barium	16	1.0		mg/Kg-dry	10	1/24/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-21-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:40:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/23/2015		Analyst: JG
Beryllium	ND	0.52		mg/Kg-dry	10	1/24/2015
Cadmium	ND	0.52		mg/Kg-dry	10	1/24/2015
Calcium	100000	630		mg/Kg-dry	100	1/26/2015
Chromium	5.4	1.0		mg/Kg-dry	10	1/24/2015
Cobalt	3.2	1.0		mg/Kg-dry	10	1/24/2015
Copper	25	2.6		mg/Kg-dry	10	1/24/2015
Iron	13000	310		mg/Kg-dry	100	1/26/2015
Lead	880	0.52		mg/Kg-dry	10	1/24/2015
Magnesium	61000	310		mg/Kg-dry	100	1/26/2015
Manganese	290	1.0		mg/Kg-dry	10	1/24/2015
Nickel	9.5	1.0		mg/Kg-dry	10	1/24/2015
Potassium	390	31		mg/Kg-dry	10	1/24/2015
Selenium	ND	0.52		mg/Kg-dry	10	1/24/2015
Silver	ND	1.0		mg/Kg-dry	10	1/24/2015
Sodium	120	63		mg/Kg-dry	10	1/26/2015
Thallium	ND	1.0		mg/Kg-dry	10	1/24/2015
Vanadium	8.6	1.0		mg/Kg-dry	10	1/24/2015
Zinc	24	5.2		mg/Kg-dry	10	1/24/2015
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)			Prep Date: 1/23/2015		Analyst: DM
Acenaphthene	ND	0.035		mg/Kg-dry	1	1/23/2015
Acenaphthylene	ND	0.035		mg/Kg-dry	1	1/23/2015
Aniline	ND	0.36		mg/Kg-dry	1	1/23/2015
Anthracene	0.045	0.035		mg/Kg-dry	1	1/23/2015
Benz(a)anthracene	0.11	0.035		mg/Kg-dry	1	1/23/2015
Benzidine	ND	0.35		mg/Kg-dry	1	1/23/2015
Benzo(a)pyrene	0.12	0.035		mg/Kg-dry	1	1/23/2015
Benzo(b)fluoranthene	0.14	0.035		mg/Kg-dry	1	1/23/2015
Benzo(g,h,i)perylene	0.099	0.035		mg/Kg-dry	1	1/23/2015
Benzo(k)fluoranthene	0.10	0.035		mg/Kg-dry	1	1/23/2015
Benzoic acid	ND	0.89		mg/Kg-dry	1	1/23/2015
Benzyl alcohol	ND	0.18		mg/Kg-dry	1	1/23/2015
Bis(2-chloroethoxy)methane	ND	0.18		mg/Kg-dry	1	1/23/2015
Bis(2-chloroethyl)ether	ND	0.18		mg/Kg-dry	1	1/23/2015
Bis(2-ethylhexyl)phthalate	ND	0.89		mg/Kg-dry	1	1/23/2015
4-Bromophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	1/23/2015
Butyl benzyl phthalate	ND	0.18		mg/Kg-dry	1	1/23/2015
Carbazole	ND	0.18		mg/Kg-dry	1	1/23/2015
4-Chloroaniline	ND	0.18		mg/Kg-dry	1	1/23/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-21-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:40:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/23/2015		Analyst: DM	
4-Chloro-3-methylphenol	ND	0.35		mg/Kg-dry	1	1/23/2015
2-Chloronaphthalene	ND	0.18		mg/Kg-dry	1	1/23/2015
2-Chlorophenol	ND	0.18		mg/Kg-dry	1	1/23/2015
4-Chlorophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	1/23/2015
Chrysene	0.14	0.035		mg/Kg-dry	1	1/23/2015
Dibenz(a,h)anthracene	ND	0.035		mg/Kg-dry	1	1/23/2015
Dibenzofuran	ND	0.18		mg/Kg-dry	1	1/23/2015
1,2-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	1/23/2015
1,3-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	1/23/2015
1,4-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	1/23/2015
3,3'-Dichlorobenzidine	ND	0.18		mg/Kg-dry	1	1/23/2015
2,4-Dichlorophenol	ND	0.18		mg/Kg-dry	1	1/23/2015
Diethyl phthalate	ND	0.18		mg/Kg-dry	1	1/23/2015
2,4-Dimethylphenol	ND	0.18		mg/Kg-dry	1	1/23/2015
Dimethyl phthalate	ND	0.18		mg/Kg-dry	1	1/23/2015
4,6-Dinitro-2-methylphenol	ND	0.35		mg/Kg-dry	1	1/23/2015
2,4-Dinitrophenol	ND	0.89		mg/Kg-dry	1	1/23/2015
2,4-Dinitrotoluene	ND	0.035		mg/Kg-dry	1	1/23/2015
2,6-Dinitrotoluene	ND	0.035		mg/Kg-dry	1	1/23/2015
Di-n-butyl phthalate	ND	0.18		mg/Kg-dry	1	1/23/2015
Di-n-octyl phthalate	ND	0.18		mg/Kg-dry	1	1/23/2015
Fluoranthene	0.17	0.035		mg/Kg-dry	1	1/23/2015
Fluorene	ND	0.035		mg/Kg-dry	1	1/23/2015
Hexachlorobenzene	ND	0.18		mg/Kg-dry	1	1/23/2015
Hexachlorobutadiene	ND	0.18		mg/Kg-dry	1	1/23/2015
Hexachlorocyclopentadiene	ND	0.18		mg/Kg-dry	1	1/23/2015
Hexachloroethane	ND	0.18		mg/Kg-dry	1	1/23/2015
Indeno(1,2,3-cd)pyrene	0.075	0.035		mg/Kg-dry	1	1/23/2015
Isophorone	ND	0.18		mg/Kg-dry	1	1/23/2015
2-Methylnaphthalene	ND	0.18		mg/Kg-dry	1	1/23/2015
2-Methylphenol	ND	0.18		mg/Kg-dry	1	1/23/2015
4-Methylphenol	ND	0.18		mg/Kg-dry	1	1/23/2015
Naphthalene	ND	0.035		mg/Kg-dry	1	1/23/2015
2-Nitroaniline	ND	0.18		mg/Kg-dry	1	1/23/2015
3-Nitroaniline	ND	0.18		mg/Kg-dry	1	1/23/2015
4-Nitroaniline	ND	0.18		mg/Kg-dry	1	1/23/2015
2-Nitrophenol	ND	0.18		mg/Kg-dry	1	1/23/2015
4-Nitrophenol	ND	0.35		mg/Kg-dry	1	1/23/2015

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-21-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:40:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 1/23/2015		Analyst: DM
Nitrobenzene	ND	0.035		mg/Kg-dry	1	1/23/2015
N-Nitrosodi-n-propylamine	ND	0.035		mg/Kg-dry	1	1/23/2015
N-Nitrosodimethylamine	ND	0.18		mg/Kg-dry	1	1/23/2015
N-Nitrosodiphenylamine	ND	0.035		mg/Kg-dry	1	1/23/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.18		mg/Kg-dry	1	1/23/2015
Pentachlorophenol	ND	0.035		mg/Kg-dry	1	1/23/2015
Phenanthrene	0.069	0.035		mg/Kg-dry	1	1/23/2015
Phenol	ND	0.18		mg/Kg-dry	1	1/23/2015
Pyrene	0.16	0.035		mg/Kg-dry	1	1/23/2015
Pyridine	ND	0.72		mg/Kg-dry	1	1/23/2015
1,2,4-Trichlorobenzene	ND	0.18		mg/Kg-dry	1	1/23/2015
2,4,5-Trichlorophenol	ND	0.18		mg/Kg-dry	1	1/23/2015
2,4,6-Trichlorophenol	ND	0.18		mg/Kg-dry	1	1/23/2015
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 1/21/2015		Analyst: ERP
Acetone	ND	0.10		mg/Kg-dry	1	1/26/2015
Benzene	ND	0.0068		mg/Kg-dry	1	1/26/2015
Bromodichloromethane	ND	0.0068		mg/Kg-dry	1	1/26/2015
Bromoform	ND	0.0068		mg/Kg-dry	1	1/26/2015
Bromomethane	ND	0.014		mg/Kg-dry	1	1/26/2015
2-Butanone	ND	0.10		mg/Kg-dry	1	1/26/2015
Carbon disulfide	ND	0.068		mg/Kg-dry	1	1/26/2015
Carbon tetrachloride	ND	0.0068		mg/Kg-dry	1	1/26/2015
Chlorobenzene	ND	0.0068		mg/Kg-dry	1	1/26/2015
Chloroethane	ND	0.014		mg/Kg-dry	1	1/26/2015
Chloroform	ND	0.0068		mg/Kg-dry	1	1/26/2015
Chloromethane	ND	0.014		mg/Kg-dry	1	1/26/2015
Dibromochloromethane	ND	0.0068		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethane	ND	0.0068		mg/Kg-dry	1	1/26/2015
1,2-Dichloroethane	ND	0.0068		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethene	ND	0.0068		mg/Kg-dry	1	1/26/2015
cis-1,2-Dichloroethene	ND	0.0068		mg/Kg-dry	1	1/26/2015
trans-1,2-Dichloroethene	ND	0.0068		mg/Kg-dry	1	1/26/2015
1,2-Dichloropropane	ND	0.0068		mg/Kg-dry	1	1/26/2015
cis-1,3-Dichloropropene	ND	0.0027		mg/Kg-dry	1	1/26/2015
trans-1,3-Dichloropropene	ND	0.0027		mg/Kg-dry	1	1/26/2015
Ethylbenzene	ND	0.0068		mg/Kg-dry	1	1/26/2015
2-Hexanone	ND	0.027		mg/Kg-dry	1	1/26/2015
4-Methyl-2-pentanone	ND	0.027		mg/Kg-dry	1	1/26/2015

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-21-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:40:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/21/2015	Analyst: ERP
Methylene chloride	ND	0.014		mg/Kg-dry	1	1/26/2015
Methyl tert-butyl ether	ND	0.0068		mg/Kg-dry	1	1/26/2015
Styrene	ND	0.0068		mg/Kg-dry	1	1/26/2015
1,1,2,2-Tetrachloroethane	ND	0.0068		mg/Kg-dry	1	1/26/2015
Tetrachloroethene	ND	0.0068		mg/Kg-dry	1	1/26/2015
Toluene	ND	0.0068		mg/Kg-dry	1	1/26/2015
1,1,1-Trichloroethane	ND	0.0068		mg/Kg-dry	1	1/26/2015
1,1,2-Trichloroethane	ND	0.0068		mg/Kg-dry	1	1/26/2015
Trichloroethene	ND	0.0068		mg/Kg-dry	1	1/26/2015
Vinyl chloride	ND	0.0068		mg/Kg-dry	1	1/26/2015
Xylenes, Total	ND	0.020		mg/Kg-dry	1	1/26/2015
Cyanide, Total	SW9012A				Prep Date: 1/23/2015	Analyst: YZ
Cyanide	ND	0.27		mg/Kg-dry	1	1/23/2015
pH (25 °C)	SW9045C				Prep Date: 1/21/2015	Analyst: RW
pH	8.6			pH Units	1	1/21/2015
Percent Moisture	D2974				Prep Date: 1/21/2015	Analyst: RW
Percent Moisture	7.5	0.2	*	wt%	1	1/22/2015

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-21-2

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:50:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/21/2015		Analyst: GVC
Aroclor 1016	ND	0.091		mg/Kg-dry	1	1/21/2015
Aroclor 1221	ND	0.091		mg/Kg-dry	1	1/21/2015
Aroclor 1232	ND	0.091		mg/Kg-dry	1	1/21/2015
Aroclor 1242	ND	0.091		mg/Kg-dry	1	1/21/2015
Aroclor 1248	ND	0.091		mg/Kg-dry	1	1/21/2015
Aroclor 1254	ND	0.091		mg/Kg-dry	1	1/21/2015
Aroclor 1260	ND	0.091		mg/Kg-dry	1	1/21/2015
Mercury	SW7471A			Prep Date: 1/22/2015		Analyst: LB
Mercury	ND	0.021		mg/Kg-dry	1	1/22/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/23/2015		Analyst: JG
Antimony	ND	2.2		mg/Kg-dry	10	1/26/2015
Arsenic	16	1.1		mg/Kg-dry	10	1/26/2015
Beryllium	ND	0.56		mg/Kg-dry	10	1/26/2015
Cadmium	0.72	0.56		mg/Kg-dry	10	1/26/2015
Chromium	33	1.1		mg/Kg-dry	10	1/26/2015
Copper	63	2.8		mg/Kg-dry	10	1/26/2015
Lead	88	0.56		mg/Kg-dry	10	1/26/2015
Nickel	51	1.1		mg/Kg-dry	10	1/26/2015
Selenium	ND	0.56		mg/Kg-dry	10	1/26/2015
Silver	ND	1.1		mg/Kg-dry	10	1/26/2015
Thallium	ND	1.1		mg/Kg-dry	10	1/26/2015
Zinc	170	5.6		mg/Kg-dry	10	1/26/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)			Prep Date: 1/23/2015		Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	1/23/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	1/23/2015
Anthracene	ND	0.038		mg/Kg-dry	1	1/23/2015
Benz(a)anthracene	0.058	0.038		mg/Kg-dry	1	1/23/2015
Benzo(a)pyrene	0.090	0.038		mg/Kg-dry	1	1/23/2015
Benzo(b)fluoranthene	0.10	0.038		mg/Kg-dry	1	1/23/2015
Benzo(g,h,i)perylene	0.084	0.038		mg/Kg-dry	1	1/23/2015
Benzo(k)fluoranthene	0.075	0.038		mg/Kg-dry	1	1/23/2015
Chrysene	0.096	0.038		mg/Kg-dry	1	1/23/2015
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	1/23/2015
Fluoranthene	0.11	0.038		mg/Kg-dry	1	1/23/2015
Fluorene	ND	0.038		mg/Kg-dry	1	1/23/2015
Indeno(1,2,3-cd)pyrene	0.067	0.038		mg/Kg-dry	1	1/23/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	1/23/2015

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-21-2

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:50:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)					Prep Date: 1/23/2015 Analyst: DM
Phenanthrene	0.060	0.038		mg/Kg-dry	1	1/23/2015
Pyrene	0.092	0.038		mg/Kg-dry	1	1/23/2015
Volatile Organic Compounds by GC/MS	SW5035/8260B					Prep Date: 1/21/2015 Analyst: ERP
Acetone	ND	0.22		mg/Kg-dry	1	1/26/2015
Benzene	ND	0.015		mg/Kg-dry	1	1/26/2015
Bromodichloromethane	ND	0.015		mg/Kg-dry	1	1/26/2015
Bromoform	ND	0.015		mg/Kg-dry	1	1/26/2015
Bromomethane	ND	0.030		mg/Kg-dry	1	1/26/2015
2-Butanone	ND	0.22		mg/Kg-dry	1	1/26/2015
Carbon disulfide	ND	0.15		mg/Kg-dry	1	1/26/2015
Carbon tetrachloride	ND	0.015		mg/Kg-dry	1	1/26/2015
Chlorobenzene	ND	0.015		mg/Kg-dry	1	1/26/2015
Chloroethane	ND	0.030		mg/Kg-dry	1	1/26/2015
Chloroform	ND	0.015		mg/Kg-dry	1	1/26/2015
Chloromethane	ND	0.030		mg/Kg-dry	1	1/26/2015
Dibromochloromethane	ND	0.015		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethane	ND	0.015		mg/Kg-dry	1	1/26/2015
1,2-Dichloroethane	ND	0.015		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethene	ND	0.015		mg/Kg-dry	1	1/26/2015
cis-1,2-Dichloroethene	ND	0.015		mg/Kg-dry	1	1/26/2015
trans-1,2-Dichloroethene	ND	0.015		mg/Kg-dry	1	1/26/2015
1,2-Dichloropropane	ND	0.015		mg/Kg-dry	1	1/26/2015
cis-1,3-Dichloropropene	ND	0.0059		mg/Kg-dry	1	1/26/2015
trans-1,3-Dichloropropene	ND	0.0059		mg/Kg-dry	1	1/26/2015
Ethylbenzene	ND	0.015		mg/Kg-dry	1	1/26/2015
2-Hexanone	ND	0.059		mg/Kg-dry	1	1/26/2015
4-Methyl-2-pentanone	ND	0.059		mg/Kg-dry	1	1/26/2015
Methylene chloride	ND	0.030		mg/Kg-dry	1	1/26/2015
Methyl tert-butyl ether	ND	0.015		mg/Kg-dry	1	1/26/2015
Styrene	ND	0.015		mg/Kg-dry	1	1/26/2015
1,1,2,2-Tetrachloroethane	ND	0.015		mg/Kg-dry	1	1/26/2015
Tetrachloroethene	ND	0.015		mg/Kg-dry	1	1/26/2015
Toluene	ND	0.015		mg/Kg-dry	1	1/26/2015
1,1,1-Trichloroethane	ND	0.015		mg/Kg-dry	1	1/26/2015
1,1,2-Trichloroethane	ND	0.015		mg/Kg-dry	1	1/26/2015
Trichloroethene	ND	0.015		mg/Kg-dry	1	1/26/2015
Vinyl chloride	ND	0.015		mg/Kg-dry	1	1/26/2015
Xylenes, Total	ND	0.044		mg/Kg-dry	1	1/26/2015

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-21-2

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:50:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Percent Moisture	D2974				Prep Date: 1/21/2015	Analyst: RW
Percent Moisture	12.6	0.2	*	wt%	1	1/22/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-21-3

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 11:55:00 AM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-012

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/21/2015		Analyst: GVC
Aroclor 1016	ND	0.093		mg/Kg-dry	1	1/21/2015
Aroclor 1221	ND	0.093		mg/Kg-dry	1	1/21/2015
Aroclor 1232	ND	0.093		mg/Kg-dry	1	1/21/2015
Aroclor 1242	ND	0.093		mg/Kg-dry	1	1/21/2015
Aroclor 1248	ND	0.093		mg/Kg-dry	1	1/21/2015
Aroclor 1254	ND	0.093		mg/Kg-dry	1	1/21/2015
Aroclor 1260	ND	0.093		mg/Kg-dry	1	1/21/2015
Mercury	SW7471A			Prep Date: 1/22/2015		Analyst: LB
Mercury	ND	0.022		mg/Kg-dry	1	1/22/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/27/2015		Analyst: JG
Arsenic	7.4	1.2		mg/Kg-dry	10	1/27/2015
Barium	78	1.2		mg/Kg-dry	10	1/27/2015
Cadmium	ND	0.58		mg/Kg-dry	10	1/27/2015
Chromium	12	1.2		mg/Kg-dry	10	1/27/2015
Lead	11	0.58		mg/Kg-dry	10	1/27/2015
Selenium	0.69	0.58		mg/Kg-dry	10	1/27/2015
Silver	ND	1.2		mg/Kg-dry	10	1/27/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)			Prep Date: 1/23/2015		Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	1/23/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	1/23/2015
Anthracene	ND	0.038		mg/Kg-dry	1	1/23/2015
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	1/23/2015
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	1/23/2015
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	1/23/2015
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	1/23/2015
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	1/23/2015
Chrysene	ND	0.038		mg/Kg-dry	1	1/23/2015
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	1/23/2015
Fluoranthene	ND	0.038		mg/Kg-dry	1	1/23/2015
Fluorene	ND	0.038		mg/Kg-dry	1	1/23/2015
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	1/23/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	1/23/2015
Phenanthrene	ND	0.038		mg/Kg-dry	1	1/23/2015
Pyrene	ND	0.038		mg/Kg-dry	1	1/23/2015
Percent Moisture	D2974			Prep Date: 1/21/2015		Analyst: RW
Percent Moisture	14.7	0.2	*	wt%	1	1/22/2015

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
 * - Non-accredited parameter H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-23-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 12:10:00 PM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/21/2015		Analyst: GVC
Aroclor 1016	ND	0.089		mg/Kg-dry	1	1/21/2015
Aroclor 1221	ND	0.089		mg/Kg-dry	1	1/21/2015
Aroclor 1232	ND	0.089		mg/Kg-dry	1	1/21/2015
Aroclor 1242	ND	0.089		mg/Kg-dry	1	1/21/2015
Aroclor 1248	ND	0.089		mg/Kg-dry	1	1/21/2015
Aroclor 1254	ND	0.089		mg/Kg-dry	1	1/21/2015
Aroclor 1260	ND	0.089		mg/Kg-dry	1	1/21/2015
Pesticides	SW8081 (SW3550B)			Prep Date: 1/21/2015		Analyst: GVC
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	1/21/2015
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	1/21/2015
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	1/21/2015
Aldrin	ND	0.0018		mg/Kg-dry	1	1/21/2015
alpha-BHC	ND	0.0018		mg/Kg-dry	1	1/21/2015
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	1/21/2015
beta-BHC	ND	0.0018		mg/Kg-dry	1	1/21/2015
Chlordane	ND	0.018		mg/Kg-dry	1	1/21/2015
delta-BHC	ND	0.0018		mg/Kg-dry	1	1/21/2015
Dieldrin	ND	0.0018		mg/Kg-dry	1	1/21/2015
Endosulfan I	ND	0.0018		mg/Kg-dry	1	1/21/2015
Endosulfan II	ND	0.0018		mg/Kg-dry	1	1/21/2015
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	1/21/2015
Endrin	ND	0.0018		mg/Kg-dry	1	1/21/2015
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	1/21/2015
Endrin ketone	ND	0.0018		mg/Kg-dry	1	1/21/2015
gamma-BHC	ND	0.0018		mg/Kg-dry	1	1/21/2015
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	1/21/2015
Heptachlor	ND	0.0018		mg/Kg-dry	1	1/21/2015
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	1/21/2015
Methoxychlor	ND	0.0018		mg/Kg-dry	1	1/21/2015
Toxaphene	ND	0.037		mg/Kg-dry	1	1/21/2015
Mercury	SW7471A			Prep Date: 1/22/2015		Analyst: LB
Mercury	0.13	0.021		mg/Kg-dry	1	1/22/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/23/2015		Analyst: JG
Aluminum	2600	190		mg/Kg-dry	100	1/26/2015
Antimony	4.3	1.9		mg/Kg-dry	10	1/26/2015
Arsenic	300	0.93		mg/Kg-dry	10	1/24/2015
Barium	77	0.93		mg/Kg-dry	10	1/24/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-23-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 12:10:00 PM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/23/2015		Analyst: JG
Beryllium	ND	0.47		mg/Kg-dry	10	1/24/2015
Cadmium	2.2	0.47		mg/Kg-dry	10	1/24/2015
Calcium	64000	560		mg/Kg-dry	100	1/26/2015
Chromium	22	0.93		mg/Kg-dry	10	1/24/2015
Cobalt	7.4	0.93		mg/Kg-dry	10	1/24/2015
Copper	110	2.3		mg/Kg-dry	10	1/24/2015
Iron	41000	280		mg/Kg-dry	100	1/26/2015
Lead	310	0.47		mg/Kg-dry	10	1/24/2015
Magnesium	40000	280		mg/Kg-dry	100	1/26/2015
Manganese	450	0.93		mg/Kg-dry	10	1/24/2015
Nickel	27	0.93		mg/Kg-dry	10	1/24/2015
Potassium	400	28		mg/Kg-dry	10	1/24/2015
Selenium	1.1	0.47		mg/Kg-dry	10	1/24/2015
Silver	ND	0.93		mg/Kg-dry	10	1/24/2015
Sodium	96	56		mg/Kg-dry	10	1/26/2015
Thallium	ND	0.93		mg/Kg-dry	10	1/24/2015
Vanadium	20	0.93		mg/Kg-dry	10	1/24/2015
Zinc	220	4.7		mg/Kg-dry	10	1/24/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 2/2/2015		Analyst: JG
Arsenic	ND	0.010		mg/L	5	2/3/2015
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)			Prep Date: 1/23/2015		Analyst: DM
Acenaphthene	0.68	0.036		mg/Kg-dry	1	1/23/2015
Acenaphthylene	0.72	0.036		mg/Kg-dry	1	1/23/2015
Aniline	ND	0.37		mg/Kg-dry	1	1/23/2015
Anthracene	2.6	0.036		mg/Kg-dry	1	1/23/2015
Benz(a)anthracene	6.7	0.18		mg/Kg-dry	5	1/27/2015
Benzidine	ND	0.36		mg/Kg-dry	1	1/23/2015
Benzo(a)pyrene	5.6	0.18		mg/Kg-dry	5	1/27/2015
Benzo(b)fluoranthene	4.8	0.18		mg/Kg-dry	5	1/27/2015
Benzo(g,h,i)perylene	3.2	0.036		mg/Kg-dry	1	1/23/2015
Benzo(k)fluoranthene	4.6	0.18		mg/Kg-dry	5	1/27/2015
Benzoic acid	ND	0.91		mg/Kg-dry	1	1/23/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	1/23/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	1/23/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	1/23/2015
Bis(2-ethylhexyl)phthalate	ND	0.91		mg/Kg-dry	1	1/23/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	1/23/2015

Qualifiers:
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 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 15010403 Revision 2
 Project: CTARPM, Lawrence to Argyle
 Lab ID: 15010403-013

Client Sample ID: RPM-SB-23-1
 Collection Date: 1/20/2015 12:10:00 PM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 1/23/2015		Analyst: DM
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	1/23/2015
Carbazole	0.50	0.19		mg/Kg-dry	1	1/23/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	1/23/2015
4-Chloro-3-methylphenol	ND	0.36		mg/Kg-dry	1	1/23/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	1/23/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	1/23/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	1/23/2015
Chrysene	6.5	0.18		mg/Kg-dry	5	1/27/2015
Dibenz(a,h)anthracene	1.7	0.036		mg/Kg-dry	1	1/23/2015
Dibenzofuran	0.22	0.19		mg/Kg-dry	1	1/23/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/23/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/23/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/23/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	1/23/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	1/23/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	1/23/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	1/23/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	1/23/2015
4,6-Dinitro-2-methylphenol	ND	0.36		mg/Kg-dry	1	1/23/2015
2,4-Dinitrophenol	ND	0.91		mg/Kg-dry	1	1/23/2015
2,4-Dinitrotoluene	ND	0.036		mg/Kg-dry	1	1/23/2015
2,6-Dinitrotoluene	ND	0.036		mg/Kg-dry	1	1/23/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	1/23/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	1/23/2015
Fluoranthene	14	0.18		mg/Kg-dry	5	1/27/2015
Fluorene	0.60	0.036		mg/Kg-dry	1	1/23/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	1/23/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	1/23/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	1/23/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	1/23/2015
Indeno(1,2,3-cd)pyrene	3.2	0.036		mg/Kg-dry	1	1/23/2015
Isophorone	ND	0.19		mg/Kg-dry	1	1/23/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	1/23/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	1/23/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	1/23/2015
Naphthalene	0.060	0.036		mg/Kg-dry	1	1/23/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/23/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/23/2015

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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 E - Value above quantitation range
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.
 Work Order: 15010403 Revision 2
 Project: CTARPM, Lawrence to Argyle
 Lab ID: 15010403-013

Client Sample ID: RPM-SB-23-1
 Collection Date: 1/20/2015 12:10:00 PM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 1/23/2015		Analyst: DM
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/23/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	1/23/2015
4-Nitrophenol	ND	0.36		mg/Kg-dry	1	1/23/2015
Nitrobenzene	ND	0.036		mg/Kg-dry	1	1/23/2015
N-Nitrosodi-n-propylamine	ND	0.036		mg/Kg-dry	1	1/23/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	1/23/2015
N-Nitrosodiphenylamine	ND	0.036		mg/Kg-dry	1	1/23/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	1/23/2015
Pentachlorophenol	ND	0.036		mg/Kg-dry	1	1/23/2015
Phenanthrene	7.3	0.18		mg/Kg-dry	5	1/27/2015
Phenol	ND	0.19		mg/Kg-dry	1	1/23/2015
Pyrene	12	0.18		mg/Kg-dry	5	1/27/2015
Pyridine	ND	0.74		mg/Kg-dry	1	1/23/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	1/23/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	1/23/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	1/23/2015
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 1/21/2015		Analyst: ERP
Acetone	ND	0.12		mg/Kg-dry	1	1/26/2015
Benzene	ND	0.0078		mg/Kg-dry	1	1/26/2015
Bromodichloromethane	ND	0.0078		mg/Kg-dry	1	1/26/2015
Bromoform	ND	0.0078		mg/Kg-dry	1	1/26/2015
Bromomethane	ND	0.016		mg/Kg-dry	1	1/26/2015
2-Butanone	ND	0.12		mg/Kg-dry	1	1/26/2015
Carbon disulfide	ND	0.078		mg/Kg-dry	1	1/26/2015
Carbon tetrachloride	ND	0.0078		mg/Kg-dry	1	1/26/2015
Chlorobenzene	ND	0.0078		mg/Kg-dry	1	1/26/2015
Chloroethane	ND	0.016		mg/Kg-dry	1	1/26/2015
Chloroform	ND	0.0078		mg/Kg-dry	1	1/26/2015
Chloromethane	ND	0.016		mg/Kg-dry	1	1/26/2015
Dibromochloromethane	ND	0.0078		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethane	ND	0.0078		mg/Kg-dry	1	1/26/2015
1,2-Dichloroethane	ND	0.0078		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethene	ND	0.0078		mg/Kg-dry	1	1/26/2015
cis-1,2-Dichloroethene	ND	0.0078		mg/Kg-dry	1	1/26/2015
trans-1,2-Dichloroethene	ND	0.0078		mg/Kg-dry	1	1/26/2015
1,2-Dichloropropane	ND	0.0078		mg/Kg-dry	1	1/26/2015
cis-1,3-Dichloropropene	ND	0.0031		mg/Kg-dry	1	1/26/2015
trans-1,3-Dichloropropene	ND	0.0031		mg/Kg-dry	1	1/26/2015

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
 * - Non-accredited parameter H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-23-1

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 12:10:00 PM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/21/2015	Analyst: ERP
Ethylbenzene	ND	0.0078		mg/Kg-dry	1	1/26/2015
2-Hexanone	ND	0.031		mg/Kg-dry	1	1/26/2015
4-Methyl-2-pentanone	ND	0.031		mg/Kg-dry	1	1/26/2015
Methylene chloride	ND	0.016		mg/Kg-dry	1	1/26/2015
Methyl tert-butyl ether	ND	0.0078		mg/Kg-dry	1	1/26/2015
Styrene	ND	0.0078		mg/Kg-dry	1	1/26/2015
1,1,2,2-Tetrachloroethane	ND	0.0078		mg/Kg-dry	1	1/26/2015
Tetrachloroethene	ND	0.0078		mg/Kg-dry	1	1/26/2015
Toluene	ND	0.0078		mg/Kg-dry	1	1/26/2015
1,1,1-Trichloroethane	ND	0.0078		mg/Kg-dry	1	1/26/2015
1,1,2-Trichloroethane	ND	0.0078		mg/Kg-dry	1	1/26/2015
Trichloroethene	ND	0.0078		mg/Kg-dry	1	1/26/2015
Vinyl chloride	ND	0.0078		mg/Kg-dry	1	1/26/2015
Xylenes, Total	ND	0.023		mg/Kg-dry	1	1/26/2015
Cyanide, Total	SW9012A				Prep Date: 1/23/2015	Analyst: YZ
Cyanide	ND	0.28		mg/Kg-dry	1	1/23/2015
pH (25 °C)	SW9045C				Prep Date: 1/21/2015	Analyst: RW
pH	7.9			pH Units	1	1/21/2015
Percent Moisture	D2974				Prep Date: 1/21/2015	Analyst: RW
Percent Moisture	9.9	0.2	*	wt%	1	1/22/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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RL - Reporting / Quantitation Limit for the analysis
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 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-23-2

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 12:15:00 PM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-014

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/23/2015		Analyst: GVC
Aroclor 1016	ND	0.093		mg/Kg-dry	1	1/26/2015
Aroclor 1221	ND	0.093		mg/Kg-dry	1	1/26/2015
Aroclor 1232	ND	0.093		mg/Kg-dry	1	1/26/2015
Aroclor 1242	ND	0.093		mg/Kg-dry	1	1/26/2015
Aroclor 1248	ND	0.093		mg/Kg-dry	1	1/26/2015
Aroclor 1254	ND	0.093		mg/Kg-dry	1	1/26/2015
Aroclor 1260	ND	0.093		mg/Kg-dry	1	1/26/2015
Pesticides	SW8081 (SW3550B)			Prep Date: 1/23/2015		Analyst: GVC
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	1/26/2015
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	1/26/2015
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	1/26/2015
Aldrin	ND	0.0019		mg/Kg-dry	1	1/26/2015
alpha-BHC	ND	0.0019		mg/Kg-dry	1	1/26/2015
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	1/26/2015
beta-BHC	ND	0.0019		mg/Kg-dry	1	1/26/2015
Chlordane	ND	0.019		mg/Kg-dry	1	1/26/2015
delta-BHC	ND	0.0019		mg/Kg-dry	1	1/26/2015
Dieldrin	ND	0.0019		mg/Kg-dry	1	1/26/2015
Endosulfan I	ND	0.0019		mg/Kg-dry	1	1/26/2015
Endosulfan II	ND	0.0019		mg/Kg-dry	1	1/26/2015
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	1/26/2015
Endrin	ND	0.0019		mg/Kg-dry	1	1/26/2015
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	1/26/2015
Endrin ketone	ND	0.0019		mg/Kg-dry	1	1/26/2015
gamma-BHC	ND	0.0019		mg/Kg-dry	1	1/26/2015
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	1/26/2015
Heptachlor	ND	0.0019		mg/Kg-dry	1	1/26/2015
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	1/26/2015
Methoxychlor	ND	0.0019		mg/Kg-dry	1	1/26/2015
Toxaphene	ND	0.038		mg/Kg-dry	1	1/26/2015
Mercury	SW7471A			Prep Date: 1/22/2015		Analyst: LB
Mercury	0.11	0.021		mg/Kg-dry	1	1/22/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/23/2015		Analyst: JG
Aluminum	3100	240		mg/Kg-dry	100	1/26/2015
Antimony	ND	2.4		mg/Kg-dry	10	1/26/2015
Arsenic	9.3	1.2		mg/Kg-dry	10	1/24/2015
Barium	120	1.2		mg/Kg-dry	10	1/24/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-23-2

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 12:15:00 PM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-014

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 1/23/2015		Analyst: JG
Beryllium	ND	0.60		mg/Kg-dry	10	1/24/2015
Cadmium	0.74	0.60		mg/Kg-dry	10	1/24/2015
Calcium	68000	720		mg/Kg-dry	100	1/26/2015
Chromium	7.8	1.2		mg/Kg-dry	10	1/24/2015
Cobalt	4.0	1.2		mg/Kg-dry	10	1/24/2015
Copper	36	3.0		mg/Kg-dry	10	1/24/2015
Iron	11000	360		mg/Kg-dry	100	1/26/2015
Lead	150	0.60		mg/Kg-dry	10	1/24/2015
Magnesium	33000	360		mg/Kg-dry	100	1/26/2015
Manganese	200	1.2		mg/Kg-dry	10	1/24/2015
Nickel	11	1.2		mg/Kg-dry	10	1/24/2015
Potassium	500	36		mg/Kg-dry	10	1/24/2015
Selenium	0.80	0.60		mg/Kg-dry	10	1/24/2015
Silver	ND	1.2		mg/Kg-dry	10	1/24/2015
Sodium	210	72		mg/Kg-dry	10	1/26/2015
Thallium	ND	1.2		mg/Kg-dry	10	1/24/2015
Vanadium	16	1.2		mg/Kg-dry	10	1/24/2015
Zinc	110	6.0		mg/Kg-dry	10	1/24/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 1/23/2015		Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	1/23/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	1/23/2015
Aniline	ND	0.39		mg/Kg-dry	1	1/23/2015
Anthracene	0.14	0.038		mg/Kg-dry	1	1/23/2015
Benz(a)anthracene	0.69	0.038		mg/Kg-dry	1	1/23/2015
Benzidine	ND	0.38		mg/Kg-dry	1	1/23/2015
Benzo(a)pyrene	0.78	0.038		mg/Kg-dry	1	1/23/2015
Benzo(b)fluoranthene	0.84	0.038		mg/Kg-dry	1	1/23/2015
Benzo(g,h,i)perylene	0.68	0.038		mg/Kg-dry	1	1/23/2015
Benzo(k)fluoranthene	0.59	0.038		mg/Kg-dry	1	1/23/2015
Benzoic acid	ND	0.96		mg/Kg-dry	1	1/23/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	1/23/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	1/23/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	1/23/2015
Bis(2-ethylhexyl)phthalate	ND	0.96		mg/Kg-dry	1	1/23/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	1/23/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	1/23/2015
Carbazole	ND	0.20		mg/Kg-dry	1	1/23/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	1/23/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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HT - Sample received past holding time

E - Value above quantitation range

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-23-2

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 12:15:00 PM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-014

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/23/2015		Analyst: DM	
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	1/23/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	1/23/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	1/23/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	1/23/2015
Chrysene	0.68	0.038		mg/Kg-dry	1	1/23/2015
Dibenz(a,h)anthracene	0.29	0.038		mg/Kg-dry	1	1/23/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	1/23/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/23/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/23/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/23/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	1/23/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	1/23/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	1/23/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	1/23/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	1/23/2015
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	1/23/2015
2,4-Dinitrophenol	ND	0.96		mg/Kg-dry	1	1/23/2015
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	1/23/2015
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	1/23/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	1/23/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	1/23/2015
Fluoranthene	0.93	0.038		mg/Kg-dry	1	1/23/2015
Fluorene	0.051	0.038		mg/Kg-dry	1	1/23/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	1/23/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	1/23/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	1/23/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	1/23/2015
Indeno(1,2,3-cd)pyrene	0.62	0.038		mg/Kg-dry	1	1/23/2015
Isophorone	ND	0.20		mg/Kg-dry	1	1/23/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	1/23/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	1/23/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	1/23/2015
Naphthalene	0.089	0.038		mg/Kg-dry	1	1/23/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/23/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/23/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/23/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	1/23/2015
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	1/23/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
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 * - Non-accredited parameter

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-23-2

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 12:15:00 PM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-014

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 1/23/2015		Analyst: DM
Nitrobenzene	ND	0.038		mg/Kg-dry	1	1/23/2015
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	1/23/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	1/23/2015
N-Nitrosodiphenylamine	ND	0.038		mg/Kg-dry	1	1/23/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	1/23/2015
Pentachlorophenol	ND	0.038		mg/Kg-dry	1	1/23/2015
Phenanthrene	0.34	0.038		mg/Kg-dry	1	1/23/2015
Phenol	ND	0.20		mg/Kg-dry	1	1/23/2015
Pyrene	1.1	0.038		mg/Kg-dry	1	1/23/2015
Pyridine	ND	0.78		mg/Kg-dry	1	1/23/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	1/23/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	1/23/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	1/23/2015
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 1/21/2015		Analyst: ERP
Acetone	ND	0.16		mg/Kg-dry	1	1/26/2015
Benzene	ND	0.011		mg/Kg-dry	1	1/26/2015
Bromodichloromethane	ND	0.011		mg/Kg-dry	1	1/26/2015
Bromoform	ND	0.011		mg/Kg-dry	1	1/26/2015
Bromomethane	ND	0.021		mg/Kg-dry	1	1/26/2015
2-Butanone	ND	0.16		mg/Kg-dry	1	1/26/2015
Carbon disulfide	ND	0.11		mg/Kg-dry	1	1/26/2015
Carbon tetrachloride	ND	0.011		mg/Kg-dry	1	1/26/2015
Chlorobenzene	ND	0.011		mg/Kg-dry	1	1/26/2015
Chloroethane	ND	0.021		mg/Kg-dry	1	1/26/2015
Chloroform	ND	0.011		mg/Kg-dry	1	1/26/2015
Chloromethane	ND	0.021		mg/Kg-dry	1	1/26/2015
Dibromochloromethane	ND	0.011		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethane	ND	0.011		mg/Kg-dry	1	1/26/2015
1,2-Dichloroethane	ND	0.011		mg/Kg-dry	1	1/26/2015
1,1-Dichloroethene	ND	0.011		mg/Kg-dry	1	1/26/2015
cis-1,2-Dichloroethene	ND	0.011		mg/Kg-dry	1	1/26/2015
trans-1,2-Dichloroethene	ND	0.011		mg/Kg-dry	1	1/26/2015
1,2-Dichloropropane	ND	0.011		mg/Kg-dry	1	1/26/2015
cis-1,3-Dichloropropene	ND	0.0043		mg/Kg-dry	1	1/26/2015
trans-1,3-Dichloropropene	ND	0.0043		mg/Kg-dry	1	1/26/2015
Ethylbenzene	ND	0.011		mg/Kg-dry	1	1/26/2015
2-Hexanone	ND	0.043		mg/Kg-dry	1	1/26/2015
4-Methyl-2-pentanone	ND	0.043		mg/Kg-dry	1	1/26/2015

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-23-2

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 12:15:00 PM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-014

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/21/2015	Analyst: ERP
Methylene chloride	ND	0.021		mg/Kg-dry	1	1/26/2015
Methyl tert-butyl ether	ND	0.011		mg/Kg-dry	1	1/26/2015
Styrene	ND	0.011		mg/Kg-dry	1	1/26/2015
1,1,2,2-Tetrachloroethane	ND	0.011		mg/Kg-dry	1	1/26/2015
Tetrachloroethene	ND	0.011		mg/Kg-dry	1	1/26/2015
Toluene	ND	0.011		mg/Kg-dry	1	1/26/2015
1,1,1-Trichloroethane	ND	0.011		mg/Kg-dry	1	1/26/2015
1,1,2-Trichloroethane	ND	0.011		mg/Kg-dry	1	1/26/2015
Trichloroethene	ND	0.011		mg/Kg-dry	1	1/26/2015
Vinyl chloride	ND	0.011		mg/Kg-dry	1	1/26/2015
Xylenes, Total	ND	0.032		mg/Kg-dry	1	1/26/2015
Cyanide, Total	SW9012A				Prep Date: 1/23/2015	Analyst: YZ
Cyanide	ND	0.29		mg/Kg-dry	1	1/23/2015
pH (25 °C)	SW9045C				Prep Date: 1/21/2015	Analyst: RW
pH	7.8			pH Units	1	1/21/2015
Percent Moisture	D2974				Prep Date: 1/21/2015	Analyst: RW
Percent Moisture	14.6	0.2	*	wt%	1	1/22/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-23-3

Work Order: 15010403 Revision 2

Collection Date: 1/20/2015 12:25:00 PM

Project: CTARPM, Lawrence to Argyle

Matrix: Soil

Lab ID: 15010403-015

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)				Prep Date: 1/21/2015	Analyst: GVC
Aroclor 1016	ND	0.086		mg/Kg-dry	1	1/22/2015
Aroclor 1221	ND	0.086		mg/Kg-dry	1	1/22/2015
Aroclor 1232	ND	0.086		mg/Kg-dry	1	1/22/2015
Aroclor 1242	ND	0.086		mg/Kg-dry	1	1/22/2015
Aroclor 1248	ND	0.086		mg/Kg-dry	1	1/22/2015
Aroclor 1254	ND	0.086		mg/Kg-dry	1	1/22/2015
Aroclor 1260	ND	0.086		mg/Kg-dry	1	1/22/2015
Mercury	SW7471A				Prep Date: 1/22/2015	Analyst: LB
Mercury	ND	0.021		mg/Kg-dry	1	1/22/2015
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 1/27/2015	Analyst: JG
Arsenic	3.0	1.0		mg/Kg-dry	10	1/27/2015
Barium	22	1.0		mg/Kg-dry	10	1/27/2015
Cadmium	ND	0.52		mg/Kg-dry	10	1/27/2015
Chromium	7.8	1.0		mg/Kg-dry	10	1/27/2015
Lead	34	0.52		mg/Kg-dry	10	1/27/2015
Selenium	0.62	0.52		mg/Kg-dry	10	1/27/2015
Silver	ND	1.0		mg/Kg-dry	10	1/27/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)				Prep Date: 1/23/2015	Analyst: DM
Acenaphthene	ND	0.035		mg/Kg-dry	1	1/24/2015
Acenaphthylene	ND	0.035		mg/Kg-dry	1	1/24/2015
Anthracene	0.079	0.035		mg/Kg-dry	1	1/24/2015
Benz(a)anthracene	0.26	0.035		mg/Kg-dry	1	1/24/2015
Benzo(a)pyrene	0.30	0.035		mg/Kg-dry	1	1/24/2015
Benzo(b)fluoranthene	0.26	0.035		mg/Kg-dry	1	1/24/2015
Benzo(g,h,i)perylene	0.19	0.035		mg/Kg-dry	1	1/24/2015
Benzo(k)fluoranthene	0.26	0.035		mg/Kg-dry	1	1/24/2015
Chrysene	0.33	0.035		mg/Kg-dry	1	1/24/2015
Dibenz(a,h)anthracene	0.10	0.035		mg/Kg-dry	1	1/24/2015
Fluoranthene	0.54	0.035		mg/Kg-dry	1	1/24/2015
Fluorene	ND	0.035		mg/Kg-dry	1	1/24/2015
Indeno(1,2,3-cd)pyrene	0.20	0.035		mg/Kg-dry	1	1/24/2015
Naphthalene	ND	0.035		mg/Kg-dry	1	1/24/2015
Phenanthrene	0.26	0.035		mg/Kg-dry	1	1/24/2015
Pyrene	0.57	0.035		mg/Kg-dry	1	1/24/2015
Percent Moisture	D2974				Prep Date: 1/21/2015	Analyst: RW
Percent Moisture	7.9	0.2	*	wt%	1	1/22/2015

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
 * - Non-accredited parameter H - Holding time exceeded



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N^o: 858739 Page: of

CHAIN OF CUSTODY RECORD

Company: <u>GSG</u>		Client Tracking No.:	
Project Number: <u>CTAFPM</u>		P.O. No.:	
Project Name: <u>Lawrence to Argyle</u>		Quote No.:	
Project Location: <u>TC / JH / IM / SR</u>		Turn Around: <u>Standard</u>	
Sampler(s): <u>Ted Casney</u>		Results Needed: / /	
Report To: <u>Ted Casney</u>		am/pm	
Phone: <u>312 733 6262</u>		Lab No.:	
Fax: <u>312 733 5612</u>		Remarks	
e-mail: <u>TCasney@GSG-Consu</u>		100's	
QC Level: 1 2 3 4		200's	
Client Sample Number/Description:		300's	
Date Taken		100's	
Time Taken		100's	
Matrix		100's	
Comp.		100's	
Grab		100's	
Preserv.		100's	
No. of Containers		100's	
RPM-SB-16-1		100's	
RPM-SB-16-2		100's	
RPM-SB-16-3		100's	
RPM-SB-18-1		100's	
RPM-SB-18-2		100's	
RPM-SB-18-3		100's	
RPM-SB-19-1		100's	
RPM-SB-19-2		100's	
RPM-SB-19-3		100's	
RPM-SB-21-1		100's	
RPM-SB-21-2		100's	
RPM-SB-21-3		100's	
RPM-SB-23-1		100's	
RPM-SB-23-2		100's	
RPM-SB-23-3		100's	
Date/Time: <u>12/15/10 5:55</u>		Laboratory Work Order No.: <u>15010403</u>	
Date/Time: <u>12/15/10 5:55</u>		Received on Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Date/Time: <u>12/15/10 5:55</u>		Temperature: <u>4.6 °C</u>	
Date/Time: <u>12/15/10 5:55</u>		Preservation Code: A = None B = HNO ₃ C = NaOH	
Date/Time: <u>12/15/10 5:55</u>		D = H ₂ SO ₄ E = HCl F = 5035/EnCore G = Other	

Sample Receipt Checklist

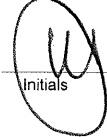
Client Name GSG

Date and Time Received: 1/20/2015 4:55:00 PM

Work Order Number 15010403

Received by: JOK

Checklist completed by:  1/20/15
Signature Date

Reviewed by:  1/21/2015
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature 4.6 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: _____

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

CTARPM, Lawrence to Argyle 15010403

Craig Chawla

From: Thaddeus Cagney [tcagney@gsg-consultants.com]
Sent: Thursday, January 29, 2015 12:31 PM
To: Craig Chawla
Cc: Scott Letzel
Subject: RE: CTARPM, Lawrence to Argyle 15010403

Craig

I need the following additional analysis for the following samples:

RPM-SB-16-2 PNAS
RPM-SB-23-1 TCLP Arsenic

Ted Cagney

GSG CONSULTANTS, INC.

312-733-6262 office
708-712-6828 cell

STAT Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

February 12, 2015

GSG Consultants, Inc.
855 W. Adams
Chicago, IL 60607

Telephone: (312) 733-6262
Fax: (312) 733-5612

Analytical Report for STAT Work Order: 15010465 Revision 1

RE: RPM Redline North, Berwyn-Bryn Mawr

Dear Ted Cagney:

STAT Analysis received 18 samples for the referenced project on 1/22/2015 4:20:00 PM. The analytical results are presented in the following report.

This report is revised to reflect changes made after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Victoria Young

Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: GSG Consultants, Inc.
Project: RPM Redline North, Berwyn-Bryn Mawr
Work Order: 15010465 Revision 1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
15010465-001A	RPM-SB-26-1		1/22/2015 9:10:00 AM	1/22/2015
15010465-001B	RPM-SB-26-1		1/22/2015 9:10:00 AM	1/22/2015
15010465-002A	RPM-SB-26-2		1/22/2015 9:15:00 AM	1/22/2015
15010465-002B	RPM-SB-26-2		1/22/2015 9:15:00 AM	1/22/2015
15010465-003A	RPM-SB-26-3		1/22/2015 9:25:00 AM	1/22/2015
15010465-004A	RPM-SB-28-1		1/22/2015 9:40:00 AM	1/22/2015
15010465-004B	RPM-SB-28-1		1/22/2015 9:40:00 AM	1/22/2015
15010465-005A	RPM-SB-28-2		1/22/2015 9:50:00 AM	1/22/2015
15010465-005B	RPM-SB-28-2		1/22/2015 9:50:00 AM	1/22/2015
15010465-006A	RPM-SB-28-3		1/22/2015 9:55:00 AM	1/22/2015
15010465-007A	RPM-SB-30-1		1/22/2015 10:10:00 AM	1/22/2015
15010465-007B	RPM-SB-30-1		1/22/2015 10:10:00 AM	1/22/2015
15010465-008A	RPM-SB-30-2		1/22/2015 10:15:00 AM	1/22/2015
15010465-009A	RPM-SB-30-3		1/22/2015 10:25:00 AM	1/22/2015
15010465-010A	RPM-SB-32-1		1/22/2015 10:40:00 AM	1/22/2015
15010465-010B	RPM-SB-32-1		1/22/2015 10:40:00 AM	1/22/2015
15010465-011A	RPM-SB-32-2		1/22/2015 10:45:00 AM	1/22/2015
15010465-011B	RPM-SB-32-2		1/22/2015 10:45:00 AM	1/22/2015
15010465-012A	RPM-SB-32-3		1/22/2015 10:50:00 AM	1/22/2015
15010465-013A	RPM-SB-34-1		1/22/2015 11:15:00 AM	1/22/2015
15010465-013B	RPM-SB-34-1		1/22/2015 11:15:00 AM	1/22/2015
15010465-014A	RPM-SB-34-2		1/22/2015 11:20:00 AM	1/22/2015
15010465-014B	RPM-SB-34-2		1/22/2015 11:20:00 AM	1/22/2015
15010465-015A	RPM-SB-34-3		1/22/2015 11:25:00 AM	1/22/2015
15010465-016A	RPM-SB-36-1		1/22/2015 11:40:00 AM	1/22/2015
15010465-016B	RPM-SB-36-1		1/22/2015 11:40:00 AM	1/22/2015
15010465-017A	RPM-SB-36-2		1/22/2015 11:45:00 AM	1/22/2015
15010465-018A	RPM-SB-36-3		1/22/2015 11:55:00 AM	1/22/2015

CLIENT: GSG Consultants, Inc.
Project: RPM Redline North, Berwyn-Bryn Mawr
Work Order: 15010465 Revision 1

CASE NARRATIVE

The VOC soilr Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) analyzed 01/28/2015 had recovery of Bromomethane outside of control limits (57%/65% (LCS/LCSD) recovery, QC limits 70-130%).

Sample RPM-SB-34-1 (15010465) had recovery of VOC surrogate 1,2-Dichloroethane-d4 outside of control limits (129.1% recovery, QC Limits 84-129%). Recovery of all other surrogates were within control limits.

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-26-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 9:10:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/27/2015		Analyst: GVC
Aroclor 1016	ND	0.088		mg/Kg-dry	1	1/27/2015
Aroclor 1221	ND	0.088		mg/Kg-dry	1	1/27/2015
Aroclor 1232	ND	0.088		mg/Kg-dry	1	1/27/2015
Aroclor 1242	ND	0.088		mg/Kg-dry	1	1/27/2015
Aroclor 1248	ND	0.088		mg/Kg-dry	1	1/27/2015
Aroclor 1254	ND	0.088		mg/Kg-dry	1	1/27/2015
Aroclor 1260	ND	0.088		mg/Kg-dry	1	1/27/2015
Pesticides	SW8081 (SW3550B)			Prep Date: 1/27/2015		Analyst: GVC
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	1/27/2015
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	1/27/2015
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	1/27/2015
Aldrin	ND	0.0018		mg/Kg-dry	1	1/27/2015
alpha-BHC	ND	0.0018		mg/Kg-dry	1	1/27/2015
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	1/27/2015
beta-BHC	ND	0.0018		mg/Kg-dry	1	1/27/2015
Chlordane	ND	0.018		mg/Kg-dry	1	1/27/2015
delta-BHC	ND	0.0018		mg/Kg-dry	1	1/27/2015
Dieldrin	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endosulfan I	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endosulfan II	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endrin	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endrin ketone	ND	0.0018		mg/Kg-dry	1	1/27/2015
gamma-BHC	ND	0.0018		mg/Kg-dry	1	1/27/2015
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	1/27/2015
Heptachlor	ND	0.0018		mg/Kg-dry	1	1/27/2015
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	1/27/2015
Methoxychlor	ND	0.0018		mg/Kg-dry	1	1/27/2015
Toxaphene	ND	0.036		mg/Kg-dry	1	1/27/2015
Mercury	SW7471A			Prep Date: 1/23/2015		Analyst: LB
Mercury	0.073	0.017		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/27/2015		Analyst: JG
Aluminum	5200	220		mg/Kg-dry	100	1/29/2015
Antimony	4.7	2.2		mg/Kg-dry	10	1/28/2015
Arsenic	290	1.1		mg/Kg-dry	10	1/28/2015
Barium	67	1.1		mg/Kg-dry	10	1/28/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-26-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 9:10:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 1/27/2015		Analyst: JG
Beryllium	0.64	0.54		mg/Kg-dry	10	1/28/2015
Cadmium	2.2	0.54		mg/Kg-dry	10	1/28/2015
Calcium	63000	650		mg/Kg-dry	100	1/29/2015
Chromium	25	1.1		mg/Kg-dry	10	1/28/2015
Cobalt	6.3	1.1		mg/Kg-dry	10	1/28/2015
Copper	110	2.7		mg/Kg-dry	10	1/28/2015
Iron	48000	330		mg/Kg-dry	100	1/29/2015
Lead	230	0.54		mg/Kg-dry	10	1/28/2015
Magnesium	28000	33		mg/Kg-dry	10	1/28/2015
Manganese	1900	11		mg/Kg-dry	100	1/29/2015
Nickel	26	1.1		mg/Kg-dry	10	1/28/2015
Potassium	570	33		mg/Kg-dry	10	1/28/2015
Selenium	ND	1.1		mg/Kg-dry	10	1/28/2015
Silver	ND	1.1		mg/Kg-dry	10	1/28/2015
Sodium	210	65		mg/Kg-dry	10	1/28/2015
Thallium	ND	1.1		mg/Kg-dry	10	1/28/2015
Vanadium	22	1.1		mg/Kg-dry	10	1/28/2015
Zinc	350	5.4		mg/Kg-dry	10	1/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 1/27/2015		Analyst: DM
Acenaphthene	ND	0.036		mg/Kg-dry	1	1/27/2015
Acenaphthylene	ND	0.036		mg/Kg-dry	1	1/27/2015
Aniline	ND	0.36		mg/Kg-dry	1	1/27/2015
Anthracene	0.097	0.036		mg/Kg-dry	1	1/27/2015
Benz(a)anthracene	0.053	0.036		mg/Kg-dry	1	1/27/2015
Benzidine	ND	0.36		mg/Kg-dry	1	1/27/2015
Benzo(a)pyrene	0.061	0.036		mg/Kg-dry	1	1/27/2015
Benzo(b)fluoranthene	0.12	0.036		mg/Kg-dry	1	1/27/2015
Benzo(g,h,i)perylene	0.12	0.036		mg/Kg-dry	1	1/27/2015
Benzo(k)fluoranthene	0.065	0.036		mg/Kg-dry	1	1/27/2015
Benzoic acid	ND	0.91		mg/Kg-dry	1	1/27/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	1/27/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	1/27/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	1/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.91		mg/Kg-dry	1	1/27/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	1/27/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
Carbazole	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	1/27/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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RL - Reporting / Quantitation Limit for the analysis
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ANALYTICAL RESULTS

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Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-26-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 9:10:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/27/2015		Analyst: DM	
4-Chloro-3-methylphenol	ND	0.36		mg/Kg-dry	1	1/27/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	1/27/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	1/27/2015
Chrysene	0.11	0.036		mg/Kg-dry	1	1/27/2015
Dibenz(a,h)anthracene	ND	0.036		mg/Kg-dry	1	1/27/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	1/27/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	1/27/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
4,6-Dinitro-2-methylphenol	ND	0.36		mg/Kg-dry	1	1/27/2015
2,4-Dinitrophenol	ND	0.91		mg/Kg-dry	1	1/27/2015
2,4-Dinitrotoluene	ND	0.036		mg/Kg-dry	1	1/27/2015
2,6-Dinitrotoluene	ND	0.036		mg/Kg-dry	1	1/27/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
Fluoranthene	0.093	0.036		mg/Kg-dry	1	1/27/2015
Fluorene	ND	0.036		mg/Kg-dry	1	1/27/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	1/27/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	1/27/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	1/27/2015
Indeno(1,2,3-cd)pyrene	0.12	0.036		mg/Kg-dry	1	1/27/2015
Isophorone	ND	0.19		mg/Kg-dry	1	1/27/2015
2-Methylnaphthalene	0.33	0.19		mg/Kg-dry	1	1/27/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Naphthalene	0.058	0.036		mg/Kg-dry	1	1/27/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/27/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/27/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Nitrophenol	ND	0.36		mg/Kg-dry	1	1/27/2015

Qualifiers:
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 * - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
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STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-26-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 9:10:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/27/2015		Analyst: DM	
Nitrobenzene	ND	0.036		mg/Kg-dry	1	1/27/2015
N-Nitrosodi-n-propylamine	ND	0.036		mg/Kg-dry	1	1/27/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	1/27/2015
N-Nitrosodiphenylamine	ND	0.036		mg/Kg-dry	1	1/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	1/27/2015
Pentachlorophenol	ND	0.036		mg/Kg-dry	1	1/27/2015
Phenanthrene	0.14	0.036		mg/Kg-dry	1	1/27/2015
Phenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Pyrene	0.077	0.036		mg/Kg-dry	1	1/27/2015
Pyridine	ND	0.73		mg/Kg-dry	1	1/27/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 1/23/2015		Analyst: ART	
Acetone	ND	0.082		mg/Kg-dry	1	1/28/2015
Benzene	ND	0.0054		mg/Kg-dry	1	1/28/2015
Bromodichloromethane	ND	0.0054		mg/Kg-dry	1	1/28/2015
Bromoform	ND	0.0054		mg/Kg-dry	1	1/28/2015
Bromomethane	ND	0.011		mg/Kg-dry	1	1/28/2015
2-Butanone	ND	0.082		mg/Kg-dry	1	1/28/2015
Carbon disulfide	ND	0.054		mg/Kg-dry	1	1/28/2015
Carbon tetrachloride	ND	0.0054		mg/Kg-dry	1	1/28/2015
Chlorobenzene	ND	0.0054		mg/Kg-dry	1	1/28/2015
Chloroethane	ND	0.011		mg/Kg-dry	1	1/28/2015
Chloroform	ND	0.0054		mg/Kg-dry	1	1/28/2015
Chloromethane	ND	0.011		mg/Kg-dry	1	1/28/2015
Dibromochloromethane	ND	0.0054		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethane	ND	0.0054		mg/Kg-dry	1	1/28/2015
1,2-Dichloroethane	ND	0.0054		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethene	ND	0.0054		mg/Kg-dry	1	1/28/2015
cis-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	1/28/2015
trans-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	1/28/2015
1,2-Dichloropropane	ND	0.0054		mg/Kg-dry	1	1/28/2015
cis-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	1/28/2015
trans-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	1/28/2015
Ethylbenzene	ND	0.0054		mg/Kg-dry	1	1/28/2015
2-Hexanone	ND	0.022		mg/Kg-dry	1	1/28/2015
4-Methyl-2-pentanone	ND	0.022		mg/Kg-dry	1	1/28/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
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 HT - Sample received past holding time
 * - Non-accredited parameter

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-26-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 9:10:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/23/2015	Analyst: ART
Methylene chloride	ND	0.011		mg/Kg-dry	1	1/28/2015
Methyl tert-butyl ether	ND	0.0054		mg/Kg-dry	1	1/28/2015
Styrene	ND	0.0054		mg/Kg-dry	1	1/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0054		mg/Kg-dry	1	1/28/2015
Tetrachloroethene	ND	0.0054		mg/Kg-dry	1	1/28/2015
Toluene	ND	0.0054		mg/Kg-dry	1	1/28/2015
1,1,1-Trichloroethane	ND	0.0054		mg/Kg-dry	1	1/28/2015
1,1,2-Trichloroethane	ND	0.0054		mg/Kg-dry	1	1/28/2015
Trichloroethene	ND	0.0054		mg/Kg-dry	1	1/28/2015
Vinyl chloride	ND	0.0054		mg/Kg-dry	1	1/28/2015
Xylenes, Total	ND	0.016		mg/Kg-dry	1	1/28/2015
Cyanide, Total	SW9012A				Prep Date: 1/23/2015	Analyst: YZ
Cyanide	ND	0.28		mg/Kg-dry	1	1/23/2015
pH (25 °C)	SW9045C				Prep Date: 1/23/2015	Analyst: RW
pH	8.4			pH Units	1	1/23/2015
Percent Moisture	D2974				Prep Date: 1/23/2015	Analyst: RW
Percent Moisture	9.5	0.2	*	wt%	1	1/26/2015

Qualifiers:
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-26-2

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 9:15:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)				Prep Date: 1/26/2015	Analyst: GVC
Aroclor 1016	ND	0.097		mg/Kg-dry	1	1/26/2015
Aroclor 1221	ND	0.097		mg/Kg-dry	1	1/26/2015
Aroclor 1232	ND	0.097		mg/Kg-dry	1	1/26/2015
Aroclor 1242	ND	0.097		mg/Kg-dry	1	1/26/2015
Aroclor 1248	ND	0.097		mg/Kg-dry	1	1/26/2015
Aroclor 1254	ND	0.097		mg/Kg-dry	1	1/26/2015
Aroclor 1260	ND	0.097		mg/Kg-dry	1	1/26/2015
Mercury	SW7471A				Prep Date: 1/23/2015	Analyst: LB
Mercury	0.030	0.024		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 1/27/2015	Analyst: JG
Arsenic	11	1.2		mg/Kg-dry	10	1/29/2015
Barium	110	1.2		mg/Kg-dry	10	1/29/2015
Cadmium	ND	0.59		mg/Kg-dry	10	1/29/2015
Chromium	16	1.2		mg/Kg-dry	10	1/29/2015
Lead	14	0.59		mg/Kg-dry	10	1/29/2015
Selenium	ND	0.59		mg/Kg-dry	10	1/29/2015
Silver	ND	1.2		mg/Kg-dry	10	1/29/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)				Prep Date: 1/27/2015	Analyst: DM
Acenaphthene	ND	0.041		mg/Kg-dry	1	1/27/2015
Acenaphthylene	ND	0.041		mg/Kg-dry	1	1/27/2015
Anthracene	ND	0.041		mg/Kg-dry	1	1/27/2015
Benz(a)anthracene	ND	0.041		mg/Kg-dry	1	1/27/2015
Benzo(a)pyrene	ND	0.041		mg/Kg-dry	1	1/27/2015
Benzo(b)fluoranthene	ND	0.041		mg/Kg-dry	1	1/27/2015
Benzo(g,h,i)perylene	ND	0.041		mg/Kg-dry	1	1/27/2015
Benzo(k)fluoranthene	ND	0.041		mg/Kg-dry	1	1/27/2015
Chrysene	ND	0.041		mg/Kg-dry	1	1/27/2015
Dibenz(a,h)anthracene	ND	0.041		mg/Kg-dry	1	1/27/2015
Fluoranthene	ND	0.041		mg/Kg-dry	1	1/27/2015
Fluorene	ND	0.041		mg/Kg-dry	1	1/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.041		mg/Kg-dry	1	1/27/2015
Naphthalene	ND	0.041		mg/Kg-dry	1	1/27/2015
Phenanthrene	ND	0.041		mg/Kg-dry	1	1/27/2015
Pyrene	ND	0.041		mg/Kg-dry	1	1/27/2015
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/23/2015	Analyst: ART
Acetone	ND	0.086		mg/Kg-dry	1	1/28/2015

Qualifiers:
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 HT - Sample received past holding time
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-26-2

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 9:15:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/23/2015	Analyst: ART
Benzene	ND	0.0057		mg/Kg-dry	1	1/28/2015
Bromodichloromethane	ND	0.0057		mg/Kg-dry	1	1/28/2015
Bromoform	ND	0.0057		mg/Kg-dry	1	1/28/2015
Bromomethane	ND	0.011		mg/Kg-dry	1	1/28/2015
2-Butanone	ND	0.086		mg/Kg-dry	1	1/28/2015
Carbon disulfide	ND	0.057		mg/Kg-dry	1	1/28/2015
Carbon tetrachloride	ND	0.0057		mg/Kg-dry	1	1/28/2015
Chlorobenzene	ND	0.0057		mg/Kg-dry	1	1/28/2015
Chloroethane	ND	0.011		mg/Kg-dry	1	1/28/2015
Chloroform	ND	0.0057		mg/Kg-dry	1	1/28/2015
Chloromethane	ND	0.011		mg/Kg-dry	1	1/28/2015
Dibromochloromethane	ND	0.0057		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethane	ND	0.0057		mg/Kg-dry	1	1/28/2015
1,2-Dichloroethane	ND	0.0057		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethene	ND	0.0057		mg/Kg-dry	1	1/28/2015
cis-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	1/28/2015
trans-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	1/28/2015
1,2-Dichloropropane	ND	0.0057		mg/Kg-dry	1	1/28/2015
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	1/28/2015
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	1/28/2015
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	1/28/2015
2-Hexanone	ND	0.023		mg/Kg-dry	1	1/28/2015
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	1/28/2015
Methylene chloride	ND	0.011		mg/Kg-dry	1	1/28/2015
Methyl tert-butyl ether	ND	0.0057		mg/Kg-dry	1	1/28/2015
Styrene	ND	0.0057		mg/Kg-dry	1	1/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0057		mg/Kg-dry	1	1/28/2015
Tetrachloroethene	ND	0.0057		mg/Kg-dry	1	1/28/2015
Toluene	ND	0.0057		mg/Kg-dry	1	1/28/2015
1,1,1-Trichloroethane	ND	0.0057		mg/Kg-dry	1	1/28/2015
1,1,2-Trichloroethane	ND	0.0057		mg/Kg-dry	1	1/28/2015
Trichloroethene	ND	0.0057		mg/Kg-dry	1	1/28/2015
Vinyl chloride	ND	0.0057		mg/Kg-dry	1	1/28/2015
Xylenes, Total	ND	0.017		mg/Kg-dry	1	1/28/2015
Percent Moisture	D2974				Prep Date: 1/23/2015	Analyst: RW
Percent Moisture	18.9	0.2	*	wt%	1	1/26/2015

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
 * - Non-accredited parameter H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-26-3

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 9:25:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A				Prep Date: 1/23/2015	Analyst: LB
Mercury	ND	0.023		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 1/27/2015	Analyst: JG
Arsenic	27	1.3		mg/Kg-dry	10	1/29/2015
Barium	150	1.3		mg/Kg-dry	10	1/29/2015
Cadmium	3.1	0.63		mg/Kg-dry	10	1/29/2015
Chromium	13	1.3		mg/Kg-dry	10	1/29/2015
Lead	68	0.63		mg/Kg-dry	10	1/29/2015
Selenium	ND	0.63		mg/Kg-dry	10	1/29/2015
Silver	ND	1.3		mg/Kg-dry	10	1/29/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)				Prep Date: 1/27/2015	Analyst: DM
Acenaphthene	0.14	0.042		mg/Kg-dry	1	1/27/2015
Acenaphthylene	0.14	0.042		mg/Kg-dry	1	1/27/2015
Anthracene	0.45	0.042		mg/Kg-dry	1	1/27/2015
Benzo(a)anthracene	1.1	0.042		mg/Kg-dry	1	1/27/2015
Benzo(a)pyrene	0.94	0.042		mg/Kg-dry	1	1/27/2015
Benzo(b)fluoranthene	0.86	0.042		mg/Kg-dry	1	1/27/2015
Benzo(g,h,i)perylene	0.43	0.042		mg/Kg-dry	1	1/27/2015
Benzo(k)fluoranthene	0.72	0.042		mg/Kg-dry	1	1/27/2015
Chrysene	1.1	0.042		mg/Kg-dry	1	1/27/2015
Dibenz(a,h)anthracene	0.20	0.042		mg/Kg-dry	1	1/27/2015
Fluoranthene	2.1	0.042		mg/Kg-dry	1	1/27/2015
Fluorene	0.22	0.042		mg/Kg-dry	1	1/27/2015
Indeno(1,2,3-cd)pyrene	0.46	0.042		mg/Kg-dry	1	1/27/2015
Naphthalene	0.20	0.042		mg/Kg-dry	1	1/27/2015
Phenanthrene	2.4	0.042		mg/Kg-dry	1	1/27/2015
Pyrene	1.9	0.042		mg/Kg-dry	1	1/27/2015
Percent Moisture	D2974				Prep Date: 1/23/2015	Analyst: RW
Percent Moisture	21.4	0.2	*	wt%	1	1/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-28-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 9:40:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/27/2015		Analyst: GVC
Aroclor 1016	ND	0.089		mg/Kg-dry	1	1/27/2015
Aroclor 1221	ND	0.089		mg/Kg-dry	1	1/27/2015
Aroclor 1232	ND	0.089		mg/Kg-dry	1	1/27/2015
Aroclor 1242	ND	0.089		mg/Kg-dry	1	1/27/2015
Aroclor 1248	ND	0.089		mg/Kg-dry	1	1/27/2015
Aroclor 1254	ND	0.089		mg/Kg-dry	1	1/27/2015
Aroclor 1260	ND	0.089		mg/Kg-dry	1	1/27/2015
Pesticides	SW8081 (SW3550B)			Prep Date: 1/27/2015		Analyst: GVC
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	1/27/2015
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	1/27/2015
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	1/27/2015
Aldrin	ND	0.0018		mg/Kg-dry	1	1/27/2015
alpha-BHC	ND	0.0018		mg/Kg-dry	1	1/27/2015
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	1/27/2015
beta-BHC	ND	0.0018		mg/Kg-dry	1	1/27/2015
Chlordane	ND	0.018		mg/Kg-dry	1	1/27/2015
delta-BHC	ND	0.0018		mg/Kg-dry	1	1/27/2015
Dieldrin	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endosulfan I	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endosulfan II	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endrin	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endrin ketone	ND	0.0018		mg/Kg-dry	1	1/27/2015
gamma-BHC	ND	0.0018		mg/Kg-dry	1	1/27/2015
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	1/27/2015
Heptachlor	ND	0.0018		mg/Kg-dry	1	1/27/2015
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	1/27/2015
Methoxychlor	ND	0.0018		mg/Kg-dry	1	1/27/2015
Toxaphene	ND	0.037		mg/Kg-dry	1	1/27/2015
Mercury	SW7471A			Prep Date: 1/23/2015		Analyst: LB
Mercury	0.10	0.021		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/27/2015		Analyst: JG
Aluminum	6400	220		mg/Kg-dry	100	1/29/2015
Antimony	ND	2.2		mg/Kg-dry	10	1/28/2015
Arsenic	8.2	1.1		mg/Kg-dry	10	1/28/2015
Barium	78	1.1		mg/Kg-dry	10	1/28/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-28-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 9:40:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 1/27/2015		Analyst: JG
Beryllium	ND	0.54		mg/Kg-dry	10	1/28/2015
Cadmium	0.67	0.54		mg/Kg-dry	10	1/28/2015
Calcium	1900	650		mg/Kg-dry	100	1/29/2015
Chromium	13	1.1		mg/Kg-dry	10	1/28/2015
Cobalt	4.5	1.1		mg/Kg-dry	10	1/28/2015
Copper	35	2.7		mg/Kg-dry	10	1/28/2015
Iron	45000	320		mg/Kg-dry	100	1/29/2015
Lead	45	0.54		mg/Kg-dry	10	1/28/2015
Magnesium	1200	32		mg/Kg-dry	10	1/28/2015
Manganese	510	11		mg/Kg-dry	100	1/29/2015
Nickel	9.5	1.1		mg/Kg-dry	10	1/28/2015
Potassium	650	32		mg/Kg-dry	10	1/28/2015
Selenium	ND	1.1		mg/Kg-dry	10	1/28/2015
Silver	ND	1.1		mg/Kg-dry	10	1/28/2015
Sodium	160	65		mg/Kg-dry	10	1/28/2015
Thallium	ND	1.1		mg/Kg-dry	10	1/28/2015
Vanadium	25	1.1		mg/Kg-dry	10	1/28/2015
Zinc	52	5.4		mg/Kg-dry	10	1/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 1/27/2015		Analyst: DM
Acenaphthene	0.27	0.037		mg/Kg-dry	1	1/27/2015
Acenaphthylene	0.30	0.037		mg/Kg-dry	1	1/27/2015
Aniline	ND	0.37		mg/Kg-dry	1	1/27/2015
Anthracene	0.64	0.037		mg/Kg-dry	1	1/27/2015
Benz(a)anthracene	2.0	0.037		mg/Kg-dry	1	1/27/2015
Benzidine	ND	0.37		mg/Kg-dry	1	1/27/2015
Benzo(a)pyrene	1.9	0.037		mg/Kg-dry	1	1/27/2015
Benzo(b)fluoranthene	1.5	0.037		mg/Kg-dry	1	1/27/2015
Benzo(g,h,i)perylene	1.1	0.037		mg/Kg-dry	1	1/27/2015
Benzo(k)fluoranthene	1.3	0.037		mg/Kg-dry	1	1/27/2015
Benzoic acid	ND	0.92		mg/Kg-dry	1	1/27/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	1/27/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	1/27/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	1/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.92		mg/Kg-dry	1	1/27/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	1/27/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
Carbazole	0.37	0.19		mg/Kg-dry	1	1/27/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	1/27/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

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HT - Sample received past holding time

E - Value above quantitation range

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-28-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 9:40:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/27/2015		Analyst: DM	
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	1/27/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	1/27/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	1/27/2015
Chrysene	2.1	0.037		mg/Kg-dry	1	1/27/2015
Dibenz(a,h)anthracene	0.52	0.037		mg/Kg-dry	1	1/27/2015
Dibenzofuran	0.24	0.19		mg/Kg-dry	1	1/27/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	1/27/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	1/27/2015
2,4-Dinitrophenol	ND	0.92		mg/Kg-dry	1	1/27/2015
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	1/27/2015
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	1/27/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
Fluoranthene	3.8	0.037		mg/Kg-dry	1	1/27/2015
Fluorene	0.34	0.037		mg/Kg-dry	1	1/27/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	1/27/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	1/27/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	1/27/2015
Indeno(1,2,3-cd)pyrene	1.1	0.037		mg/Kg-dry	1	1/27/2015
Isophorone	ND	0.19		mg/Kg-dry	1	1/27/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	1/27/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Naphthalene	0.39	0.037		mg/Kg-dry	1	1/27/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/27/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/27/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	1/27/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-28-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 9:40:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					Prep Date: 1/27/2015 Analyst: DM
Nitrobenzene	ND	0.037		mg/Kg-dry	1	1/27/2015
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	1/27/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	1/27/2015
N-Nitrosodiphenylamine	ND	0.037		mg/Kg-dry	1	1/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	1/27/2015
Pentachlorophenol	ND	0.037		mg/Kg-dry	1	1/27/2015
Phenanthrene	3.3	0.037		mg/Kg-dry	1	1/27/2015
Phenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Pyrene	3.2	0.037		mg/Kg-dry	1	1/27/2015
Pyridine	ND	0.74		mg/Kg-dry	1	1/27/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Volatile Organic Compounds by GC/MS	SW5035/8260B					Prep Date: 1/23/2015 Analyst: ART
Acetone	ND	0.14		mg/Kg-dry	1	1/28/2015
Benzene	ND	0.0090		mg/Kg-dry	1	1/28/2015
Bromodichloromethane	ND	0.0090		mg/Kg-dry	1	1/28/2015
Bromoform	ND	0.0090		mg/Kg-dry	1	1/28/2015
Bromomethane	ND	0.018		mg/Kg-dry	1	1/28/2015
2-Butanone	ND	0.14		mg/Kg-dry	1	1/28/2015
Carbon disulfide	ND	0.090		mg/Kg-dry	1	1/28/2015
Carbon tetrachloride	ND	0.0090		mg/Kg-dry	1	1/28/2015
Chlorobenzene	ND	0.0090		mg/Kg-dry	1	1/28/2015
Chloroethane	ND	0.018		mg/Kg-dry	1	1/28/2015
Chloroform	ND	0.0090		mg/Kg-dry	1	1/28/2015
Chloromethane	ND	0.018		mg/Kg-dry	1	1/28/2015
Dibromochloromethane	ND	0.0090		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethane	ND	0.0090		mg/Kg-dry	1	1/28/2015
1,2-Dichloroethane	ND	0.0090		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethene	ND	0.0090		mg/Kg-dry	1	1/28/2015
cis-1,2-Dichloroethene	ND	0.0090		mg/Kg-dry	1	1/28/2015
trans-1,2-Dichloroethene	ND	0.0090		mg/Kg-dry	1	1/28/2015
1,2-Dichloropropane	ND	0.0090		mg/Kg-dry	1	1/28/2015
cis-1,3-Dichloropropene	ND	0.0036		mg/Kg-dry	1	1/28/2015
trans-1,3-Dichloropropene	ND	0.0036		mg/Kg-dry	1	1/28/2015
Ethylbenzene	ND	0.0090		mg/Kg-dry	1	1/28/2015
2-Hexanone	ND	0.036		mg/Kg-dry	1	1/28/2015
4-Methyl-2-pentanone	ND	0.036		mg/Kg-dry	1	1/28/2015

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-28-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 9:40:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/23/2015	Analyst: ART
Methylene chloride	ND	0.018		mg/Kg-dry	1	1/28/2015
Methyl tert-butyl ether	ND	0.0090		mg/Kg-dry	1	1/28/2015
Styrene	ND	0.0090		mg/Kg-dry	1	1/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0090		mg/Kg-dry	1	1/28/2015
Tetrachloroethene	ND	0.0090		mg/Kg-dry	1	1/28/2015
Toluene	ND	0.0090		mg/Kg-dry	1	1/28/2015
1,1,1-Trichloroethane	ND	0.0090		mg/Kg-dry	1	1/28/2015
1,1,2-Trichloroethane	ND	0.0090		mg/Kg-dry	1	1/28/2015
Trichloroethene	ND	0.0090		mg/Kg-dry	1	1/28/2015
Vinyl chloride	ND	0.0090		mg/Kg-dry	1	1/28/2015
Xylenes, Total	ND	0.027		mg/Kg-dry	1	1/28/2015
Cyanide, Total	SW9012A				Prep Date: 1/23/2015	Analyst: YZ
Cyanide	ND	0.28		mg/Kg-dry	1	1/23/2015
pH (25 °C)	SW9045C				Prep Date: 1/23/2015	Analyst: RW
pH	7.9			pH Units	1	1/23/2015
Percent Moisture	D2974				Prep Date: 1/23/2015	Analyst: RW
Percent Moisture	10.5	0.2	*	wt%	1	1/26/2015

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-28-2

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 9:50:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/26/2015		Analyst: GVC
Aroclor 1016	ND	0.088		mg/Kg-dry	1	1/26/2015
Aroclor 1221	ND	0.088		mg/Kg-dry	1	1/26/2015
Aroclor 1232	ND	0.088		mg/Kg-dry	1	1/26/2015
Aroclor 1242	ND	0.088		mg/Kg-dry	1	1/26/2015
Aroclor 1248	ND	0.088		mg/Kg-dry	1	1/26/2015
Aroclor 1254	ND	0.088		mg/Kg-dry	1	1/26/2015
Aroclor 1260	ND	0.088		mg/Kg-dry	1	1/26/2015
Mercury	SW7471A			Prep Date: 1/23/2015		Analyst: LB
Mercury	ND	0.021		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/27/2015		Analyst: JG
Arsenic	7.0	1.1		mg/Kg-dry	10	1/29/2015
Barium	54	1.1		mg/Kg-dry	10	1/29/2015
Cadmium	ND	0.54		mg/Kg-dry	10	1/29/2015
Chromium	9.0	1.1		mg/Kg-dry	10	1/29/2015
Lead	12	0.54		mg/Kg-dry	10	1/29/2015
Selenium	ND	0.54		mg/Kg-dry	10	1/29/2015
Silver	ND	1.1		mg/Kg-dry	10	1/29/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)			Prep Date: 1/27/2015		Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	1/27/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	1/27/2015
Anthracene	ND	0.037		mg/Kg-dry	1	1/27/2015
Benz(a)anthracene	ND	0.037		mg/Kg-dry	1	1/27/2015
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	1/27/2015
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	1/27/2015
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	1/27/2015
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	1/27/2015
Chrysene	ND	0.037		mg/Kg-dry	1	1/27/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	1/27/2015
Fluoranthene	0.040	0.037		mg/Kg-dry	1	1/27/2015
Fluorene	ND	0.037		mg/Kg-dry	1	1/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	1/27/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	1/27/2015
Phenanthrene	ND	0.037		mg/Kg-dry	1	1/27/2015
Pyrene	ND	0.037		mg/Kg-dry	1	1/27/2015
Volatile Organic Compounds by GC/MS	SW5035/8260B			Prep Date: 1/23/2015		Analyst: ART
Acetone	ND	0.073		mg/Kg-dry	1	1/28/2015

Qualifiers:
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-28-2

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 9:50:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 1/23/2015		Analyst: ART
Benzene	ND	0.0048		mg/Kg-dry	1	1/28/2015
Bromodichloromethane	ND	0.0048		mg/Kg-dry	1	1/28/2015
Bromoform	ND	0.0048		mg/Kg-dry	1	1/28/2015
Bromomethane	ND	0.0097		mg/Kg-dry	1	1/28/2015
2-Butanone	ND	0.073		mg/Kg-dry	1	1/28/2015
Carbon disulfide	ND	0.048		mg/Kg-dry	1	1/28/2015
Carbon tetrachloride	ND	0.0048		mg/Kg-dry	1	1/28/2015
Chlorobenzene	ND	0.0048		mg/Kg-dry	1	1/28/2015
Chloroethane	ND	0.0097		mg/Kg-dry	1	1/28/2015
Chloroform	ND	0.0048		mg/Kg-dry	1	1/28/2015
Chloromethane	ND	0.0097		mg/Kg-dry	1	1/28/2015
Dibromochloromethane	ND	0.0048		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethane	ND	0.0048		mg/Kg-dry	1	1/28/2015
1,2-Dichloroethane	ND	0.0048		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethene	ND	0.0048		mg/Kg-dry	1	1/28/2015
cis-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	1/28/2015
trans-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	1/28/2015
1,2-Dichloropropane	ND	0.0048		mg/Kg-dry	1	1/28/2015
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	1/28/2015
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	1/28/2015
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	1/28/2015
2-Hexanone	ND	0.019		mg/Kg-dry	1	1/28/2015
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	1/28/2015
Methylene chloride	ND	0.0097		mg/Kg-dry	1	1/28/2015
Methyl tert-butyl ether	ND	0.0048		mg/Kg-dry	1	1/28/2015
Styrene	ND	0.0048		mg/Kg-dry	1	1/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0048		mg/Kg-dry	1	1/28/2015
Tetrachloroethene	ND	0.0048		mg/Kg-dry	1	1/28/2015
Toluene	ND	0.0048		mg/Kg-dry	1	1/28/2015
1,1,1-Trichloroethane	ND	0.0048		mg/Kg-dry	1	1/28/2015
1,1,2-Trichloroethane	ND	0.0048		mg/Kg-dry	1	1/28/2015
Trichloroethene	ND	0.0048		mg/Kg-dry	1	1/28/2015
Vinyl chloride	ND	0.0048		mg/Kg-dry	1	1/28/2015
Xylenes, Total	ND	0.015		mg/Kg-dry	1	1/28/2015
Percent Moisture		D2974		Prep Date: 1/23/2015		Analyst: RW
Percent Moisture	10.0	0.2	*	wt%	1	1/26/2015

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
 * - Non-accredited parameter H - Holding time exceeded

STAT Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-28-3

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 9:55:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 1/23/2015 Analyst: LB
Mercury	0.072	0.021		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 1/27/2015 Analyst: JG
Arsenic	33	0.93		mg/Kg-dry	10	1/29/2015
Barium	54	0.93		mg/Kg-dry	10	1/29/2015
Cadmium	0.65	0.46		mg/Kg-dry	10	1/29/2015
Chromium	15	0.93		mg/Kg-dry	10	1/29/2015
Lead	83	0.46		mg/Kg-dry	10	1/29/2015
Selenium	ND	0.46		mg/Kg-dry	10	1/29/2015
Silver	ND	0.93		mg/Kg-dry	10	1/29/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)					Prep Date: 1/27/2015 Analyst: DM
Acenaphthene	0.065	0.037		mg/Kg-dry	1	1/27/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	1/27/2015
Anthracene	0.24	0.037		mg/Kg-dry	1	1/27/2015
Benzo(a)anthracene	0.93	0.037		mg/Kg-dry	1	1/27/2015
Benzo(a)pyrene	0.98	0.037		mg/Kg-dry	1	1/27/2015
Benzo(b)fluoranthene	1.3	0.037		mg/Kg-dry	1	1/27/2015
Benzo(g,h,i)perylene	0.85	0.037		mg/Kg-dry	1	1/27/2015
Benzo(k)fluoranthene	0.65	0.037		mg/Kg-dry	1	1/27/2015
Chrysene	1.2	0.037		mg/Kg-dry	1	1/27/2015
Dibenz(a,h)anthracene	0.32	0.037		mg/Kg-dry	1	1/27/2015
Fluoranthene	1.9	0.037		mg/Kg-dry	1	1/27/2015
Fluorene	0.11	0.037		mg/Kg-dry	1	1/27/2015
Indeno(1,2,3-cd)pyrene	0.64	0.037		mg/Kg-dry	1	1/27/2015
Naphthalene	0.048	0.037		mg/Kg-dry	1	1/27/2015
Phenanthrene	1.2	0.037		mg/Kg-dry	1	1/27/2015
Pyrene	1.6	0.037		mg/Kg-dry	1	1/27/2015
Percent Moisture	D2974					Prep Date: 1/23/2015 Analyst: RW
Percent Moisture	10.7	0.2	*	wt%	1	1/26/2015

Qualifiers:
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 E - Value above quantitation range
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-30-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 10:10:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/27/2015		Analyst: GVC
Aroclor 1016	ND	0.091		mg/Kg-dry	1	1/27/2015
Aroclor 1221	ND	0.091		mg/Kg-dry	1	1/27/2015
Aroclor 1232	ND	0.091		mg/Kg-dry	1	1/27/2015
Aroclor 1242	ND	0.091		mg/Kg-dry	1	1/27/2015
Aroclor 1248	ND	0.091		mg/Kg-dry	1	1/27/2015
Aroclor 1254	ND	0.091		mg/Kg-dry	1	1/27/2015
Aroclor 1260	ND	0.091		mg/Kg-dry	1	1/27/2015
Pesticides	SW8081 (SW3550B)			Prep Date: 1/27/2015		Analyst: GVC
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	1/27/2015
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	1/27/2015
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	1/27/2015
Aldrin	ND	0.0018		mg/Kg-dry	1	1/27/2015
alpha-BHC	ND	0.0018		mg/Kg-dry	1	1/27/2015
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	1/27/2015
beta-BHC	ND	0.0018		mg/Kg-dry	1	1/27/2015
Chlordane	ND	0.018		mg/Kg-dry	1	1/27/2015
delta-BHC	ND	0.0018		mg/Kg-dry	1	1/27/2015
Dieldrin	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endosulfan I	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endosulfan II	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endrin	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endrin ketone	ND	0.0018		mg/Kg-dry	1	1/27/2015
gamma-BHC	ND	0.0018		mg/Kg-dry	1	1/27/2015
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	1/27/2015
Heptachlor	ND	0.0018		mg/Kg-dry	1	1/27/2015
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	1/27/2015
Methoxychlor	ND	0.0018		mg/Kg-dry	1	1/27/2015
Toxaphene	ND	0.038		mg/Kg-dry	1	1/27/2015
Mercury	SW7471A			Prep Date: 1/23/2015		Analyst: LB
Mercury	0.056	0.022		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/27/2015		Analyst: JG
Aluminum	2900	210		mg/Kg-dry	100	1/29/2015
Antimony	3.1	2.1		mg/Kg-dry	10	1/28/2015
Arsenic	96	1.1		mg/Kg-dry	10	1/28/2015
Barium	47	1.1		mg/Kg-dry	10	1/28/2015

Qualifiers:
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-30-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 10:10:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/27/2015		Analyst: JG
Beryllium	ND	0.53		mg/Kg-dry	10	1/28/2015
Cadmium	0.89	0.53		mg/Kg-dry	10	1/28/2015
Calcium	110000	630		mg/Kg-dry	100	1/29/2015
Chromium	15	1.1		mg/Kg-dry	10	1/28/2015
Cobalt	5.1	1.1		mg/Kg-dry	10	1/28/2015
Copper	57	2.6		mg/Kg-dry	10	1/28/2015
Iron	30000	320		mg/Kg-dry	100	1/29/2015
Lead	120	0.53		mg/Kg-dry	10	1/28/2015
Magnesium	59000	320		mg/Kg-dry	100	1/29/2015
Manganese	700	1.1		mg/Kg-dry	10	1/28/2015
Nickel	17	1.1		mg/Kg-dry	10	1/28/2015
Potassium	660	32		mg/Kg-dry	10	1/28/2015
Selenium	ND	0.53		mg/Kg-dry	10	1/28/2015
Silver	ND	1.1		mg/Kg-dry	10	1/28/2015
Sodium	170	63		mg/Kg-dry	10	1/28/2015
Thallium	ND	1.1		mg/Kg-dry	10	1/28/2015
Vanadium	17	1.1		mg/Kg-dry	10	1/28/2015
Zinc	110	5.3		mg/Kg-dry	10	1/28/2015
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)			Prep Date: 1/27/2015		Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	1/27/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	1/27/2015
Aniline	ND	0.38		mg/Kg-dry	1	1/27/2015
Anthracene	0.096	0.037		mg/Kg-dry	1	1/27/2015
Benz(a)anthracene	0.092	0.037		mg/Kg-dry	1	1/27/2015
Benzidine	ND	0.37		mg/Kg-dry	1	1/27/2015
Benzo(a)pyrene	0.091	0.037		mg/Kg-dry	1	1/27/2015
Benzo(b)fluoranthene	0.19	0.037		mg/Kg-dry	1	1/27/2015
Benzo(g,h,i)perylene	0.13	0.037		mg/Kg-dry	1	1/27/2015
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	1/27/2015
Benzoic acid	ND	0.94		mg/Kg-dry	1	1/27/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	1/27/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	1/27/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	1/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.94		mg/Kg-dry	1	1/27/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	1/27/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
Carbazole	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	1/27/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-30-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 10:10:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/27/2015		Analyst: DM	
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	1/27/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	1/27/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	1/27/2015
Chrysene	0.088	0.037		mg/Kg-dry	1	1/27/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	1/27/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	1/27/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	1/27/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	1/27/2015
2,4-Dinitrophenol	ND	0.94		mg/Kg-dry	1	1/27/2015
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	1/27/2015
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	1/27/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
Fluoranthene	0.14	0.037		mg/Kg-dry	1	1/27/2015
Fluorene	ND	0.037		mg/Kg-dry	1	1/27/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	1/27/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	1/27/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	1/27/2015
Indeno(1,2,3-cd)pyrene	0.13	0.037		mg/Kg-dry	1	1/27/2015
Isophorone	ND	0.19		mg/Kg-dry	1	1/27/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	1/27/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	1/27/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/27/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/27/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	1/27/2015

Qualifiers:
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Date Reported: February 12, 2015

Date Printed: February 12, 2015

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-30-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 10:10:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/27/2015		Analyst: DM	
Nitrobenzene	ND	0.037		mg/Kg-dry	1	1/27/2015
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	1/27/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	1/27/2015
N-Nitrosodiphenylamine	ND	0.037		mg/Kg-dry	1	1/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	1/27/2015
Pentachlorophenol	ND	0.037		mg/Kg-dry	1	1/27/2015
Phenanthrene	0.10	0.037		mg/Kg-dry	1	1/27/2015
Phenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Pyrene	0.13	0.037		mg/Kg-dry	1	1/27/2015
Pyridine	ND	0.76		mg/Kg-dry	1	1/27/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 1/23/2015		Analyst: ART	
Acetone	ND	0.089		mg/Kg-dry	1	1/28/2015
Benzene	ND	0.0060		mg/Kg-dry	1	1/28/2015
Bromodichloromethane	ND	0.0060		mg/Kg-dry	1	1/28/2015
Bromoform	ND	0.0060		mg/Kg-dry	1	1/28/2015
Bromomethane	ND	0.012		mg/Kg-dry	1	1/28/2015
2-Butanone	ND	0.089		mg/Kg-dry	1	1/28/2015
Carbon disulfide	ND	0.060		mg/Kg-dry	1	1/28/2015
Carbon tetrachloride	ND	0.0060		mg/Kg-dry	1	1/28/2015
Chlorobenzene	ND	0.0060		mg/Kg-dry	1	1/28/2015
Chloroethane	ND	0.012		mg/Kg-dry	1	1/28/2015
Chloroform	ND	0.0060		mg/Kg-dry	1	1/28/2015
Chloromethane	ND	0.012		mg/Kg-dry	1	1/28/2015
Dibromochloromethane	ND	0.0060		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethane	ND	0.0060		mg/Kg-dry	1	1/28/2015
1,2-Dichloroethane	ND	0.0060		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethene	ND	0.0060		mg/Kg-dry	1	1/28/2015
cis-1,2-Dichloroethene	ND	0.0060		mg/Kg-dry	1	1/28/2015
trans-1,2-Dichloroethene	ND	0.0060		mg/Kg-dry	1	1/28/2015
1,2-Dichloropropane	ND	0.0060		mg/Kg-dry	1	1/28/2015
cis-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	1/28/2015
trans-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	1/28/2015
Ethylbenzene	ND	0.0060		mg/Kg-dry	1	1/28/2015
2-Hexanone	ND	0.024		mg/Kg-dry	1	1/28/2015
4-Methyl-2-pentanone	ND	0.024		mg/Kg-dry	1	1/28/2015

Qualifiers:
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 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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RL - Reporting / Quantitation Limit for the analysis
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-30-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 10:10:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/23/2015	Analyst: ART
Methylene chloride	ND	0.012		mg/Kg-dry	1	1/28/2015
Methyl tert-butyl ether	ND	0.0060		mg/Kg-dry	1	1/28/2015
Styrene	ND	0.0060		mg/Kg-dry	1	1/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0060		mg/Kg-dry	1	1/28/2015
Tetrachloroethene	ND	0.0060		mg/Kg-dry	1	1/28/2015
Toluene	ND	0.0060		mg/Kg-dry	1	1/28/2015
1,1,1-Trichloroethane	ND	0.0060		mg/Kg-dry	1	1/28/2015
1,1,2-Trichloroethane	ND	0.0060		mg/Kg-dry	1	1/28/2015
Trichloroethene	ND	0.0060		mg/Kg-dry	1	1/28/2015
Vinyl chloride	ND	0.0060		mg/Kg-dry	1	1/28/2015
Xylenes, Total	ND	0.018		mg/Kg-dry	1	1/28/2015
Cyanide, Total	SW9012A				Prep Date: 1/23/2015	Analyst: YZ
Cyanide	ND	0.29		mg/Kg-dry	1	1/23/2015
pH (25 °C)	SW9045C				Prep Date: 1/23/2015	Analyst: RW
pH	8.1			pH Units	1	1/23/2015
Percent Moisture	D2974				Prep Date: 1/23/2015	Analyst: RW
Percent Moisture	12.7	0.2	*	wt%	1	1/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
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 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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 R - RPD outside accepted recovery limits
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STAT Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-30-2

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 10:15:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)				Prep Date: 1/26/2015	Analyst: GVC
Aroclor 1016	ND	0.097		mg/Kg-dry	1	1/26/2015
Aroclor 1221	ND	0.097		mg/Kg-dry	1	1/26/2015
Aroclor 1232	ND	0.097		mg/Kg-dry	1	1/26/2015
Aroclor 1242	ND	0.097		mg/Kg-dry	1	1/26/2015
Aroclor 1248	ND	0.097		mg/Kg-dry	1	1/26/2015
Aroclor 1254	ND	0.097		mg/Kg-dry	1	1/26/2015
Aroclor 1260	ND	0.097		mg/Kg-dry	1	1/26/2015
Mercury	SW7471A				Prep Date: 1/23/2015	Analyst: LB
Mercury	0.026	0.024		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 1/27/2015	Analyst: JG
Arsenic	8.7	1.3		mg/Kg-dry	10	1/28/2015
Barium	93	1.3		mg/Kg-dry	10	1/28/2015
Cadmium	ND	0.63		mg/Kg-dry	10	1/28/2015
Chromium	15	1.3		mg/Kg-dry	10	1/28/2015
Lead	12	0.63		mg/Kg-dry	10	1/28/2015
Selenium	ND	1.3		mg/Kg-dry	10	1/28/2015
Silver	ND	1.3		mg/Kg-dry	10	1/28/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)				Prep Date: 1/27/2015	Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	1/27/2015
Acenaphthylene	ND	0.040		mg/Kg-dry	1	1/27/2015
Anthracene	ND	0.040		mg/Kg-dry	1	1/27/2015
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	1/27/2015
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	1/27/2015
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	1/27/2015
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	1/27/2015
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	1/27/2015
Chrysene	ND	0.040		mg/Kg-dry	1	1/27/2015
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	1/27/2015
Fluoranthene	ND	0.040		mg/Kg-dry	1	1/27/2015
Fluorene	ND	0.040		mg/Kg-dry	1	1/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	1/27/2015
Naphthalene	ND	0.040		mg/Kg-dry	1	1/27/2015
Phenanthrene	ND	0.040		mg/Kg-dry	1	1/27/2015
Pyrene	ND	0.040		mg/Kg-dry	1	1/27/2015
Percent Moisture	D2974				Prep Date: 1/23/2015	Analyst: RW
Percent Moisture	18.6	0.2	*	wt%	1	1/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
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 HT - Sample received past holding time
 * - Non-accredited parameter

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 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-30-3

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 10:25:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 1/23/2015 Analyst: LB
Mercury	0.064	0.017		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 1/27/2015 Analyst: JG
Arsenic	3.2	1.1		mg/Kg-dry	10	1/29/2015
Barium	21	1.1		mg/Kg-dry	10	1/29/2015
Cadmium	ND	0.53		mg/Kg-dry	10	1/29/2015
Chromium	6.8	1.1		mg/Kg-dry	10	1/29/2015
Lead	35	0.53		mg/Kg-dry	10	1/29/2015
Selenium	ND	0.53		mg/Kg-dry	10	1/29/2015
Silver	ND	1.1		mg/Kg-dry	10	1/29/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)					Prep Date: 1/27/2015 Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	1/27/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	1/27/2015
Anthracene	ND	0.037		mg/Kg-dry	1	1/27/2015
Benzo(a)anthracene	ND	0.037		mg/Kg-dry	1	1/27/2015
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	1/27/2015
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	1/27/2015
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	1/27/2015
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	1/27/2015
Chrysene	ND	0.037		mg/Kg-dry	1	1/27/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	1/27/2015
Fluoranthene	0.046	0.037		mg/Kg-dry	1	1/27/2015
Fluorene	ND	0.037		mg/Kg-dry	1	1/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	1/27/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	1/27/2015
Phenanthrene	ND	0.037		mg/Kg-dry	1	1/27/2015
Pyrene	ND	0.037		mg/Kg-dry	1	1/27/2015
Percent Moisture	D2974					Prep Date: 1/23/2015 Analyst: RW
Percent Moisture	11.6	0.2	*	wt%	1	1/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-32-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 10:40:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/27/2015		Analyst: GVC
Aroclor 1016	ND	0.091		mg/Kg-dry	1	1/27/2015
Aroclor 1221	ND	0.091		mg/Kg-dry	1	1/27/2015
Aroclor 1232	ND	0.091		mg/Kg-dry	1	1/27/2015
Aroclor 1242	ND	0.091		mg/Kg-dry	1	1/27/2015
Aroclor 1248	ND	0.091		mg/Kg-dry	1	1/27/2015
Aroclor 1254	ND	0.091		mg/Kg-dry	1	1/27/2015
Aroclor 1260	ND	0.091		mg/Kg-dry	1	1/27/2015
Pesticides	SW8081 (SW3550B)			Prep Date: 1/27/2015		Analyst: GVC
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	1/27/2015
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	1/27/2015
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	1/27/2015
Aldrin	ND	0.0018		mg/Kg-dry	1	1/27/2015
alpha-BHC	ND	0.0018		mg/Kg-dry	1	1/27/2015
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	1/27/2015
beta-BHC	ND	0.0018		mg/Kg-dry	1	1/27/2015
Chlordane	ND	0.018		mg/Kg-dry	1	1/27/2015
delta-BHC	ND	0.0018		mg/Kg-dry	1	1/27/2015
Dieldrin	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endosulfan I	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endosulfan II	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endrin	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	1/27/2015
Endrin ketone	ND	0.0018		mg/Kg-dry	1	1/27/2015
gamma-BHC	ND	0.0018		mg/Kg-dry	1	1/27/2015
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	1/27/2015
Heptachlor	ND	0.0018		mg/Kg-dry	1	1/27/2015
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	1/27/2015
Methoxychlor	ND	0.0018		mg/Kg-dry	1	1/27/2015
Toxaphene	ND	0.038		mg/Kg-dry	1	1/27/2015
Mercury	SW7471A			Prep Date: 1/23/2015		Analyst: LB
Mercury	0.083	0.018		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/27/2015		Analyst: JG
Aluminum	4000	240		mg/Kg-dry	100	1/29/2015
Antimony	2.8	2.4		mg/Kg-dry	10	1/28/2015
Arsenic	110	1.2		mg/Kg-dry	10	1/28/2015
Barium	91	1.2		mg/Kg-dry	10	1/28/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-32-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 10:40:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 1/27/2015		Analyst: JG	
Beryllium	0.84	0.59		mg/Kg-dry	10	1/28/2015
Cadmium	3.2	0.59		mg/Kg-dry	10	1/28/2015
Calcium	97000	710		mg/Kg-dry	100	1/29/2015
Chromium	17	1.2		mg/Kg-dry	10	1/28/2015
Cobalt	5.9	1.2		mg/Kg-dry	10	1/28/2015
Copper	75	3.0		mg/Kg-dry	10	1/28/2015
Iron	24000	350		mg/Kg-dry	100	1/29/2015
Lead	160	0.59		mg/Kg-dry	10	1/28/2015
Magnesium	54000	350		mg/Kg-dry	100	1/29/2015
Manganese	1300	12		mg/Kg-dry	100	1/29/2015
Nickel	17	1.2		mg/Kg-dry	10	1/28/2015
Potassium	750	35		mg/Kg-dry	10	1/28/2015
Selenium	0.91	0.59		mg/Kg-dry	10	1/28/2015
Silver	ND	1.2		mg/Kg-dry	10	1/28/2015
Sodium	270	71		mg/Kg-dry	10	1/28/2015
Thallium	ND	1.2		mg/Kg-dry	10	1/28/2015
Vanadium	23	1.2		mg/Kg-dry	10	1/28/2015
Zinc	180	5.9		mg/Kg-dry	10	1/28/2015
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/27/2015		Analyst: DM	
Acenaphthene	ND	0.038		mg/Kg-dry	1	1/27/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	1/27/2015
Aniline	ND	0.38		mg/Kg-dry	1	1/27/2015
Anthracene	0.063	0.038		mg/Kg-dry	1	1/27/2015
Benz(a)anthracene	0.11	0.038		mg/Kg-dry	1	1/27/2015
Benzdine	ND	0.38		mg/Kg-dry	1	1/27/2015
Benzo(a)pyrene	0.14	0.038		mg/Kg-dry	1	1/27/2015
Benzo(b)fluoranthene	0.18	0.038		mg/Kg-dry	1	1/27/2015
Benzo(g,h,i)perylene	0.12	0.038		mg/Kg-dry	1	1/27/2015
Benzo(k)fluoranthene	0.075	0.038		mg/Kg-dry	1	1/27/2015
Benzoic acid	ND	0.94		mg/Kg-dry	1	1/27/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	1/27/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	1/27/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	1/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.94		mg/Kg-dry	1	1/27/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	1/27/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
Carbazole	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	1/27/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-32-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 10:40:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/27/2015		Analyst: DM	
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	1/27/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	1/27/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	1/27/2015
Chrysene	0.13	0.038		mg/Kg-dry	1	1/27/2015
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	1/27/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	1/27/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	1/27/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	1/27/2015
2,4-Dinitrophenol	ND	0.94		mg/Kg-dry	1	1/27/2015
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	1/27/2015
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	1/27/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2015
Fluoranthene	0.20	0.038		mg/Kg-dry	1	1/27/2015
Fluorene	ND	0.038		mg/Kg-dry	1	1/27/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	1/27/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	1/27/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	1/27/2015
Indeno(1,2,3-cd)pyrene	0.090	0.038		mg/Kg-dry	1	1/27/2015
Isophorone	ND	0.19		mg/Kg-dry	1	1/27/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	1/27/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	1/27/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/27/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/27/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	1/27/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-32-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 10:40:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/27/2015		Analyst: DM	
Nitrobenzene	ND	0.038		mg/Kg-dry	1	1/27/2015
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	1/27/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	1/27/2015
N-Nitrosodiphenylamine	ND	0.038		mg/Kg-dry	1	1/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	1/27/2015
Pentachlorophenol	ND	0.038		mg/Kg-dry	1	1/27/2015
Phenanthrene	0.13	0.038		mg/Kg-dry	1	1/27/2015
Phenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Pyrene	0.17	0.038		mg/Kg-dry	1	1/27/2015
Pyridine	ND	0.76		mg/Kg-dry	1	1/27/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2015
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 1/23/2015		Analyst: ART	
Acetone	ND	0.11		mg/Kg-dry	1	1/28/2015
Benzene	ND	0.0075		mg/Kg-dry	1	1/28/2015
Bromodichloromethane	ND	0.0075		mg/Kg-dry	1	1/28/2015
Bromoform	ND	0.0075		mg/Kg-dry	1	1/28/2015
Bromomethane	ND	0.015		mg/Kg-dry	1	1/28/2015
2-Butanone	ND	0.11		mg/Kg-dry	1	1/28/2015
Carbon disulfide	ND	0.075		mg/Kg-dry	1	1/28/2015
Carbon tetrachloride	ND	0.0075		mg/Kg-dry	1	1/28/2015
Chlorobenzene	ND	0.0075		mg/Kg-dry	1	1/28/2015
Chloroethane	ND	0.015		mg/Kg-dry	1	1/28/2015
Chloroform	ND	0.0075		mg/Kg-dry	1	1/28/2015
Chloromethane	ND	0.015		mg/Kg-dry	1	1/28/2015
Dibromochloromethane	ND	0.0075		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethane	ND	0.0075		mg/Kg-dry	1	1/28/2015
1,2-Dichloroethane	ND	0.0075		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethene	ND	0.0075		mg/Kg-dry	1	1/28/2015
cis-1,2-Dichloroethene	ND	0.0075		mg/Kg-dry	1	1/28/2015
trans-1,2-Dichloroethene	ND	0.0075		mg/Kg-dry	1	1/28/2015
1,2-Dichloropropane	ND	0.0075		mg/Kg-dry	1	1/28/2015
cis-1,3-Dichloropropene	ND	0.0030		mg/Kg-dry	1	1/28/2015
trans-1,3-Dichloropropene	ND	0.0030		mg/Kg-dry	1	1/28/2015
Ethylbenzene	ND	0.0075		mg/Kg-dry	1	1/28/2015
2-Hexanone	ND	0.030		mg/Kg-dry	1	1/28/2015
4-Methyl-2-pentanone	ND	0.030		mg/Kg-dry	1	1/28/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-32-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 10:40:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/23/2015	Analyst: ART
Methylene chloride	ND	0.015		mg/Kg-dry	1	1/28/2015
Methyl tert-butyl ether	ND	0.0075		mg/Kg-dry	1	1/28/2015
Styrene	ND	0.0075		mg/Kg-dry	1	1/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0075		mg/Kg-dry	1	1/28/2015
Tetrachloroethene	ND	0.0075		mg/Kg-dry	1	1/28/2015
Toluene	0.039	0.0075		mg/Kg-dry	1	1/28/2015
1,1,1-Trichloroethane	ND	0.0075		mg/Kg-dry	1	1/28/2015
1,1,2-Trichloroethane	ND	0.0075		mg/Kg-dry	1	1/28/2015
Trichloroethene	ND	0.0075		mg/Kg-dry	1	1/28/2015
Vinyl chloride	ND	0.0075		mg/Kg-dry	1	1/28/2015
Xylenes, Total	ND	0.023		mg/Kg-dry	1	1/28/2015
Cyanide, Total	SW9012A				Prep Date: 1/23/2015	Analyst: YZ
Cyanide	ND	0.29		mg/Kg-dry	1	1/23/2015
pH (25 °C)	SW9045C				Prep Date: 1/23/2015	Analyst: RW
pH	8.0			pH Units	1	1/23/2015
Percent Moisture	D2974				Prep Date: 1/23/2015	Analyst: RW
Percent Moisture	13.0	0.2	*	wt%	1	1/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-32-2

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 10:45:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A				Prep Date: 1/23/2015	Analyst: LB
Mercury	ND	0.022		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 1/27/2015	Analyst: JG
Antimony	ND	2.1		mg/Kg-dry	10	1/28/2015
Arsenic	8.6	1.1		mg/Kg-dry	10	1/28/2015
Beryllium	ND	0.53		mg/Kg-dry	10	1/28/2015
Cadmium	ND	0.53		mg/Kg-dry	10	1/28/2015
Chromium	15	1.1		mg/Kg-dry	10	1/28/2015
Copper	18	2.6		mg/Kg-dry	10	1/28/2015
Lead	12	0.53		mg/Kg-dry	10	1/28/2015
Nickel	19	1.1		mg/Kg-dry	10	1/28/2015
Selenium	ND	0.53		mg/Kg-dry	10	1/28/2015
Silver	ND	1.1		mg/Kg-dry	10	1/28/2015
Thallium	ND	1.1		mg/Kg-dry	10	1/28/2015
Zinc	49	5.3		mg/Kg-dry	10	1/28/2015
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/23/2015	Analyst: ART
Acetone	ND	0.091		mg/Kg-dry	1	1/28/2015
Benzene	ND	0.0060		mg/Kg-dry	1	1/28/2015
Bromodichloromethane	ND	0.0060		mg/Kg-dry	1	1/28/2015
Bromoform	ND	0.0060		mg/Kg-dry	1	1/28/2015
Bromomethane	ND	0.012		mg/Kg-dry	1	1/28/2015
2-Butanone	ND	0.091		mg/Kg-dry	1	1/28/2015
Carbon disulfide	ND	0.060		mg/Kg-dry	1	1/28/2015
Carbon tetrachloride	ND	0.0060		mg/Kg-dry	1	1/28/2015
Chlorobenzene	ND	0.0060		mg/Kg-dry	1	1/28/2015
Chloroethane	ND	0.012		mg/Kg-dry	1	1/28/2015
Chloroform	ND	0.0060		mg/Kg-dry	1	1/28/2015
Chloromethane	ND	0.012		mg/Kg-dry	1	1/28/2015
Dibromochloromethane	ND	0.0060		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethane	ND	0.0060		mg/Kg-dry	1	1/28/2015
1,2-Dichloroethane	ND	0.0060		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethene	ND	0.0060		mg/Kg-dry	1	1/28/2015
cis-1,2-Dichloroethene	ND	0.0060		mg/Kg-dry	1	1/28/2015
trans-1,2-Dichloroethene	ND	0.0060		mg/Kg-dry	1	1/28/2015
1,2-Dichloropropane	ND	0.0060		mg/Kg-dry	1	1/28/2015
cis-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	1/28/2015
trans-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	1/28/2015
Ethylbenzene	ND	0.0060		mg/Kg-dry	1	1/28/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-32-2

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 10:45:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/23/2015	Analyst: ART
2-Hexanone	ND	0.024		mg/Kg-dry	1	1/28/2015
4-Methyl-2-pentanone	ND	0.024		mg/Kg-dry	1	1/28/2015
Methylene chloride	ND	0.012		mg/Kg-dry	1	1/28/2015
Methyl tert-butyl ether	ND	0.0060		mg/Kg-dry	1	1/28/2015
Styrene	ND	0.0060		mg/Kg-dry	1	1/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0060		mg/Kg-dry	1	1/28/2015
Tetrachloroethene	ND	0.0060		mg/Kg-dry	1	1/28/2015
Toluene	ND	0.0060		mg/Kg-dry	1	1/28/2015
1,1,1-Trichloroethane	ND	0.0060		mg/Kg-dry	1	1/28/2015
1,1,2-Trichloroethane	ND	0.0060		mg/Kg-dry	1	1/28/2015
Trichloroethene	ND	0.0060		mg/Kg-dry	1	1/28/2015
Vinyl chloride	ND	0.0060		mg/Kg-dry	1	1/28/2015
Xylenes, Total	ND	0.018		mg/Kg-dry	1	1/28/2015
Percent Moisture	D2974				Prep Date: 1/23/2015	Analyst: RW
Percent Moisture	19.2	0.2	*	wt%	1	1/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-32-3

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 10:50:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-012

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)				Prep Date: 1/26/2015	Analyst: GVC
Aroclor 1016	ND	0.091		mg/Kg-dry	1	1/26/2015
Aroclor 1221	ND	0.091		mg/Kg-dry	1	1/26/2015
Aroclor 1232	ND	0.091		mg/Kg-dry	1	1/26/2015
Aroclor 1242	ND	0.091		mg/Kg-dry	1	1/26/2015
Aroclor 1248	ND	0.091		mg/Kg-dry	1	1/26/2015
Aroclor 1254	ND	0.091		mg/Kg-dry	1	1/26/2015
Aroclor 1260	ND	0.091		mg/Kg-dry	1	1/26/2015
Mercury	SW7471A				Prep Date: 1/23/2015	Analyst: LB
Mercury	ND	0.021		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 1/27/2015	Analyst: JG
Arsenic	4.6	1.0		mg/Kg-dry	10	1/29/2015
Barium	15	1.0		mg/Kg-dry	10	1/29/2015
Cadmium	ND	0.51		mg/Kg-dry	10	1/29/2015
Chromium	6.5	1.0		mg/Kg-dry	10	1/29/2015
Lead	19	0.51		mg/Kg-dry	10	1/29/2015
Selenium	ND	0.51		mg/Kg-dry	10	1/29/2015
Silver	ND	1.0		mg/Kg-dry	10	1/29/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)				Prep Date: 1/27/2015	Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	1/27/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	1/27/2015
Anthracene	ND	0.037		mg/Kg-dry	1	1/27/2015
Benz(a)anthracene	ND	0.037		mg/Kg-dry	1	1/27/2015
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	1/27/2015
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	1/27/2015
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	1/27/2015
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	1/27/2015
Chrysene	ND	0.037		mg/Kg-dry	1	1/27/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	1/27/2015
Fluoranthene	0.057	0.037		mg/Kg-dry	1	1/27/2015
Fluorene	ND	0.037		mg/Kg-dry	1	1/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	1/27/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	1/27/2015
Phenanthrene	ND	0.037		mg/Kg-dry	1	1/27/2015
Pyrene	0.053	0.037		mg/Kg-dry	1	1/27/2015
Percent Moisture	D2974				Prep Date: 1/23/2015	Analyst: RW
Percent Moisture	12.6	0.2	*	wt%	1	1/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-34-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 11:15:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/27/2015		Analyst: GVC
Aroclor 1016	ND	0.099		mg/Kg-dry	1	1/27/2015
Aroclor 1221	ND	0.099		mg/Kg-dry	1	1/27/2015
Aroclor 1232	ND	0.099		mg/Kg-dry	1	1/27/2015
Aroclor 1242	ND	0.099		mg/Kg-dry	1	1/27/2015
Aroclor 1248	ND	0.099		mg/Kg-dry	1	1/27/2015
Aroclor 1254	ND	0.099		mg/Kg-dry	1	1/27/2015
Aroclor 1260	ND	0.099		mg/Kg-dry	1	1/27/2015
Pesticides	SW8081 (SW3550B)			Prep Date: 1/27/2015		Analyst: GVC
4,4'-DDD	ND	0.0020		mg/Kg-dry	1	1/27/2015
4,4'-DDE	ND	0.0020		mg/Kg-dry	1	1/27/2015
4,4'-DDT	ND	0.0020		mg/Kg-dry	1	1/27/2015
Aldrin	ND	0.0020		mg/Kg-dry	1	1/27/2015
alpha-BHC	ND	0.0020		mg/Kg-dry	1	1/27/2015
alpha-Chlordane	ND	0.0020		mg/Kg-dry	1	1/27/2015
beta-BHC	ND	0.0020		mg/Kg-dry	1	1/27/2015
Chlordane	ND	0.020		mg/Kg-dry	1	1/27/2015
delta-BHC	ND	0.0020		mg/Kg-dry	1	1/27/2015
Dieldrin	ND	0.0020		mg/Kg-dry	1	1/27/2015
Endosulfan I	ND	0.0020		mg/Kg-dry	1	1/27/2015
Endosulfan II	ND	0.0020		mg/Kg-dry	1	1/27/2015
Endosulfan sulfate	ND	0.0020		mg/Kg-dry	1	1/27/2015
Endrin	ND	0.0020		mg/Kg-dry	1	1/27/2015
Endrin aldehyde	ND	0.0020		mg/Kg-dry	1	1/27/2015
Endrin ketone	ND	0.0020		mg/Kg-dry	1	1/27/2015
gamma-BHC	ND	0.0020		mg/Kg-dry	1	1/27/2015
gamma-Chlordane	ND	0.0020		mg/Kg-dry	1	1/27/2015
Heptachlor	ND	0.0020		mg/Kg-dry	1	1/27/2015
Heptachlor epoxide	ND	0.0020		mg/Kg-dry	1	1/27/2015
Methoxychlor	ND	0.0020		mg/Kg-dry	1	1/27/2015
Toxaphene	ND	0.041		mg/Kg-dry	1	1/27/2015
Mercury	SW7471A			Prep Date: 1/23/2015		Analyst: LB
Mercury	0.11	0.024		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/27/2015		Analyst: JG
Aluminum	7000	220		mg/Kg-dry	100	1/29/2015
Antimony	ND	2.2		mg/Kg-dry	10	1/28/2015
Arsenic	11	1.1		mg/Kg-dry	10	1/28/2015
Barium	69	1.1		mg/Kg-dry	10	1/28/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-34-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 11:15:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 1/27/2015		Analyst: JG
Beryllium	0.73	0.54		mg/Kg-dry	10	1/28/2015
Cadmium	0.69	0.54		mg/Kg-dry	10	1/28/2015
Calcium	50000	650		mg/Kg-dry	100	1/29/2015
Chromium	13	1.1		mg/Kg-dry	10	1/28/2015
Cobalt	7.5	1.1		mg/Kg-dry	10	1/28/2015
Copper	38	2.7		mg/Kg-dry	10	1/28/2015
Iron	22000	330		mg/Kg-dry	100	1/29/2015
Lead	57	0.54		mg/Kg-dry	10	1/28/2015
Magnesium	29000	330		mg/Kg-dry	100	1/29/2015
Manganese	580	1.1		mg/Kg-dry	10	1/28/2015
Nickel	19	1.1		mg/Kg-dry	10	1/28/2015
Potassium	730	33		mg/Kg-dry	10	1/28/2015
Selenium	ND	0.54		mg/Kg-dry	10	1/28/2015
Silver	ND	1.1		mg/Kg-dry	10	1/28/2015
Sodium	110	65		mg/Kg-dry	10	1/28/2015
Thallium	ND	1.1		mg/Kg-dry	10	1/28/2015
Vanadium	27	1.1		mg/Kg-dry	10	1/28/2015
Zinc	98	5.4		mg/Kg-dry	10	1/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 1/27/2015		Analyst: DM
Acenaphthene	0.16	0.041		mg/Kg-dry	1	1/27/2015
Acenaphthylene	0.14	0.041		mg/Kg-dry	1	1/27/2015
Aniline	ND	0.41		mg/Kg-dry	1	1/27/2015
Anthracene	0.37	0.041		mg/Kg-dry	1	1/27/2015
Benz(a)anthracene	0.61	0.041		mg/Kg-dry	1	1/27/2015
Benzidine	ND	0.41		mg/Kg-dry	1	1/27/2015
Benzo(a)pyrene	0.50	0.041		mg/Kg-dry	1	1/27/2015
Benzo(b)fluoranthene	0.37	0.041		mg/Kg-dry	1	1/27/2015
Benzo(g,h,i)perylene	0.26	0.041		mg/Kg-dry	1	1/27/2015
Benzo(k)fluoranthene	0.38	0.041		mg/Kg-dry	1	1/27/2015
Benzoic acid	ND	1.0		mg/Kg-dry	1	1/27/2015
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	1/27/2015
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	1/27/2015
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	1/27/2015
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	1/27/2015
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	1/27/2015
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2015
Carbazole	ND	0.21		mg/Kg-dry	1	1/27/2015
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	1/27/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-34-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 11:15:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/27/2015		Analyst: DM	
4-Chloro-3-methylphenol	ND	0.41		mg/Kg-dry	1	1/27/2015
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	1/27/2015
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	1/27/2015
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	1/27/2015
Chrysene	0.60	0.041		mg/Kg-dry	1	1/27/2015
Dibenz(a,h)anthracene	0.17	0.041		mg/Kg-dry	1	1/27/2015
Dibenzofuran	ND	0.21		mg/Kg-dry	1	1/27/2015
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2015
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2015
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2015
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	1/27/2015
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	1/27/2015
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2015
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	1/27/2015
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2015
4,6-Dinitro-2-methylphenol	ND	0.41		mg/Kg-dry	1	1/27/2015
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	1/27/2015
2,4-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	1/27/2015
2,6-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	1/27/2015
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2015
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2015
Fluoranthene	1.6	0.041		mg/Kg-dry	1	1/27/2015
Fluorene	0.21	0.041		mg/Kg-dry	1	1/27/2015
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2015
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	1/27/2015
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	1/27/2015
Hexachloroethane	ND	0.21		mg/Kg-dry	1	1/27/2015
Indeno(1,2,3-cd)pyrene	0.29	0.041		mg/Kg-dry	1	1/27/2015
Isophorone	ND	0.21		mg/Kg-dry	1	1/27/2015
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	1/27/2015
2-Methylphenol	ND	0.21		mg/Kg-dry	1	1/27/2015
4-Methylphenol	ND	0.21		mg/Kg-dry	1	1/27/2015
Naphthalene	0.053	0.041		mg/Kg-dry	1	1/27/2015
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	1/27/2015
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	1/27/2015
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	1/27/2015
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	1/27/2015
4-Nitrophenol	ND	0.41		mg/Kg-dry	1	1/27/2015

Qualifiers:
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 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-34-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 11:15:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/27/2015		Analyst: DM	
Nitrobenzene	ND	0.041		mg/Kg-dry	1	1/27/2015
N-Nitrosodi-n-propylamine	ND	0.041		mg/Kg-dry	1	1/27/2015
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	1/27/2015
N-Nitrosodiphenylamine	ND	0.041		mg/Kg-dry	1	1/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	1/27/2015
Pentachlorophenol	ND	0.041		mg/Kg-dry	1	1/27/2015
Phenanthrene	1.8	0.041		mg/Kg-dry	1	1/27/2015
Phenol	ND	0.21		mg/Kg-dry	1	1/27/2015
Pyrene	1.2	0.041		mg/Kg-dry	1	1/27/2015
Pyridine	ND	0.83		mg/Kg-dry	1	1/27/2015
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2015
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	1/27/2015
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	1/27/2015
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 1/23/2015		Analyst: ART	
Acetone	ND	0.14		mg/Kg-dry	1	1/28/2015
Benzene	ND	0.0095		mg/Kg-dry	1	1/28/2015
Bromodichloromethane	ND	0.0095		mg/Kg-dry	1	1/28/2015
Bromoform	ND	0.0095		mg/Kg-dry	1	1/28/2015
Bromomethane	ND	0.019		mg/Kg-dry	1	1/28/2015
2-Butanone	ND	0.14		mg/Kg-dry	1	1/28/2015
Carbon disulfide	ND	0.095		mg/Kg-dry	1	1/28/2015
Carbon tetrachloride	ND	0.0095		mg/Kg-dry	1	1/28/2015
Chlorobenzene	ND	0.0095		mg/Kg-dry	1	1/28/2015
Chloroethane	ND	0.019		mg/Kg-dry	1	1/28/2015
Chloroform	ND	0.0095		mg/Kg-dry	1	1/28/2015
Chloromethane	ND	0.019		mg/Kg-dry	1	1/28/2015
Dibromochloromethane	ND	0.0095		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethane	ND	0.0095		mg/Kg-dry	1	1/28/2015
1,2-Dichloroethane	ND	0.0095		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethene	ND	0.0095		mg/Kg-dry	1	1/28/2015
cis-1,2-Dichloroethene	ND	0.0095		mg/Kg-dry	1	1/28/2015
trans-1,2-Dichloroethene	ND	0.0095		mg/Kg-dry	1	1/28/2015
1,2-Dichloropropane	ND	0.0095		mg/Kg-dry	1	1/28/2015
cis-1,3-Dichloropropene	ND	0.0038		mg/Kg-dry	1	1/28/2015
trans-1,3-Dichloropropene	ND	0.0038		mg/Kg-dry	1	1/28/2015
Ethylbenzene	ND	0.0095		mg/Kg-dry	1	1/28/2015
2-Hexanone	ND	0.038		mg/Kg-dry	1	1/28/2015
4-Methyl-2-pentanone	ND	0.038		mg/Kg-dry	1	1/28/2015

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-34-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 11:15:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/23/2015	Analyst: ART
Methylene chloride	ND	0.019		mg/Kg-dry	1	1/28/2015
Methyl tert-butyl ether	ND	0.0095		mg/Kg-dry	1	1/28/2015
Styrene	ND	0.0095		mg/Kg-dry	1	1/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0095		mg/Kg-dry	1	1/28/2015
Tetrachloroethene	ND	0.0095		mg/Kg-dry	1	1/28/2015
Toluene	ND	0.0095		mg/Kg-dry	1	1/28/2015
1,1,1-Trichloroethane	ND	0.0095		mg/Kg-dry	1	1/28/2015
1,1,2-Trichloroethane	ND	0.0095		mg/Kg-dry	1	1/28/2015
Trichloroethene	ND	0.0095		mg/Kg-dry	1	1/28/2015
Vinyl chloride	ND	0.0095		mg/Kg-dry	1	1/28/2015
Xylenes, Total	ND	0.028		mg/Kg-dry	1	1/28/2015
Cyanide, Total	SW9012A				Prep Date: 1/23/2015	Analyst: YZ
Cyanide	ND	0.31		mg/Kg-dry	1	1/23/2015
pH (25 °C)	SW9045C				Prep Date: 1/23/2015	Analyst: RW
pH	7.7			pH Units	1	1/23/2015
Percent Moisture	D2974				Prep Date: 1/23/2015	Analyst: RW
Percent Moisture	19.7	0.2	*	wt%	1	1/26/2015

Qualifiers:
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-34-2

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 11:20:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-014

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/26/2015		Analyst: GVC
Aroclor 1016	ND	0.091		mg/Kg-dry	1	1/26/2015
Aroclor 1221	ND	0.091		mg/Kg-dry	1	1/26/2015
Aroclor 1232	ND	0.091		mg/Kg-dry	1	1/26/2015
Aroclor 1242	ND	0.091		mg/Kg-dry	1	1/26/2015
Aroclor 1248	ND	0.091		mg/Kg-dry	1	1/26/2015
Aroclor 1254	ND	0.091		mg/Kg-dry	1	1/26/2015
Aroclor 1260	ND	0.091		mg/Kg-dry	1	1/26/2015
Mercury	SW7471A			Prep Date: 1/23/2015		Analyst: LB
Mercury	ND	0.020		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/27/2015		Analyst: JG
Antimony	ND	2.1		mg/Kg-dry	10	1/28/2015
Arsenic	7.0	1.1		mg/Kg-dry	10	1/28/2015
Beryllium	ND	0.54		mg/Kg-dry	10	1/28/2015
Cadmium	ND	0.54		mg/Kg-dry	10	1/28/2015
Chromium	11	1.1		mg/Kg-dry	10	1/28/2015
Copper	13	2.7		mg/Kg-dry	10	1/28/2015
Lead	9.3	0.54		mg/Kg-dry	10	1/28/2015
Nickel	13	1.1		mg/Kg-dry	10	1/28/2015
Selenium	ND	0.54		mg/Kg-dry	10	1/28/2015
Silver	ND	1.1		mg/Kg-dry	10	1/28/2015
Thallium	ND	1.1		mg/Kg-dry	10	1/28/2015
Zinc	37	5.4		mg/Kg-dry	10	1/28/2015
Volatile Organic Compounds by GC/MS	SW5035/8260B			Prep Date: 1/23/2015		Analyst: ART
Acetone	ND	0.070		mg/Kg-dry	1	1/28/2015
Benzene	ND	0.0047		mg/Kg-dry	1	1/28/2015
Bromodichloromethane	ND	0.0047		mg/Kg-dry	1	1/28/2015
Bromoform	ND	0.0047		mg/Kg-dry	1	1/28/2015
Bromomethane	ND	0.0094		mg/Kg-dry	1	1/28/2015
2-Butanone	ND	0.070		mg/Kg-dry	1	1/28/2015
Carbon disulfide	ND	0.047		mg/Kg-dry	1	1/28/2015
Carbon tetrachloride	ND	0.0047		mg/Kg-dry	1	1/28/2015
Chlorobenzene	ND	0.0047		mg/Kg-dry	1	1/28/2015
Chloroethane	ND	0.0094		mg/Kg-dry	1	1/28/2015
Chloroform	ND	0.0047		mg/Kg-dry	1	1/28/2015
Chloromethane	ND	0.0094		mg/Kg-dry	1	1/28/2015
Dibromochloromethane	ND	0.0047		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethane	ND	0.0047		mg/Kg-dry	1	1/28/2015

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-34-2

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 11:20:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-014

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/23/2015	Analyst: ART
1,2-Dichloroethane	ND	0.0047		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethane	ND	0.0047		mg/Kg-dry	1	1/28/2015
cis-1,2-Dichloroethene	ND	0.0047		mg/Kg-dry	1	1/28/2015
trans-1,2-Dichloroethene	ND	0.0047		mg/Kg-dry	1	1/28/2015
1,2-Dichloropropane	ND	0.0047		mg/Kg-dry	1	1/28/2015
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	1/28/2015
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	1/28/2015
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	1/28/2015
2-Hexanone	ND	0.019		mg/Kg-dry	1	1/28/2015
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	1/28/2015
Methylene chloride	ND	0.0094		mg/Kg-dry	1	1/28/2015
Methyl tert-butyl ether	ND	0.0047		mg/Kg-dry	1	1/28/2015
Styrene	ND	0.0047		mg/Kg-dry	1	1/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0047		mg/Kg-dry	1	1/28/2015
Tetrachloroethene	ND	0.0047		mg/Kg-dry	1	1/28/2015
Toluene	ND	0.0047		mg/Kg-dry	1	1/28/2015
1,1,1-Trichloroethane	ND	0.0047		mg/Kg-dry	1	1/28/2015
1,1,2-Trichloroethane	ND	0.0047		mg/Kg-dry	1	1/28/2015
Trichloroethene	ND	0.0047		mg/Kg-dry	1	1/28/2015
Vinyl chloride	ND	0.0047		mg/Kg-dry	1	1/28/2015
Xylenes, Total	ND	0.014		mg/Kg-dry	1	1/28/2015
Percent Moisture	D2974				Prep Date: 1/23/2015	Analyst: RW
Percent Moisture	12.3	0.2	*	wt%	1	1/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-34-3

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 11:25:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-015

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A				Prep Date: 1/23/2015	Analyst: LB
Mercury	0.052	0.024		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 1/27/2015	Analyst: JG
Arsenic	28	1.2		mg/Kg-dry	10	1/29/2015
Barium	160	1.2		mg/Kg-dry	10	1/29/2015
Cadmium	1.3	0.60		mg/Kg-dry	10	1/29/2015
Chromium	10	1.2		mg/Kg-dry	10	1/29/2015
Lead	230	0.60		mg/Kg-dry	10	1/29/2015
Selenium	1.5	0.60		mg/Kg-dry	10	1/29/2015
Silver	ND	1.2		mg/Kg-dry	10	1/29/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)				Prep Date: 1/27/2015	Analyst: DM
Acenaphthene	ND	0.041		mg/Kg-dry	1	1/28/2015
Acenaphthylene	ND	0.041		mg/Kg-dry	1	1/28/2015
Anthracene	0.043	0.041		mg/Kg-dry	1	1/28/2015
Benzo(a)anthracene	0.10	0.041		mg/Kg-dry	1	1/28/2015
Benzo(a)pyrene	0.099	0.041		mg/Kg-dry	1	1/28/2015
Benzo(b)fluoranthene	0.12	0.041		mg/Kg-dry	1	1/28/2015
Benzo(g,h,i)perylene	0.060	0.041		mg/Kg-dry	1	1/28/2015
Benzo(k)fluoranthene	0.094	0.041		mg/Kg-dry	1	1/28/2015
Chrysene	0.16	0.041		mg/Kg-dry	1	1/28/2015
Dibenz(a,h)anthracene	ND	0.041		mg/Kg-dry	1	1/28/2015
Fluoranthene	0.21	0.041		mg/Kg-dry	1	1/28/2015
Fluorene	ND	0.041		mg/Kg-dry	1	1/28/2015
Indeno(1,2,3-cd)pyrene	0.050	0.041		mg/Kg-dry	1	1/28/2015
Naphthalene	ND	0.041		mg/Kg-dry	1	1/28/2015
Phenanthrene	0.25	0.041		mg/Kg-dry	1	1/28/2015
Pyrene	0.18	0.041		mg/Kg-dry	1	1/28/2015
Percent Moisture	D2974				Prep Date: 1/23/2015	Analyst: RW
Percent Moisture	20.7	0.2	*	wt%	1	1/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-36-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 11:40:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-016

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)			Prep Date: 1/27/2015		Analyst: GVC
Aroclor 1016	ND	0.098		mg/Kg-dry	1	1/27/2015
Aroclor 1221	ND	0.098		mg/Kg-dry	1	1/27/2015
Aroclor 1232	ND	0.098		mg/Kg-dry	1	1/27/2015
Aroclor 1242	ND	0.098		mg/Kg-dry	1	1/27/2015
Aroclor 1248	ND	0.098		mg/Kg-dry	1	1/27/2015
Aroclor 1254	ND	0.098		mg/Kg-dry	1	1/27/2015
Aroclor 1260	ND	0.098		mg/Kg-dry	1	1/27/2015
Pesticides	SW8081 (SW3550B)			Prep Date: 1/27/2015		Analyst: GVC
4,4'-DDD	ND	0.0020		mg/Kg-dry	1	1/27/2015
4,4'-DDE	ND	0.0020		mg/Kg-dry	1	1/27/2015
4,4'-DDT	ND	0.0020		mg/Kg-dry	1	1/27/2015
Aldrin	ND	0.0020		mg/Kg-dry	1	1/27/2015
alpha-BHC	ND	0.0020		mg/Kg-dry	1	1/27/2015
alpha-Chlordane	ND	0.0020		mg/Kg-dry	1	1/27/2015
beta-BHC	ND	0.0020		mg/Kg-dry	1	1/27/2015
Chlordane	ND	0.020		mg/Kg-dry	1	1/27/2015
delta-BHC	ND	0.0020		mg/Kg-dry	1	1/27/2015
Dieldrin	ND	0.0020		mg/Kg-dry	1	1/27/2015
Endosulfan I	ND	0.0020		mg/Kg-dry	1	1/27/2015
Endosulfan II	ND	0.0020		mg/Kg-dry	1	1/27/2015
Endosulfan sulfate	ND	0.0020		mg/Kg-dry	1	1/27/2015
Endrin	ND	0.0020		mg/Kg-dry	1	1/27/2015
Endrin aldehyde	ND	0.0020		mg/Kg-dry	1	1/27/2015
Endrin ketone	ND	0.0020		mg/Kg-dry	1	1/27/2015
gamma-BHC	ND	0.0020		mg/Kg-dry	1	1/27/2015
gamma-Chlordane	ND	0.0020		mg/Kg-dry	1	1/27/2015
Heptachlor	ND	0.0020		mg/Kg-dry	1	1/27/2015
Heptachlor epoxide	ND	0.0020		mg/Kg-dry	1	1/27/2015
Methoxychlor	ND	0.0020		mg/Kg-dry	1	1/27/2015
Toxaphene	ND	0.040		mg/Kg-dry	1	1/27/2015
Mercury	SW7471A			Prep Date: 1/23/2015		Analyst: LB
Mercury	0.66	0.022		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 1/27/2015		Analyst: JG
Aluminum	4200	250		mg/Kg-dry	100	1/29/2015
Antimony	ND	2.5		mg/Kg-dry	10	1/28/2015
Arsenic	56	1.2		mg/Kg-dry	10	1/28/2015
Barium	64	1.2		mg/Kg-dry	10	1/28/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-36-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 11:40:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-016

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 1/27/2015		Analyst: JG	
Beryllium	0.81	0.62		mg/Kg-dry	10	1/28/2015
Cadmium	0.74	0.62		mg/Kg-dry	10	1/28/2015
Calcium	52000	740		mg/Kg-dry	100	1/29/2015
Chromium	14	1.2		mg/Kg-dry	10	1/28/2015
Cobalt	5.3	1.2		mg/Kg-dry	10	1/28/2015
Copper	60	3.1		mg/Kg-dry	10	1/28/2015
Iron	28000	370		mg/Kg-dry	100	1/29/2015
Lead	64	0.62		mg/Kg-dry	10	1/28/2015
Magnesium	29000	370		mg/Kg-dry	100	1/29/2015
Manganese	390	1.2		mg/Kg-dry	10	1/28/2015
Nickel	16	1.2		mg/Kg-dry	10	1/28/2015
Potassium	570	37		mg/Kg-dry	10	1/28/2015
Selenium	ND	0.62		mg/Kg-dry	10	1/28/2015
Silver	ND	1.2		mg/Kg-dry	10	1/28/2015
Sodium	240	74		mg/Kg-dry	10	1/28/2015
Thallium	ND	1.2		mg/Kg-dry	10	1/28/2015
Vanadium	21	1.2		mg/Kg-dry	10	1/28/2015
Zinc	94	6.2		mg/Kg-dry	10	1/28/2015
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/27/2015		Analyst: DM	
Acenaphthene	ND	0.040		mg/Kg-dry	1	1/27/2015
Acenaphthylene	ND	0.040		mg/Kg-dry	1	1/27/2015
Aniline	ND	0.41		mg/Kg-dry	1	1/27/2015
Anthracene	0.043	0.040		mg/Kg-dry	1	1/27/2015
Benz(a)anthracene	0.14	0.040		mg/Kg-dry	1	1/27/2015
Benzdine	ND	0.40		mg/Kg-dry	1	1/27/2015
Benzo(a)pyrene	0.14	0.040		mg/Kg-dry	1	1/27/2015
Benzo(b)fluoranthene	0.15	0.040		mg/Kg-dry	1	1/27/2015
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	1/27/2015
Benzo(k)fluoranthene	0.12	0.040		mg/Kg-dry	1	1/27/2015
Benzoic acid	ND	1.0		mg/Kg-dry	1	1/27/2015
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	1/27/2015
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	1/27/2015
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	1/27/2015
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	1/27/2015
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	1/27/2015
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2015
Carbazole	ND	0.21		mg/Kg-dry	1	1/27/2015
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	1/27/2015

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-36-1

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 11:40:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-016

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/27/2015		Analyst: DM	
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	1/27/2015
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	1/27/2015
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	1/27/2015
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	1/27/2015
Chrysene	0.16	0.040		mg/Kg-dry	1	1/27/2015
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	1/27/2015
Dibenzofuran	ND	0.21		mg/Kg-dry	1	1/27/2015
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2015
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2015
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2015
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	1/27/2015
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	1/27/2015
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2015
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	1/27/2015
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2015
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	1/27/2015
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	1/27/2015
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	1/27/2015
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	1/27/2015
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2015
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2015
Fluoranthene	0.24	0.040		mg/Kg-dry	1	1/27/2015
Fluorene	ND	0.040		mg/Kg-dry	1	1/27/2015
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2015
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	1/27/2015
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	1/27/2015
Hexachloroethane	ND	0.21		mg/Kg-dry	1	1/27/2015
Indeno(1,2,3-cd)pyrene	0.062	0.040		mg/Kg-dry	1	1/27/2015
Isophorone	ND	0.21		mg/Kg-dry	1	1/27/2015
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	1/27/2015
2-Methylphenol	ND	0.21		mg/Kg-dry	1	1/27/2015
4-Methylphenol	ND	0.21		mg/Kg-dry	1	1/27/2015
Naphthalene	ND	0.040		mg/Kg-dry	1	1/27/2015
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	1/27/2015
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	1/27/2015
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	1/27/2015
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	1/27/2015
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	1/27/2015

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ANALYTICAL RESULTS

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Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 11:40:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-016

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/27/2015		Analyst: DM	
Nitrobenzene	ND	0.040		mg/Kg-dry	1	1/27/2015
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	1/27/2015
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	1/27/2015
N-Nitrosodiphenylamine	ND	0.040		mg/Kg-dry	1	1/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	1/27/2015
Pentachlorophenol	ND	0.040		mg/Kg-dry	1	1/27/2015
Phenanthrene	0.21	0.040		mg/Kg-dry	1	1/27/2015
Phenol	ND	0.21		mg/Kg-dry	1	1/27/2015
Pyrene	0.24	0.040		mg/Kg-dry	1	1/27/2015
Pyridine	ND	0.82		mg/Kg-dry	1	1/27/2015
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2015
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	1/27/2015
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	1/27/2015
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 1/23/2015		Analyst: ART	
Acetone	ND	0.12		mg/Kg-dry	1	1/28/2015
Benzene	ND	0.0083		mg/Kg-dry	1	1/28/2015
Bromodichloromethane	ND	0.0083		mg/Kg-dry	1	1/28/2015
Bromoform	ND	0.0083		mg/Kg-dry	1	1/28/2015
Bromomethane	ND	0.017		mg/Kg-dry	1	1/28/2015
2-Butanone	ND	0.12		mg/Kg-dry	1	1/28/2015
Carbon disulfide	ND	0.083		mg/Kg-dry	1	1/28/2015
Carbon tetrachloride	ND	0.0083		mg/Kg-dry	1	1/28/2015
Chlorobenzene	ND	0.0083		mg/Kg-dry	1	1/28/2015
Chloroethane	ND	0.017		mg/Kg-dry	1	1/28/2015
Chloroform	ND	0.0083		mg/Kg-dry	1	1/28/2015
Chloromethane	ND	0.017		mg/Kg-dry	1	1/28/2015
Dibromochloromethane	ND	0.0083		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethane	ND	0.0083		mg/Kg-dry	1	1/28/2015
1,2-Dichloroethane	ND	0.0083		mg/Kg-dry	1	1/28/2015
1,1-Dichloroethene	ND	0.0083		mg/Kg-dry	1	1/28/2015
cis-1,2-Dichloroethene	ND	0.0083		mg/Kg-dry	1	1/28/2015
trans-1,2-Dichloroethene	ND	0.0083		mg/Kg-dry	1	1/28/2015
1,2-Dichloropropane	ND	0.0083		mg/Kg-dry	1	1/28/2015
cis-1,3-Dichloropropene	ND	0.0033		mg/Kg-dry	1	1/28/2015
trans-1,3-Dichloropropene	ND	0.0033		mg/Kg-dry	1	1/28/2015
Ethylbenzene	ND	0.0083		mg/Kg-dry	1	1/28/2015
2-Hexanone	ND	0.033		mg/Kg-dry	1	1/28/2015
4-Methyl-2-pentanone	ND	0.033		mg/Kg-dry	1	1/28/2015

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Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-016

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 1/23/2015	Analyst: ART
Methylene chloride	ND	0.017		mg/Kg-dry	1	1/28/2015
Methyl tert-butyl ether	ND	0.0083		mg/Kg-dry	1	1/28/2015
Styrene	ND	0.0083		mg/Kg-dry	1	1/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0083		mg/Kg-dry	1	1/28/2015
Tetrachloroethene	ND	0.0083		mg/Kg-dry	1	1/28/2015
Toluene	ND	0.0083		mg/Kg-dry	1	1/28/2015
1,1,1-Trichloroethane	ND	0.0083		mg/Kg-dry	1	1/28/2015
1,1,2-Trichloroethane	ND	0.0083		mg/Kg-dry	1	1/28/2015
Trichloroethene	ND	0.0083		mg/Kg-dry	1	1/28/2015
Vinyl chloride	ND	0.0083		mg/Kg-dry	1	1/28/2015
Xylenes, Total	ND	0.025		mg/Kg-dry	1	1/28/2015
Cyanide, Total	SW9012A				Prep Date: 1/23/2015	Analyst: YZ
Cyanide	ND	0.31		mg/Kg-dry	1	1/23/2015
pH (25 °C)	SW9045C				Prep Date: 1/23/2015	Analyst: RW
pH	7.9			pH Units	1	1/23/2015
Percent Moisture	D2974				Prep Date: 1/23/2015	Analyst: RW
Percent Moisture	18.7	0.2	*	wt%	1	1/26/2015

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Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-36-2

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 11:45:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-017

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs	SW8082 (SW3550B)				Prep Date: 1/26/2015	Analyst: GVC
Aroclor 1016	ND	0.094		mg/Kg-dry	1	1/26/2015
Aroclor 1221	ND	0.094		mg/Kg-dry	1	1/26/2015
Aroclor 1232	ND	0.094		mg/Kg-dry	1	1/26/2015
Aroclor 1242	ND	0.094		mg/Kg-dry	1	1/26/2015
Aroclor 1248	ND	0.094		mg/Kg-dry	1	1/26/2015
Aroclor 1254	ND	0.094		mg/Kg-dry	1	1/26/2015
Aroclor 1260	ND	0.094		mg/Kg-dry	1	1/26/2015
Mercury	SW7471A				Prep Date: 1/23/2015	Analyst: LB
Mercury	ND	0.023		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 1/27/2015	Analyst: JG
Antimony	ND	2.0		mg/Kg-dry	10	1/28/2015
Arsenic	8.8	0.99		mg/Kg-dry	10	1/28/2015
Beryllium	0.66	0.50		mg/Kg-dry	10	1/28/2015
Cadmium	ND	0.50		mg/Kg-dry	10	1/28/2015
Chromium	15	0.99		mg/Kg-dry	10	1/28/2015
Copper	15	2.5		mg/Kg-dry	10	1/28/2015
Lead	13	0.50		mg/Kg-dry	10	1/28/2015
Nickel	18	0.99		mg/Kg-dry	10	1/28/2015
Selenium	ND	0.50		mg/Kg-dry	10	1/28/2015
Silver	ND	0.99		mg/Kg-dry	10	1/28/2015
Thallium	ND	0.99		mg/Kg-dry	10	1/28/2015
Zinc	45	5.0		mg/Kg-dry	10	1/28/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)				Prep Date: 1/27/2015	Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	1/28/2015
Acenaphthylene	ND	0.039		mg/Kg-dry	1	1/28/2015
Anthracene	ND	0.039		mg/Kg-dry	1	1/28/2015
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	1/28/2015
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	1/28/2015
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	1/28/2015
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	1/28/2015
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	1/28/2015
Chrysene	ND	0.039		mg/Kg-dry	1	1/28/2015
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	1/28/2015
Fluoranthene	ND	0.039		mg/Kg-dry	1	1/28/2015
Fluorene	ND	0.039		mg/Kg-dry	1	1/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	1/28/2015
Naphthalene	ND	0.039		mg/Kg-dry	1	1/28/2015

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 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-36-2

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 11:45:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-017

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)				Prep Date: 1/27/2015	Analyst: DM
Phenanthrene	ND	0.039		mg/Kg-dry	1	1/28/2015
Pyrene	ND	0.039		mg/Kg-dry	1	1/28/2015
Percent Moisture	D2974				Prep Date: 1/23/2015	Analyst: RW
Percent Moisture	15.4	0.2	*	wt%	1	1/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 12, 2015

ANALYTICAL RESULTS

Date Printed: February 12, 2015

Client: GSG Consultants, Inc.

Client Sample ID: RPM-SB-36-3

Work Order: 15010465 Revision 1

Collection Date: 1/22/2015 11:55:00 AM

Project: RPM Redline North, Berwyn-Bryn Mawr

Matrix: Soil

Lab ID: 15010465-018

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A				Prep Date: 1/23/2015	Analyst: LB
Mercury	0.11	0.025		mg/Kg-dry	1	1/23/2015
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 1/27/2015	Analyst: JG
Arsenic	81	1.2		mg/Kg-dry	10	1/29/2015
Barium	360	1.2		mg/Kg-dry	10	1/29/2015
Cadmium	2.1	0.59		mg/Kg-dry	10	1/29/2015
Chromium	10	1.2		mg/Kg-dry	10	1/29/2015
Lead	350	0.59		mg/Kg-dry	10	1/29/2015
Selenium	1.6	0.59		mg/Kg-dry	10	1/29/2015
Silver	ND	1.2		mg/Kg-dry	10	1/29/2015
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)				Prep Date: 1/27/2015	Analyst: DM
Acenaphthene	0.087	0.042		mg/Kg-dry	1	1/28/2015
Acenaphthylene	0.047	0.042		mg/Kg-dry	1	1/28/2015
Anthracene	0.36	0.042		mg/Kg-dry	1	1/28/2015
Benzo(a)anthracene	0.71	0.042		mg/Kg-dry	1	1/28/2015
Benzo(a)pyrene	0.62	0.042		mg/Kg-dry	1	1/28/2015
Benzo(b)fluoranthene	0.60	0.042		mg/Kg-dry	1	1/28/2015
Benzo(g,h,i)perylene	0.31	0.042		mg/Kg-dry	1	1/28/2015
Benzo(k)fluoranthene	0.52	0.042		mg/Kg-dry	1	1/28/2015
Chrysene	0.75	0.042		mg/Kg-dry	1	1/28/2015
Dibenz(a,h)anthracene	0.17	0.042		mg/Kg-dry	1	1/28/2015
Fluoranthene	1.5	0.042		mg/Kg-dry	1	1/28/2015
Fluorene	0.14	0.042		mg/Kg-dry	1	1/28/2015
Indeno(1,2,3-cd)pyrene	0.28	0.042		mg/Kg-dry	1	1/28/2015
Naphthalene	0.052	0.042		mg/Kg-dry	1	1/28/2015
Phenanthrene	1.5	0.042		mg/Kg-dry	1	1/28/2015
Pyrene	1.2	0.042		mg/Kg-dry	1	1/28/2015
Percent Moisture	D2974				Prep Date: 1/23/2015	Analyst: RW
Percent Moisture	21.4	0.2	*	wt%	1	1/26/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

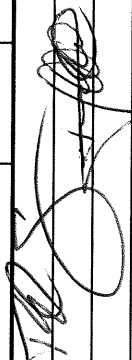
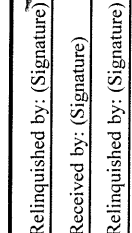
R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

CHAIN OF CUSTODY RECORD

N^o: 857145 Page: of

Company: GSG		P.O. No.:							
Project Number:		Quote No.:							
Project Name: RPM RedLine North									
Project Location: Berwyn - Bryan Meul									
Sampler(s): TC/SH/SR/Im									
Report To: Ted Casagy									
Phone: 312 733 6262		Turn Around: Standard							
Fax: 312 733 612		Results Needed:							
e-mail: TC@GSG-Conservation.com									
QC Level: 1 2 3 4									
Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	Remarks	Lab No.:
RPM-SB-26-1	1/22/15	910	Soil				4		01
RPM-SB-26-2		915					4	X	002
RPM-SB-26-3		925					1	X	003
RPM-SB-28-1		940					4	X	004
RPM-SB-28-2		950					4	X	005
RPM-SB-28-3		955					1	X	006
RPM-SB-30-1		1010					4	X	007
RPM-SB-30-2		1015					1	X	008
RPM-SB-30-3		1025					1	X	009
RPM-SB-32-1		1040					4	X	010
RPM-SB-32-2		1045					4	X	011
RPM-SB-32-3		1050					1	X	012
RPM-SB-34-1		1115					4	X	013
RPM-SB-34-2		1120					4	X	014
RPM-SB-34-3		1125					1	X	015
RPM-SB-36-1		1140					4	X	016
RPM-SB-36-2		1145					1	X	017
RPM-SB-36-3		1155					1	X	018
Relinquished by: (Signature)  Date/Time: 1/22/15 Received by: (Signature)  Date/Time: 1/22/15 1620 Relinquished by: (Signature) Date/Time: Received by: (Signature) Date/Time: Relinquished by: (Signature) Date/Time: Received by: (Signature) Date/Time:								Laboratory Work Order No.: 15010465	
Preservation Code: A = None B = HNO ₃ C = NaOH D = H ₂ SO ₄ E = HCl F = 5035/EnCore G = Other								Received on Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Temperature: 4.5 °C	

Sample Receipt Checklist

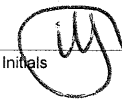
Client Name GSG

Date and Time Received: 1/22/2015 4:20:00 PM

Work Order Number 15010465

Received by: DO

Checklist completed by:  _____
Signature Date 1/22/15

Reviewed by:  _____
Initials Date 1/29/15

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature 4.5 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: _____

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

RPM Redline North, Berwyn-Bryn Mawr 15010465

Craig Chawla

From: Thaddeus Cagney [tcagney@gsg-consultants.com]

Sent: Friday, January 23, 2015 7:47 AM

To: Craig Chawla

Subject: RE: RPM Redline North, Berwyn-Bryn Mawr 15010465

PNAs and RCRA metals. Thought I tagged that one. Sorry about that.

Ted Cagney

GSG CONSULTANTS, INC.

312-733-6262 office

708-712-6828 cell

APPENDIX D

Summary of Findings

Soil Boring RPM-SB-15

41° 58' 01.73" N, 87° 39' 29.64" W



Boring location: 4661 N. Broadway, at street level

RPM-SB-15 advanced to 12'.

RPM-SB-15-1: 1-3 feet bgs

Contaminants of Concern:

VOCs, PNAs, priority pollutant metals, pesticides, PCBs

CCDD: Yes/No

Non-Special Waste: Yes/No – Subtitle “D”

Hazardous Waste: Yes/No – Subtitle “C”

Construction Worker Notification Recommended: Yes/No

RPM-SB-15-2: 5-7 feet bgs

Contaminants of Concern:

Target Compound List

CCDD: Yes/No

Non-Special Waste: Yes/No – Subtitle “D”

Hazardous Waste: Yes/No – Subtitle “C”

Construction Worker Notification Recommended: Yes/No

RECs: Urban fill



RPM-SB-15 boring location, facing southwest

Soil Boring RPM-SB-16

41° 58' 06.36" N, 87° 39' 30.29" W



Boring location: south end of Lawrence Avenue Station, at track level



RPM-SB-16 boring location, facing south

RPM-SB-16 advanced to 15'.

RPM-SB-16-1: 1-3 feet bgs

Contaminants of Concern:

Target Compound List

CCDD: Yes/No

Non-Special Waste: Yes/No – Subtitle “D”

Hazardous Waste: Yes/No – Subtitle “C”

Construction Worker Notification Recommended: Yes/No

RPM-SB-16-2: 5-7 feet bgs

Contaminants of Concern:

VOCs, priority pollutant metals, pesticides, PNAs, PCBs

CCDD: Yes/No

Non-Special Waste: Yes/No – Subtitle “D”

Hazardous Waste: Yes/No – Subtitle “C”

Construction Worker Notification Recommended: Yes/No

RPM-SB-16-3: 11-13 feet bgs

Contaminants of Concern:

PNAs, RCRA metals, PCBs

CCDD: Yes/No

Non-Special Waste: Yes/No – Subtitle “D”

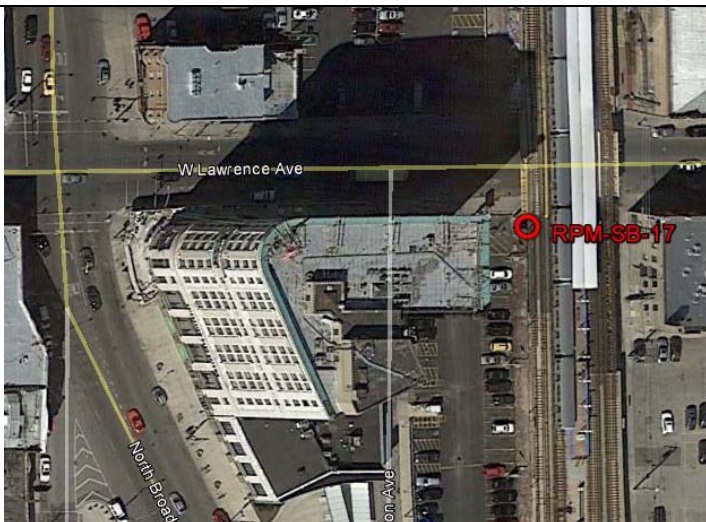
Hazardous Waste: Yes/No – Subtitle “C”

Construction Worker Notification Recommended: Yes/No

RECs: Unknown fill

Soil Boring RPM-SB-17

41° 58' 06.19" N, 87° 39' 30.81" W



Boring location: 1113 W. Lawrence Avenue, at street level

RECs: An historic auto storage and repair facility was located west of the Lawrence Station; urban fill

RPM-SB-17 advanced to 12'.

RPM-SB-17-1: 1-3 feet bgs

Contaminants of Concern:

PNAs, RCRA metals

CCDD: **Yes/No**

Non-pecial Waste: Yes/**No** – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**

RPM-SB-17-2: 7-9 feet bgs

Contaminants of Concern:

PNAs, RCRA metals

CCDD: **Yes/No**

Non-Special Waste: Yes/**No** – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”



Construction Worker Notification Recommended: Yes/**No**



RPM-SB-17, facing northeast

Soil Boring RPM-SB-18

41° 58' 11.49" N, 87° 39' 30.46" W

 <p>Boring location: north end of Lawrence Avenue Station, at track level</p>	<p>RPM-SB-18 advanced to 15'.</p> <p>RPM-SB-18-1: 1-3 feet bgs Contaminants of Concern: Target Compound List</p> <p>CCDD: Yes/<u>No</u> Non-Special Waste: <u>Yes</u>/No – Subtitle “D” Hazardous Waste: Yes/<u>No</u> – Subtitle “C” Construction Worker Notification Recommended: <u>Yes</u>/No</p> <p>RPM-SB-18-2: 6-8 feet bgs Contaminants of Concern: VOCs, priority pollutant metals, PCBs CCDD: <u>Yes</u>/No Non-Special Waste: Yes/<u>No</u> – Subtitle “D” Hazardous Waste: Yes/<u>No</u> – Subtitle “C” Construction Worker Notification Recommended: Yes/<u>No</u></p>
 <p>RPM-SB-18, facing north</p>	<p>RPM-SB-18-3: 13-15 feet bgs Contaminants of Concern: PNAs, RCRA metals, PCBs</p> <p>CCDD: Yes/<u>No</u> Non-Special Waste: <u>Yes</u>/No – Subtitle “D” Hazardous Waste: Yes/<u>No</u> – Subtitle “C” Construction Worker Notification Recommended: Yes/<u>No</u></p> <p>RECs: Unknown fill</p>

Soil Boring RPM-SB-19

41° 58' 15.06" N, 87° 39' 30.50" W



Boring location: between Lawrence Ave. Station and Ainslie Street, at track level

RPM-SB-19 advanced to 15'.

RPM-SB-19-1: 1-3 feet bgs
 Contaminants of Concern:
 Target Compound List

CCDD: Yes/No
 Non-Special Waste: Yes/No – Subtitle “D”
 Hazardous Waste: Yes/No – Subtitle “C”
 Construction Worker Notification Recommended: Yes/No

RPM-SB-19-2: 6-8 feet bgs
 Contaminants of Concern:
 VOCs, PNAs, priority pollutant metals, PCBs

CCDD: Yes/No
 Non-Special Waste: Yes/No – Subtitle “D”
 Hazardous Waste: Yes/No – Subtitle “C”
 Construction Worker Notification Recommended: Yes/No



RPM-SB-19, facing south

RPM-SB-19-3: 12-14 feet bgs
 Contaminants of Concern:
 PNAs, RCRA metals, PCBs

CCDD: Yes/No
 Non-Special Waste: Yes/No – Subtitle “D”
 Hazardous Waste: Yes/No – Subtitle “C”
 Construction Worker Notification Recommended: Yes/No

RECs: Unknown fill

Soil Boring RPM-SB-20

41° 58' 17.21" N, 87° 39' 31.06" W



Boring location: 1113 W. Ainslie Street, at street level

RPM-SB-20 advanced to 12'.

RPM-SB-20-1: 1-3 feet bgs

Contaminants of Concern:

PNAs, RCRA metals

CCDD: **Yes/No**

Non-Special Waste: Yes/**No** – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**

RPM-SB-20-2: 8-10 feet bgs

Contaminants of Concern:

PNAs, RCRA metals

CCDD: **Yes/No**

Non-Special Waste: Yes/**No** – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**



RECs: Urban fill



RPM-SB-20, facing southeast

Soil Boring RPM-SB-21

41° 58' 20.76" N, 87° 39' 30.65" W

 <p>Boring location: south end of Argyle Station, at track level</p>	<p>RPM-SB-21 advanced to 15'.</p> <p>RPM-SB-21-1: 1-3 feet bgs Contaminants of Concern: Target Compound List</p> <p>CCDD: Yes/<u>No</u> Non-Special Waste: <u>Yes</u>/No – Subtitle “D” Hazardous Waste: Yes/<u>No</u> – Subtitle “C” Construction Worker Notification Recommended: <u>Yes</u>/No</p> <p>RPM-SB-21-2: 6-8 feet bgs Contaminants of Concern: VOCs, PNAs, priority pollutant metals, PCBs CCDD: Yes/<u>No</u> Non-Special Waste: <u>Yes</u>/No – Subtitle “D” Hazardous Waste: Yes/<u>No</u> – Subtitle “C” Construction Worker Notification Recommended: Yes/<u>No</u></p>
 <p>RPM-SB-21, facing north</p>	<p>RPM-SB-21-3: 13-15 feet bgs Contaminants of Concern: PNAs, RCRA metals, PCBs CCDD: <u>Yes</u>/No Non-Special Waste: Yes/<u>No</u> – Subtitle “D” Hazardous Waste: Yes/<u>No</u> – Subtitle “C” Construction Worker Notification Recommended: Yes/<u>No</u></p> <p>RECs: Unknown fill</p>

Soil Boring RPM-SB-22

41° 58' 23.48" N, 87° 39' 30.48" W



Boring location: 1113 W. Argyle Street, at street level

RPM-SB-22 advanced to 12'.

RPM-SB-22-1: 1-3 feet bgs

Contaminants of Concern:

PNAs, RCRA metals

CCDD: **Yes/No**

Non-Special Waste: Yes/**No** – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**

RPM-SB-22-2: 6-8 feet bgs

Contaminants of Concern:

PNAs, RCRA metals

CCDD: **Yes/No**

Non-Special Waste: Yes/**No** – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**

RECs: Urban fill



RPM-SB-22, facing west

Soil Boring RPM-SB-23

41° 58' 27.20" N, 87° 39' 30.86" W



Boring location: north end of Argyle Station, at track level

RPM-SB-23 advanced to 15'.

RPM-SB-23-1: 1-3 feet bgs

Contaminants of Concern:

Target Compound List

CCDD: Yes/**No**

Non-Special Waste: **Yes**/No – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: **Yes**/No

RPM-SB-23-2: 6-8 feet bgs

Contaminants of Concern:

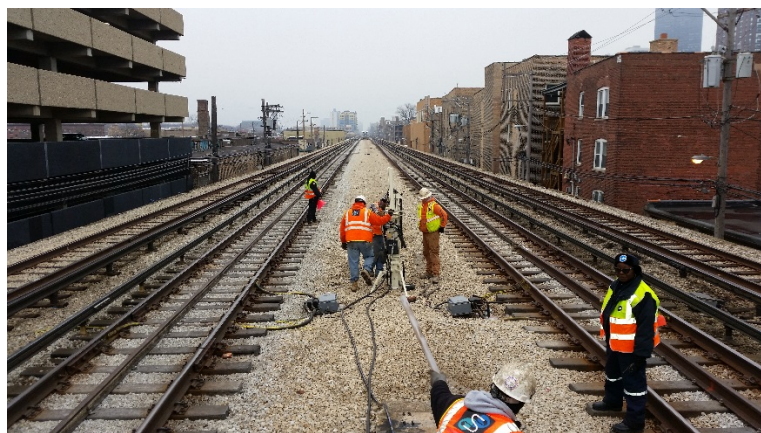
Target Compound List

CCDD: Yes/**No**

Non-Special Waste: **Yes**/No – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**



RPM-SB-23, facing north

RPM-SB-23-3: 12-14 feet bgs

Contaminants of Concern:

PNAs, RCRA metals, PCBs

CCDD: **Yes**/No

Non-Special Waste: Yes/**No** – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**

RECs: Unknown fill

Soil Boring RPM-SB-24

41° 58' 31.06" N, 87° 39' 31.50" W



Boring location: 1113 W. Winona Street, at street level

RPM-SB-24 advanced to 12'.

RPM-SB-24-1: 1-3 feet bgs

Contaminants of Concern:

PNAs, RCRA metals

CCDD: Yes/**No**

Non-Special Waste: **Yes**/No – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**

RPM-SB-24-2: 7-9 feet bgs

Contaminants of Concern:

PNAs, RCRA metals

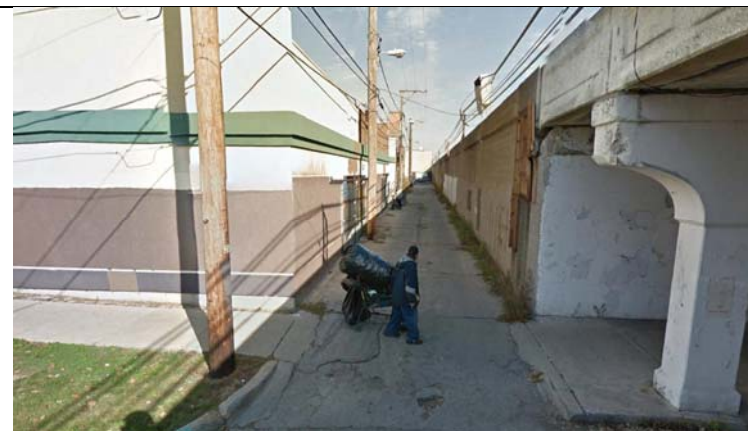
CCDD: **Yes**/No

Non-Special Waste: Yes/**No** – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**

RECs: An historic coal yard was located on the west side of the tracks; urban fill.



RPM-SB-24, facing south

Soil Boring RPM-SB-25

41° 58' 34.48" N, 87° 39' 31.54" W



Boring location: 1113 W. Foster Avenue, at street level

RECs: The site was previously a historical laundry (1923 to 1928) and is currently an auto repair facility and is listed on the Illinois Bureau of Land database; urban fill

RPM-SB-25 advanced to 12'.

RPM-SB-25-1: 1-3 feet bgs

Contaminants of Concern:

PNAs, RCRA metals

CCDD: **Yes/No**

Non-Special Waste: Yes/**No** – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**

RPM-SB-25-2: 8-10 feet bgs

Contaminants of Concern:

PNAs, RCRA metals

CCDD: **Yes/No**

Non-Special Waste: Yes/**No** – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

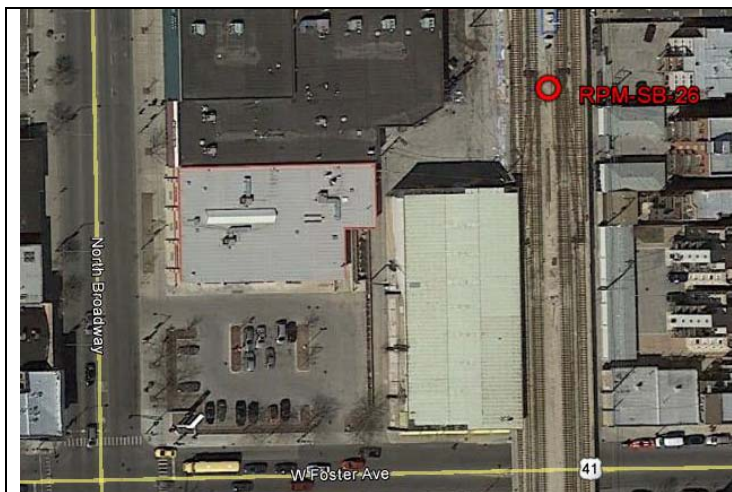
Construction Worker Notification Recommended: Yes/**No**



RPM-SB-25, facing south

Soil Boring RPM-SB-26

41° 58' 38.00" N, 87° 39' 31.16" W



Boring location: south end Berwyn Station, at track level

RPM-SB-26 advanced to 15'.

RPM-SB-15-1: 1-3 feet bgs

Contaminants of Concern:

Target Compound List

CCDD: Yes/**No**

Non-Special Waste: **Yes**/No – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: **Yes**/No

RPM-SB-26-2: 7-9 feet bgs

Contaminants of Concern:

VOCs, PNAs, RCRA metals, PCBs

CCDD: **Yes**/No

Non-Special Waste: Yes/**No** – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**



RPM-SB-26, facing south

RPM-SB-26-3: 12-14 feet bgs

Contaminants of Concern:

PNAs, RCRA metals

CCDD: Yes/**No**

Non-Special Waste: **Yes**/No – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**

RECs: Unknown fill

Soil Boring RPM-SB-27

41° 58' 41.77" N, 87° 39' 31.83" W



Boring location: 1113 W. Berwyn Avenue, at street level

RPM-SB-27 advanced to 12'.

RPM-SB-27-1: 1-3 feet bgs

Contaminants of Concern:

PNAs, priority pollutant metals, pesticides

CCDD: **Yes/No**

Non-Special Waste: Yes/**No** – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**

RPM-SB-27-2: 6-8 feet bgs

Contaminants of Concern:

Target Compound List

CCDD: **Yes/No**

Non-Special Waste: Yes/**No** – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**


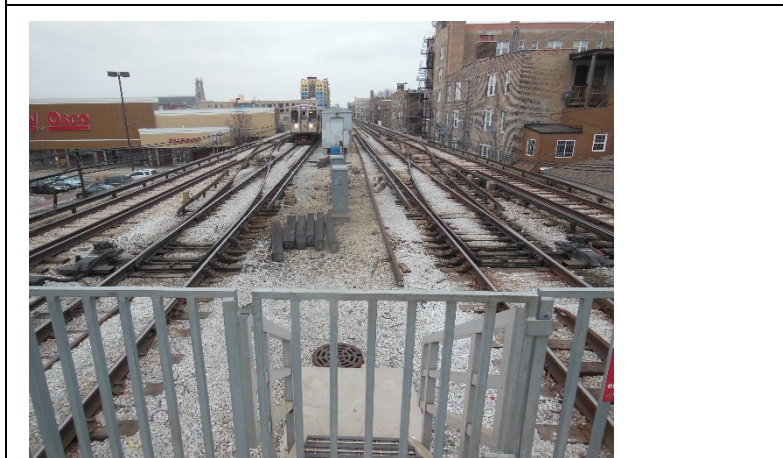
RECs: An historic coal yard was located on the west side of the tracks; urban fill



RPM-SB-27, facing east

Soil Boring RPM-SB-28

41° 58' 43.03" N, 87° 39' 31.28" W

 <p>Boring location: north end Berwyn Station, at track level</p>	<p>RPM-SB-28 advanced to 15'.</p> <p>RPM-SB-28-1: 1-3 feet bgs Contaminants of Concern: Target Compound List CCDD: Yes/No Non-Special Waste: Yes/No – Subtitle “D” Hazardous Waste: Yes/No – Subtitle “C” Construction Worker Notification Recommended: Yes/No</p> <p>RPM-SB-28-2: 6-8 feet bgs Contaminants of Concern: VOCs, PNAs, RCRA Metals, PCBs CCDD: Yes/No Non-Special Waste: Yes/No – Subtitle “D” Hazardous Waste: Yes/No – Subtitle “C” Construction Worker Notification Recommended: Yes/No</p>
 <p>RPM-SB-28, facing north</p>	<p>RPM-SB-28-3: 13-15 feet bgs Contaminants of Concern: PNAs, RCRA metals CCDD: Yes/No Non-Special Waste: Yes/No – Subtitle “D” Hazardous Waste: Yes/No – Subtitle “C” Construction Worker Notification Recommended: Yes/No</p> <p>RECs: Unknown fill</p>

Soil Boring RPM-SB-29

41° 58' 47.61" N, 87° 39' 31.98" W



Boring location: 1113 W. Balmoral Avenue, at street level

RPM-SB-29 advanced to 12'.

RPM-SB-29-1: 1-3 feet bgs

Contaminants of Concern:

PNAs, RCRA metals, pesticides

CCDD: Yes/No

Non-Special Waste: Yes/No – Subtitle “D”

Hazardous Waste: Yes/No – Subtitle “C”

Construction Worker Notification Recommended: Yes/No

RPM-SB-29-2: 7-9 feet bgs

Contaminants of Concern:

Target Compound List

CCDD: Yes/No

Non-Special Waste: Yes/No – Subtitle “D”

Hazardous Waste: Yes/No – Subtitle “C”

Construction Worker Notification Recommended: Yes/No

RECs: An historic coal yard was located on the west side of the tracks; an auto repair facility is located at 1122 W. Balmoral Ave.; urban fill



RPM-SB-29, facing south

Soil Boring RPM-SB-30

41° 58' 51.07" N, 87° 39' 31.49" W



Boring location: between Berwyn Ave. Station and Catalpa Ave., at track level



RPM-SB-30, facing south

RPM-SB-30 advanced to 15'.

RPM-SB-30-1: 1-3 feet bgs

Contaminants of Concern:

Target Compound List

CCDD: Yes/**No**

Non-Special Waste: **Yes**/No – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: **Yes**/No

RPM-SB-30-2: 6-8 feet bgs

Contaminants of Concern:

PNAs, RCRA metals, PCBs

CCDD: **Yes**/No

Non-Special Waste: Yes/**No** – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**

RPM-SB-30-3: 11-13 feet bgs

Contaminants of Concern:

PNAs, RCRA metals

CCDD: Yes/**No**

Non-Special Waste: **Yes**/No – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**

RECs: Unknown fill

Soil Boring RPM-SB-31

41° 58' 54.21" N, 87° 39' 32.30" W



Boring location: 1113 W. Catalpa Avenue, at street level

RECs: Northside Auto Repair, located at 1123 W. Catalpa, adjacent to the west of the tracks, is an historic Auto Repair facility (under various names since 1999), and a 250-gallon heating oil UST was abandoned in-place there in 1995; urban fill

RPM-SB-31 advanced to 12'.

RPM-SB-31-1: 1-3 feet bgs

Contaminants of Concern:

PNAs, priority pollutant metals

CCDD: Yes/No

Non-Special Waste: Yes/No – Subtitle “D”

Hazardous Waste: Yes/No – Subtitle “C”

Construction Worker Notification Recommended: Yes/No

RPM-SB-31-2: 8-10 feet bgs

Contaminants of Concern:

Target Compound List

CCDD: Yes/No

Non-Special Waste: Yes/No – Subtitle “D”

Hazardous Waste: Yes/No – Subtitle “C”



Construction Worker Notification Recommended: Yes/No



RPM-SB-31, facing west

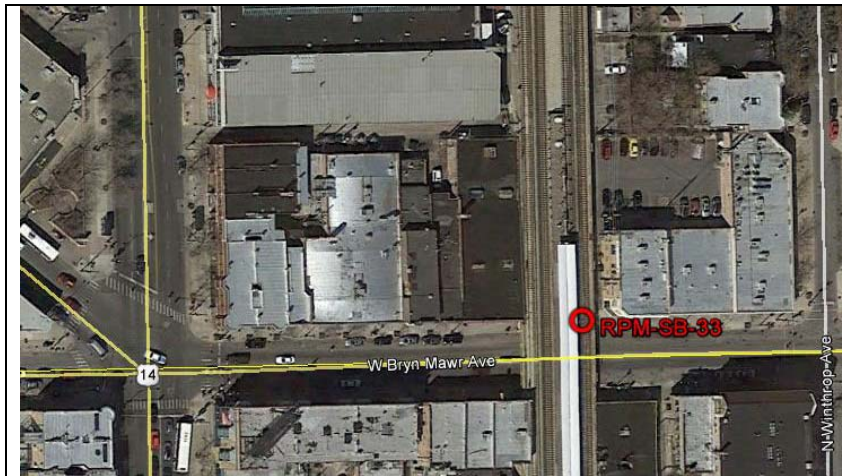
Soil Boring RPM-SB-32

41° 58' 58.11" N, 87° 39' 31.64" W

 <p>Boring location: south end Bryn Mawr Station, at track level</p>	<p>RPM-SB-32 advanced to 15'.</p> <p>RPM-SB-32-1: 1-3 feet bgs Contaminants of Concern: Target Compound List CCDD: Yes/No Non-Special Waste: Yes/No – Subtitle “D” Hazardous Waste: Yes/No – Subtitle “C” Construction Worker Notification Recommended: Yes/No</p> <p>RPM-SB-32-2: 7-9 feet bgs Contaminants of Concern: VOCs, priority pollutant metals CCDD: Yes/No Non-Special Waste: Yes/No – Subtitle “D” Hazardous Waste: Yes/No – Subtitle “C” Construction Worker Notification Recommended: Yes/No</p>
 <p>RPM-SB-32, facing north</p>	<p>RPM-SB-32-3: 13-15 feet bgs Contaminants of Concern: PNAs, RCRA metals, PCBs CCDD: Yes/No Non-Special Waste: Yes/No – Subtitle “D” Hazardous Waste: Yes/No – Subtitle “C” Construction Worker Notification Recommended: Yes/No</p> <p>RECs: Unknown fill</p>

Soil Boring RPM-SB-33

41° 59' 01.46" N, 87° 39' 31.40" W



Boring location: 1113 W. Bryn Mawr Avenue, at street level

RPM-SB-33 advanced to 12'.

RPM-SB-33-1: 1-3 feet bgs

Contaminants of Concern:

PNAs, RCRA metals

CCDD: Yes/No

Non-Special Waste: Yes/No – Subtitle “D”

Hazardous Waste: Yes/No – Subtitle “C”

Construction Worker Notification Recommended: Yes/No

RPM-SB-33-2: 7-9 feet bgs

Contaminants of Concern:

PNAs, RCRA metals

CCDD: Yes/No

Non-Special Waste: Yes/No – Subtitle “D”

Hazardous Waste: Yes/No – Subtitle “C”

Construction Worker Notification Recommended: Yes/No



RECs: Urban fill



RPM-SB-33, facing east

Soil Boring RPM-SB-34

41° 59' 04.27" N, 87° 39' 31.86" W

 <p>Boring location: north end Bryn Mawr Station, at track level</p>	<p>RPM-SB-34 advanced to 15'.</p> <p>RPM-SB-34-1: 1-3 feet bgs Contaminants of Concern: Target Compound List CCDD: Yes/<u>No</u> Non-Special Waste: <u>Yes</u>/No – Subtitle “D” Hazardous Waste: Yes/<u>No</u> – Subtitle “C” Construction Worker Notification Recommended: Yes/<u>No</u></p> <p>RPM-SB-34-2: 6-8 feet bgs Contaminants of Concern: VOCs, priority pollutant metals, PCBs CCDD: <u>Yes</u>/No Non-Special Waste: Yes/<u>No</u> – Subtitle “D” Hazardous Waste: Yes/<u>No</u> – Subtitle “C” Construction Worker Notification Recommended: Yes/<u>No</u></p>
 <p>RPM-SB-34, facing north</p>	<p>RPM-SB-34-3: 13-15 feet bgs Contaminants of Concern: PNAs, RCRA metals CCDD: Yes/<u>No</u> Non-Special Waste: <u>Yes</u>/No – Subtitle “D” Hazardous Waste: Yes/<u>No</u> – Subtitle “C” Construction Worker Notification Recommended: Yes/<u>No</u></p> <p>RECs: Unknown fill</p>

Soil Boring RPM-SB-35

41° 59'07.36" N, 87° 39' 31.61" W



Boring location: 1113 W. Hollywood Avenue, at street level

RPM-SB-35 advanced to 12'.

RPM-SB-35-1: 1-3 feet bgs

Contaminants of Concern:

PNAs, RCRA metals

CCDD: Yes/**No**

Non-Special Waste: **Yes**/No – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**

RPM-SB-35-2: 6-8 feet bgs

Contaminants of Concern:

Target Compound List

CCDD: **Yes**/No

Non-Special Waste: Yes/**No** – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**



RECs: Urban fill



RPM-SB-35, facing south

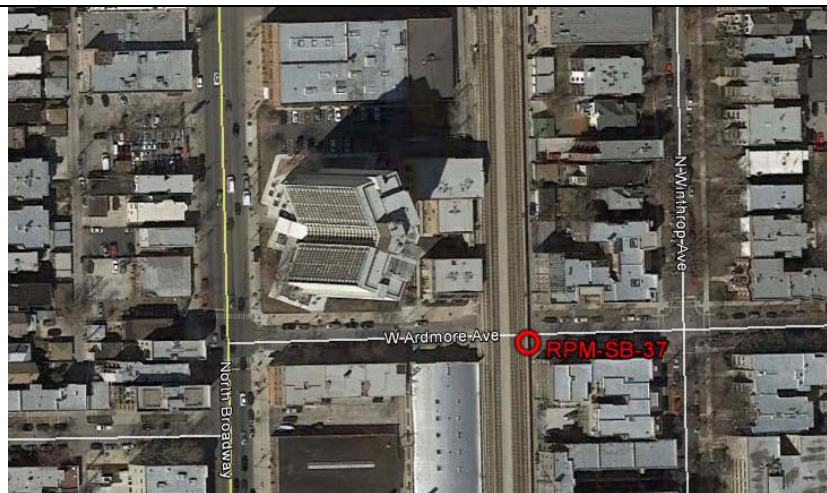
Soil Boring RPM-SB-36

41° 59' 10.55" N, 87° 39' 32.02" W

	<p>RPM-SB-36 advanced to 15'.</p> <p>RPM-SB-36-1: 1-3 feet bgs Contaminants of Concern: Target Compound List CCDD: Yes/No Non-Special Waste: Yes/No – Subtitle “D” Hazardous Waste: Yes/No – Subtitle “C” Construction Worker Notification Recommended: Yes/No</p>
<p>Boring location: between Hollywood Ave. and Ardmore Ave., at track level</p>	<p>RPM-SB-36-2: 6-8 feet bgs Contaminants of Concern: PNAs, priority pollutant metals, PCBs CCDD: Yes/No Non-Special Waste: Yes/No – Subtitle “D” Hazardous Waste: Yes/No – Subtitle “C” Construction Worker Notification Recommended: Yes/No</p>
	<p>RPM-SB-36-3: 13-15 feet bgs Contaminants of Concern: PNAs, RCRA metals CCDD: Yes/No Non-Special Waste: Yes/No – Subtitle “D” Hazardous Waste: Yes/No – Subtitle “C” Construction Worker Notification Recommended: Yes/No</p> <p>RECs: Unknown fill material</p>

Soil Boring RPM-SB-37

41° 59' 13.98" N, 87° 39' 31.76" W



Boring location: 1113 W. Ardmore Avenue, at street level

RPM-SB-37 advanced to 12'.

RPM-SB-37-1: 1-3 feet bgs

Contaminants of Concern:

PNAs, priority pollutant metals

CCDD: **Yes/No**

Non-Special Waste: Yes/**No** – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**

RPM-SB-37-2: 6-8 feet bgs

Contaminants of Concern:

PNAs, RCRA metals

CCDD: **Yes/No**

Non-Special Waste: Yes/**No** – Subtitle “D”

Hazardous Waste: Yes/**No** – Subtitle “C”

Construction Worker Notification Recommended: Yes/**No**

RECs: An historic railroad powerhouse was located at 1128 W. Ardmore, adjacent to the west of the tracks; urban fill



RPM-SB-37, facing south

ATTACHMENT B

**SUPPLEMENTAL SOILS INVESTIGATION, GSG CONSULTANTS, INC.
FEBRUARY 2017**

SUPPLEMENTAL SOILS INVESTIGATION (SSI)

CTA Red Purple Modernization Project Lawrence to Bryn Mawr Modernization Chicago, Illinois

Submitted to:



**Chicago Transit Authority
567 West Lake Street
Chicago, Illinois 60661**

February 2017



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SUPPLEMENTAL SOILS INVESTIGATION (SSI)

**CTA Red Purple Modernization Project
Lawrence to Bryn Mawr Modernization
Chicago, Illinois**

Submitted to:

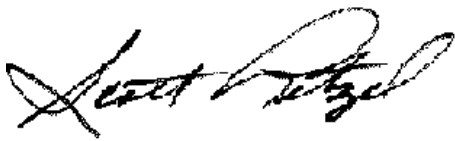
**Chicago Transit Authority
567 West Lake Street
Chicago, Illinois 60661**



February 2017

Ala Sassila, PhD, P.E., Program Quality Manager

Date



February 2017

Scott Letzel, P.G., Technical Manager

Date



February 2017

Ted Cagney, P.G., Project Geologist

Date

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1.0 INTRODUCTION

GSG Consultants, Inc. (GSG), as part of the Preliminary Engineering Consultant (PEC) team, completed a Supplemental Soils Investigation (SSI) Amendment in February 2017, for the Lawrence to Bryn Mawr Modernization portion of the Red-Purple Modernization Project (RPM). The Lawrence to Bryn Mawr Modernization is located starting at W. Leland Avenue and traveling north to W. Ardmore Avenue (Site). The Site consists of the public alleys in that area on the east and west sides of the Chicago Transit Authority (CTA) Embankment.

As part of the initial Preliminary Soils Investigations (PSI) (March, 2015), the PEC reviewed and interpreted the information contained in the Hazardous Materials Technical Memorandum prepared by CTG, historical property use data, and visual inspections. Based on the CTG report, several recognized environmental conditions (RECs) were identified within the project area. The purpose of the SSI is to fill in any data gaps, at the request of the CTA.

Based on the “Clean Construction or Demolition Debris” regulations as published in 35 IL Administrative Code, dated August 27, 2012, the PEC utilized the Maximum Allowable Concentration (MAC) table for soil handling and disposal option considerations. Soil with values exceeding the MAC values, as defined under 35 IAC 1100 regulations, and/or exhibiting PID readings above background levels and/or exhibits pH values outside the Illinois Environmental Protection Agency (IEPA) established range of 6.25 to 9.0 and/or soils that are visually impacted, should be classified as non-CCDD material.

Surplus soil generated on Site exceeding the non-CCDD values, as defined under 35 IAC 1100 regulations, should be disposed as either non-hazardous. Contaminated soils or groundwater could potentially be encountered during demolition, construction, or earthwork; resulting in the release of contamination into the air, soil or water. Exposure to environmental contamination can adversely impact construction workers and public safety. Encountering such contamination without prior knowledge can also result in increased project costs and delays to properly manage the resulting waste.

In addition to the CCDD evaluation, the PEC compared the soil analytical results to the IEPA Tiered Approach to Corrective Action Objectives (TACO) Tier 1 soil remediation objectives (SROs); 35 IAC 742, dated July 15, 2013. The purpose of this evaluation is to provide for the adequate protection of human health and the environment based on the risks to human health posed by environmental conditions anticipated while incorporating site related information.

This report has been organized into the following sections:



- **Section 1.0: Introduction** - presents a brief description of the site location, the overall objective of the investigation, and organization of this report.
- **Section 2.0: Background Information** - describes the project location, proposed improvements, and review the findings of the PSI (March, 2015).
- **Section 3.0: Field Investigation Procedures** - describes field activities associated with the site investigation and field observations.
- **Section 4.0: Investigation Results** - provides a summary of analytical results, provides an evaluation and interpretation of the data obtained and an analysis of applicable regulatory requirements.
- **Section 5.0: Recommendations** - presents recommendations for further actions including relevant findings.

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2.0 BACKGROUND INFORMATION

2.1 PROJECT DESCRIPTION

This report is a Supplemental Soils Investigation (SSI) for the Lawrence to Bryn Mawr Modernization portion of the RPM Project. The SSI covers the public alleys on the east and west side (one boring at Berwyn Road) of the Chicago Transit Authority (CTA) Embankment, between West Leland Avenue on the south and West Ardmore Avenue on the north.

As stated in the Draft Lawrence to Bryn Mawr Modernization Project Environmental Assessment and Section 4(f) Evaluation prepared for the Federal Transit Administration (FTA) and CTA and dated February 6, 2014, the purpose of the Lawrence to Bryn Mawr Modernization Project is to provide continued high speed transit service connecting Chicago's North Side and northern suburbs to the Loop and the rest of the Chicago metropolitan area and expand capacity to meet growing ridership demand, while reducing train travel times, and improving access to the system for people with disabilities. The capacity expansion would bring the aging rail infrastructure into a state of good repair, thereby improving efficiency and service reliability. Provision of modern amenities at all stations, expansion of passenger capacity, and speed and reliability enhancements would address safety and accessibility concerns and extend the useful life of the system.

The Build Alternative would consist of reconstructing approximately 1.3 miles of the existing Red and Purple lines from Leland Avenue on the south to near Ardmore Avenue on the north. Track reconstruction would involve the entire track system including rails, rail fixation, traction power, signals, and special track work, along with a new supporting aerial structure. Reconstruction would eliminate slow zones, and the modernized track and structures would be less susceptible to new slow zones. The special track work, including crossovers and a center storage track, would be located between the Argyle and Berwyn stations and would allow for flexible operations during maintenance and other incident management.

The existing structure consists of a ballast-and-tie track (the supporting surface for the rail is ballast or rock) on an embankment structure. The proposed structure evaluated in the EA assumes a closed-deck, concrete aerial structure with direct-fixation track and welded rail (welded at joints). With direct-fixation track, rails are mounted to specially designed concrete blocks fixed to the concrete deck. Noise barriers (3 to 3½ feet in height) are proposed on both sides of the track deck for the full length of the alignment to reduce noise transmission at and below track level.



Additional right-of-way would be required to space the tracks farther apart to accommodate the new, wider platforms. To minimize impacts on adjacent properties, the right-of-way widening would take place over adjacent alleys along the east side of the alignment, where possible. This “alley spanning concept” was selected to provide sufficient width for ADA accessibility on platforms while also minimizing impacts on adjacent properties. With alley spanning, existing alley access would remain, with sufficient vertical clearances and widths for passage of vehicles, including garbage trucks and moving vans. At Lawrence Street, the Build Alternative includes a portion of the required track widening on the east side of the existing alignment to avoid impacts on the historic Aragon Ballroom.

Seventeen (17) soil borings were advanced in the public alley on the east side and one (1) on the west side of the CTA embankment, from W. Leland Avenue to W. Ardmore Avenue. The area is located within a mixed-use commercial and residential neighborhood.

2.2 PREVIOUS INVESTIGATION FINDINGS

GSG conducted a Preliminary Soils Investigation (PSI) in March 2015. The focus of that investigation was to assess the soils in the CTA Embankment and under the Viaducts along the RPM alignment. A total of twenty-three (23) borings were performed along the existing CTA right-of-way: twelve (12) borings were conducted at street level at the viaduct locations and eleven (11) borings along the elevated track bed. The results of that investigation revealed the following at the street level:

Viaduct Samples

Four of the twelve soil boring locations contain soil in the fill layer that exceeds the CCDD MAC values. All fill material from the viaduct locations is considered “clean” and may be disposed of at a CCDD facility, with the notable exception of earthwork done in the immediate vicinity of the following locations: RPM-SB-24 (Winona Avenue), RPM-SB-29 (Balmoral Avenue), RPM-SB-33 (Bryn Mawr Avenue) and RPM-SB-37 (Ardmore Avenue).

One of the twelve soil boring locations (RPM-SB-33) contains soil in the native sand layer that exceeds the CCDD MAC values. Therefore, all native sand from the other viaduct locations is considered “clean” and may be disposed of at a CCDD facility. Soils generated from the native sands at RPM-SB-33 should be disposed of as a non-special waste at a licensed Subtitle D landfill, in accordance applicable local, state, and federal regulations.

2.3 SITE GEOLOGICAL AND HYDROGEOLOGICAL CONDITIONS

Several published documents were reviewed in an effort to determine the regional geological setting in the area of the Site. The following is a summary of this review:



The bedrock in the Chicago area is overlain by glacial drift that was deposited by Pleistocene glaciers that repeatedly covered the area and by the various high-level states of Lake Michigan. The Pleistocene strata which underlie the study area as inferred from the **“Surficial Geology of the Chicago Region” (Willman and Lineback, ISGS, 1970)** consists of the Carmi Member of the Equality formation. The Carmi Member of Equality formation consists of “largely quiet-water lake sediments; dominantly well bedded silt, locally laminated and containing thin beds of clay; local lenses of sand and sandy gravel along beaches.”

Overlying the Pleistocene deposits are surficial soil deposits which according to the **General Soil Map of DuPage and Part of Cook Counties, Illinois, (US Dept. of Agriculture, 1979)**, consist of Urban Land-Selma-Oakville association soils. Selma-Oakville soils, covering the majority of the Site, are built-up areas and deep level to undulating, well and poorly drained soils that have a loamy, silty or sandy subsoil, and are formed in glacial outwash and in glacial lake sediment.

According to the **“Potential for Contamination of Shallow Aquifers in Illinois from Land Burial of Municipal Wastes” (Richard C. Berg, John P. Kempton, ISGS, 1984)**, the Site is located within the B1 rating area. The geologic materials in the B1 rating area consist of “sand and gravel less than 20 feet thick over relatively impermeable till or bedrock.” The potential for contamination is “high”.

Based on the **“Potential for Contamination of Shallow Aquifers by Surface and Near-Surface Waste Disposal”** Plate, the Site is located within the C1 rating area. The geologic materials in the C1 rating area consist of “sand and gravel less than 20 feet thick over relatively impermeable till or bedrock.”

The Summary of the Geology of the Chicago Area (Willman 1971) describes shallow groundwater in the Chicago area as being limited to sand and gravel horizons in unconsolidated soil and fractured bedrock aquifers. The unconsolidated materials in this area consist primarily of clay with isolated lenses of sand material and are not considered aquifers. In the Chicago area, bedrock aquifers are found within Silurian, Ordovician and Cambrian formations, which are greater than 50 feet bgs.

2.4 SITE SURFACE WATER CONDITIONS

No ponding or standing water was noted at the time of the site reconnaissance. The closest surface water body to the Site is Lake Michigan, which is 1 mile east. The Site is located within an Urban Setting. According to the National Wetlands Inventory maps provided by the United States Fish and Wildlife Service (<https://www.fws.gov/wetlands>), there are no wetlands associated with the Site or the immediately adjacent properties. The Flood Insurance Rate Map (FIRM) panel 17031C0410J,



dated August 19, 2008, distributed by the Federal Emergency Management Agency (FEMA) shows the Site located in Zone X which is defined as “areas determined to be outside the 0.2% annual chance floodplain.”

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3.0 INVESTIGATION PROCEDURES

Soil borings were completed in the public alleys on the eastside and the west side of the alignment at Berwyn Street and west sides of the CTA embankment. A copy of the Soil Sampling Plan is included as **Appendix A**.

Water levels were monitored during the drilling activities. Shallow groundwater was not encountered during the SSI investigation.

3.1 SOIL SAMPLING PROCEDURES

A total of eighteen (18) soil borings were advanced at the following locations:

Boring Identification	Boring Location
RPM-SB-38	East alley between Leland and Lawrence
RPM-SB-39	East alley between Lawrence and Ainsile
RPM-SB-40	East alley between Lawrence and Ainsile
RPM-SB-41	East alley between Ainsile and Argyle
RPM-SB-42	East alley between Argyle and Winona
RPM-SB-43	East alley between Argyle and Winona
RPM-SB-44	East alley between Winona and Foster
RPM-SB-45	East alley between Foster and Berwyn
RPM-SB-46	West alley between Foster and Berwyn
RPM-SB-47	East alley between Berwyn and Balmoral
RPM-SB-48	East alley between Berwyn and Balmoral
RPM-SB-49	East alley between Balmoral and Catalpa
RPM-SB-50	East alley between Balmoral and Catalpa
RPM-SB-51	East alley between Catalpa and Bryn Mawr
RPM-SB-52	East alley between Catalpa and Bryn Mawr
RPM-SB-53	East alley between Bryn Mawr and Hollywood
RPM-SB-54	East alley between Bryn Mawr and Hollywood
RPM-SB-55	East alley between Hollywood and Ardmore

Exhibit 1, Boring Location Map, shows the location of the soil borings. Copies of the soil boring logs can be found in **Appendix B**. Survey data, indicating northings, eastings and City of Chicago Datum (CCD) elevation, can be found on the soil boring logs.

Each boring was advanced under the direction of a field engineer. The soil probes were performed using a direct-push probing equipment (GeoProbe® 7822 DT). Samples were collected using a 5-



foot long Dual Tube sampler, each with acetate liners within the soil probes. Boring locations were continuously sampled using disposable 5-foot long by 2-inch wide acetate sampling liners. The soil conditions were classified according to the Unified Soil Classification System (USCS). The boreholes were back-filled with the original soil cuttings and the surface was restored with asphalt or concrete to meet the existing ground surface conditions.

Field equipment was either new or decontaminated and cleaned prior to each use. The PEC's field representative used a new pair of disposable latex gloves prior to collecting the samples to prevent cross-contamination of the samples and to prevent exposure of potential contaminants to the field personnel. Sample labels were completed and affixed to the laboratory-supplied sampling jars.

A portable photoionization detector (PID) is an instrument used to detect, measure and provide a direct reading of the concentration of a variety of trace gasses in many industrial or plant atmospheres based on the principal of photoionization. This process involves the absorption of ultraviolet (UV) radiation by a gas molecule leading to ionization. This trace gas analyzer is a nonspecific detector: it will sense all photoionized hydrocarbons whose potential is below the energy of the UV radiation provided by the lamp. The results are expressed in terms of a calibration gas, usually isobutylene. Calibration of the instrument should be conducted at the beginning of each sampling day. Calibration consists of zeroing the instrument, setting the span (usually with 100 ppm isobutylene gas, certified to +/- 2% by the manufacturer) and re-zeroing the unit. Additional calibrations can be conducted during the sampling day, if needed. All calibration data should be recorded on a data sheet or in the field notebook.

The PEC's field representative inspected each soil sample interval for the presence of staining, and/or olfactory impacts and then classified the soil samples. No elevated PID readings were encountered at any of the boring locations. Since no elevated PID readings were encountered, the samples were collected based on field observations. Soil samples analyzed for volatile constituents were collected immediately after sample retrieval in accordance with SW-846 Method 5035 using the following Encore™ sampling procedures:

- An Encore™ was inserted into the Encore T-Handle™.
- The Encore™ was then pushed into a freshly exposed surface of soil until the syringe was full.
- The Encore™ was then removed from the handle and a cap was placed over it to secure the contents.
- The Encore™ was placed back in the provided package. The package was sealed and placed in a cooler with ice.

Soil was taken directly from the probe liners and placed in clean sampling jars with Teflon lined lids. All soil samples were labeled and designated with a unique identifier, the jar lids were secured



and placed in a cooler packed with ice. Soil samples were transported to STAT Analysis, an Illinois Environmental Protection Agency (IEPA) accredited laboratory (Accreditation #100445), on the same day of collection and were received under standard chain-of-custody procedures. The signed chain of custody forms are included in **Appendix C**, Laboratory Analytical Data Reports.

Based on the unknown nature of the fill material along the CTA right-of-way, select soil samples were submitted for analysis as follows:

- Semi-volatile Organic Compounds (SVOCs);
- Polynuclear Aromatic Hydrocarbons (PNAs);
- Resource Conservation and Recovery Act (RCRA) Metals;
- Target Analyte List (TAL) Metals
- Volatile Organic Compounds (VOCs);
- Polychlorinated Biphenyls (PCBs) and Pesticides;
- Target Compound List (TCL); and
- pH.

Six (6) composite waste characterization samples were collected from the eighteen (18) borings, three (3) from the fill materials and three (3) from the native materials.

3.2 GROUNDWATER SAMPLING PROCEDURES

Water levels were monitored during the drilling activities. Shallow groundwater was not encountered during the SSI activities.



4.0 INVESTIGATION RESULTS

The objective of the investigation was to identify and characterize soil conditions that may need to be addressed or otherwise managed during planned site construction activities. The soil analytical results obtained during this investigation were compared to the MAC values for Clean Construction or Demolition Debris (CCDD) sites. Additionally, we compared the results to the TACO Tier 1 soil remediation objectives (SROs) to evaluate the potential health risk to the construction workers. The soil sample results along with waste characterization analysis were evaluated to assess disposal and handling options for surplus soils generated from the project.

Approach

The Illinois Pollution Control Board (IPCB) promulgates regulations that govern site evaluation procedures and the development of SROs that is based on potential risks to human health and the environment. These regulations are provided in 35 IAC Part 742: Tiered Approach to Corrective Action Objectives (TACO).

TACO provides a three-tiered procedure for evaluating data and developing SROs for various receptors including residential occupants, industrial/commercial workers, and construction workers. For each receptor, SROs are developed separately for inhalation, soil ingestion, and groundwater ingestion exposure pathways, as appropriate. Factors considered in the development of the SROs include contaminant toxicity, exposure routes, and receptors.

The initial step in the TACO evaluation process (Tier 1) consist of lookup tables which are based on prudently conservative assumptions and take into account only limited site-specific information. This approach provides for a relatively quick and cost-effective means to assess site conditions and was used for purposes of this assessment. For purposes of this assessment, the TACO Tier 1 SROs for the construction worker exposure scenario were used to assess potential risks to construction workers.

As stated above, TACO is the IEPA's method for developing risk-based remediation objectives to protect human health and the environment, however, TACO *cannot* be used for waste classification or to asses waste disposal options. Likewise, CCDD materials by definition are not considered as a "waste", therefore regulations on the classification and management of wastes are outlined in the Illinois Environmental Protection Act along with regulations and guidelines under 35 IAC Subtitle G: Waste Disposal.

Based on the above discussion and the analytical data provided herein, surplus soil generated from the project area with values at or below the MAC values, as defined under 35 IAC 1100 regulations, should be considered as CCDD material. The soil is considered to be "clean" and can be managed as



such. Soils with values exceeding the MAC values should be considered “contaminated” and disposed of at a permitted Subtitle C or D landfill in accordance with applicable federal, state, and local regulations. Any soils that demonstrate the characteristics of a hazardous waste upon completion of testing will be required to be disposed of at a Subtitle C landfill. Soils that do not exhibit the properties of a hazardous waste and are not liquid may be disposed of as “non-special waste” at a Subtitle D landfill.

Soils suitable for disposal at a CCDD facility or Subtitle D landfill are shown on **Exhibits 2. Exhibit 3** shows the locations of the construction worker precaution areas.

4.1 FIELD OBSERVATIONS

Eighteen (18) soil borings were conducted in the public alley between Leland Avenue and Ardmore Avenue. Borings in this area were conducted to a maximum depth of 15 feet bgs. Three (3) samples were collected from each boring, the first from the fill material and the second and third from the native material.

No elevated PID readings were encountered at any of the boring locations. The PID readings for each soil boring can be found on the soil boring logs in **Appendix B**. Since no elevated PID readings were encountered, the samples were collected based on field observations.

4.1.1 Soil Conditions

Based upon the results of the site investigation, the following subsurface conditions are present: Encountered at the surface, at most alley locations, is a layer concrete between 4 and 8 inches thick. At borings RPM-SB-40, RPM-SB-41, RPM-SB-44, RPB-SB-45, RPM-SB-46 and RPM-SB-53, a 2- to 3-inch layer of asphalt is present above the concrete. At borings RPM-SB-47 and RPM-SB-48, a 6-inch thick layer of asphalt is found in place of the concrete. The concrete and asphalt are underlain by a fill layer of varying consistency to an average depth of approximately 4.6 feet bgs (between 3.5 and 6 feet bgs). The fill layer consists of: gravel fill (to a depth of approximately 1 foot bgs); brown and black sand, with trace gravel and brick fragments is present throughout most of the Site, with black silty clay present at boring RPM-SB-53 to a depth of 6 feet bgs; and cinders are present in the fill at most boring across the Site. The fill is generally underlain by a native fine to medium grained brown or brown and grey sand to a minimum depth of 10 feet bsg, but a layer of native fine to medium grained grey is present below this to a minimum depth of fifteen feet across most of the Site.

Water levels were monitored during the field activities. Shallow groundwater was not encountered during the drilling activities.



4.1.3 Analytical Parameters

Select soil samples collected from borings conducted at street level were analyzed for VOCs, SVOCs/PNAs, TAL/RCRA inorganics, pesticides, PCBs, and pH.

Constituent	Number of Fill Samples Analyzed	Number of Native Samples Analyze
VOCs	18	36
SVOCs (full list)	6	4
PNAs (reduced list of SVOCs)	12	32
RCRA 8 Metals	0	18
TAL Metals (22)	18	18
Pesticides	18	16
PCBs	18	36
pH	18	36

4.1.4 Analytical Results

Constituents detected in the samples along this corridor include VOCs, PNAs and inorganics.

Fifty-four (54) soil samples were collected from the soil borings: eighteen (18) samples were collected from the fill material and thirty-six (36) from the native sands. The soil analytical results were compared to Tier 1 SROs for the construction worker inhalation and ingestion exposure routes and CCDD MAC values.

Construction Worker SROs

The soil analytical results were compared to Tier 1 SROs for the construction worker inhalation and ingestion exposure routes. The inorganic constituents arsenic and lead were revealed to be above the Tier 1 SRO for the construction worker ingestion exposure route. Arsenic was revealed to be above the Tier 1 SRO for the construction worker ingestion exposure route in sample RPM-SB-41-1. Lead was revealed to be above the Tier 1 SRO for the construction worker ingestion exposure route in samples RPM-SB-39-1 and RPM-SB-52-1.

No constituents were encountered at concentrations above the Tier 1 SROs for the construction worker inhalation exposure route.

Soil Disposal Analytical Results

All samples met the pH and PID requirements for CCDD material. The pH range was 7.3 to 8.82, which is within the IEPA established range of 6.25 to 9.0. PID readings were 0.0 ppm. However, the following samples exceeded the MAC values: RPM-SB-38-1, RPM-SB-39-1, RPM-SB-41-1,



RPM-SB-42-1, RPM-SB-43-1, RPM-SB-44-1, RPM-SB-45-1, RPM-SB-46-1, RPM-SB-47-1, RPM-SB-49-1, RPM-SB-50-1, RPM-SB-51-1, RPB-SB-52-1 and RPM-SB-54-1. Therefore the PEC cannot certify any of the soils from these areas of the site to be disposed of at a CCDD facility.

The following table presents the soil sample results which exceeded the CCDD MAC values.

CCDD MAC Values					
Contaminant of Concern	MAC Value	Sample ID	Results	Sample ID	Results
	(mg/kg)		(mg/kg)		(mg/kg)
Tetrachloroethene	0.6	RPM-SB-46-1	25		
Benzo(a)anthracene	1.1	RPM-SB-39-1	1.7	RPM-SB-44-1	1.3
		RPM-SB-43-1	4.1	RPM-SB-54-1	2.4
Benzo(a)pyrene	1.3	RPM-SB-39-1	1.6	RPM-SB-54-1	1.7
		RPM-SB-43-1	4.0		
Benzo(b)fluoranthene	1.5	RPM-SB-39-1	1.6	RPM-SB-54-1	2.6
		RPM-SB-43-1	3.4		
Dibenz(a,h)anthracene	0.2	RPM-SB-39-1	0.35	RPM-SB-51-1	0.27
		RPM-SB-43-1	0.78	RPM-SB-52-1	0.28
		RPM-SB-44-1	0.44	RPM-SB-54-1	0.64
Indeno(1,2,3-cd)pyrene	0.9	RPM-SB-43-1	2.2	RPM-SB-54-1	1.2
Arsenic	13	RPM-SB-39-1	30	RPM-SB-50-1	23
		RPM-SB-43-1	21	RPM-SB-52-1	54
		RPM-SB-44-1	28		
Cadmium	5.2	RPM-SB-52-1	5.3		
Iron	15,900	RPM-SB-44-1	25,000	RPM-SB-52-1	17,000
		RPM-SB-46-1	19,000		
Lead	107	RPM-SB-3-1	200	RPM-SB-45-1	370
		RPM-SB-41-1	170	RPM-SB-47-1	190
		RPM-SB-42-1	410	RPM-SB-49-1	170
		RPM-SB-43-1	360	RPM-SB-51-1	270
		RPM-SB-44-1	470	RPM-SB-54-1	150
Selenium	1.3	RPM-SB-39-1	1.7	RPM-SB-51-1	1.7
		RPM-SB-44-1	2.0	RPM-SB-52-1	4.7
Silver	4.4	RPM-SB-52-1	8.5		
Thallium	2.6	RPM-SB-52-1	2.7		

Waste Characterization Analysis

Six (6) composite waste characterization samples were collected from the eighteen (18) borings, three (3) from the fill materials and three (3) from the native materials. The results of the samples did not indicate characteristics of hazardous waste. Therefore, all soils that are



deemed to be impacted may be disposed of at a Subtitle D facility, and all other materials may be disposed of as CCDD.

GSG will prepare a soil management plan to be provided to the PEC team.

DRAFT



5.0 RECOMMENDATIONS

5.1 SOIL DISPOSAL

The analytical results revealed the presence of VOCs, PNAs and inorganic constituents in soil samples collected in the fill at the Site above CCDD MAC Values.

5.1.1 *Construction Worker Precaution Area*

Based on soil analytical results, a construction worker precaution area is warranted for the fill materials around borings RPM-SB-39, RPM-SB-41 and RPM-SB-52.

Arsenic exceeds the Tier 1 SRO for the construction worker ingestion exposure route in the fill layer at RPM-SB-41. Due to the elevated arsenic values, a construction worker precaution area should be implemented at RPM-SB-41 for work in the fill soils (approximately 3.5 feet bsg).

Lead exceeds the Tier 1 SRO for the construction worker ingestion exposure route in the fill layer at soil borings RPM-SB-39 and RPM-SB-52. Due to the elevated lead values, a construction worker precaution area should be implemented at RPM-SB-39 and RPM-SB-52 (approximately 5 feet bsg).

5.1.2 *CCDD*

Fourteen of the eighteen soil boring locations contain soil in the fill layer that exceeds the CCDD MAC values. By the nature of their geographic settings, the viaduct samples are not contiguous and each location should be handled separately. Therefore, all fill material from the alley is considered “contaminated” and may not be disposed of at a regulated CCDD facility, with the notable exception of earthwork done in the immediate vicinity of the following locations:

- RPM-SB-40
- RPM-SB-48
- RPM-SB-53
- RPM-SB-55

Soils generated from the fill layer at these locations should be disposed of as a non-special waste at a licensed Subtitle D landfill, in accordance applicable local, state, and federal regulations. All native materials may be disposed of at a regulated CCDD facility.



Boring Location	Depth	CCDD	Subtitle D
RPM-SB-38	2-4 feet	No	Yes
	7-9 feet	Yes	Yes
	12-14 feet	Yes	Yes
RPM-SB-39	2-4 feet	No	Yes
	6-8 feet	Yes	Yes
	13-15 feet	Yes	Yes
RPM-SB-40	1-3 feet	Yes	Yes
	7-9 feet	Yes	Yes
	12-14 feet	Yes	Yes
RPM-SB-41	1-3 feet	No	Yes
	8-10 feet	Yes	Yes
	13-15 feet	Yes	Yes
RPM-SB-42	1-3 feet	No	Yes
	7-9 feet	Yes	Yes
	12-14 feet	Yes	Yes
RPM-SB-43	2-4 feet	No	Yes
	7-9 feet	Yes	Yes
	12-14 feet	Yes	Yes
RPM-SB-44	1-3 feet	No	Yes
	8-10 feet	Yes	Yes
	11-13 feet	Yes	Yes
RPM-SB-45	2-4 feet	No	Yes
	7-9 feet	Yes	Yes
	12-14 feet	Yes	Yes
RPM-SB-46	1-3 feet	No	Yes
	8-10 feet	Yes	Yes
	12-14 feet	Yes	Yes
RPM-SB-47	2-4 feet	No	Yes
	6-8 feet	Yes	Yes
	12-14 feet	Yes	Yes
RPM-SB-48	2-4 feet	Yes	Yes
	7-9 feet	Yes	Yes
	13-15 feet	Yes	Yes
RPM-SB-49	2-4 feet	No	Yes
	7-9 feet	Yes	Yes
	12-14 feet	Yes	Yes



Boring Location	Depth	CCDD	Subtitle D
RPM-SB-50	2-4 feet	No	Yes
	7-9 feet	Yes	Yes
	12-14 feet	Yes	Yes
RPM-SB-51	2-4 feet	No	Yes
	7-9 feet	Yes	Yes
	13-15 feet	Yes	Yes
RPM-SB-52	2-4 feet	No	Yes
	7-9 feet	Yes	Yes
	12-14 feet	Yes	Yes
RPM-SB-53	1-3 feet	Yes	Yes
	7-9 feet	Yes	Yes
	12-14 feet	Yes	Yes
RPM-SB-54	1-3 feet	No	Yes
	6-8 feet	Yes	Yes
	10-12 feet	Yes	Yes
RPM-SB-55	1-3 feet	Yes	Yes
	7-9 feet	Yes	Yes
	12-14 feet	Yes	Yes



LIST OF TABLES

Table 1	Analytical Results – VOCs
Table 2	Analytical Results – SVOCs and PNAs
Table 3	Analytical Results – Inorganics and pH
Table 4	Analytical Results – Pesticides and PCBs

TABLE 1
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
VOCs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-38-1	RPB-SB-38-2	RPB-SB-38-3	RPB-SB-39-1	RPB-SB-39-2	RPB-SB-39-3
	Ingestion	Inhalation		Date	12/22/2016	12/22/2016	12/22/2016	12/21/2016	12/21/2016	12/21/2016
				Depth (ft)	2-4 feet	7-9 feet	12-14 feet	2-4 feet	6-8 feet	13-15 feet
VOCs										
Acetone	NC	100,000	25		< 0.083	< 0.093	< 0.080	< 0.11	< 0.092	< 0.085
Benzene	2,300	2.2	0.03		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
Bromodichloromethane	2,000	3,000	0.6		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
Bromoform	16,000	140	0.8		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
Bromomethane	1,000	3.9	0.2		< 0.011	< 0.012	< 0.011	< 0.014	< 0.012	< 0.011
2-Butanone	NC	NC	NC		< 0.083	< 0.093	< 0.080	< 0.11	< 0.092	< 0.085
Carbon disulfide	20,000	9.0	9		< 0.055	< 0.062	< 0.053	< 0.071	< 0.061	< 0.057
Carbon tetrachloride	410	0.90	0.07		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
Chlorobenzene	4,100	1.3	1		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
Chloroethane	NC	NC	NC		< 0.011	< 0.012	< 0.011	< 0.014	< 0.012	< 0.011
Chloroform	2,000	0.76	0.3		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
Chloromethane	NC	NC	NC		< 0.011	< 0.012	< 0.011	< 0.014	< 0.012	< 0.011
Dibromochloromethane	41,000	1,300	0.4		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
1,1-Dichloroethane	200,000	130	23		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
1,2-Dichloroethane	1,400	0.99	0.02		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
1,1-Dichloroethene	10,000	3.0	0.06		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
cis-1,2-Dichloroethene	20,000	1,200	0.4		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
trans-1,2-Dichloroethene	41,000	3,100	0.7		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
1,2-Dichloropropane	1,800	0.50	0.03		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
cis-1,3-Dichloropropene	1200	0.39	0.005		< 0.0022	< 0.0025	< 0.0021	< 0.0028	< 0.0024	< 0.0023
trans-1,3-Dichloropropene	1200	0.39	0.005		< 0.0022	< 0.0025	< 0.0021	< 0.0028	< 0.0024	< 0.0023
Ethylbenzene	20,000	58	13		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
2-Hexanone	NC	NC	NC		< 0.022	< 0.025	< 0.021	< 0.028	< 0.024	< 0.023
4-Methyl-2-pentanone	NC	NC	NC		< 0.022	< 0.025	< 0.021	< 0.028	< 0.024	< 0.023
Methylene chloride	12,000	34	0.02		< 0.011	< 0.014	< 0.016	< 0.014	< 0.012	< 0.011
Methyl tert-butyl ether	2,000	140	0.32		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
Styrene	41,000	430	4		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
1,1,2,2-Tetrachloroethane	NC	NC	NC		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
Tetrachloroethene	2,400	28	0.06		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
Toluene	410,000	42	12		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
1,1,1-Trichloroethane	NC	1,200	2		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
1,1,2-Trichloroethane	8,200	1,800	0.02		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
Trichloroethene	1,200	12	0.06		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
Vinyl chloride	170	1.1	0.01		< 0.0055	< 0.0062	< 0.0053	< 0.0071	< 0.0061	< 0.0057
Xylenes, Total	41,000	5.6	5.6		< 0.017	< 0.019	< 0.016	< 0.021	< 0.018	< 0.017

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 1
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
VOCs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-40-1	RPB-SB-40-2	RPB-SB-40-3	RPB-SB-41-1	RPB-SB-41-2	RPB-SB-41-3
	Ingestion	Inhalation		Date	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016
				Depth (ft)	1-3 feet	7-9 feet	12-14 feet	1-3 feet	8-10 feet	13-15 feet
VOCs										
Acetone	NC	100,000	25		< 0.074	< 0.085	< 0.075	< 0.12	< 0.086	< 0.083
Benzene	2,300	2.2	0.03		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
Bromodichloromethane	2,000	3,000	0.6		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
Bromoform	16,000	140	0.8		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
Bromomethane	1,000	3.9	0.2		< 0.0098	< 0.011	< 0.0099	< 0.016	< 0.011	< 0.011
2-Butanone	NC	NC	NC		< 0.074	< 0.085	< 0.075	< 0.12	< 0.086	< 0.083
Carbon disulfide	20,000	9.0	9		< 0.049	< 0.056	< 0.050	< 0.082	< 0.057	< 0.055
Carbon tetrachloride	410	0.90	0.07		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
Chlorobenzene	4,100	1.3	1		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
Chloroethane	NC	NC	NC		< 0.0098	< 0.011	< 0.0099	< 0.016	< 0.011	< 0.011
Chloroform	2,000	0.76	0.3		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
Chloromethane	NC	NC	NC		< 0.0098	< 0.011	< 0.0099	< 0.016	< 0.011	< 0.011
Dibromochloromethane	41,000	1,300	0.4		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
1,1-Dichloroethane	200,000	130	23		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
1,2-Dichloroethane	1,400	0.99	0.02		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
1,1-Dichloroethene	10,000	3.0	0.06		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
cis-1,2-Dichloroethene	20,000	1,200	0.4		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
trans-1,2-Dichloroethene	41,000	3,100	0.7		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
1,2-Dichloropropane	1,800	0.50	0.03		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
cis-1,3-Dichloropropene	1200	0.39	0.005		< 0.0020	< 0.0023	< 0.0020	< 0.0033	< 0.0023	< 0.0022
trans-1,3-Dichloropropene	1200	0.39	0.005		< 0.0020	< 0.0023	< 0.0020	< 0.0033	< 0.0023	< 0.0022
Ethylbenzene	20,000	58	13		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
2-Hexanone	NC	NC	NC		< 0.020	< 0.023	< 0.020	< 0.033	< 0.023	< 0.022
4-Methyl-2-pentanone	NC	NC	NC		< 0.020	< 0.023	< 0.020	< 0.033	< 0.023	< 0.022
Methylene chloride	12,000	34	0.02		< 0.0098	< 0.011	< 0.0099	< 0.016	< 0.011	< 0.011
Methyl tert-butyl ether	2,000	140	0.32		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
Styrene	41,000	430	4		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
1,1,2,2-Tetrachloroethane	NC	NC	NC		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
Tetrachloroethene	2,400	28	0.06		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
Toluene	410,000	42	12		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
1,1,1-Trichloroethane	NC	1,200	2		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
1,1,2-Trichloroethane	8,200	1,800	0.02		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
Trichloroethene	1,200	12	0.06		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
Vinyl chloride	170	1.1	0.01		< 0.0049	< 0.0056	< 0.0050	< 0.0082	< 0.0057	< 0.0055
Xylenes, Total	41,000	5.6	5.6		< 0.015	< 0.017	< 0.015	< 0.025	< 0.017	< 0.017

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 1
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
VOCs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-42-1	RPB-SB-42-2	RPB-SB-42-3	RPB-SB-43-1	RPB-SB-43-2	RPB-SB-43-3
	Ingestion	Inhalation		Date	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016
				Depth (ft)	1-3 feet	7-9 feet	12-14 feet	2-4 feet	7-9 feet	12-14 feet
VOCs										
Acetone	NC	100,000	25		< 0.089	< 0.089	< 0.076	< 0.10	< 0.085	< 0.080
Benzene	2,300	2.2	0.03		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
Bromodichloromethane	2,000	3,000	0.6		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
Bromoform	16,000	140	0.8		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
Bromomethane	1,000	3.9	0.2		< 0.012	< 0.012	< 0.010	< 0.014	< 0.011	< 0.011
2-Butanone	NC	NC	NC		< 0.089	< 0.089	< 0.076	< 0.10	< 0.085	< 0.080
Carbon disulfide	20,000	9.0	9		< 0.059	< 0.059	< 0.051	< 0.069	< 0.056	< 0.053
Carbon tetrachloride	410	0.90	0.07		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
Chlorobenzene	4,100	1.3	1		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
Chloroethane	NC	NC	NC		< 0.012	< 0.012	< 0.010	< 0.014	< 0.011	< 0.011
Chloroform	2,000	0.76	0.3		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
Chloromethane	NC	NC	NC		< 0.012	< 0.012	< 0.010	< 0.014	< 0.011	< 0.011
Dibromochloromethane	41,000	1,300	0.4		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
1,1-Dichloroethane	200,000	130	23		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
1,2-Dichloroethane	1,400	0.99	0.02		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
1,1-Dichloroethene	10,000	3.0	0.06		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
cis-1,2-Dichloroethene	20,000	1,200	0.4		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
trans-1,2-Dichloroethene	41,000	3,100	0.7		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
1,2-Dichloropropane	1,800	0.50	0.03		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
cis-1,3-Dichloropropene	1200	0.39	0.005		< 0.0024	< 0.0024	< 0.0020	< 0.0028	< 0.0023	< 0.0021
trans-1,3-Dichloropropene	1200	0.39	0.005		< 0.0024	< 0.0024	< 0.0020	< 0.0028	< 0.0023	< 0.0021
Ethylbenzene	20,000	58	13		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
2-Hexanone	NC	NC	NC		< 0.024	< 0.024	< 0.020	< 0.028	< 0.023	< 0.021
4-Methyl-2-pentanone	NC	NC	NC		< 0.024	< 0.024	< 0.020	< 0.028	< 0.023	< 0.021
Methylene chloride	12,000	34	0.02		< 0.012	< 0.012	< 0.010	< 0.014	< 0.011	< 0.011
Methyl tert-butyl ether	2,000	140	0.32		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
Styrene	41,000	430	4		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
1,1,2,2-Tetrachloroethane	NC	NC	NC		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
Tetrachloroethene	2,400	28	0.06		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
Toluene	410,000	42	12		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
1,1,1-Trichloroethane	NC	1,200	2		< 0.0059	< 0.0059	< 0.0051	0.0082	< 0.0056	< 0.0053
1,1,2-Trichloroethane	8,200	1,800	0.02		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
Trichloroethene	1,200	12	0.06		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
Vinyl chloride	170	1.1	0.01		< 0.0059	< 0.0059	< 0.0051	< 0.0069	< 0.0056	< 0.0053
Xylenes, Total	41,000	5.6	5.6		< 0.018	< 0.018	< 0.015	< 0.021	< 0.017	< 0.016

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 1
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
VOCs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-44-1	RPB-SB-44-2	RPB-SB-44-3	RPB-SB-45-1	RPB-SB-45-2	RPB-SB-45-3
	Ingestion	Inhalation		Date	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016
				Depth (ft)	1-3 feet	8-10 feet	11-13 feet	2-4 feet	7-9 feet	12-14 feet
VOCs										
Acetone	NC	100,000	25		< 0.12	< 0.085	< 0.087	< 0.10	< 0.084	< 0.085
Benzene	2,300	2.2	0.03		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
Bromodichloromethane	2,000	3,000	0.6		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
Bromoform	16,000	140	0.8		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
Bromomethane	1,000	3.9	0.2		< 0.016	< 0.011	< 0.012	< 0.014	< 0.011	< 0.011
2-Butanone	NC	NC	NC		< 0.12	< 0.085	< 0.087	< 0.10	< 0.084	< 0.085
Carbon disulfide	20,000	9.0	9		< 0.078	< 0.057	< 0.058	< 0.068	< 0.056	< 0.056
Carbon tetrachloride	410	0.90	0.07		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
Chlorobenzene	4,100	1.3	1		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
Chloroethane	NC	NC	NC		< 0.016	< 0.011	< 0.012	< 0.014	< 0.011	< 0.011
Chloroform	2,000	0.76	0.3		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
Chloromethane	NC	NC	NC		< 0.016	< 0.011	< 0.012	< 0.014	< 0.011	< 0.011
Dibromochloromethane	41,000	1,300	0.4		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
1,1-Dichloroethane	200,000	130	23		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
1,2-Dichloroethane	1,400	0.99	0.02		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
1,1-Dichloroethene	10,000	3.0	0.06		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
cis-1,2-Dichloroethene	20,000	1,200	0.4		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
trans-1,2-Dichloroethene	41,000	3,100	0.7		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
1,2-Dichloropropane	1,800	0.50	0.03		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
cis-1,3-Dichloropropene	1200	0.39	0.005		< 0.0031	< 0.0023	< 0.0023	< 0.0027	< 0.0023	< 0.0023
trans-1,3-Dichloropropene	1200	0.39	0.005		< 0.0031	< 0.0023	< 0.0023	< 0.0027	< 0.0023	< 0.0023
Ethylbenzene	20,000	58	13		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
2-Hexanone	NC	NC	NC		< 0.031	< 0.023	< 0.023	< 0.027	< 0.023	< 0.023
4-Methyl-2-pentanone	NC	NC	NC		< 0.031	< 0.023	< 0.023	< 0.027	< 0.023	< 0.023
Methylene chloride	12,000	34	0.02		< 0.016	< 0.011	< 0.012	< 0.014	< 0.011	< 0.011
Methyl tert-butyl ether	2,000	140	0.32		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
Styrene	41,000	430	4		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
1,1,2,2-Tetrachloroethane	NC	NC	NC		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
Tetrachloroethene	2,400	28	0.06		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
Toluene	410,000	42	12		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
1,1,1-Trichloroethane	NC	1,200	2		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
1,1,2-Trichloroethane	8,200	1,800	0.02		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
Trichloroethene	1,200	12	0.06		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
Vinyl chloride	170	1.1	0.01		< 0.0078	< 0.0057	< 0.0058	< 0.0068	< 0.0056	< 0.0056
Xylenes, Total	41,000	5.6	5.6		< 0.023	< 0.017	< 0.017	< 0.020	< 0.017	< 0.017

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 1
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
VOCs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-46-1	RPB-SB-46-2	RPB-SB-46-3	RPB-SB-47-1	RPB-SB-47-2	RPB-SB-47-3
	Ingestion	Inhalation		Date	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016
				Depth (ft)	1-3 feet	8-10 feet	12-14 feet	2-4 feet	6-8 feet	12-14 feet
VOCs										
Acetone	NC	100,000	25		< 0.085	< 0.088	< 0.085	< 0.11	< 0.082	< 0.081
Benzene	2,300	2.2	0.03		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
Bromodichloromethane	2,000	3,000	0.6		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
Bromoform	16,000	140	0.8		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
Bromomethane	1,000	3.9	0.2		< 0.011	< 0.012	< 0.011	< 0.014	< 0.011	< 0.011
2-Butanone	NC	NC	NC		< 0.085	< 0.088	< 0.085	< 0.11	< 0.082	< 0.081
Carbon disulfide	20,000	9.0	9		< 0.057	< 0.059	< 0.057	< 0.071	< 0.055	< 0.054
Carbon tetrachloride	410	0.90	0.07		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
Chlorobenzene	4,100	1.3	1		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
Chloroethane	NC	NC	NC		< 0.011	< 0.012	< 0.011	< 0.014	< 0.011	< 0.011
Chloroform	2,000	0.76	0.3		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
Chloromethane	NC	NC	NC		< 0.011	< 0.012	< 0.011	< 0.014	< 0.011	< 0.011
Dibromochloromethane	41,000	1,300	0.4		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
1,1-Dichloroethane	200,000	130	23		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
1,2-Dichloroethane	1,400	0.99	0.02		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
1,1-Dichloroethene	10,000	3.0	0.06		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
cis-1,2-Dichloroethene	20,000	1,200	0.4		0.0080	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
trans-1,2-Dichloroethene	41,000	3,100	0.7		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
1,2-Dichloropropane	1,800	0.50	0.03		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
cis-1,3-Dichloropropene	1200	0.39	0.005		< 0.0023	< 0.0023	< 0.0023	< 0.0028	< 0.0022	< 0.0022
trans-1,3-Dichloropropene	1200	0.39	0.005		< 0.0023	< 0.0023	< 0.0023	< 0.0028	< 0.0022	< 0.0022
Ethylbenzene	20,000	58	13		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
2-Hexanone	NC	NC	NC		< 0.023	< 0.023	< 0.023	< 0.028	< 0.022	< 0.022
4-Methyl-2-pentanone	NC	NC	NC		< 0.023	< 0.023	< 0.023	< 0.028	< 0.022	< 0.022
Methylene chloride	12,000	34	0.02		< 0.011	< 0.012	< 0.011	< 0.014	< 0.011	< 0.011
Methyl tert-butyl ether	2,000	140	0.32		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
Styrene	41,000	430	4		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
1,1,2,2-Tetrachloroethane	NC	NC	NC		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
Tetrachloroethene	2,400	28	0.06		25	0.020	< 0.0057	< 0.0071	< 0.0055	< 0.0054
Toluene	410,000	42	12		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
1,1,1-Trichloroethane	NC	1,200	2		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
1,1,2-Trichloroethane	8,200	1,800	0.02		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
Trichloroethene	1,200	12	0.06		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
Vinyl chloride	170	1.1	0.01		< 0.0057	< 0.0059	< 0.0057	< 0.0071	< 0.0055	< 0.0054
Xylenes, Total	41,000	5.6	5.6		< 0.017	< 0.018	< 0.017	< 0.021	< 0.016	< 0.016

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 1
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
VOCs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-48-1	RPB-SB-48-2	RPB-SB-48-3	RPB-SB-49-1	RPB-SB-49-2	RPB-SB-49-3
	Ingestion	Inhalation		Date	12/20/2016	12/20/2016	12/20/2016	12/19/2016	12/19/2016	12/19/2016
				Depth (ft)	2-4 feet	7-9 feet	13-15 feet	2-4 feet	7-9 feet	12-14 feet
VOCs										
Acetone	NC	100,000	25		< 0.12	< 0.086	< 0.078	< 0.11	< 0.088	< 0.088
Benzene	2,300	2.2	0.03		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
Bromodichloromethane	2,000	3,000	0.6		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
Bromoform	16,000	140	0.8		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
Bromomethane	1,000	3.9	0.2		< 0.016	< 0.011	< 0.010	< 0.014	< 0.012	< 0.012
2-Butanone	NC	NC	NC		< 0.12	< 0.086	< 0.078	< 0.11	< 0.088	< 0.088
Carbon disulfide	20,000	9.0	9		< 0.081	< 0.057	< 0.052	< 0.072	< 0.058	< 0.059
Carbon tetrachloride	410	0.90	0.07		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
Chlorobenzene	4,100	1.3	1		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
Chloroethane	NC	NC	NC		< 0.016	< 0.011	< 0.010	< 0.014	< 0.012	< 0.012
Chloroform	2,000	0.76	0.3		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
Chloromethane	NC	NC	NC		< 0.016	< 0.011	< 0.010	< 0.014	< 0.012	< 0.012
Dibromochloromethane	41,000	1,300	0.4		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
1,1-Dichloroethane	200,000	130	23		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
1,2-Dichloroethane	1,400	0.99	0.02		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
1,1-Dichloroethene	10,000	3.0	0.06		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
cis-1,2-Dichloroethene	20,000	1,200	0.4		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
trans-1,2-Dichloroethene	41,000	3,100	0.7		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
1,2-Dichloropropane	1,800	0.50	0.03		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
cis-1,3-Dichloropropene	1200	0.39	0.005		< 0.0032	< 0.0023	< 0.0021	< 0.0029	< 0.0023	< 0.0024
trans-1,3-Dichloropropene	1200	0.39	0.005		< 0.0032	< 0.0023	< 0.0021	< 0.0029	< 0.0023	< 0.0024
Ethylbenzene	20,000	58	13		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
2-Hexanone	NC	NC	NC		< 0.032	< 0.023	< 0.021	< 0.029	< 0.023	< 0.024
4-Methyl-2-pentanone	NC	NC	NC		< 0.032	< 0.023	< 0.021	< 0.029	< 0.023	< 0.024
Methylene chloride	12,000	34	0.02		< 0.016	< 0.011	< 0.010	< 0.014	< 0.012	< 0.012
Methyl tert-butyl ether	2,000	140	0.32		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
Styrene	41,000	430	4		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
1,1,2,2-Tetrachloroethane	NC	NC	NC		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
Tetrachloroethene	2,400	28	0.06		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
Toluene	410,000	42	12		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
1,1,1-Trichloroethane	NC	1,200	2		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
1,1,2-Trichloroethane	8,200	1,800	0.02		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
Trichloroethene	1,200	12	0.06		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
Vinyl chloride	170	1.1	0.01		< 0.0081	< 0.0057	< 0.0052	< 0.0072	< 0.0058	< 0.0059
Xylenes, Total	41,000	5.6	5.6		< 0.024	< 0.017	< 0.016	< 0.022	< 0.018	< 0.018

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 1
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
VOCs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-50-1	RPB-SB-50-2	RPB-SB-50-3	RPB-SB-51-1	RPB-SB-51-2	RPB-SB-51-3
	Ingestion	Inhalation		Date	12/19/2016	12/19/2016	12/19/2016	12/19/2016	12/19/2016	12/19/2016
				Depth (ft)	2-4 feet	7-9 feet	12-14 feet	2-4 feet	7-9 feet	13-15 feet
VOCs										
Acetone	NC	100,000	25		< 0.15	< 0.081	< 0.090	< 0.11	< 0.089	< 0.11
Benzene	2,300	2.2	0.03		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
Bromodichloromethane	2,000	3,000	0.6		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
Bromoform	16,000	140	0.8		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
Bromomethane	1,000	3.9	0.2		< 0.019	< 0.011	< 0.012	< 0.015	< 0.012	< 0.014
2-Butanone	NC	NC	NC		< 0.15	< 0.081	< 0.090	< 0.11	< 0.089	< 0.11
Carbon disulfide	20,000	9.0	9		< 0.097	< 0.054	< 0.060	< 0.073	< 0.059	< 0.071
Carbon tetrachloride	410	0.90	0.07		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
Chlorobenzene	4,100	1.3	1		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
Chloroethane	NC	NC	NC		< 0.019	< 0.011	< 0.012	< 0.015	< 0.012	< 0.014
Chloroform	2,000	0.76	0.3		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
Chloromethane	NC	NC	NC		< 0.019	< 0.011	< 0.012	< 0.015	< 0.012	< 0.014
Dibromochloromethane	41,000	1,300	0.4		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
1,1-Dichloroethane	200,000	130	23		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
1,2-Dichloroethane	1,400	0.99	0.02		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
1,1-Dichloroethene	10,000	3.0	0.06		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
cis-1,2-Dichloroethene	20,000	1,200	0.4		< 0.0097	< 0.0054	0.0094	< 0.0073	< 0.0059	< 0.0071
trans-1,2-Dichloroethene	41,000	3,100	0.7		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
1,2-Dichloropropane	1,800	0.50	0.03		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
cis-1,3-Dichloropropene	1200	0.39	0.005		< 0.0039	< 0.0022	< 0.0024	< 0.0029	< 0.0024	< 0.0028
trans-1,3-Dichloropropene	1200	0.39	0.005		< 0.0039	< 0.0022	< 0.0024	< 0.0029	< 0.0024	< 0.0028
Ethylbenzene	20,000	58	13		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
2-Hexanone	NC	NC	NC		< 0.039	< 0.022	< 0.024	< 0.029	< 0.024	< 0.028
4-Methyl-2-pentanone	NC	NC	NC		< 0.039	< 0.022	< 0.024	< 0.029	< 0.024	< 0.028
Methylene chloride	12,000	34	0.02		< 0.019	< 0.011	< 0.012	< 0.015	< 0.012	< 0.014
Methyl tert-butyl ether	2,000	140	0.32		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
Styrene	41,000	430	4		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
1,1,2,2-Tetrachloroethane	NC	NC	NC		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
Tetrachloroethene	2,400	28	0.06		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
Toluene	410,000	42	12		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
1,1,1-Trichloroethane	NC	1,200	2		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
1,1,2-Trichloroethane	8,200	1,800	0.02		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
Trichloroethene	1,200	12	0.06		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
Vinyl chloride	170	1.1	0.01		< 0.0097	< 0.0054	< 0.0060	< 0.0073	< 0.0059	< 0.0071
Xylenes, Total	41,000	5.6	5.6		< 0.029	< 0.016	< 0.018	< 0.022	< 0.018	< 0.021

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 1
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
VOCs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-52-1	RPB-SB-52-2	RPB-SB-52-3	RPB-SB-53-1	RPB-SB-53-2	RPB-SB-53-3
	Ingestion	Inhalation		Date	12/19/2016	12/19/2016	12/19/2016	12/16/2016	12/16/2016	12/19/2016
				Depth (ft)	2-4 feet	7-9 feet	12-14 feet	1-3 feet	7-9 feet	12-14 feet
VOCs										
Acetone	NC	100,000	25		< 0.12	< 0.087	< 0.075	< 0.11	< 0.088	< 0.083
Benzene	2,300	2.2	0.03		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
Bromodichloromethane	2,000	3,000	0.6		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
Bromoform	16,000	140	0.8		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
Bromomethane	1,000	3.9	0.2		< 0.016	< 0.012	< 0.010	< 0.014	< 0.012	< 0.011
2-Butanone	NC	NC	NC		< 0.12	< 0.087	< 0.075	< 0.11	< 0.088	< 0.083
Carbon disulfide	20,000	9.0	9		< 0.080	< 0.058	< 0.050	< 0.071	< 0.059	< 0.056
Carbon tetrachloride	410	0.90	0.07		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
Chlorobenzene	4,100	1.3	1		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
Chloroethane	NC	NC	NC		< 0.016	< 0.012	< 0.010	< 0.014	< 0.012	< 0.011
Chloroform	2,000	0.76	0.3		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
Chloromethane	NC	NC	NC		< 0.016	< 0.012	< 0.010	< 0.014	< 0.012	< 0.011
Dibromochloromethane	41,000	1,300	0.4		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
1,1-Dichloroethane	200,000	130	23		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
1,2-Dichloroethane	1,400	0.99	0.02		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
1,1-Dichloroethene	10,000	3.0	0.06		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
cis-1,2-Dichloroethene	20,000	1,200	0.4		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
trans-1,2-Dichloroethene	41,000	3,100	0.7		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
1,2-Dichloropropane	1,800	0.50	0.03		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
cis-1,3-Dichloropropene	1200	0.39	0.005		< 0.0032	< 0.0023	< 0.0020	< 0.0028	< 0.0023	< 0.0022
trans-1,3-Dichloropropene	1200	0.39	0.005		< 0.0032	< 0.0023	< 0.0020	< 0.0028	< 0.0023	< 0.0022
Ethylbenzene	20,000	58	13		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
2-Hexanone	NC	NC	NC		< 0.032	< 0.023	< 0.020	< 0.028	< 0.023	< 0.022
4-Methyl-2-pentanone	NC	NC	NC		< 0.032	< 0.023	< 0.020	< 0.028	< 0.023	< 0.022
Methylene chloride	12,000	34	0.02		< 0.016	< 0.012	< 0.010	< 0.014	< 0.012	< 0.011
Methyl tert-butyl ether	2,000	140	0.32		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
Styrene	41,000	430	4		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
1,1,2,2-Tetrachloroethane	NC	NC	NC		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
Tetrachloroethene	2,400	28	0.06		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
Toluene	410,000	42	12		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
1,1,1-Trichloroethane	NC	1,200	2		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
1,1,2-Trichloroethane	8,200	1,800	0.02		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
Trichloroethene	1,200	12	0.06		< 0.0080	< 0.0058	0.012	< 0.0071	< 0.0059	< 0.0056
Vinyl chloride	170	1.1	0.01		< 0.0080	< 0.0058	< 0.0050	< 0.0071	< 0.0059	< 0.0056
Xylenes, Total	41,000	5.6	5.6		< 0.024	< 0.017	< 0.015	< 0.021	< 0.018	< 0.017

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 1
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
VOCs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-54-1	RPB-SB-54-2	RPB-SB-54-3	RPB-SB-55-1	RPB-SB-55-2	RPB-SB-55-3
	Ingestion	Inhalation		Date	12/16/2016	12/16/2016	12/16/2016	12/16/2016	12/16/2016	12/16/2016
				Depth (ft)	1-3 feet	6-8 feet	10-12 feet	1-3 feet	7-9 feet	12-14 feet
VOCs										
Acetone	NC	100,000	25		< 0.11	< 0.092	< 0.090	< 0.10	< 0.086	< 0.087
Benzene	2,300	2.2	0.03		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
Bromodichloromethane	2,000	3,000	0.6		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
Bromoform	16,000	140	0.8		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
Bromomethane	1,000	3.9	0.2		< 0.015	< 0.012	< 0.012	< 0.013	< 0.011	< 0.012
2-Butanone	NC	NC	NC		< 0.11	< 0.092	< 0.090	< 0.10	< 0.086	< 0.087
Carbon disulfide	20,000	9.0	9		< 0.076	< 0.062	< 0.060	< 0.067	< 0.057	< 0.058
Carbon tetrachloride	410	0.90	0.07		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
Chlorobenzene	4,100	1.3	1		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
Chloroethane	NC	NC	NC		< 0.015	< 0.012	< 0.012	< 0.013	< 0.011	< 0.012
Chloroform	2,000	0.76	0.3		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
Chloromethane	NC	NC	NC		< 0.015	< 0.012	< 0.012	< 0.013	< 0.011	< 0.012
Dibromochloromethane	41,000	1,300	0.4		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
1,1-Dichloroethane	200,000	130	23		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
1,2-Dichloroethane	1,400	0.99	0.02		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
1,1-Dichloroethene	10,000	3.0	0.06		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
cis-1,2-Dichloroethene	20,000	1,200	0.4		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
trans-1,2-Dichloroethene	41,000	3,100	0.7		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
1,2-Dichloropropane	1,800	0.50	0.03		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
cis-1,3-Dichloropropene	1200	0.39	0.005		< 0.0030	< 0.0025	< 0.0024	< 0.0027	< 0.0023	< 0.0023
trans-1,3-Dichloropropene	1200	0.39	0.005		< 0.0030	< 0.0025	< 0.0024	< 0.0027	< 0.0023	< 0.0023
Ethylbenzene	20,000	58	13		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
2-Hexanone	NC	NC	NC		< 0.030	< 0.025	< 0.024	< 0.027	< 0.023	< 0.023
4-Methyl-2-pentanone	NC	NC	NC		< 0.030	< 0.025	< 0.024	< 0.027	< 0.023	< 0.023
Methylene chloride	12,000	34	0.02		< 0.015	< 0.012	< 0.012	< 0.013	< 0.011	< 0.012
Methyl tert-butyl ether	2,000	140	0.32		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
Styrene	41,000	430	4		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
1,1,2,2-Tetrachloroethane	NC	NC	NC		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
Tetrachloroethene	2,400	28	0.06		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
Toluene	410,000	42	12		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
1,1,1-Trichloroethane	NC	1,200	2		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
1,1,2-Trichloroethane	8,200	1,800	0.02		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
Trichloroethene	1,200	12	0.06		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
Vinyl chloride	170	1.1	0.01		< 0.0076	< 0.0062	< 0.0060	< 0.0067	< 0.0057	< 0.0058
Xylenes, Total	41,000	5.6	5.6		< 0.023	< 0.018	< 0.018	< 0.020	< 0.017	< 0.017

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 2a
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
SVOCs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample Date	RPB-SB-38-1	RPB-SB-40-2	RPB-SB-42-1	RPB-SB-43-1
	Ingestion	Inhalation		Depth (ft)	12/22/2016	12/21/2016	12/21/2016	12/21/2016
SVOCs				2-4 feet	2-4 feet	7-9 feet	1-3 feet	2-4 feet
Aniline	NC	NC	NC		< 0.38	< 0.35	< 0.38	< 0.37
Benzidine	NC	NC	NC		< 0.37	< 0.35	< 0.38	< 0.37
Benzoic acid	820,000	NC	400		< 0.94	< 0.87	< 0.95	< 0.93
Benzyl alcohol	NC	NC	NC		< 0.19	< 0.18	< 0.19	< 0.19
Bis(2-chloroethoxy)methane	NC	NC	NC		< 0.19	< 0.18	< 0.19	< 0.19
Bis(2-chloroethyl)ether	75	0.66	0.66		< 0.19	< 0.18	< 0.19	< 0.19
Bis(2-ethylhexyl)phthalate	4,100	31,000	46		< 0.94	< 0.87	< 0.95	< 0.93
4-Bromophenyl phenyl ether	NC	NC	NC		< 0.19	< 0.18	< 0.19	< 0.19
Butyl benzyl phthalate	410,000	930	930		< 0.19	< 0.18	< 0.19	< 0.19
Carbazole	6,200	NC	0.6		< 0.19	< 0.18	< 0.19	< 0.19
4-Chloroaniline	820	NC	0.7		< 0.19	< 0.18	< 0.19	< 0.19
4-Chloro-3-methylphenol	NC	NC	NC		< 0.37	< 0.35	< 0.38	< 0.37
2-Chloronaphthalene	NC	NC	NC		< 0.19	< 0.18	< 0.19	< 0.19
2-Chlorophenol	10,000	53,000	1.5		< 0.19	< 0.18	< 0.19	< 0.19
4-Chlorophenyl phenyl ether	NC	NC	NC		< 0.19	< 0.18	< 0.19	< 0.19
Dibenzofuran	NC	NC	NC		< 0.19	< 0.18	< 0.19	< 0.19
1,2-Dichlorobenzene	18,000	310	17		< 0.19	< 0.18	< 0.19	< 0.19
1,3-Dichlorobenzene	NC	NC	NC		< 0.19	< 0.18	< 0.19	< 0.19
1,4-Dichlorobenzene	NC	340	2		< 0.19	< 0.18	< 0.19	< 0.19
3,3'-Dichlorobenzidine	280	NC	1.3		< 0.19	< 0.18	< 0.19	< 0.19
2,4-Dichlorophenol	610	NC	0.48		< 0.19	< 0.18	< 0.19	< 0.19
Diethyl phthalate	1,000,000	2,000	470		< 0.19	< 0.18	< 0.19	< 0.19
2,4-Dimethylphenol	41,000	NC	9		< 0.19	< 0.18	< 0.19	< 0.19
Dimethyl phthalate	NC	NC	NC		< 0.19	< 0.18	< 0.19	< 0.19
4,6-Dinitro-2-methylphenol	NC	NC	NC		< 0.37	< 0.35	< 0.38	< 0.37
2,4-Dinitrophenol	410	NC	3.3		< 0.94	< 0.87	< 0.95	< 0.93
2,4-Dinitrotoluene	180	NC	0.25		< 0.037	< 0.035	< 0.038	< 0.037
2,6-Dinitrotoluene	180	NC	0.26		< 0.037	< 0.035	< 0.038	< 0.037
Di-n-butyl phthalate	200,000	2,300	NC		< 0.19	< 0.18	< 0.19	< 0.19
Di-n-octyl phthalate	4,100	10,000	1,600		< 0.19	< 0.18	< 0.19	< 0.19
Hexachlorobenzene	78	2.6	0.4		< 0.19	< 0.18	< 0.19	< 0.19
Hexachlorobutadiene	NC	NC	NC		< 0.19	< 0.18	< 0.19	< 0.19
Hexachlorocyclopentadiene	14,000	1.1	1.1		< 0.19	< 0.18	< 0.19	< 0.19
Hexachloroethane	2,000	NC	0.5		< 0.19	< 0.18	< 0.19	< 0.19
Isophorone	410,000	4,600	8		< 0.19	< 0.18	< 0.19	< 0.19
2-Methylnaphthalene	NC	NC	NC		< 0.19	< 0.18	< 0.19	< 0.19
2-Methylphenol	100,000	NC	15		< 0.19	< 0.18	< 0.19	< 0.19
4-Methylphenol	NC	NC	NC		< 0.19	< 0.18	< 0.19	< 0.19
2-Nitroaniline	NC	NC	NC		< 0.19	< 0.18	< 0.19	< 0.19
3-Nitroaniline	NC	NC	NC		< 0.19	< 0.18	< 0.19	< 0.19
4-Nitroaniline	NC	NC	NC		< 0.19	< 0.18	< 0.19	< 0.19
2-Nitrophenol	NC	NC	NC		< 0.19	< 0.18	< 0.19	< 0.19
4-Nitrophenol	NC	NC	NC		< 0.37	< 0.35	< 0.38	< 0.37
Nitrobenzene	1,000	9.4	0.26		< 0.037	< 0.035	< 0.038	< 0.037
N-Nitrosodi-n-propylamine	18	NC	0.0018		< 0.037	< 0.035	< 0.038	< 0.037
N-Nitrosodimethylamine	NC	NC	NC		< 0.19	< 0.18	< 0.19	< 0.19
N-Nitrosodiphenylamine	25,000	NC	1		< 0.037	< 0.035	< 0.038	< 0.037
2, 2'-oxybis(1-Chloropropane)	NC	NC	NC		< 0.19	< 0.18	< 0.19	< 0.19
Pentachlorophenol	520	NC	0.02		< 0.037	< 0.035	< 0.038	< 0.037
Phenol	61,000	NC	100		< 0.19	< 0.18	< 0.19	< 0.19
Pyridine	NC	NC	NC		< 0.76	< 0.70	< 0.77	< 0.75
1,2,4-Trichlorobenzene	2,000	920	5		< 0.19	< 0.18	< 0.19	< 0.19
2,4,5-Trichlorophenol	200,000	NC	26		< 0.19	< 0.18	< 0.19	< 0.19
2,4,6-Trichlorophenol	11,000	540	0.66		< 0.19	< 0.18	< 0.19	< 0.19

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 2a
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
SVOCs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-38-1	RPB-SB-40-2	RPB-SB-44-2	RPB-SB-46-1	RPB-SB-48-2
	Ingestion	Inhalation		Date	12/22/2016	12/21/2016	12/20/2016	12/20/2016	12/20/2016
				Depth (ft)	2-4 feet	7-9 feet	8-10 feet	1-3 feet	7-9 feet
SVOCs									
Aniline	NC	NC	NC		< 0.38	< 0.35	< 0.35	< 0.38	< 0.34
Benzidine	NC	NC	NC		< 0.37	< 0.35	< 0.35	< 0.38	< 0.34
Benzoic acid	820,000	NC	400		< 0.94	< 0.87	< 0.87	< 0.95	< 0.85
Benzyl alcohol	NC	NC	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
Bis(2-chloroethoxy)methane	NC	NC	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
Bis(2-chloroethyl)ether	75	0.66	0.66		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
Bis(2-ethylhexyl)phthalate	4,100	31,000	46		< 0.94	< 0.87	< 0.87	< 0.95	< 0.85
4-Bromophenyl phenyl ether	NC	NC	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
Butyl benzyl phthalate	410,000	930	930		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
Carbazole	6,200	NC	0.6		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
4-Chloroaniline	820	NC	0.7		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
4-Chloro-3-methylphenol	NC	NC	NC		< 0.37	< 0.35	< 0.35	< 0.38	< 0.34
2-Chloronaphthalene	NC	NC	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
2-Chlorophenol	10,000	53,000	1.5		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
4-Chlorophenyl phenyl ether	NC	NC	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
Dibenzofuran	NC	NC	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
1,2-Dichlorobenzene	18,000	310	17		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
1,3-Dichlorobenzene	NC	NC	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
1,4-Dichlorobenzene	NC	340	2		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
3,3'-Dichlorobenzidine	280	NC	1.3		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
2,4-Dichlorophenol	610	NC	0.48		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
Diethyl phthalate	1,000,000	2,000	470		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
2,4-Dimethylphenol	41,000	NC	9		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
Dimethyl phthalate	NC	NC	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
4,6-Dinitro-2-methylphenol	NC	NC	NC		< 0.37	< 0.35	< 0.35	< 0.38	< 0.34
2,4-Dinitrophenol	410	NC	3.3		< 0.94	< 0.87	< 0.87	< 0.95	< 0.85
2,4-Dinitrotoluene	180	NC	0.25		< 0.037	< 0.035	< 0.035	< 0.038	< 0.034
2,6-Dinitrotoluene	180	NC	0.26		< 0.037	< 0.035	< 0.035	< 0.038	< 0.034
Di-n-butyl phthalate	200,000	2,300	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
Di-n-octyl phthalate	4,100	10,000	1,600		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
Hexachlorobenzene	78	2.6	0.4		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
Hexachlorobutadiene	NC	NC	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
Hexachlorocyclopentadiene	14,000	1.1	1.1		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
Hexachloroethane	2,000	NC	0.5		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
Isophorone	410,000	4,600	8		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
2-Methylnaphthalene	NC	NC	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
2-Methylphenol	100,000	NC	15		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
4-Methylphenol	NC	NC	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
2-Nitroaniline	NC	NC	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
3-Nitroaniline	NC	NC	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
4-Nitroaniline	NC	NC	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
2-Nitrophenol	NC	NC	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
4-Nitrophenol	NC	NC	NC		< 0.37	< 0.35	< 0.35	< 0.38	< 0.34
Nitrobenzene	1,000	9.4	0.26		< 0.037	< 0.035	< 0.035	< 0.038	< 0.034
N-Nitrosodi-n-propylamine	18	NC	0.0018		< 0.037	< 0.035	< 0.035	< 0.038	< 0.034
N-Nitrosodimethylamine	NC	NC	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
N-Nitrosodiphenylamine	25,000	NC	1		< 0.037	< 0.035	< 0.035	< 0.038	< 0.034
2, 2'-oxybis(1-Chloropropane)	NC	NC	NC		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
Pentachlorophenol	520	NC	0.02		< 0.037	< 0.035	< 0.035	< 0.038	< 0.034
Phenol	61,000	NC	100		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
Pyridine	NC	NC	NC		< 0.76	< 0.70	< 0.70	< 0.77	< 0.68
1,2,4-Trichlorobenzene	2,000	920	5		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
2,4,5-Trichlorophenol	200,000	NC	26		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17
2,4,6-Trichlorophenol	11,000	540	0.66		< 0.19	< 0.18	< 0.18	< 0.19	< 0.17

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 2a
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
SVOCs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-38-1	RPB-SB-40-2	RPB-SB-50-1	RPB-SB-52-2	RPB-SB-55-1
	Ingestion	Inhalation		Date	12/22/2016	12/21/2016	12/19/2016	12/19/2016	12/16/2016
				Depth (ft)	2-4 feet	7-9 feet	2-4 feet	7-9 feet	13- feet
SVOCs									
Aniline	NC	NC	NC		< 0.38	< 0.35	< 0.39	< 0.34	< 0.39
Benzidine	NC	NC	NC		< 0.37	< 0.35	< 0.39	< 0.34	< 0.38
Benzoic acid	820,000	NC	400		< 0.94	< 0.87	< 0.98	< 0.86	< 0.96
Benzyl alcohol	NC	NC	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
Bis(2-chloroethoxy)methane	NC	NC	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
Bis(2-chloroethyl)ether	75	0.66	0.66		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
Bis(2-ethylhexyl)phthalate	4,100	31,000	46		< 0.94	< 0.87	< 0.98	< 0.86	< 0.96
4-Bromophenyl phenyl ether	NC	NC	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
Butyl benzyl phthalate	410,000	930	930		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
Carbazole	6,200	NC	0.6		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
4-Chloroaniline	820	NC	0.7		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
4-Chloro-3-methylphenol	NC	NC	NC		< 0.37	< 0.35	< 0.39	< 0.34	< 0.38
2-Chloronaphthalene	NC	NC	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
2-Chlorophenol	10,000	53,000	1.5		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
4-Chlorophenyl phenyl ether	NC	NC	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
Dibenzofuran	NC	NC	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
1,2-Dichlorobenzene	18,000	310	17		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
1,3-Dichlorobenzene	NC	NC	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
1,4-Dichlorobenzene	NC	340	2		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
3,3'-Dichlorobenzidine	280	NC	1.3		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
2,4-Dichlorophenol	610	NC	0.48		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
Diethyl phthalate	1,000,000	2,000	470		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
2,4-Dimethylphenol	41,000	NC	9		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
Dimethyl phthalate	NC	NC	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
4,6-Dinitro-2-methylphenol	NC	NC	NC		< 0.37	< 0.35	< 0.39	< 0.34	< 0.38
2,4-Dinitrophenol	410	NC	3.3		< 0.94	< 0.87	< 0.98	< 0.86	< 0.96
2,4-Dinitrotoluene	180	NC	0.25		< 0.037	< 0.035	< 0.039	< 0.034	< 0.038
2,6-Dinitrotoluene	180	NC	0.26		< 0.037	< 0.035	< 0.039	< 0.034	< 0.038
Di-n-butyl phthalate	200,000	2,300	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
Di-n-octyl phthalate	4,100	10,000	1,600		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
Hexachlorobenzene	78	2.6	0.4		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
Hexachlorobutadiene	NC	NC	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
Hexachlorocyclopentadiene	14,000	1.1	1.1		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
Hexachloroethane	2,000	NC	0.5		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
Isophorone	410,000	4,600	8		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
2-Methylnaphthalene	NC	NC	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
2-Methylphenol	100,000	NC	15		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
4-Methylphenol	NC	NC	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
2-Nitroaniline	NC	NC	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
3-Nitroaniline	NC	NC	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
4-Nitroaniline	NC	NC	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
2-Nitrophenol	NC	NC	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
4-Nitrophenol	NC	NC	NC		< 0.37	< 0.35	< 0.39	< 0.34	< 0.38
Nitrobenzene	1,000	9.4	0.26		< 0.037	< 0.035	< 0.039	< 0.034	< 0.038
N-Nitrosodi-n-propylamine	18	NC	0.0018		< 0.037	< 0.035	< 0.039	< 0.034	< 0.038
N-Nitrosodimethylamine	NC	NC	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
N-Nitrosodiphenylamine	25,000	NC	1		< 0.037	< 0.035	< 0.039	< 0.034	< 0.038
2, 2'-oxybis(1-Chloropropane)	NC	NC	NC		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
Pentachlorophenol	520	NC	0.02		< 0.037	< 0.035	< 0.039	< 0.034	< 0.038
Phenol	61,000	NC	100		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
Pyridine	NC	NC	NC		< 0.76	< 0.70	< 0.79	< 0.69	< 0.78
1,2,4-Trichlorobenzene	2,000	920	5		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
2,4,5-Trichlorophenol	200,000	NC	26		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20
2,4,6-Trichlorophenol	11,000	540	0.66		< 0.19	< 0.18	< 0.20	< 0.18	< 0.20

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 2b
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
PNAs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-38-1	RPB-SB-38-2	RPB-SB-38-3	RPB-SB-39-1	RPB-SB-39-2	RPB-SB-39-3
	Ingestion	Inhalation		Date	12/22/2016	12/22/2016	12/22/2016	12/21/2016	12/21/2016	12/21/2016
				Depth (ft)	2-4 feet	7-9 feet	12-14 feet	2-4 feet	6-8 feet	13-15 feet
PNAs										
Acenaphthene	120,000	NC	570		< 0.037	< 0.034	< 0.036	0.099	< 0.034	< 0.039
Acenaphthylene	NC	NC	NC		< 0.037	< 0.034	< 0.036	0.059	< 0.034	< 0.039
Anthracene	610,000	NC	12,000		0.13	< 0.034	< 0.036	0.50	< 0.034	< 0.039
Benz(a)anthracene	170	NC	1.1		0.50	< 0.034	< 0.036	1.7	< 0.034	< 0.039
Benzo(a)pyrene	17	NC	1.3		0.47	< 0.034	< 0.036	1.6	< 0.034	< 0.039
Benzo(b)fluoranthene	170	NC	1.5		0.48	< 0.034	< 0.036	1.6	< 0.034	< 0.039
Benzo(g,h,i)perylene	NC	NC	NC		0.29	< 0.034	< 0.036	1.1	< 0.034	< 0.039
Benzo(k)fluoranthene	1,700	NC	9		0.39	< 0.034	< 0.036	1.1	< 0.034	< 0.039
Chrysene	17,000	NC	88		0.58	< 0.034	< 0.036	1.8	< 0.034	< 0.039
Dibenz(a,h)anthracene	17	NC	0.2		0.16	< 0.034	< 0.036	0.35	< 0.034	< 0.039
Fluoranthene	82,000	NC	3,100		0.89	< 0.034	< 0.036	3.4	< 0.034	< 0.039
Fluorene	82,000	NC	560		< 0.037	< 0.034	< 0.036	0.088	< 0.034	< 0.039
Indeno(1,2,3-cd)pyrene	170	NC	0.9		0.25	< 0.034	< 0.036	0.89	< 0.034	< 0.039
Naphthalene	4,100	1.8	1.8		< 0.037	< 0.034	< 0.036	0.072	< 0.034	< 0.039
Phenanthrene	NC	NC	NC		0.54	< 0.034	< 0.036	1.9	< 0.034	< 0.039
Pyrene	61,000	NC	2,300		0.85	< 0.034	< 0.036	3.0	< 0.034	< 0.039

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Bold = Exceeds MAC Value



TABLE 2b
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
PNAs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-40-1	RPB-SB-40-2	RPB-SB-40-3	RPB-SB-41-1	RPB-SB-41-2	RPB-SB-41-3
	Ingestion	Inhalation		Date	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016
				Depth (ft)	1-3 feet	7-9 feet	12-14 feet	1-3 feet	8-10 feet	13-15 feet
PNAs										
Acenaphthene	120,000	NC	570		< 0.035	< 0.035	< 0.038	< 0.040	< 0.035	< 0.040
Acenaphthylene	NC	NC	NC		< 0.035	< 0.035	< 0.038	< 0.040	< 0.035	< 0.040
Anthracene	610,000	NC	12,000		0.051	< 0.035	< 0.038	0.065	< 0.035	< 0.040
Benz(a)anthracene	170	NC	1.1		0.24	< 0.035	< 0.038	0.25	< 0.035	< 0.040
Benzo(a)pyrene	17	NC	1.3		0.24	< 0.035	< 0.038	0.28	< 0.035	< 0.040
Benzo(b)fluoranthene	170	NC	1.5		0.28	< 0.035	< 0.038	0.23	< 0.035	< 0.040
Benzo(g,h,i)perylene	NC	NC	NC		0.18	< 0.035	< 0.038	0.30	< 0.035	< 0.040
Benzo(k)fluoranthene	1,700	NC	9		0.18	< 0.035	< 0.038	0.22	< 0.035	< 0.040
Chrysene	17,000	NC	88		0.33	< 0.035	< 0.038	0.35	< 0.035	< 0.040
Dibenz(a,h)anthracene	17	NC	0.2		0.071	< 0.035	< 0.038	0.063	< 0.035	< 0.040
Fluoranthene	82,000	NC	3,100		0.43	< 0.035	< 0.038	0.40	< 0.035	< 0.040
Fluorene	82,000	NC	560		< 0.035	< 0.035	< 0.038	< 0.040	< 0.035	< 0.040
Indeno(1,2,3-cd)pyrene	170	NC	0.9		0.14	< 0.035	< 0.038	0.18	< 0.035	< 0.040
Naphthalene	4,100	1.8	1.8		< 0.035	< 0.035	< 0.038	< 0.040	< 0.035	< 0.040
Phenanthrene	NC	NC	NC		0.26	< 0.035	< 0.038	0.29	< 0.035	< 0.040
Pyrene	61,000	NC	2,300		0.41	< 0.035	< 0.038	0.55	< 0.035	< 0.040

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Bold = Exceeds MAC Value



TABLE 2b
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
PNAs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-42-1	RPB-SB-42-2	RPB-SB-42-3	RPB-SB-43-1	RPB-SB-43-2	RPB-SB-43-3
	Ingestion	Inhalation		Date	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016
				Depth (ft)	1-3 feet	7-9 feet	12-14 feet	2-4 feet	7-9 feet	12-14 feet
PNAs										
Acenaphthene	120,000	NC	570		< 0.038	< 0.034	< 0.039	0.12	< 0.034	< 0.039
Acenaphthylene	NC	NC	NC		< 0.038	< 0.034	< 0.039	0.29	< 0.034	< 0.039
Anthracene	610,000	NC	12,000		0.040	< 0.034	< 0.039	0.88	< 0.034	< 0.039
Benz(a)anthracene	170	NC	1.1		0.20	< 0.034	< 0.039	4.1	< 0.034	< 0.039
Benzo(a)pyrene	17	NC	1.3		0.23	< 0.034	< 0.039	4.0	< 0.034	< 0.039
Benzo(b)fluoranthene	170	NC	1.5		0.21	< 0.034	< 0.039	3.4	< 0.034	< 0.039
Benzo(g,h,i)perylene	NC	NC	NC		0.17	< 0.034	< 0.039	2.4	< 0.034	< 0.039
Benzo(k)fluoranthene	1,700	NC	9		0.16	< 0.034	< 0.039	3.5	< 0.034	< 0.039
Chrysene	17,000	NC	88		0.25	< 0.034	< 0.039	4.4	< 0.034	< 0.039
Dibenz(a,h)anthracene	17	NC	0.2		0.056	< 0.034	< 0.039	0.78	< 0.034	< 0.039
Fluoranthene	82,000	NC	3,100		0.35	< 0.034	< 0.039	7.6	< 0.034	< 0.039
Fluorene	82,000	NC	560		< 0.038	< 0.034	< 0.039	0.15	< 0.034	< 0.039
Indeno(1,2,3-cd)pyrene	170	NC	0.9		0.13	< 0.034	< 0.039	2.2	< 0.034	< 0.039
Naphthalene	4,100	1.8	1.8		< 0.038	< 0.034	< 0.039	0.060	< 0.034	< 0.039
Phenanthrene	NC	NC	NC		0.22	< 0.034	< 0.039	3.0	< 0.034	< 0.039
Pyrene	61,000	NC	2,300		0.42	< 0.034	< 0.039	7.1	< 0.034	< 0.039

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Bold = Exceeds MAC Value



TABLE 2b
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
PNAs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-44-1	RPB-SB-44-2	RPB-SB-44-3	RPB-SB-45-1	RPB-SB-45-2	RPB-SB-45-3
	Ingestion	Inhalation		Date	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016
				Depth (ft)	1-3 feet	8-10 feet	11-13 feet	2-4 feet	7-9 feet	12-14 feet
PNAs										
Acenaphthene	120,000	NC	570		0.083	< 0.035	< 0.038	< 0.037	< 0.039	< 0.041
Acenaphthylene	NC	NC	NC		< 0.040	< 0.035	< 0.038	< 0.037	< 0.039	< 0.041
Anthracene	610,000	NC	12,000		0.25	< 0.035	< 0.038	0.063	< 0.039	< 0.041
Benz(a)anthracene	170	NC	1.1		1.3	< 0.035	< 0.038	0.32	< 0.039	< 0.041
Benzo(a)pyrene	17	NC	1.3		1.3	< 0.035	< 0.038	0.27	< 0.039	< 0.041
Benzo(b)fluoranthene	170	NC	1.5		1.3	< 0.035	< 0.038	0.32	< 0.039	< 0.041
Benzo(g,h,i)perylene	NC	NC	NC		0.85	< 0.035	< 0.038	0.20	< 0.039	< 0.041
Benzo(k)fluoranthene	1,700	NC	9		1.1	< 0.035	< 0.038	0.23	< 0.039	< 0.041
Chrysene	17,000	NC	88		1.4	< 0.035	< 0.038	0.39	< 0.039	< 0.041
Dibenz(a,h)anthracene	17	NC	0.2		0.44	< 0.035	< 0.038	0.11	< 0.039	< 0.041
Fluoranthene	82,000	NC	3,100		2.4	< 0.035	< 0.038	0.57	< 0.039	< 0.041
Fluorene	82,000	NC	560		0.061	< 0.035	< 0.038	< 0.037	< 0.039	< 0.041
Indeno(1,2,3-cd)pyrene	170	NC	0.9		0.78	< 0.035	< 0.038	0.18	< 0.039	< 0.041
Naphthalene	4,100	1.8	1.8		< 0.040	< 0.035	< 0.038	< 0.037	< 0.039	< 0.041
Phenanthrene	NC	NC	NC		1.1	< 0.035	< 0.038	0.29	< 0.039	< 0.041
Pyrene	61,000	NC	2,300		2.1	< 0.035	< 0.038	0.49	< 0.039	< 0.041

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Bold = Exceeds MAC Value



TABLE 2b
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
PNAs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-46-1	RPB-SB-46-2	RPB-SB-46-3	RPB-SB-47-1	RPB-SB-47-2	RPB-SB-47-3
	Ingestion	Inhalation		Date	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016
				Depth (ft)	1-3 feet	8-10 feet	12-14 feet	2-4 feet	6-8 feet	12-14 feet
PNAs										
Acenaphthene	120,000	NC	570		< 0.038	< 0.040	< 0.039	< 0.038	< 0.036	< 0.038
Acenaphthylene	NC	NC	NC		< 0.038	< 0.040	< 0.039	0.039	< 0.036	< 0.038
Anthracene	610,000	NC	12,000		0.058	< 0.040	< 0.039	0.12	< 0.036	< 0.038
Benz(a)anthracene	170	NC	1.1		0.22	< 0.040	< 0.039	0.46	< 0.036	< 0.038
Benzo(a)pyrene	17	NC	1.3		0.21	< 0.040	< 0.039	0.43	< 0.036	< 0.038
Benzo(b)fluoranthene	170	NC	1.5		0.18	< 0.040	< 0.039	0.50	< 0.036	< 0.038
Benzo(g,h,i)perylene	NC	NC	NC		0.14	< 0.040	< 0.039	0.31	< 0.036	< 0.038
Benzo(k)fluoranthene	1,700	NC	9		0.16	< 0.040	< 0.039	0.40	< 0.036	< 0.038
Chrysene	17,000	NC	88		0.24	< 0.040	< 0.039	0.62	< 0.036	< 0.038
Dibenz(a,h)anthracene	17	NC	0.2		0.066	< 0.040	< 0.039	0.19	< 0.036	< 0.038
Fluoranthene	82,000	NC	3,100		0.40	< 0.040	< 0.039	0.84	< 0.036	< 0.038
Fluorene	82,000	NC	560		< 0.038	< 0.040	< 0.039	< 0.038	< 0.036	< 0.038
Indeno(1,2,3-cd)pyrene	170	NC	0.9		0.12	< 0.040	< 0.039	0.27	< 0.036	< 0.038
Naphthalene	4,100	1.8	1.8		< 0.038	< 0.040	< 0.039	< 0.038	< 0.036	< 0.038
Phenanthrene	NC	NC	NC		0.28	< 0.040	< 0.039	0.57	< 0.036	< 0.038
Pyrene	61,000	NC	2,300		0.46	< 0.040	< 0.039	0.74	< 0.036	< 0.038

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Bold = Exceeds MAC Value



TABLE 2b
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
PNAs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-48-1	RPB-SB-48-2	RPB-SB-48-3	RPB-SB-49-1	RPB-SB-49-2	RPB-SB-49-3
	Ingestion	Inhalation		Date	12/20/2016	12/20/2016	12/20/2016	12/19/2016	12/19/2016	12/19/2016
				Depth (ft)	2-4 feet	7-9 feet	13-15 feet	2-4 feet	7-9 feet	12-14 feet
PNAs										
Acenaphthene	120,000	NC	570		< 0.039	< 0.034	< 0.039	< 0.038	< 0.035	< 0.039
Acenaphthylene	NC	NC	NC		< 0.039	< 0.034	< 0.039	< 0.038	< 0.035	< 0.039
Anthracene	610,000	NC	12,000		< 0.039	< 0.034	< 0.039	< 0.038	< 0.035	< 0.039
Benz(a)anthracene	170	NC	1.1		0.18	< 0.034	< 0.039	0.11	< 0.035	< 0.039
Benzo(a)pyrene	17	NC	1.3		0.19	< 0.034	< 0.039	0.12	< 0.035	< 0.039
Benzo(b)fluoranthene	170	NC	1.5		0.17	< 0.034	< 0.039	0.14	< 0.035	< 0.039
Benzo(g,h,i)perylene	NC	NC	NC		0.13	< 0.034	< 0.039	0.10	< 0.035	< 0.039
Benzo(k)fluoranthene	1,700	NC	9		0.14	< 0.034	< 0.039	0.098	< 0.035	< 0.039
Chrysene	17,000	NC	88		0.21	< 0.034	< 0.039	0.16	< 0.035	< 0.039
Dibenz(a,h)anthracene	17	NC	0.2		0.066	< 0.034	< 0.039	0.053	< 0.035	< 0.039
Fluoranthene	82,000	NC	3,100		0.29	< 0.034	< 0.039	0.22	< 0.035	< 0.039
Fluorene	82,000	NC	560		< 0.039	< 0.034	< 0.039	< 0.038	< 0.035	< 0.039
Indeno(1,2,3-cd)pyrene	170	NC	0.9		0.11	< 0.034	< 0.039	0.080	< 0.035	< 0.039
Naphthalene	4,100	1.8	1.8		< 0.039	< 0.034	< 0.039	< 0.038	< 0.035	< 0.039
Phenanthrene	NC	NC	NC		0.18	< 0.034	< 0.039	0.14	< 0.035	< 0.039
Pyrene	61,000	NC	2,300		0.35	< 0.034	< 0.039	0.22	< 0.035	< 0.039

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Bold = Exceeds MAC Value



TABLE 2b
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
PNAs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-50-1	RPB-SB-50-2	RPB-SB-50-3	RPB-SB-51-1	RPB-SB-51-2	RPB-SB-51-3
	Ingestion	Inhalation		Date	12/19/2016	12/19/2016	12/19/2016	12/19/2016	12/19/2016	12/19/2016
				Depth (ft)	2-4 feet	7-9 feet	12-14 feet	2-4 feet	7-9 feet	13-15 feet
PNAs										
Acenaphthene	120,000	NC	570		< 0.039	< 0.035	< 0.039	0.075	< 0.040	< 0.040
Acenaphthylene	NC	NC	NC		< 0.039	< 0.035	< 0.039	0.040	< 0.040	< 0.040
Anthracene	610,000	NC	12,000		< 0.039	< 0.035	< 0.039	0.26	< 0.040	< 0.040
Benz(a)anthracene	170	NC	1.1		0.15	< 0.035	< 0.039	0.76	< 0.040	< 0.040
Benzo(a)pyrene	17	NC	1.3		0.15	< 0.035	< 0.039	0.76	< 0.040	< 0.040
Benzo(b)fluoranthene	170	NC	1.5		0.21	< 0.035	< 0.039	0.78	< 0.040	< 0.040
Benzo(g,h,i)perylene	NC	NC	NC		0.13	< 0.035	< 0.039	0.47	< 0.040	< 0.040
Benzo(k)fluoranthene	1,700	NC	9		0.13	< 0.035	< 0.039	0.56	< 0.040	< 0.040
Chrysene	17,000	NC	88		0.26	< 0.035	< 0.039	0.94	< 0.040	< 0.040
Dibenz(a,h)anthracene	17	NC	0.2		0.086	< 0.035	< 0.039	0.27	< 0.040	< 0.040
Fluoranthene	82,000	NC	3,100		0.23	< 0.035	< 0.039	1.5	< 0.040	< 0.040
Fluorene	82,000	NC	560		< 0.039	< 0.035	< 0.039	0.090	< 0.040	< 0.040
Indeno(1,2,3-cd)pyrene	170	NC	0.9		0.10	< 0.035	< 0.039	0.41	< 0.040	< 0.040
Naphthalene	4,100	1.8	1.8		< 0.039	< 0.035	< 0.039	0.068	< 0.040	< 0.040
Phenanthrene	NC	NC	NC		0.26	< 0.035	< 0.039	0.98	< 0.040	< 0.040
Pyrene	61,000	NC	2,300		0.21	< 0.035	< 0.039	1.4	< 0.040	< 0.040

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Bold = Exceeds MAC Value



TABLE 2b
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
PNAs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-52-1	RPB-SB-52-2	RPB-SB-52-3	RPB-SB-53-1	RPB-SB-53-2	RPB-SB-53-3
	Ingestion	Inhalation		Date	12/19/2016	12/19/2016	12/19/2016	12/16/2016	12/16/2016	12/19/2016
				Depth (ft)	2-4 feet	7-9 feet	12-14 feet	1-3 feet	7-9 feet	12-14 feet
PNAs										
Acenaphthene	120,000	NC	570		0.062	< 0.034	< 0.039	< 0.037	< 0.038	< 0.037
Acenaphthylene	NC	NC	NC		< 0.037	< 0.034	< 0.039	< 0.037	< 0.038	< 0.037
Anthracene	610,000	NC	12,000		0.19	< 0.034	< 0.039	< 0.037	< 0.038	< 0.037
Benz(a)anthracene	170	NC	1.1		0.70	< 0.034	< 0.039	0.14	< 0.038	< 0.037
Benzo(a)pyrene	17	NC	1.3		0.77	< 0.034	< 0.039	0.19	< 0.038	< 0.037
Benzo(b)fluoranthene	170	NC	1.5		0.77	< 0.034	< 0.039	0.16	< 0.038	< 0.037
Benzo(g,h,i)perylene	NC	NC	NC		0.61	< 0.034	< 0.039	0.093	< 0.038	< 0.037
Benzo(k)fluoranthene	1,700	NC	9		0.62	< 0.034	< 0.039	0.11	< 0.038	< 0.037
Chrysene	17,000	NC	88		0.87	< 0.034	< 0.039	0.20	< 0.038	< 0.037
Dibenz(a,h)anthracene	17	NC	0.2		0.28	< 0.034	< 0.039	< 0.037	< 0.038	< 0.037
Fluoranthene	82,000	NC	3,100		1.4	< 0.034	< 0.039	0.24	< 0.038	< 0.037
Fluorene	82,000	NC	560		0.068	< 0.034	< 0.039	< 0.037	< 0.038	< 0.037
Indeno(1,2,3-cd)pyrene	170	NC	0.9		0.51	< 0.034	< 0.039	0.070	< 0.038	< 0.037
Naphthalene	4,100	1.8	1.8		0.057	< 0.034	< 0.039	< 0.037	< 0.038	< 0.037
Phenanthrene	NC	NC	NC		0.86	< 0.034	< 0.039	0.15	< 0.078	< 0.037
Pyrene	61,000	NC	2,300		1.2	< 0.034	< 0.039	0.22	< 0.038	< 0.037

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Bold = Exceeds MAC Value



TABLE 2b
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
PNAs

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-54-1	RPB-SB-54-2	RPB-SB-54-3	RPB-SB-55-1	RPB-SB-55-2	RPB-SB-55-3
	Ingestion	Inhalation		Date	12/16/2016	12/16/2016	12/16/2016	12/16/2016	12/16/2016	12/16/2016
				Depth (ft)	1-3 feet	6-8 feet	10-12 feet	1-3 feet	7-9 feet	12-14 feet
PNAs										
Acenaphthene	120,000	NC	570		0.25	< 0.039	< 0.038	< 0.038	< 0.037	< 0.038
Acenaphthylene	NC	NC	NC		0.047	< 0.039	< 0.038	< 0.038	< 0.037	< 0.038
Anthracene	610,000	NC	12,000		0.96	< 0.039	< 0.038	0.078	< 0.037	< 0.038
Benz(a)anthracene	170	NC	1.1		2.4	< 0.039	< 0.038	0.35	< 0.037	< 0.038
Benzo(a)pyrene	17	NC	1.3		1.7	< 0.039	< 0.038	0.35	< 0.037	< 0.038
Benzo(b)fluoranthene	170	NC	1.5		2.6	< 0.039	< 0.038	0.37	< 0.037	< 0.038
Benzo(g,h,i)perylene	NC	NC	NC		1.3	< 0.039	< 0.038	0.15	< 0.037	< 0.038
Benzo(k)fluoranthene	1,700	NC	9		0.89	< 0.039	< 0.038	0.25	< 0.037	< 0.038
Chrysene	17,000	NC	88		2.7	< 0.039	< 0.038	0.40	< 0.037	< 0.038
Dibenz(a,h)anthracene	17	NC	0.2		0.64	< 0.039	< 0.038	< 0.038	< 0.037	< 0.038
Fluoranthene	82,000	NC	3,100		5.3	< 0.039	< 0.038	0.54	< 0.037	< 0.038
Fluorene	82,000	NC	560		0.34	< 0.039	< 0.038	< 0.038	< 0.037	< 0.038
Indeno(1,2,3-cd)pyrene	170	NC	0.9		1.2	< 0.039	< 0.038	0.14	< 0.037	< 0.038
Naphthalene	4,100	1.8	1.8		0.077	< 0.039	< 0.038	< 0.038	< 0.037	< 0.038
Phenanthrene	NC	NC	NC		3.7	< 0.080	< 0.076	0.38	< 0.074	< 0.078
Pyrene	61,000	NC	2,300		3.7	< 0.039	< 0.038	0.58	< 0.037	< 0.038

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. Bold = Exceeds MAC Value



TABLE 3
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
Inorganics and pH

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-38-1	RPB-SB-38-2	RPB-SB-38-3	RPB-SB-39-1	RPB-SB-39-2	RPB-SB-39-3
	Ingestion	Inhalation		Date	12/22/2016	12/22/2016	12/22/2016	12/21/2016	12/21/2016	12/21/2016
				Depth (ft)	2-4 feet	7-9 feet	12-14 feet	2-4 feet	6-8 feet	13-15 feet
INORGANICS										
Aluminum	NC	NC	NC		5500	1400	NA	6600	1200	NA
Antimony	82	NC	5		< 2.0	< 1.8	NA	< 4.4	< 3.6	NA
Arsenic	61	25,000	13.0		7.4	5.9	2.0	30	1.6	2.0
Barium	14,000	870,000	1,500		210	3.4	3.5	700	5.7	3.9
Beryllium	410	44,000	22		0.59	< 0.46	NA	1.7	< 0.45	NA
Cadmium	200	59,000	5.2		< 0.51	< 0.46	< 0.49	1.3	< 0.45	< 0.54
Calcium	NC	NC	NC		48000	42000	NA	32000	41000	NA
Chromium	4,100	690	21		7.7	3.5	4.2	17	4.0	3.2
Cobalt	12,000	NC	20		3.7	3.6	NA	8.0	2.6	NA
Copper	8,200	NC	2,900		49	4.5	NA	160	2.9	NA
Cyanide	4,100	NC	40		< 0.29	< 0.26	NA	0.52	< 0.26	NA
Iron	NC	NC	15,900		7900	5700	NA	12000	3000	NA
Lead	700	NC	107		200	3.3	3.7	1100	3.5	3.7
Magnesium	730,000	NC	325,000		22000	24000	NA	10000	21000	NA
Manganese	4,100	8,700	636		320	270	NA	260	190	NA
Mercury	61	0.1	0.89		0.092	< 0.020	< 0.020	0.36	< 0.019	< 0.023
Nickel	4,100	440,000	100		8.3	5.3	NA	20	4.1	NA
Potassium	NC	NC	NC		640	270	NA	1200	220	NA
Selenium	1,000	NC	1.3		1.2	< 0.91	< 0.97	1.7	< 0.90	< 1.1
Silver	1,000	NC	4.4		< 1.0	< 0.91	< 0.97	< 1.1	< 0.90	< 1.1
Sodium	NC	NC	NC		420	120	NA	960	100	NA
Thallium	160	NC	2.6		< 1.0	< 0.91	NA	< 1.1	< 0.90	NA
Vanadium	1,400	NC	550		14	5.6	NA	29	14	NA
Zinc	61,000	NC	5,100		90	16	NA	390	17	NA
			Hazardous Waste							
TCLP Lead	0.0075	0.1	5		NA	NA	NA	0.12	NA	NA
pH	NC	NC	6.25-9.0		7.82	8.16	8.1	8.82	8.79	8.01

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. NA = Not Analyzed for this constituent
4. Bold = Exceeds MAC value
5. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 3
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
Inorganics and pH

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-40-1	RPB-SB-40-2	RPB-SB-40-3	RPB-SB-41-1	RPB-SB-41-2	RPB-SB-41-3
	Ingestion	Inhalation		Date	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016
				Depth (ft)	1-3 feet	7-9 feet	12-14 feet	1-3 feet	8-10 feet	13-15 feet
INORGANICS										
Aluminum	NC	NC	NC		3200	1800	NA	3800	1300	NA
Antimony	82	NC	5		< 3.8	< 3.8	NA	< 4.4	< 3.6	NA
Arsenic	61	25,000	13.0		7.1	1.0	1.7	89	< 0.89	2.6
Barium	14,000	870,000	1,500		130	5.8	3.0	270	4.7	5.3
Beryllium	410	44,000	22		< 0.47	< 0.48	NA	0.85	< 0.45	NA
Cadmium	200	59,000	5.2		< 0.47	< 0.48	< 0.52	< 0.55	< 0.45	< 0.54
Calcium	NC	NC	NC		27000	61000	NA	12000	41000	NA
Chromium	4,100	690	21		7.6	6.1	2.9	9.5	4.5	5.0
Cobalt	12,000	NC	20		4.4	3.2	NA	6.6	1.4	NA
Copper	8,200	NC	2,900		27	2.9	NA	41	2.5	NA
Cyanide	4,100	NC	40		< 0.26	< 0.26	NA	< 0.30	< 0.26	NA
Iron	NC	NC	15,900		8300	5000	NA	12000	4000	NA
Lead	700	NC	107		69	3.7	3.4	170	3.1	6.0
Magnesium	730,000	NC	325,000		13000	40000	NA	3500	21000	NA
Manganese	4,100	8,700	636		230	280	NA	170	180	NA
Mercury	61	0.1	0.89		0.11	< 0.019	< 0.022	0.39	< 0.016	< 0.022
Nickel	4,100	440,000	100		9.1	6.2	NA	12	3.3	NA
Potassium	NC	NC	NC		330	340	NA	530	220	NA
Selenium	1,000	NC	1.3		< 0.94	< 0.95	< 1.0	< 1.1	< 0.89	< 1.1
Silver	1,000	NC	4.4		< 0.94	< 0.95	< 1.0	< 1.1	< 0.89	< 1.1
Sodium	NC	NC	NC		230	120	NA	480	85	NA
Thallium	160	NC	2.6		< 0.94	< 0.95	NA	< 1.1	< 0.89	NA
Vanadium	1,400	NC	550		19	8.2	NA	21	9.1	NA
Zinc	61,000	NC	5,100		78	18	NA	140	13	NA
			Hazardous Waste							
TCLP Lead	0.0075	0.1	5		NA	NA	NA	NA	NA	NA
pH	NC	NC	6.25-9.0		7.85	8.18	7.67	8.43	8.41	8.23

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. NA = Not Analyzed for this constituent
4. Bold = Exceeds MAC value
5. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 3
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
Inorganics and pH

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-42-1	RPB-SB-42-2	RPB-SB-42-3	RPB-SB-43-1	RPB-SB-43-2	RPB-SB-43-3
	Ingestion	Inhalation		Date	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016
				Depth (ft)	1-3 feet	7-9 feet	12-14 feet	2-4 feet	7-9 feet	12-14 feet
INORGANICS										
Aluminum	NC	NC	NC		3600	1300	NA	4300	940	NA
Antimony	82	NC	5		< 4.0	< 3.8	NA	< 3.9	< 3.5	NA
Arsenic	61	25,000	13.0		7.0	< 0.95	1.2	21	< 0.88	1.4
Barium	14,000	870,000	1,500		200	4.3	2.8	1100	3.4	3.9
Beryllium	410	44,000	22		< 0.51	< 0.47	NA	1.1	< 0.44	NA
Cadmium	200	59,000	5.2		< 0.51	< 0.47	< 0.53	1.5	< 0.44	< 0.52
Calcium	NC	NC	NC		22000	37000	NA	23000	25000	NA
Chromium	4,100	690	21		7.0	4.5	2.5	14	2.5	3.4
Cobalt	12,000	NC	20		3.3	1.7	NA	6.2	1.4	NA
Copper	8,200	NC	2,900		85	< 2.4	NA	160	< 2.2	NA
Cyanide	4,100	NC	40		< 0.29	< 0.26	NA	< 0.28	< 0.26	NA
Iron	NC	NC	15,900		8700	4200	NA	8500	2900	NA
Lead	700	NC	107		410	4.4	2.8	360	2.1	4.1
Magnesium	730,000	NC	325,000		11000	20000	NA	8600	14000	NA
Manganese	4,100	8,700	636		310	190	NA	180	120	NA
Mercury	61	0.1	0.89		0.68	< 0.018	< 0.021	0.49	< 0.019	< 0.021
Nickel	4,100	440,000	100		7.2	3.6	NA	14	2.6	NA
Potassium	NC	NC	NC		400	220	NA	620	190	NA
Selenium	1,000	NC	1.3		< 1.0	< 0.95	< 1.1	1.2	< 0.88	< 1.0
Silver	1,000	NC	4.4		< 1.0	< 0.95	< 1.1	< 0.96	< 0.88	< 1.0
Sodium	NC	NC	NC		260	98	NA	400	67	NA
Thallium	160	NC	2.6		< 1.0	< 0.95	NA	< 0.96	< 0.88	NA
Vanadium	1,400	NC	550		16	9.0	NA	22	5.3	NA
Zinc	61,000	NC	5,100		120	14	NA	480	8.8	NA
			Hazardous Waste							
TCLP Lead	0.0075	0.1	5		NA	NA	NA	NA	NA	NA
pH	NC	NC	6.25-9.0		7.79	8.12	7.85	7.56	7.88	7.89

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. NA = Not Analyzed for this constituent
4. Bold = Exceeds MAC value
5. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 3
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
Inorganics and pH

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-44-1	RPB-SB-44-2	RPB-SB-44-3	RPB-SB-45-1	RPB-SB-45-2	RPB-SB-45-3
	Ingestion	Inhalation		Date	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016
				Depth (ft)	1-3 feet	8-10 feet	11-13 feet	2-4 feet	7-9 feet	12-14 feet
INORGANICS										
Aluminum	NC	NC	NC		5700	1100	NA	4800	1100	NA
Antimony	82	NC	5		< 2.2	< 1.8	NA	< 2.1	< 2.2	NA
Arsenic	61	25,000	13.0		28	< 0.91	< 1.0	10	2.1	2.2
Barium	14,000	870,000	1,500		210	2.8	3.8	150	8.4	5.1
Beryllium	410	44,000	22		1.4	< 0.46	NA	< 0.51	< 0.54	NA
Cadmium	200	59,000	5.2		1.5	< 0.46	< 0.50	< 0.51	< 0.54	< 0.56
Calcium	NC	NC	NC		16000	34000	NA	41000	38000	NA
Chromium	4,100	690	21		13	3.9	3.2	7.8	3.7	3.8
Cobalt	12,000	NC	20		7.7	1.4	NA	4.4	3.2	NA
Copper	8,200	NC	2,900		160	< 2.3	NA	47	3.5	NA
Cyanide	4,100	NC	40		0.51	< 0.26	NA	< 0.28	< 0.30	NA
Iron	NC	NC	15,900		25000	3300	NA	8500	6200	NA
Lead	700	NC	107		470	2.6	2.9	370	2.4	4.2
Magnesium	730,000	NC	325,000		5200	20000	NA	20000	19000	NA
Manganese	4,100	8,700	636		220	160	NA	200	380	NA
Mercury	61	0.1	0.89		0.53	< 0.018	< 0.020	0.27	< 0.020	< 0.019
Nickel	4,100	440,000	100		35	3.4	NA	9.5	10	NA
Potassium	NC	NC	NC		700	180	NA	500	190	NA
Selenium	1,000	NC	1.3		2.0	< 0.91	< 1.0	1.2	< 1.1	< 1.1
Silver	1,000	NC	4.4		< 1.1	< 0.91	< 1.0	< 1.0	< 1.1	< 1.1
Sodium	NC	NC	NC		490	91	NA	400	110	NA
Thallium	160	NC	2.6		< 1.1	< 0.91	NA	< 1.0	< 1.1	NA
Vanadium	1,400	NC	550		25	8.6	NA	21	6.5	NA
Zinc	61,000	NC	5,100		620	20	NA	120	21	NA
			Hazardous Waste							
TCLP Lead	0.0075	0.1	5		NA	NA	NA	NA	NA	NA
pH	NC	NC	6.25-9.0		8.68	8.74	8.1	7.91	7.7	7.72

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. NA = Not Analyzed for this constituent
4. Bold = Exceeds MAC value
5. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 3
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
Inorganics and pH

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-46-1	RPB-SB-46-2	RPB-SB-46-3	RPB-SB-47-1	RPB-SB-47-2	RPB-SB-47-3
	Ingestion	Inhalation		Date	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016	12/20/2016
				Depth (ft)	1-3 feet	8-10 feet	12-14 feet	2-4 feet	6-8 feet	12-14 feet
INORGANICS										
Aluminum	NC	NC	NC		4300	1100	NA	3300	1100	NA
Antimony	82	NC	5		< 2.1	< 2.2	NA	< 2.1	< 1.9	NA
Arsenic	61	25,000	13.0		6.7	1.9	3.2	8.8	1.6	1.8
Barium	14,000	870,000	1,500		38	2.9	9.9	110	2.8	3.3
Beryllium	410	44,000	22		0.78	< 0.55	NA	< 0.52	< 0.47	NA
Cadmium	200	59,000	5.2		< 0.51	< 0.55	< 0.52	1.4	< 0.47	< 0.50
Calcium	NC	NC	NC		28000	55000	NA	64000	32000	NA
Chromium	4,100	690	21		10	3.8	4.8	7.1	2.8	3.6
Cobalt	12,000	NC	20		3.5	2.5	NA	3.1	3.0	NA
Copper	8,200	NC	2,900		16	3.8	NA	280	3.0	NA
Cyanide	4,100	NC	40		< 0.29	< 0.30	NA	0.48	< 0.28	NA
Iron	NC	NC	15,900		19000	4700	NA	8000	3200	NA
Lead	700	NC	107		25	2.7	4.9	190	2.9	3.7
Magnesium	730,000	NC	325,000		12000	27000	NA	32000	18000	NA
Manganese	4,100	8,700	636		180	250	NA	180	130	NA
Mercury	61	0.1	0.89		0.031	< 0.023	< 0.021	0.19	< 0.021	< 0.022
Nickel	4,100	440,000	100		13	4.5	NA	8.5	4.7	NA
Potassium	NC	NC	NC		450	250	NA	430	220	NA
Selenium	1,000	NC	1.3		< 1.0	< 1.1	< 1.0	< 1.0	< 0.93	< 0.99
Silver	1,000	NC	4.4		< 1.0	< 1.1	< 1.0	< 1.0	< 0.93	< 0.99
Sodium	NC	NC	NC		2100	210	NA	450	130	NA
Thallium	160	NC	2.6		< 1.0	< 1.1	NA	< 1.0	< 0.93	NA
Vanadium	1,400	NC	550		30	6.5	NA	21	5.5	NA
Zinc	61,000	NC	5,100		46	16	NA	650	16	NA
			Hazardous Waste							
TCLP Lead	0.0075	0.1	5		NA	NA	NA	NA	NA	NA
pH	NC	NC	6.25-9.0		8.66	7.85	7.8	7.83	7.8	7.86

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
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4. Bold = Exceeds MAC value
5. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 3
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
Inorganics and pH

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-48-1	RPB-SB-48-2	RPB-SB-48-3	RPB-SB-49-1	RPB-SB-49-2	RPB-SB-49-3
	Ingestion	Inhalation		Date	12/20/2016	12/20/2016	12/20/2016	12/19/2016	12/19/2016	12/19/2016
				Depth (ft)	2-4 feet	7-9 feet	13-15 feet	2-4 feet	7-9 feet	12-14 feet
INORGANICS										
Aluminum	NC	NC	NC		4300	2800	NA	5700	1100	NA
Antimony	82	NC	5		< 2.0	< 1.9	NA	< 4.1	< 3.7	NA
Arsenic	61	25,000	13.0		6.3	1.2	1.1	11	< 0.93	1.6
Barium	14,000	870,000	1,500		49	39	3.6	270	4.2	5.1
Beryllium	410	44,000	22		< 0.51	< 0.47	NA	0.74	< 0.46	NA
Cadmium	200	59,000	5.2		< 0.51	< 0.47	< 0.50	< 0.51	< 0.46	< 0.55
Calcium	NC	NC	NC		36000	47000	NA	21000	27000	NA
Chromium	4,100	690	21		8.3	4.2	3.0	8.5	3.2	2.8
Cobalt	12,000	NC	20		3.1	2.7	NA	4.7	1.6	NA
Copper	8,200	NC	2,900		20	6.1	NA	78	< 2.3	NA
Cyanide	4,100	NC	40		< 0.29	< 0.26	NA	< 0.29	< 0.27	NA
Iron	NC	NC	15,900		6500	8800	NA	11000	3000	NA
Lead	700	NC	107		64	5.4	3.1	170	2.8	6.6
Magnesium	730,000	NC	325,000		14000	26000	NA	6300	15000	NA
Manganese	4,100	8,700	636		150	250	NA	120	140	NA
Mercury	61	0.1	0.89		0.052	< 0.018	< 0.020	0.19	< 0.019	< 0.019
Nickel	4,100	440,000	100		6.9	5.0	NA	10	2.9	NA
Potassium	NC	NC	NC		360	1500	NA	480	230	NA
Selenium	1,000	NC	1.3		< 1.0	< 0.93	< 1.0	1.2	< 0.93	< 1.1
Silver	1,000	NC	4.4		< 1.0	< 0.93	< 1.0	< 1.0	< 0.93	< 1.1
Sodium	NC	NC	NC		450	130	NA	530	81	NA
Thallium	160	NC	2.6		< 1.0	< 0.93	NA	< 1.0	< 0.93	NA
Vanadium	1,400	NC	550		15	18	NA	19	5.2	NA
Zinc	61,000	NC	5,100		60	32	NA	150	12	NA
			Hazardous Waste							
TCLP Lead	0.0075	0.1	5		NA	NA	NA	NA	NA	NA
pH	NC	NC	6.25-9.0		7.79	8.2	8.1	7.78	7.88	7.52

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. NA = Not Analyzed for this constituent
4. Bold = Exceeds MAC value
5. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 3
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
Inorganics and pH

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-50-1	RPB-SB-50-2	RPB-SB-50-3	RPB-SB-51-1	RPB-SB-51-2	RPB-SB-51-3
	Ingestion	Inhalation		Date	12/19/2016	12/19/2016	12/19/2016	12/19/2016	12/19/2016	12/19/2016
				Depth (ft)	2-4 feet	7-9 feet	12-14 feet	2-4 feet	7-9 feet	13-15 feet
INORGANICS										
Aluminum	NC	NC	NC		12000	1200	NA	4300	1400	NA
Antimony	82	NC	5		< 4.1	< 3.8	NA	< 4.1	< 4.2	NA
Arsenic	61	25,000	13.0		23	< 0.96	1.4	11	2.7	2.0
Barium	14,000	870,000	1,500		560	3.5	3.4	200	4.3	3.8
Beryllium	410	44,000	22		2.5	< 0.48	NA	0.71	< 0.52	NA
Cadmium	200	59,000	5.2		< 0.51	< 0.48	< 0.52	0.68	< 0.52	< 0.53
Calcium	NC	NC	NC		24000	34000	NA	39000	44000	NA
Chromium	4,100	690	21		8.6	3.3	2.9	8.8	3.8	3.4
Cobalt	12,000	NC	20		8.7	1.8	NA	4.7	3.5	NA
Copper	8,200	NC	2,900		66	2.4	NA	83	3.2	NA
Cyanide	4,100	NC	40		< 0.30	< 0.27	NA	< 0.29	< 0.30	NA
Iron	NC	NC	15,900		10000	3200	NA	11000	4900	NA
Lead	700	NC	107		100	3.2	2.5	270	4.0	3.1
Magnesium	730,000	NC	325,000		2700	19000	NA	19000	20000	NA
Manganese	4,100	8,700	636		100	160	NA	130	190	NA
Mercury	61	0.1	0.89		0.047	< 0.019	< 0.022	0.14	< 0.022	< 0.022
Nickel	4,100	440,000	100		16	3.3	NA	11	5.8	NA
Potassium	NC	NC	NC		580	250	NA	610	330	NA
Selenium	1,000	NC	1.3		< 1.0	< 0.96	< 1.0	1.7	< 1.0	< 1.1
Silver	1,000	NC	4.4		< 1.0	< 0.96	< 1.0	< 1.0	< 1.0	< 1.1
Sodium	NC	NC	NC		610	93	NA	290	100	NA
Thallium	160	NC	2.6		< 1.0	< 0.96	NA	< 1.0	< 1.0	NA
Vanadium	1,400	NC	550		24	5.4	NA	21	9.5	NA
Zinc	61,000	NC	5,100		72	17	NA	210	13	NA
			Hazardous Waste							
TCLP Lead	0.0075	0.1	5		NA	NA	NA	NA	NA	NA
pH	NC	NC	6.25-9.0		7.47	7.71	7.52	7.41	7.57	7.82

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. NA = Not Analyzed for this constituent
4. Bold = Exceeds MAC value
5. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 3
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
Inorganics and pH

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-52-1	RPB-SB-52-2	RPB-SB-52-3	RPB-SB-53-1	RPB-SB-53-2	RPB-SB-53-3
	Ingestion	Inhalation		Date	12/19/2016	12/19/2016	12/19/2016	12/16/2016	12/16/2016	12/19/2016
				Depth (ft)	2-4 feet	7-9 feet	12-14 feet	1-3 feet	7-9 feet	12-14 feet
INORGANICS										
Aluminum	NC	NC	NC		7500	1200	NA	3900	1100	NA
Antimony	82	NC	5		3.7	< 3.8	NA	< 2.0	< 2.0	NA
Arsenic	61	25,000	13.0		54	1.5	< 1.1	5.8	1.8	2.3
Barium	14,000	870,000	1,500		440	6.9	4.3	220	3.2	5.3
Beryllium	410	44,000	22		1.5	< 0.47	NA	< 0.49	< 0.51	NA
Cadmium	200	59,000	5.2		5.3	< 0.47	< 0.53	< 0.49	< 0.51	< 0.51
Calcium	NC	NC	NC		21000	44000	NA	37000	41000	NA
Chromium	4,100	690	21		12	3.9	3.4	9.7	3.0	3.9
Cobalt	12,000	NC	20		7.2	1.8	NA	3.7	4.3	NA
Copper	8,200	NC	2,900		2500	4.0	NA	28	< 2.5	NA
Cyanide	4,100	NC	40		< 0.28	< 0.26	NA	< 0.28	< 0.30	NA
Iron	NC	NC	15,900		17000	6100	NA	7700	3300	NA
Lead	700	NC	107		900	4.3	3.2	83	3.2	3.8
Magnesium	730,000	NC	325,000		5300	22000	NA	18000	24000	NA
Manganese	4,100	8,700	636		340	330	NA	230	180	NA
Mercury	61	0.1	0.89		0.17	< 0.017	< 0.018	0.077	< 0.021	< 0.018
Nickel	4,100	440,000	100		36	3.9	NA	8.3	4.5	NA
Potassium	NC	NC	NC		870	230	NA	410	180	NA
Selenium	1,000	NC	1.3		4.7	< 0.94	< 1.1	< 0.98	< 1.0	< 1.0
Silver	1,000	NC	4.4		8.5	< 0.94	< 1.1	< 0.98	< 1.0	< 1.0
Sodium	NC	NC	NC		630	140	NA	360	95	NA
Thallium	160	NC	2.6		2.7	< 0.94	NA	< 0.98	< 1.0	NA
Vanadium	1,400	NC	550		24	7.3	NA	15	5.3	NA
Zinc	61,000	NC	5,100		1200	16	NA	79	15	NA
			Hazardous Waste							
TCLP Lead	0.0075	0.1	5		0.27	NA	NA	NA	NA	NA
pH	NC	NC	6.25-9.0		7.49	8.31	8.04	8.09	7.62	8.2

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. NA = Not Analyzed for this constituent
4. Bold = Exceeds MAC value
5. Highlighting and bold = Exceeds TACO Tier 1 SRO



TABLE 3
Soil Analytical Results Compared to TACO Tier 1 SROs and CCDD MAC Values
Inorganics and pH

	CONSTRUCTION WORKER		CCDD MAC Values	Sample	RPB-SB-54-1	RPB-SB-54-2	RPB-SB-54-3	RPB-SB-55-1	RPB-SB-55-2	RPB-SB-55-3
	Ingestion	Inhalation		Date	12/16/2016	12/16/2016	12/16/2016	12/16/2016	12/16/2016	12/16/2016
				Depth (ft)	1-3 feet	6-8 feet	10-12 feet	13- feet	7-9 feet	12-14 feet
INORGANICS										
Aluminum	NC	NC	NC		4200	1000	NA	4500	1700	NA
Antimony	82	NC	5		< 2.0	< 2.0	NA	< 2.0	< 2.0	NA
Arsenic	61	25,000	13.0		12	1.2	1.2	11	1.7	< 1.0
Barium	14,000	870,000	1,500		160	2.6	3.7	230	3.7	2.7
Beryllium	410	44,000	22		0.54	< 0.50	NA	0.73	< 0.51	NA
Cadmium	200	59,000	5.2		< 0.50	< 0.50	< 0.50	< 0.50	< 0.51	< 0.52
Calcium	NC	NC	NC		60000	27000	NA	49000	49000	NA
Chromium	4,100	690	21		10	3.4	6.1	7.3	5.3	2.5
Cobalt	12,000	NC	20		4.2	1.4	NA	4.5	3.2	NA
Copper	8,200	NC	2,900		53	2.9	NA	41	3.5	NA
Cyanide	4,100	NC	40		< 0.29	< 0.30	NA	< 0.29	< 0.28	NA
Iron	NC	NC	15,900		12000	3100	NA	8400	5900	NA
Lead	700	NC	107		150	2.4	3.1	99	3.4	2.5
Magnesium	730,000	NC	325,000		33000	13000	NA	15000	25000	NA
Manganese	4,100	8,700	636		190	130	NA	150	280	NA
Mercury	61	0.1	0.89		0.42	< 0.022	< 0.019	0.096	< 0.020	< 0.020
Nickel	4,100	440,000	100		12	3.2	NA	10	5.2	NA
Potassium	NC	NC	NC		390	190	NA	530	290	NA
Selenium	1,000	NC	1.3		1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Silver	1,000	NC	4.4		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sodium	NC	NC	NC		350	85	NA	500	130	NA
Thallium	160	NC	2.6		< 1.0	< 1.0	NA	< 1.0	< 1.0	NA
Vanadium	1,400	NC	550		21	4.2	NA	20	7.9	NA
Zinc	61,000	NC	5,100		210	11	NA	90	22	NA
			Hazardous Waste							
TCLP Lead	0.0075	0.1	5		NA	NA	NA	NA	NA	NA
pH	NC	NC	6.25-9.0		7.3	7.73	7.96	7.35	7.66	7.83

NOTES

1. All results expressed in milligrams per kilogram (mg/kg)
2. NC = No toxicity criteria for this exposure route
3. NA = Not Analyzed for this constituent
4. Bold = Exceeds MAC value
5. Highlighting and bold = Exceeds TACO Tier 1 SRO



LIST OF EXHIBITS

Exhibit 1	Boring Location Map
Exhibit 2	Soil Disposal Map
Exhibit 3	Construction Worker Precaution Areas

SEE SHEET 1B



W FOSTER AVE.

RPM-SB-44

RPM-SB-43

RPM-SB-42

RPM-SB-41

RPM-SB-40

RPM-SB-39

RPM-SB-38

W LAWRENCE AVE.

W LELAND AVE.

N. BROADWAY

N. SHERIDAN RD.



GSG CONSULTANTS, INC.

855 West Adams, Suite 200
Chicago, Illinois 60607
tel: 312.733.6262 fax: 312.733.5612

DRAWN BY: IM
CHECKED BY: SL
DATE: 1/18/2017

EXHIBIT 1A - BORING LOCATION MAP
CTA RPM PE - AMENDMENT 1
LELAND AVE. TO FOSTER AVE., CHICAGO, IL



WARDMORE AVE.

RPM-SB-55

W HOLLYWOOD AVE.

RPM-SB-54

RPM-SB-53

RPM-SB-52

RPM-SB-51

RPM-SB-50

N. BROADWAY

RPM-SB-49

N. SHERIDAN RD.

RPM-SB-48

RPM-SB-47

RPM-SB-46

RPM-SB-45

SEE SHEET 1A

W FOSTER AVE.



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DATE:	1/18/2017

EXHIBIT 1B - BORING LOCATION MAP
CTA RPM PE - AMENDMENT 1
FOSTER AVE. TO ARDMORE AVE., CHICAGO, IL

SEE SHEET 2B



W FOSTER AVE.

RPM-SB-25

RPM-SB-44
0-8' SUBTITLE D
8-15' CCDD

RPM-SB-24

RPM-SB-43
0-7' SUBTITLE D
7-15' CCDD

RPM-SB-42
0-7' SUBTITLE D
7-15' CCDD

RPM-SB-22

RPM-SB-41
0-8' SUBTITLE D
8-15' CCDD

N. BROADWAY

N. SHERIDAN RD.

RPM-SB-20

RPM-SB-40
0-15' CCDD

RPM-SB-39
0-6' SUBTITLE D
6-15' CCDD

RPM-SB-17

W LAWRENCE AVE.

RPM-SB-38
0-7' SUBTITLE D
7-15' CCDD

Legend

- Boring Locations
- Previous Borings (GSG PSI 2015)

RPM-SB-15

W LELAND AVE.



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IM

CHECKED BY:
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DATE:
1/18/2017

EXHIBIT 2A - SOIL DISPOSAL MAP
CTA RPM PE - AMENDMENT 1
LELAND AVE. TO FOSTER AVE., CHICAGO, IL



RPM-SB-37

WARDMORE AVE.

RPM-SB-55
0-15' CCDD

W HOLLYWOOD AVE.

RPM-SB-35

RPM-SB-54
0-6' SUBTITLE D
6-15' CCDD

RPM-SB-53
0-15' CCDD

RPM-SB-33

RPM-SB-52
0-7' SUBTITLE D
7-15' CCDD

RPM-SB-51
0-7' SUBTITLE D
7-15' CCDD

RPM-SB-31

RPM-SB-50
0-7' SUBTITLE D
7-15' CCDD

N BROADWAY

RPM-SB-49
0-7' SUBTITLE D
7-15' CCDD

N SHERIDAN RD.

RPM-SB-29

RPM-SB-48
0-15' CCDD

RPM-SB-47
0-6' SUBTITLE D
6-15' CCDD

RPM-SB-27

RPM-SB-46
0-8' SUBTITLE D
8-15' CCDD

RPM-SB-45
0-7' SUBTITLE D
7-15' CCDD

Legend

- Boring Locations
- Previous Borings (GSG PSI 2015)

SEE SHEET 2A

RPM-SB-25

W FOSTER AVE.



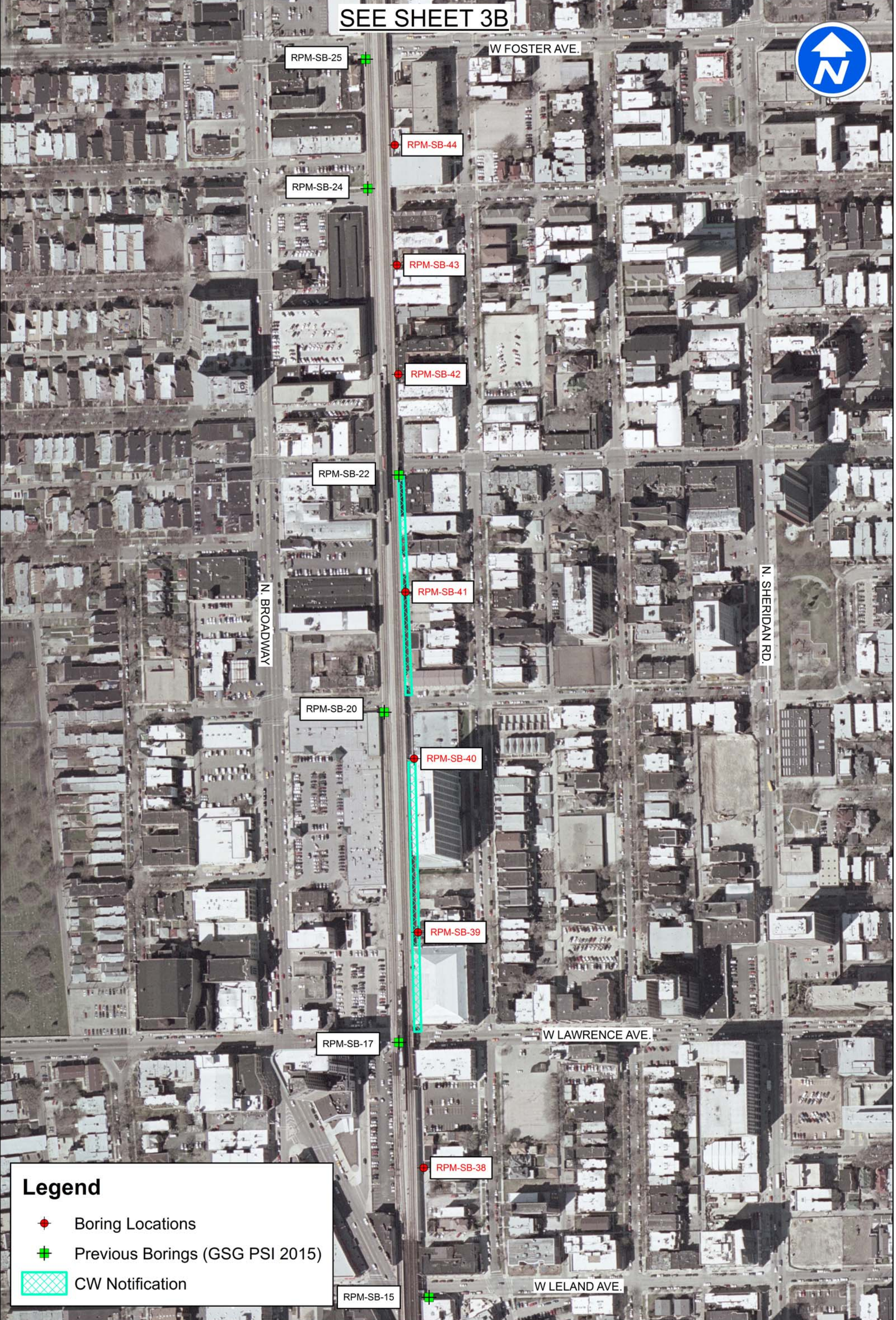
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CHECKED BY:	SL
DATE:	1/18/2017

EXHIBIT 2B - SOIL DISPOSAL MAP
CTA RPM PE - AMENDMENT 1
FOSTER AVE. TO ARDMORE AVE., CHICAGO, IL

SEE SHEET 3B



Legend

-  Boring Locations
-  Previous Borings (GSG PSI 2015)
-  CW Notification



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**EXHIBIT 3A - CONSTRUCTION WORKER
PRECAUTION AREAS
CTA RPM PE - AMENDMENT 1
LELAND AVE. TO FOSTER AVE., CHICAGO, IL**



RPM-SB-37

WARDMORE AVE.

RPM-SB-55

W HOLLYWOOD AVE.

RPM-SB-35

RPM-SB-54

RPM-SB-53

RPM-SB-33

RPM-SB-52

RPM-SB-51

RPM-SB-31

RPM-SB-50

N BROADWAY

RPM-SB-49

N SHERIDAN RD.

RPM-SB-29

RPM-SB-48

RPM-SB-47

RPM-SB-27

RPM-SB-46

Legend

- Boring Locations
- Previous Borings (GSG PSI 2015)
- CW Notification

SEE SHEET 3A

RPM-SB-25

W FOSTER AVE.



GSG CONSULTANTS, INC.

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DATE:	1/18/2017

EXHIBIT 3B - CONSTRUCTION WORKER PRECAUTION AREAS
CTA RPM PE - AMENDMENT 1
FOSTER AVE. TO ARDMORE AVE., CHICAGO, IL

APPENDICES

Appendix A Sampling Plan

Appendix B Boring Logs

Appendix C Laboratory Analytical Data Reports

APPENDIX A

Sampling Plan

	Soil Boring	Cross Street	Recognized Environmental Concern	Notes	Total # of samples	TCL (10)	VOC (54)	PNAs (54)	RCRA Metals (54)	TAL Metals (54)	PCBs (54)	Pesticides (18)	TCLP/SPLP RCRA Metals (18)	sample 1-5 feet	sample 5-10	sample 10-15 feet
1	RPM-SB-38	East Alley	Amendment #1 Supplemental	Boring located in alley east of SB-16	3	1	2	2	1	1	2	1	1	TCL	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's, PNA's, RCRA Metals, PCBs
2	RPM-SB-39	East Alley between Lawrence and Ainsile	Amendment #1 Supplemental	Boring located in alley east of SB-18	3		3	3	1	2	3	1	1	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's PNA's ,TAL Metals, PCBs	VOC's, PNA's, RCRA Metals, PCBs
3	RPM-SB-40	East Alley between Lawrence and Ainsile	Amendment #1 Supplemental	Boring located in alley east of SB-19	3	1	2	2	1	1	2	1	1	VOC's PNA's ,TAL Metals, PCBs, Pesticides	TCL	VOC's, PNA's, RCRA Metals, PCBs
4	RPM-SB-41	East Alley between Ainsile and Argyle	Amendment #1 Supplemental	Boring located in alley east of SB-21	3		3	3	1	2	3	1	1	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's PNA's ,TAL Metals, PCBs	VOC's, PNA's, RCRA Metals, PCBs
5	RPM-SB-42	East Alley between Argyle and Winona	Amendment #1 Supplemental	Boring located in alley south and east of SB-23	3	1	2	2	1	1	2	1	1	TCL	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's, PNA's, RCRA Metals, PCBs
6	RPM-SB-43	East Alley between Argyle and Winona	Amendment #1 Supplemental	Boring located in alley south and east of SB-24	3	1	2	2	1	1	2	1	1	TCL	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's, PNA's, RCRA Metals, PCBs
7	RPM-SB-44	East Alley between Winona and Foster	Amendment #1 Supplemental	Boring located in alley north and east of SB-24	3	1	2	2	1	1	2	1	1	VOC's PNA's ,TAL Metals, PCBs, Pesticides	TCL	VOC's, PNA's, RCRA Metals, PCBs
8	RPM-SB-45	East Alley between Foster and Berwyn	Amendment #1 Supplemental	Boring located in alley east of SB-26	3		3	3	1	2	3	1	1	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's, PNA's, RCRA Metals, PCBs
9	RPM-SB-46	West Alley between Foster and Berwyn	Amendment #1 Supplemental	Boring located in alley south of SB-27	3	1	2	2	1	1	2	1	1	TCL	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's, PNA's, RCRA Metals, PCBs
10	RPM-SB-47	East Alley between Berwyn and Balmoral	Amendment #1 Supplemental	Boring located in alley east of SB-28	3		3	3	1	2	3	1	1	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's, PNA's, RCRA Metals, PCBs
11	RPM-SB-48	East Alley between Berwyn and Balmoral	Amendment #1 Supplemental	Boring located in alley south and east of SB-29	3	1	2	2	1	1	2	1	1	VOC's PNA's ,TAL Metals, PCBs, Pesticides	TCL	VOC's, PNA's, RCRA Metals, PCBs
12	RPM-SB-49	East Alley between Balmoral and Catalpa	Amendment #1 Supplemental	Boring located in alley north and east of SB-29	3		3	3	1	2	3	2	1	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's, PNA's, RCRA Metals, PCBs
13	RPM-SB-50	East Alley between Balmoral and Catalpa	Amendment #1 Supplemental	Boring located in alley north and east of SB-30	3	1	2	2	1	1	2	1	1	TCL	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's, PNA's, RCRA Metals, PCBs
14	RPM-SB-51	East Alley between Balmoral and Catalpa	Amendment #1 Supplemental	Boring located in alley north and east of SB-30	3		3	3	1	2	3	1	1	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's, PNA's, RCRA Metals, PCBs
15	RPM-SB-52	East Alley between Catalpa and Bryn Mawr	Amendment #1 Supplemental	Boring located in alley north and east of SB-32	3	1	2	2	1	1	2	1	1	VOC's PNA's ,TAL Metals, PCBs, Pesticides	TCL	VOC's, PNA's, RCRA Metals, PCBs
16	RPM-SB-53	East Alley between Bryn Mawr and Hollywood	Amendment #1 Supplemental	Boring located in alley north and east of SB-33	3		3	3	1	2	3	1	1	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's, PNA's, RCRA Metals, PCBs
17	RPM-SB-54	East Alley between Bryn Mawr and Hollywood	Amendment #1 Supplemental	Boring located in alley south and east of SB-35	3		3	3	1	2	3	1	1	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's, PNA's, RCRA Metals, PCBs
18	RPM-SB-55	East Alley between Hollywood and Ardmore	Amendment #1 Supplemental	Boring located in alley east of SB-36	3	1	2	2	1	1	2	1	1	TCL	VOC's PNA's ,TAL Metals, PCBs, Pesticides	VOC's, PNA's, RCRA Metals, PCBs
Project limits (south to north): Belmont Avenue to Cornelia Avenue, Leland Avenue to Ardmore Avenue					54	10	44	44	18	26	44	19	18			

Recognized Environmental Conditions	Analysis
SQG - Small Quantity Generator	SVOCs - Semi-volatile Organic Compounds
LQG - Large Quantity Generator	PNAs - Polynuclear Aromatic Hydrocarbons
CESQG - Conditionally Exempt Small Quantity Generator	RCRA Metals - Arsenic, Barrium, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver
UST - Underground Storage Tank	VOCs - Volatile Organic Compounds
BOL - Illinois Bureau of Land site	BTEX - Benzene, Toluene, Ethylbenzene, and Xylene PCBs - Polychlorinated Biphenyls

APPENDIX B

Boring Logs



GSG Consultants Inc.
855 West Adams, Suite 200
Chicago, Illinois 60607

BORING NUMBER RPM-SB-38

CLIENT TYLIN
PROJECT NUMBER 14-1069
DATE STARTED 12/22/16 COMPLETED 12/22/16
DRILLING CONTRACTOR GSG Consultants, INC
DRILLING METHOD GeoProbe 7822 DT
LOGGED BY JJR CHECKED BY TC
NOTES N: 1931687.59 E: 1167827.51

PROJECT NAME CTA RPM Amendment 1
PROJECT LOCATION CTA Red Line Between Leland Ave and Ardmore Ave
GROUND ELEVATION 12.14 ft HOLE SIZE 2" inches
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING --- None

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0						
0.5					6" Concrete	
11.6					Gray FILL: GRAVEL	PID = 0
11.3					Black FILL: SAND, trace gravel, brick fragments	PID = 0
2.5	GB 1 MC	83	Sample RPM-SB-38-1 from (2 to 4 ft) TCL, pH 7.82			PID = 0
5.0						PID = 0
7.5	GB 2 MC	87	Sample RPM-SB-38-2 from (7 to 9 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 8.16			PID = 0
10.0						PID = 0
12.5	GB 3 MC	87	Sample RPM-SB-38-3 from (12 to 14 ft) VOCs, PNAs, RCRA Metals, PCBs, pH 8.1			PID = 0
12.0					Brown and Gray SAND, (SP), fine to medium grain	PID = 0
0.1						PID = 0
15.0						PID = 0
15.0						PID = 0
-2.9						PID = 0
Bottom of borehole at 15.0 feet.						

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/21/17 08:42 - \\GSG\FS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM AMENDMENT\1BORING LOGS\CTA RPM AMENDMENT 1.GPJ



GSG Consultants Inc.
855 West Adams, Suite 200
Chicago, Illinois 60607

BORING NUMBER RPM-SB-39

CLIENT TYLIN
 PROJECT NUMBER 14-1069
 DATE STARTED 12/21/16 COMPLETED 12/21/16
 DRILLING CONTRACTOR GSG Consultants, INC
 DRILLING METHOD GeoProbe 7822 DT
 LOGGED BY JJR CHECKED BY TC
 NOTES N: 1932320.37 E: 1167813.77

PROJECT NAME CTA RPM Amendment 1
 PROJECT LOCATION CTA Red Line Between Leland Ave and Ardmore Ave
 GROUND ELEVATION 11.24 ft HOLE SIZE 2" inches
 GROUND WATER LEVELS:
 AT TIME OF DRILLING ---
 AT END OF DRILLING ---
 AFTER DRILLING ---

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/21/17 08:43 - \\GSGFS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM AMENDMENT#1\BORING LOGS\CTA RPM AMENDMENT 1.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0					8" Concrete	
0.7					Gray FILL: GRAVEL	PID = 0
1.0					Black FILL: SAND, with cinders, brick fragments	PID = 0
2.5	GB 1 MC	83	Sample RPM-SB-39-1 from (2 to 4 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 8.82			PID = 0
4.5					Brown and Gray SAND, trace gravel (SP), fine to medium grain	PID = 0
5.0						PID = 0
7.5	GB 2 MC	80	Sample RPM-SB-39-2 from (6 to 8 ft) VOCs, PNAs, TAL Metals, PCBs, pH 8.79			PID = 0
10.0						PID = 0
12.5	MC GB 3	80	Sample RPM-SB-39-3 from (13 to 15 ft) VOCs, PNAs, RCRA Metals, PCBs, pH 8.01			PID = 0
14.0					Gray SAND, (SP), fine grain, Wet	PID = 0
15.0					Bottom of borehole at 15.0 feet.	PID = 0



GSG Consultants Inc.
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Chicago, Illinois 60607

BORING NUMBER RPM-SB-40

CLIENT TYLIN PROJECT NAME CTA RPM Amendment 1
 PROJECT NUMBER 14-1069 PROJECT LOCATION CTA Red Line Between Leland Ave and Ardmore Ave
 DATE STARTED 12/21/16 COMPLETED 12/21/16 GROUND ELEVATION 10.56 ft HOLE SIZE 2" inches
 DRILLING CONTRACTOR GSG Consultants, INC GROUND WATER LEVELS:
 DRILLING METHOD GeoProbe 7822 DT AT TIME OF DRILLING ---
 LOGGED BY JJR CHECKED BY TC AT END OF DRILLING ---
 NOTES N: 1932791.36 E: 1167792.57 AFTER DRILLING --- None

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	
0.0					3" Asphalt, 5" Concrete		
0.7					9.9	PID = 0	
1.0	GB 1		Sample RPM-SB-40-1 from (1 to 3 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.85		Gray FILL: GRAVEL	9.6	
					Black and Brown FILL: SAND, trace gravel, brick fragments		PID = 0
2.5	MC	83					PID = 0
					5.0	PID = 0	
5.0					5.6	PID = 0	
					Brown and Gray SAND, trace gravel (SP), fine to medium grain	PID = 0	
						PID = 0	
7.5	GB 2		Sample RPM-SB-40-2 from (7 to 9 ft) TCL, pH 8.18			PID = 0	
	MC	87					PID = 0
							PID = 0
						PID = 0	
10.0						PID = 0	
						PID = 0	
12.5	GB 3		Sample RPM-SB-40-3 from (12 to 14 ft) VOCs, PNAs, RCRA Metals, PCBs, pH 7.67		12.0	-1.4	
	MC	93			Gray SAND, (SP), fine to medium grain, Wet		PID = 0
							PID = 0
						PID = 0	
15.0					15.0	-4.4	
Bottom of borehole at 15.0 feet.							

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/21/17 08:43 - \\GSG\FS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM AMENDMENT#1\BORING LOGS\CTA RPM AMENDMENT 1.GPJ



GSG Consultants Inc.
855 West Adams, Suite 200
Chicago, Illinois 60607

BORING NUMBER RPM-SB-42

CLIENT TYLIN PROJECT NAME CTA RPM Amendment 1
 PROJECT NUMBER 14-1069 PROJECT LOCATION CTA Red Line Between Leland Ave and Ardmore Ave
 DATE STARTED 12/21/16 COMPLETED 12/21/16 GROUND ELEVATION 10.50 ft HOLE SIZE 2" inches
 DRILLING CONTRACTOR GSG Consultants, INC GROUND WATER LEVELS:
 DRILLING METHOD GeoProbe 7822 DT AT TIME OF DRILLING ---
 LOGGED BY JJR CHECKED BY TC AT END OF DRILLING ---
 NOTES N: 1933800.57 E: 1167764.00 AFTER DRILLING --- None

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/21/17 08:43 - \\GSG\FS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM AMENDMENT#1\BORING LOGS\CTA RPM AMENDMENT 1.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0						
0.6	GB 1		Sample RPM-SB-42-1 from (1 to 3 ft) TCL, pH 7.79		7" Concrete	
0.9		Gray FILL: GRAVEL			9.9	PID = 0
		Black FILL: SAND, trace glass, brick fragments			9.6	PID = 0
2.5	MC	80				PID = 0
4.0						PID = 0
4.0					Brown SAND, trace gravel (SP), fine to medium grain	6.5
5.0						PID = 0
7.5	GB 2 MC	87	Sample RPM-SB-42-2 from (7 to 9 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 8.12			PID = 0
7.5						PID = 0
10.0						PID = 0
12.5	GB 3 MC	83	Sample RPM-SB-42-3 from (12 to 14 ft) VOCs, PNAs, RCRA Metals, PCBs, pH 7.85			PID = 0
12.5						PID = 0
14.0						PID = 0
14.0					Gray SAND, trace gravel (SP), fine to medium grain, Wet	-3.5
15.0						PID = 0
15.0						-4.5

Bottom of borehole at 15.0 feet.



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Chicago, Illinois 60607

BORING NUMBER RPM-SB-43

CLIENT TYLIN PROJECT NAME CTA RPM Amendment 1
 PROJECT NUMBER 14-1069 PROJECT LOCATION CTA Red Line Between Leland Ave and Ardmore Ave
 DATE STARTED 12/21/16 COMPLETED 12/21/16 GROUND ELEVATION 9.64 ft HOLE SIZE 2" inches
 DRILLING CONTRACTOR GSG Consultants, INC GROUND WATER LEVELS:
 DRILLING METHOD GeoProbe 7822 DT AT TIME OF DRILLING ---
 LOGGED BY JJR CHECKED BY TC AT END OF DRILLING ---
 NOTES N: 1934100.36 E: 1167756.37 AFTER DRILLING --- None

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/21/17 08:43 - \\GSG\FS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM AMENDMENT#1\BORING LOGS\CTA RPM AMENDMENT 1.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0						
0.3					4" Concrete	9.3
0.7					Gray FILL: GRAVEL	9.0
					Black FILL: SAND, trace cinders, brick fragments	PID = 0
2.5	GB 1 MC	80	Sample RPM-SB-43-1 from (2 to 4 ft) TCL, pH 7.56			PID = 0
4.0					Brown and Gray SAND, trace gravel (SP), fine to medium grain	PID = 0
5.0						PID = 0
7.5	GB 2 MC	83	Sample RPM-SB-43-2 from (7 to 9 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.88			PID = 0
10.0						PID = 0
12.5	GB 3 MC	83	Sample RPM-SB-43-3 from (12 to 14 ft) VOCs, PNAs, RCRA Metals, PCBs, pH 7.89			PID = 0
13.0					Gray SAND, (SP), fine grain, Wet	PID = 0
15.0						PID = 0

Bottom of borehole at 15.0 feet.



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Chicago, Illinois 60607

BORING NUMBER RPM-SB-44

CLIENT TYLIN PROJECT NAME CTA RPM Amendment 1
 PROJECT NUMBER 14-1069 PROJECT LOCATION CTA Red Line Between Leland Ave and Ardmore Ave
 DATE STARTED 12/20/16 COMPLETED 12/20/16 GROUND ELEVATION 9.56 ft HOLE SIZE 2" inches
 DRILLING CONTRACTOR GSG Consultants, INC GROUND WATER LEVELS:
 DRILLING METHOD GeoProbe 7822 DT AT TIME OF DRILLING ---
 LOGGED BY JJR CHECKED BY TC AT END OF DRILLING ---
 NOTES N: 1934426.08 E: 1167753.67 AFTER DRILLING --- None

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0						
0.6					3" Asphalt, 4" Concrete	9.0
0.9	GB 1		Sample RPM-SB-44-1 from (1 to 3 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 8.68		Gray FILL: GRAVEL	8.6
					Black FILL: SAND, with cinders, brick fragments, gravel	
2.5	MC	83				
5.0						
5.0					Brown and Gray SAND, trace gravel (SP), fine to medium grain	4.6
7.5	MC	82				
8.0	GB 2		Sample RPM-SB-44-2 from (8 to 10 ft) TCL, pH 8.74			
10.0						
10.0	GB 3		Sample RPM-SB-44-3 from (11 to 13 ft) VOCs, PNAs, RCRA Metals, PCBs, pH 8.1			
12.0						
12.5	MC	83			Gray SAND, (SP), fine grain, Wet	-2.4
15.0						
15.0						-5.4
Bottom of borehole at 15.0 feet.						

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/21/17 08:43 - \\GSG\FS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM AMENDMENT#1\BORING LOGS\CTA RPM AMENDMENT 1.GPJ



GSG Consultants Inc.
855 West Adams, Suite 200
Chicago, Illinois 60607

BORING NUMBER RPM-SB-45

CLIENT TYLIN PROJECT NAME CTA RPM Amendment 1
 PROJECT NUMBER 14-1069 PROJECT LOCATION CTA Red Line Between Leland Ave and Ardmore Ave
 DATE STARTED 12/20/16 COMPLETED 12/20/16 GROUND ELEVATION 7.68 ft HOLE SIZE 2" inches
 DRILLING CONTRACTOR GSG Consultants, INC GROUND WATER LEVELS:
 DRILLING METHOD GeoProbe 7822 DT AT TIME OF DRILLING ---
 LOGGED BY JJR CHECKED BY TC AT END OF DRILLING ---
 NOTES N: 1934928.06 E: 1167732.56 AFTER DRILLING --- None

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0					3" Asphalt, 5" Concrete	
0.7					Gray FILL: GRAVEL	PID = 0
1.0					Black FILL: SAND, with cinders, brick fragments	PID = 0
2.5	GB 1 MC	87	Sample RPM-SB-45-1 from (2 to 4 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.91			PID = 0
4.0					Brown and Gray SAND, trace gravel (SP), fine to medium grain	PID = 0
7.5	GB 2 MC	80	Sample RPM-SB-45-2 from (7 to 9 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.7			PID = 0
10.0						PID = 0
12.5	GB 3 MC	100	Sample RPM-SB-45-3 from (12 to 14 ft) VOCs, PNAs, RCRA Metals, PCBs, pH 7.72			PID = 0
13.0					Gray SAND, (SP), fine grain, Wet	PID = 0
15.0					Bottom of borehole at 15.0 feet.	PID = 0

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/21/17 08:43 - \\GSG\FS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM AMENDMENT\1BORING LOGS\CTA RPM AMENDMENT 1.GPJ



GSG Consultants Inc.
855 West Adams, Suite 200
Chicago, Illinois 60607

BORING NUMBER RPM-SB-46

CLIENT TYLIN PROJECT NAME CTA RPM Amendment 1
 PROJECT NUMBER 14-1069 PROJECT LOCATION CTA Red Line Between Leland Ave and Ardmore Ave
 DATE STARTED 12/20/16 COMPLETED 12/20/16 GROUND ELEVATION 8.96 ft HOLE SIZE 2" inches
 DRILLING CONTRACTOR GSG Consultants, INC GROUND WATER LEVELS:
 DRILLING METHOD GeoProbe 7822 DT AT TIME OF DRILLING ---
 LOGGED BY JJR CHECKED BY TC AT END OF DRILLING ---
 NOTES N: 1935225.59 E: 1167656.01 AFTER DRILLING --- None

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0						
0.6					3" Asphalt, 4" Concrete	
0.9	GB 1		Sample RPM-SB-46-1 from (1 to 3 ft) TCL, pH 8.66		Gray FILL: GRAVEL	PID = 0
0.9		Black FILL: SAND, with cinders, brick fragments, trace gravel			PID = 0	
2.5	MC	80			PID = 0	
4.0					Brown and Gray SAND, trace gravel (SP), fine to medium grain	PID = 0
7.5	MC GB 2	80	Sample RPM-SB-46-2 from (8 to 10 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.85			PID = 0
10.0						PID = 0
12.5	GB 3 MC	87	Sample RPM-SB-46-3 from (12 to 14 ft) VOCs, PNAs, RCRA Metals, PCBs, pH 7.8			PID = 0
13.0					Gray SAND, (SP), fine grain, Wet	PID = 0
15.0						PID = 0
Bottom of borehole at 15.0 feet.						

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/21/17 08:43 - \\GSG\FS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM AMENDMENT#1\BORING LOGS\CTA RPM AMENDMENT 1.GPJ






GSG Consultants Inc.
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BORING NUMBER RPM-SB-47

CLIENT TYLIN PROJECT NAME CTA RPM Amendment 1
 PROJECT NUMBER 14-1069 PROJECT LOCATION CTA Red Line Between Leland Ave and Ardmore Ave
 DATE STARTED 12/20/16 COMPLETED 12/20/16 GROUND ELEVATION 9.11 ft HOLE SIZE 2" inches
 DRILLING CONTRACTOR GSG Consultants, INC GROUND WATER LEVELS:
 DRILLING METHOD GeoProbe 7822 DT AT TIME OF DRILLING ---
 LOGGED BY JJR CHECKED BY TC AT END OF DRILLING ---
 NOTES N: 1935570.90 E: 1167726.43 AFTER DRILLING --- None

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/21/17 08:43 - \\GSG\FS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM AMENDMENT#1\BORING LOGS\CTA RPM AMENDMENT 1.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0					6" Asphalt	
0.5					8.6	
2.5	GB 1 MC	83	Sample RPM-SB-47-1 from (2 to 4 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.83		Black FILL: SAND, trace cinders, brick fragments	PID = 0
4.5					4.6	
5.0					Brown and Gray SAND, trace gravel (SP), fine to medium grain	PID = 0
7.5	GB 2 MC	80	Sample RPM-SB-47-2 from (6 to 8 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.8			PID = 0
10.0						PID = 0
12.5	GB 3 MC	87	Sample RPM-SB-47-3 from (12 to 14 ft) VOCs, PNAs, RCRA Metals, PCBs, pH 7.86			PID = 0
13.0					-3.9	
					Gray SAND, (SP), fine grain, Wet	PID = 0
15.0					-5.9	
					Bottom of borehole at 15.0 feet.	



GSG Consultants Inc.
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BORING NUMBER RPM-SB-48

CLIENT TYLIN PROJECT NAME CTA RPM Amendment 1
 PROJECT NUMBER 14-1069 PROJECT LOCATION CTA Red Line Between Leland Ave and Ardmore Ave
 DATE STARTED 12/20/16 COMPLETED 12/20/16 GROUND ELEVATION 9.18 ft HOLE SIZE 2" inches
 DRILLING CONTRACTOR GSG Consultants, INC GROUND WATER LEVELS:
 DRILLING METHOD GeoProbe 7822 DT AT TIME OF DRILLING ---
 LOGGED BY JJR CHECKED BY TC AT END OF DRILLING ---
 NOTES N: 1935947.01 E: 1167704.49 AFTER DRILLING --- None

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0						
0.5					6" Asphalt	
2.5	GB 1 MC	83	Sample RPM-SB-48-1 from (2 to 4 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.79		Black FILL: SAND, with gravel, cinders	PID = 0
4.0						PID = 0
5.2					Brown and Gray SAND, trace gravel (SP), fine to medium grain	PID = 0
7.5	GB 2 MC	83	Sample RPM-SB-48-2 from (7 to 9 ft) TCL, pH 8.2			PID = 0
10.0						PID = 0
12.0						PID = 0
12.5	MC GB 3	93	Sample RPM-SB-48-3 from (13 to 15 ft) VOCs, PNAs, RCRA Metals, PCBs, pH 8.1		Gray SAND, (SP), fine grain, Wet	PID = 0
15.0						PID = 0
15.0					Bottom of borehole at 15.0 feet.	

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/21/17 08:43 - \\GSG\FS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM AMENDMENT#1\BORING LOGS\CTA RPM AMENDMENT 1.GPJ



GSG Consultants Inc.
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BORING NUMBER RPM-SB-49

CLIENT TYLIN PROJECT NAME CTA RPM Amendment 1
 PROJECT NUMBER 14-1069 PROJECT LOCATION CTA Red Line Between Leland Ave and Ardmore Ave
 DATE STARTED 12/19/16 COMPLETED 12/19/16 GROUND ELEVATION 7.49 ft HOLE SIZE 2" inches
 DRILLING CONTRACTOR GSG Consultants, INC GROUND WATER LEVELS:
 DRILLING METHOD GeoProbe 7822 DT AT TIME OF DRILLING ---
 LOGGED BY JJR CHECKED BY TC AT END OF DRILLING ---
 NOTES N: 1936207.21 E: 1167696.90 AFTER DRILLING --- None

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0						
0.5					6" Concrete	
1.0					Gray FILL: GRAVEL	PID = 0
1.5					Black and Brown FILL: SAND, with cinders, brick fragments	PID = 0
2.5	GB 1 MC	80	Sample RPM-SB-49-1 from (2 to 4 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.78			PID = 0
4.0					Brown and Gray SAND, trace gravel (SP), fine to medium grain, Moist to Wet	PID = 0
7.5	GB 2 MC	80	Sample RPM-SB-49-2 from (7 to 9 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.88			PID = 0
12.0	GB 3 MC	83	Sample RPM-SB-49-3 from (12 to 14 ft) VOCs, PNAs, RCRA Metals, PCBs, pH 7.52		Gray SAND, (SP), fine grain, Wet	PID = 0
15.0					Bottom of borehole at 15.0 feet.	PID = 0

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/21/17 08:43 - \\GSGFS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM AMENDMENT#1\BORING LOGS\CTA RPM AMENDMENT 1.GPJ



GSG Consultants Inc.
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BORING NUMBER RPM-SB-50

CLIENT TYLIN **PROJECT NAME** CTA RPM Amendment 1
PROJECT NUMBER 14-1069 **PROJECT LOCATION** CTA Red Line Between Leland Ave and Ardmore Ave
DATE STARTED 12/19/16 **COMPLETED** 12/19/16 **GROUND ELEVATION** 8.49 ft **HOLE SIZE** 2" inches
DRILLING CONTRACTOR GSG Consultants, INC **GROUND WATER LEVELS:**
DRILLING METHOD GeoProbe 7822 DT **AT TIME OF DRILLING** ---
LOGGED BY JJR **CHECKED BY** TC **AT END OF DRILLING** ---
NOTES N: 1936489.75 E: 1167697.44 **AFTER DRILLING** --- None

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0						
0.5					6" Concrete	
0.5					8.0	
1.0					Gray FILL: GRAVEL	PID = 0
1.0					7.5	
2.5	GB 1 MC	80	Sample RPM-SB-50-1 from (2 to 4 ft) TCL, pH 7.47		Black and Brown FILL: SAND, with cinders, brick fragments	PID = 0
2.5						PID = 0
2.5						PID = 0
4.0					4.5	
4.0					Brown and Gray SAND, trace gravel (SP), fine to medium grain, Moist to Wet	PID = 0
5.0						PID = 0
7.5	GB 2 MC	83	Sample RPM-SB-50-2 from (7 to 9 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.71			PID = 0
7.5						PID = 0
7.5						PID = 0
10.0						PID = 0
10.0						PID = 0
12.5	GB 3 MC	83	Sample RPM-SB-50-3 from (12 to 14 ft) VOCs, PNAs, RCRA Metals, PCBs, pH 7.52			PID = 0
12.5						PID = 0
12.5						PID = 0
13.0					-4.5	
13.0					Gray SAND, (SP), fine grain, Wet	PID = 0
15.0						PID = 0
15.0						PID = 0
Bottom of borehole at 15.0 feet.						

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/21/17 08:43 - \\GSG\FS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM AMENDMENT#1\BORING LOGS\CTA RPM AMENDMENT 1.GPJ



GSG Consultants Inc.
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BORING NUMBER RPM-SB-51

CLIENT TYLIN PROJECT NAME CTA RPM Amendment 1
 PROJECT NUMBER 14-1069 PROJECT LOCATION CTA Red Line Between Leland Ave and Ardmore Ave
 DATE STARTED 12/19/16 COMPLETED 12/19/16 GROUND ELEVATION 7.47 ft HOLE SIZE 2" inches
 DRILLING CONTRACTOR GSG Consultants, INC GROUND WATER LEVELS:
 DRILLING METHOD GeoProbe 7822 DT AT TIME OF DRILLING ---
 LOGGED BY JJR CHECKED BY TC AT END OF DRILLING ---
 NOTES N: 1936927.65 E: 1167678.77 AFTER DRILLING --- None

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0						
0.5					6" Concrete	
1.0					Gray FILL: GRAVEL	PID = 0
1.5					Black and Brown FILL: SAND, with cinders, brick fragments, trace concrete fragments	PID = 0
2.5	GB 1 MC	83	Sample RPM-SB-51-1 from (2 to 4 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.41			PID = 0
4.0					Brown and Gray SAND, trace gravel (SP), fine to medium grain, Moist to Wet	PID = 0
7.5	GB 2 MC	80	Sample RPM-SB-51-2 from (7 to 9 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.57			PID = 0
10.0					Gray SAND, (SP), fine to medium grain, Wet	PID = 0
12.5	MC GB 3	100	Sample RPM-SB-51-3 from (13 to 15 ft) VOCs, PNAs, RCRA Metals, PCBs, pH 7.82			PID = 0
15.0					Bottom of borehole at 15.0 feet.	PID = 0

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/21/17 08:43 - \\GSG\FS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM AMENDMENT\1BORING LOGS\CTA RPM AMENDMENT 1.GPJ



GSG Consultants Inc.
855 West Adams, Suite 200
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BORING NUMBER RPM-SB-52

CLIENT <u>TYLIN</u> PROJECT NUMBER <u>14-1069</u> DATE STARTED <u>12/19/16</u> COMPLETED <u>12/19/16</u> DRILLING CONTRACTOR <u>GSG Consultants, INC</u> DRILLING METHOD <u>GeoProbe 7822 DT</u> LOGGED BY <u>JJR</u> CHECKED BY <u>TC</u> NOTES N: 1937126.95 E: 1167673.93	PROJECT NAME <u>CTA RPM Amendment 1</u> PROJECT LOCATION <u>CTA Red Line Between Leland Ave and Ardmore Ave</u> GROUND ELEVATION <u>9.07 ft</u> HOLE SIZE <u>2" inches</u> GROUND WATER LEVELS: AT TIME OF DRILLING <u>---</u> AT END OF DRILLING <u>---</u> AFTER DRILLING <u>--- None</u>
---	---

	DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	
	0.0							
	0.5				[Cross-hatched pattern]	6" Concrete	8.6	
	1.0				[Cross-hatched pattern]	Gray FILL: GRAVEL	8.1	
	2.5	GB 1 MC	80	Sample RPM-SB-52-1 from (2 to 4 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.49	[Cross-hatched pattern]	Black and Brown FILL: SAND, with cinders, brick fragments, some clay	PID = 0	
								PID = 0
								PID = 0
								PID = 0
								PID = 0
	5.0				[Dotted pattern]	5.0	4.1	
	7.5	GB 2 MC	83	Sample RPM-SB-52-2 from (7 to 9 ft) TCL, pH 8.31	[Dotted pattern]	Brown and Gray SAND, trace gravel (SP), fine to medium grain, Moist to Wet	PID = 0	
								PID = 0
								PID = 0
								PID = 0
								PID = 0
								PID = 0
								PID = 0
	10.0				[Dotted pattern]			
	12.5	GB 3 MC	83	Sample RPM-SB-52-3 from (12 to 14 ft) VOCs, PNAs, RCRA Metals, PCBs, pH 8.04	[Dotted pattern]		PID = 0	
								PID = 0
								PID = 0
								PID = 0
	15.0				[Dotted pattern]	15.0	-5.9	
Bottom of borehole at 15.0 feet.								

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/21/17 08:43 - \\GSG\FS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM AMENDMENT#1\BORING LOGS\CTA RPM AMENDMENT 1.GPJ



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BORING NUMBER RPM-SB-53

CLIENT TYLIN PROJECT NAME CTA RPM Amendment 1
 PROJECT NUMBER 14-1069 PROJECT LOCATION CTA Red Line Between Leland Ave and Ardmore Ave
 DATE STARTED 12/16/16 COMPLETED 12/16/16 GROUND ELEVATION 7.80 ft HOLE SIZE 2" inches
 DRILLING CONTRACTOR GSG Consultants, INC GROUND WATER LEVELS:
 DRILLING METHOD GeoProbe 7822 DT AT TIME OF DRILLING ---
 LOGGED BY TC CHECKED BY JJR AT END OF DRILLING ---
 NOTES N: 1937537.55 E: 1167659.28 AFTER DRILLING --- None

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0					2" Asphalt, 6" Concrete	
0.7					0.7 7.1	PID = 0
1.0	GB 1		Sample RPM-SB-53-1 from (1 to 3 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 8.09		Gray FILL: GRAVEL	6.8
					Black FILL: SILTY CLAY, with gravel	
2.5	MC	70				PID = 0
5.0						PID = 0
7.5	GB 2		Sample RPM-SB-53-2 from (7 to 9 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.62		6.0 1.8	PID = 0
	MC	70			Brown SAND, trace gravel (SP), fine to medium grain, Moist	
10.0					10.0 -2.2	PID = 0
	GB 3		Sample RPM-SB-53-3 from (12 to 14 ft) VOCs, PNAs, RCRA Metals, PCBs, pH 8.2		Gray SAND, trace gravel (SP), fine to medium grain, Moist	
12.5	MC	63				
15.0					15.0 -7.2	PID = 0
Bottom of borehole at 15.0 feet.						

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/21/17 08:44 - \\GSG\FS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM AMENDMENT#1\BORING LOGS\CTA RPM AMENDMENT 1.GPJ



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BORING NUMBER RPM-SB-54

PAGE 1 OF 1

CLIENT TYLIN
PROJECT NUMBER 14-1069
DATE STARTED 12/16/16 **COMPLETED** 12/16/16
DRILLING CONTRACTOR GSG Consultants, INC
DRILLING METHOD GeoProbe 7822 DT
LOGGED BY TC **CHECKED BY** JJR
NOTES N: 1937806.07 E: 1167651.73

PROJECT NAME CTA RPM Amendment 1
PROJECT LOCATION CTA Red Line Between Leland Ave and Ardmore Ave
GROUND ELEVATION 7.70 ft **HOLE SIZE** 2" inches
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING --- None

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/21/17 08:44 - \\GSGFS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM AMENDMENT#1\BORING LOGS\CTA RPM AMENDMENT 1.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0						
0.5					6" Concrete	
1.0	GB 1		Sample RPM-SB-54-1 from (1 to 3 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.3		Gray FILL: GRAVEL	PID = 0
1.0					Black FILL: SAND, with silt and gravel, Moist	PID = 0
2.5	MC	90				PID = 0
6.0	GB 2		Sample RPM-SB-54-2 from (6 to 8 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.73		Brown SAND, trace gravel (SP), fine to medium grain, Moist	PID = 0
7.5	MC	73				PID = 0
9.0					Gray SAND, trace gravel (SP), fine to medium grain, Moist	PID = 0
10.0	GB 3		Sample RPM-SB-54-3 from (10 to 12 ft) VOCs, PNAs, RCRA Metals, PCBs, pH 7.96			PID = 0
12.5	MC	70				PID = 0
15.0						PID = 0

Bottom of borehole at 15.0 feet.



GSG Consultants Inc.
855 West Adams, Suite 200
Chicago, Illinois 60607

BORING NUMBER RPM-SB-55

CLIENT <u>TYLIN</u>	PROJECT NAME <u>CTA RPM Amendment 1</u>
PROJECT NUMBER <u>14-1069</u>	PROJECT LOCATION <u>CTA Red Line Between Leland Ave and Ardmore Ave</u>
DATE STARTED <u>12/16/16</u> COMPLETED <u>12/16/16</u>	GROUND ELEVATION <u>9.65 ft</u> HOLE SIZE <u>2" inches</u>
DRILLING CONTRACTOR <u>GSG Consultants, INC</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>GeoProbe 7822 DT</u>	AT TIME OF DRILLING <u>---</u>
LOGGED BY <u>TC</u> CHECKED BY <u>JJR</u>	AT END OF DRILLING <u>---</u>
NOTES <u>N: 1938324.93 E: 1167641.11</u>	AFTER DRILLING <u>--- None</u>

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 2/21/17 08:44 - \\GSG\FS02\PROJECTS - ENGINEERING\TYLIN\CTA RPM AMENDMENT#1\BORING LOGS\CTA RPM AMENDMENT 1.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0						
0.5					6" Concrete	
0.5					Gray FILL: GRAVEL	9.2
1.0					Black FILL: SAND, with silt and gravel, Moist	8.7
1.0	GB 1		Sample RPM-SB-55-1 from (1 to 3 ft) TCL, pH 7.35			PID = 0
2.5	MC	73				PID = 0
5.0						PID = 0
5.0						
6.0					Brown SAND, trace gravel (SP), fine to medium grain, Moist	3.7
6.0	GB 2		Sample RPM-SB-55-2 from (7 to 9 ft) VOCs, PNAs, TAL Metals, PCBs, Pesticides, pH 7.66			PID = 0
7.5	MC	80				PID = 0
10.0						PID = 0
10.0						
12.5	GB 3		Sample RPM-SB-55-3 from (12 to 14 ft) VOCs, PNAs, RCRA Metals, PCBs, pH 7.83			PID = 0
12.5	MC	100				PID = 0
14.0						PID = 0
14.0					Gray SAND, trace gravel (SP), fine to medium grain, Moist	-4.4
14.0						PID = 0
15.0						
15.0						PID = 0
15.0						PID = 0

Bottom of borehole at 15.0 feet.

APPENDIX C

Laboratory Analytical Data Reports

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

January 04, 2017

GSG Consultants, Inc.
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Chicago, IL 60607

Telephone: (312) 733-6262
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Analytical Report for STAT Work Order: 16120531 Revision 0

RE: CTA RPM, Edgewater

Dear Scott Letzel:

STAT Analysis received 8 samples for the referenced project on 12/16/2016 4:00:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: GSG Consultants, Inc.
Project: CTA RPM, Edgewater
Work Order: 16120531 Revision 0

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
16120531-001A	RPM-SB-53-1		12/16/2016 12:05:00 PM	12/16/2016
16120531-001B	RPM-SB-53-1		12/16/2016 12:05:00 PM	12/16/2016
16120531-002A	RPM-SB-53-2		12/16/2016 12:20:00 PM	12/16/2016
16120531-002B	RPM-SB-53-2		12/16/2016 12:20:00 PM	12/16/2016
16120531-003A	RPM-SB-54-1		12/16/2016 11:05:00 AM	12/16/2016
16120531-003B	RPM-SB-54-1		12/16/2016 11:05:00 AM	12/16/2016
16120531-004A	RPM-SB-54-2		12/16/2016 10:20:00 AM	12/16/2016
16120531-004B	RPM-SB-54-2		12/16/2016 10:20:00 AM	12/16/2016
16120531-005A	RPM-SB-54-3		12/16/2016 11:10:00 AM	12/16/2016
16120531-005B	RPM-SB-54-3		12/16/2016 11:10:00 AM	12/16/2016
16120531-006A	RPM-SB-55-1		12/16/2016 9:15:00 AM	12/16/2016
16120531-006B	RPM-SB-55-1		12/16/2016 9:15:00 AM	12/16/2016
16120531-007A	RPM-SB-55-2		12/16/2016 9:25:00 AM	12/16/2016
16120531-007B	RPM-SB-55-2		12/16/2016 9:25:00 AM	12/16/2016
16120531-008A	RPM-SB-55-3		12/16/2016 9:30:00 AM	12/16/2016
16120531-008B	RPM-SB-55-3		12/16/2016 9:30:00 AM	12/16/2016

CLIENT: GSG Consultants, Inc.
Project: CTA RPM, Edgewater
Work Order: 16120531 Revision 0

CASE NARRATIVE

The metals Laboratory Control Sample (LCS) (preparation batch 97541) had recovery outside of control limits for Antimony (140% recovery, QC Limits 80-120%).

The Low Level Initial Calibration Verification (LLICV) was outside control limits for Silver: 134% recovery (QC Limits 70-130%)

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120531 Revision 0
 Project: CTA RPM, Edgewater
 Lab ID: 16120531-001

Client Sample ID: RPM-SB-53-1
 Collection Date: 12/16/2016 12:05:00 PM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/16/2016		Analyst: PS
Acetone	ND	0.11		mg/Kg-dry	1	12/21/2016
Benzene	ND	0.0071		mg/Kg-dry	1	12/21/2016
Bromodichloromethane	ND	0.0071		mg/Kg-dry	1	12/21/2016
Bromoform	ND	0.0071		mg/Kg-dry	1	12/21/2016
Bromomethane	ND	0.014		mg/Kg-dry	1	12/21/2016
2-Butanone	ND	0.11		mg/Kg-dry	1	12/21/2016
Carbon disulfide	ND	0.071		mg/Kg-dry	1	12/21/2016
Carbon tetrachloride	ND	0.0071		mg/Kg-dry	1	12/21/2016
Chlorobenzene	ND	0.0071		mg/Kg-dry	1	12/21/2016
Chloroethane	ND	0.014		mg/Kg-dry	1	12/21/2016
Chloroform	ND	0.0071		mg/Kg-dry	1	12/21/2016
Chloromethane	ND	0.014		mg/Kg-dry	1	12/21/2016
Dibromochloromethane	ND	0.0071		mg/Kg-dry	1	12/21/2016
1,1-Dichloroethane	ND	0.0071		mg/Kg-dry	1	12/21/2016
1,2-Dichloroethane	ND	0.0071		mg/Kg-dry	1	12/21/2016
1,1-Dichloroethene	ND	0.0071		mg/Kg-dry	1	12/21/2016
cis-1,2-Dichloroethene	ND	0.0071		mg/Kg-dry	1	12/21/2016
trans-1,2-Dichloroethene	ND	0.0071		mg/Kg-dry	1	12/21/2016
1,2-Dichloropropane	ND	0.0071		mg/Kg-dry	1	12/21/2016
cis-1,3-Dichloropropene	ND	0.0028		mg/Kg-dry	1	12/21/2016
trans-1,3-Dichloropropene	ND	0.0028		mg/Kg-dry	1	12/21/2016
Ethylbenzene	ND	0.0071		mg/Kg-dry	1	12/21/2016
2-Hexanone	ND	0.028		mg/Kg-dry	1	12/21/2016
4-Methyl-2-pentanone	ND	0.028		mg/Kg-dry	1	12/21/2016
Methylene chloride	ND	0.014		mg/Kg-dry	1	12/21/2016
Methyl tert-butyl ether	ND	0.0071		mg/Kg-dry	1	12/21/2016
Styrene	ND	0.0071		mg/Kg-dry	1	12/21/2016
1,1,2,2-Tetrachloroethane	ND	0.0071		mg/Kg-dry	1	12/21/2016
Tetrachloroethene	ND	0.0071		mg/Kg-dry	1	12/21/2016
Toluene	ND	0.0071		mg/Kg-dry	1	12/21/2016
1,1,1-Trichloroethane	ND	0.0071		mg/Kg-dry	1	12/21/2016
1,1,2-Trichloroethane	ND	0.0071		mg/Kg-dry	1	12/21/2016
Trichloroethene	ND	0.0071		mg/Kg-dry	1	12/21/2016
Vinyl chloride	ND	0.0071		mg/Kg-dry	1	12/21/2016
Xylenes, Total	ND	0.021		mg/Kg-dry	1	12/21/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/20/2016		Analyst: ERP
Acenaphthene	ND	0.037		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.037		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-001

Client Sample ID: RPM-SB-53-1
Collection Date: 12/16/2016 12:05:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS SW8270C (SW3550B) Prep Date: 12/20/2016 Analyst: ERP						
Anthracene	ND	0.037		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	0.14	0.037		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	0.19	0.037		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	0.16	0.037		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	0.093	0.037		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	0.11	0.037		mg/Kg-dry	1	12/21/2016
Chrysene	0.20	0.037		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	12/21/2016
Fluoranthene	0.24	0.037		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.037		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	0.070	0.037		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.037		mg/Kg-dry	1	12/21/2016
Phenanthrene	0.15	0.074		mg/Kg-dry	1	12/21/2016
Pyrene	0.22	0.037		mg/Kg-dry	1	12/21/2016
PCBs SW8082 (SW3550B) Prep Date: 12/19/2016 Analyst: GVC						
Aroclor 1016	ND	0.086		mg/Kg-dry	1	12/19/2016
Aroclor 1221	ND	0.086		mg/Kg-dry	1	12/19/2016
Aroclor 1232	ND	0.086		mg/Kg-dry	1	12/19/2016
Aroclor 1242	ND	0.086		mg/Kg-dry	1	12/19/2016
Aroclor 1248	ND	0.086		mg/Kg-dry	1	12/19/2016
Aroclor 1254	ND	0.086		mg/Kg-dry	1	12/19/2016
Aroclor 1260	ND	0.086		mg/Kg-dry	1	12/19/2016
Pesticides SW8081 (SW3550B) Prep Date: 12/19/2016 Analyst: GVC						
4,4'-DDD	ND	0.0017		mg/Kg-dry	1	12/19/2016
4,4'-DDE	ND	0.0017		mg/Kg-dry	1	12/19/2016
4,4'-DDT	ND	0.0017		mg/Kg-dry	1	12/19/2016
Aldrin	ND	0.0017		mg/Kg-dry	1	12/19/2016
alpha-BHC	ND	0.0017		mg/Kg-dry	1	12/19/2016
alpha-Chlordane	ND	0.0017		mg/Kg-dry	1	12/19/2016
beta-BHC	ND	0.0017		mg/Kg-dry	1	12/19/2016
Chlordane	ND	0.017		mg/Kg-dry	1	12/19/2016
delta-BHC	ND	0.0017		mg/Kg-dry	1	12/19/2016
Dieldrin	ND	0.0017		mg/Kg-dry	1	12/19/2016
Endosulfan I	ND	0.0017		mg/Kg-dry	1	12/19/2016
Endosulfan II	ND	0.0017		mg/Kg-dry	1	12/19/2016
Endosulfan sulfate	ND	0.0017		mg/Kg-dry	1	12/19/2016
Endrin	ND	0.0017		mg/Kg-dry	1	12/19/2016

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-001

Client Sample ID: RPM-SB-53-1
Collection Date: 12/16/2016 12:05:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides						
	SW8081 (SW3550B)			Prep Date: 12/19/2016		Analyst: GVC
Endrin aldehyde	ND	0.0017		mg/Kg-dry	1	12/19/2016
Endrin ketone	ND	0.0017		mg/Kg-dry	1	12/19/2016
gamma-BHC	ND	0.0017		mg/Kg-dry	1	12/19/2016
gamma-Chlordane	ND	0.0017		mg/Kg-dry	1	12/19/2016
Heptachlor	ND	0.0017		mg/Kg-dry	1	12/19/2016
Heptachlor epoxide	ND	0.0017		mg/Kg-dry	1	12/19/2016
Methoxychlor	ND	0.0017		mg/Kg-dry	1	12/19/2016
Toxaphene	ND	0.036		mg/Kg-dry	1	12/19/2016
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 12/28/2016		Analyst: JG
Aluminum	3900	20		mg/Kg-dry	10	12/31/2016
Antimony	ND	2.0		mg/Kg-dry	10	12/31/2016
Arsenic	5.8	0.98		mg/Kg-dry	10	12/31/2016
Barium	220	0.98		mg/Kg-dry	10	12/31/2016
Beryllium	ND	0.49		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.49		mg/Kg-dry	10	12/31/2016
Calcium	37000	59		mg/Kg-dry	10	12/31/2016
Chromium	9.7	0.98		mg/Kg-dry	10	12/31/2016
Cobalt	3.7	0.98		mg/Kg-dry	10	12/31/2016
Copper	28	2.4		mg/Kg-dry	10	12/31/2016
Iron	7700	29		mg/Kg-dry	10	12/31/2016
Lead	83	0.49		mg/Kg-dry	10	12/31/2016
Magnesium	18000	29		mg/Kg-dry	10	12/31/2016
Manganese	230	0.98		mg/Kg-dry	10	12/31/2016
Nickel	8.3	0.98		mg/Kg-dry	10	12/31/2016
Potassium	410	29		mg/Kg-dry	10	12/31/2016
Selenium	ND	0.98		mg/Kg-dry	10	12/31/2016
Silver	ND	0.98		mg/Kg-dry	10	12/31/2016
Sodium	360	59		mg/Kg-dry	10	12/31/2016
Thallium	ND	0.98		mg/Kg-dry	10	12/31/2016
Vanadium	15	0.98		mg/Kg-dry	10	12/31/2016
Zinc	79	4.9		mg/Kg-dry	10	12/31/2016
Mercury						
	SW7471A			Prep Date: 12/28/2016		Analyst: LB
Mercury	0.077	0.022		mg/Kg-dry	1	12/28/2016
Cyanide, Total						
	SW9012A			Prep Date: 12/19/2016		Analyst: MD
Cyanide	ND	0.28		mg/Kg-dry	1	12/19/2016

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120531 Revision 0
 Project: CTA RPM, Edgewater
 Lab ID: 16120531-001

Client Sample ID: RPM-SB-53-1
 Collection Date: 12/16/2016 12:05:00 PM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C				Prep Date: 12/19/2016	Analyst: RW
pH	11.6			pH Units	1	12/19/2016
Percent Moisture	D2974				Prep Date: 12/19/2016	Analyst: GH
Percent Moisture	9.8	0.2	*	wt%	1	12/20/2016

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
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ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-002

Client Sample ID: RPM-SB-53-2
Collection Date: 12/16/2016 12:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/16/2016		Analyst: PS
Acetone	ND	0.088		mg/Kg-dry	1	12/21/2016
Benzene	ND	0.0059		mg/Kg-dry	1	12/21/2016
Bromodichloromethane	ND	0.0059		mg/Kg-dry	1	12/21/2016
Bromoform	ND	0.0059		mg/Kg-dry	1	12/21/2016
Bromomethane	ND	0.012		mg/Kg-dry	1	12/21/2016
2-Butanone	ND	0.088		mg/Kg-dry	1	12/21/2016
Carbon disulfide	ND	0.059		mg/Kg-dry	1	12/21/2016
Carbon tetrachloride	ND	0.0059		mg/Kg-dry	1	12/21/2016
Chlorobenzene	ND	0.0059		mg/Kg-dry	1	12/21/2016
Chloroethane	ND	0.012		mg/Kg-dry	1	12/21/2016
Chloroform	ND	0.0059		mg/Kg-dry	1	12/21/2016
Chloromethane	ND	0.012		mg/Kg-dry	1	12/21/2016
Dibromochloromethane	ND	0.0059		mg/Kg-dry	1	12/21/2016
1,1-Dichloroethane	ND	0.0059		mg/Kg-dry	1	12/21/2016
1,2-Dichloroethane	ND	0.0059		mg/Kg-dry	1	12/21/2016
1,1-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/21/2016
cis-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/21/2016
trans-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/21/2016
1,2-Dichloropropane	ND	0.0059		mg/Kg-dry	1	12/21/2016
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/21/2016
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/21/2016
Ethylbenzene	ND	0.0059		mg/Kg-dry	1	12/21/2016
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/21/2016
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/21/2016
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/21/2016
Methyl tert-butyl ether	ND	0.0059		mg/Kg-dry	1	12/21/2016
Styrene	ND	0.0059		mg/Kg-dry	1	12/21/2016
1,1,2,2-Tetrachloroethane	ND	0.0059		mg/Kg-dry	1	12/21/2016
Tetrachloroethene	ND	0.0059		mg/Kg-dry	1	12/21/2016
Toluene	ND	0.0059		mg/Kg-dry	1	12/21/2016
1,1,1-Trichloroethane	ND	0.0059		mg/Kg-dry	1	12/21/2016
1,1,2-Trichloroethane	ND	0.0059		mg/Kg-dry	1	12/21/2016
Trichloroethene	ND	0.0059		mg/Kg-dry	1	12/21/2016
Vinyl chloride	ND	0.0059		mg/Kg-dry	1	12/21/2016
Xylenes, Total	ND	0.018		mg/Kg-dry	1	12/21/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/20/2016		Analyst: ERP
Acenaphthene	ND	0.038		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.038		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-002

Client Sample ID: RPM-SB-53-2
Collection Date: 12/16/2016 12:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/20/2016		Analyst: ERP
Anthracene	ND	0.038		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	12/21/2016
Chrysene	ND	0.038		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	12/21/2016
Fluoranthene	ND	0.038		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.038		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.038		mg/Kg-dry	1	12/21/2016
Phenanthrene	ND	0.078		mg/Kg-dry	1	12/21/2016
Pyrene	ND	0.038		mg/Kg-dry	1	12/21/2016
PCBs		SW8082 (SW3550B)		Prep Date: 12/19/2016		Analyst: GVC
Aroclor 1016	ND	0.096		mg/Kg-dry	1	12/19/2016
Aroclor 1221	ND	0.096		mg/Kg-dry	1	12/19/2016
Aroclor 1232	ND	0.096		mg/Kg-dry	1	12/19/2016
Aroclor 1242	ND	0.096		mg/Kg-dry	1	12/19/2016
Aroclor 1248	ND	0.096		mg/Kg-dry	1	12/19/2016
Aroclor 1254	ND	0.096		mg/Kg-dry	1	12/19/2016
Aroclor 1260	ND	0.096		mg/Kg-dry	1	12/19/2016
Pesticides		SW8081 (SW3550B)		Prep Date: 12/19/2016		Analyst: GVC
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	12/19/2016
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	12/19/2016
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	12/19/2016
Aldrin	ND	0.0019		mg/Kg-dry	1	12/19/2016
alpha-BHC	ND	0.0019		mg/Kg-dry	1	12/19/2016
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	12/19/2016
beta-BHC	ND	0.0019		mg/Kg-dry	1	12/19/2016
Chlordane	ND	0.019		mg/Kg-dry	1	12/19/2016
delta-BHC	ND	0.0019		mg/Kg-dry	1	12/19/2016
Dieldrin	ND	0.0019		mg/Kg-dry	1	12/19/2016
Endosulfan I	ND	0.0019		mg/Kg-dry	1	12/19/2016
Endosulfan II	ND	0.0019		mg/Kg-dry	1	12/19/2016
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	12/19/2016
Endrin	ND	0.0019		mg/Kg-dry	1	12/19/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-002

Client Sample ID: RPM-SB-53-2
Collection Date: 12/16/2016 12:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides						
	SW8081 (SW3550B)			Prep Date: 12/19/2016		Analyst: GVC
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	12/19/2016
Endrin ketone	ND	0.0019		mg/Kg-dry	1	12/19/2016
gamma-BHC	ND	0.0019		mg/Kg-dry	1	12/19/2016
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	12/19/2016
Heptachlor	ND	0.0019		mg/Kg-dry	1	12/19/2016
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	12/19/2016
Methoxychlor	ND	0.0019		mg/Kg-dry	1	12/19/2016
Toxaphene	ND	0.039		mg/Kg-dry	1	12/19/2016
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 12/28/2016		Analyst: JG
Aluminum	1100	20		mg/Kg-dry	10	12/31/2016
Antimony	ND	2.0		mg/Kg-dry	10	12/31/2016
Arsenic	1.8	1.0		mg/Kg-dry	10	12/31/2016
Barium	3.2	1.0		mg/Kg-dry	10	12/31/2016
Beryllium	ND	0.51		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.51		mg/Kg-dry	10	12/31/2016
Calcium	41000	61		mg/Kg-dry	10	12/31/2016
Chromium	3.0	1.0		mg/Kg-dry	10	12/31/2016
Cobalt	4.3	1.0		mg/Kg-dry	10	12/31/2016
Copper	ND	2.5		mg/Kg-dry	10	12/31/2016
Iron	3300	30		mg/Kg-dry	10	12/31/2016
Lead	3.2	0.51		mg/Kg-dry	10	12/31/2016
Magnesium	24000	30		mg/Kg-dry	10	12/31/2016
Manganese	180	1.0		mg/Kg-dry	10	12/31/2016
Nickel	4.5	1.0		mg/Kg-dry	10	12/31/2016
Potassium	180	30		mg/Kg-dry	10	12/31/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/31/2016
Silver	ND	1.0		mg/Kg-dry	10	12/31/2016
Sodium	95	61		mg/Kg-dry	10	12/31/2016
Thallium	ND	1.0		mg/Kg-dry	10	12/31/2016
Vanadium	5.3	1.0		mg/Kg-dry	10	12/31/2016
Zinc	15	5.1		mg/Kg-dry	10	12/31/2016
Mercury						
	SW7471A			Prep Date: 12/28/2016		Analyst: LB
Mercury	ND	0.021		mg/Kg-dry	1	12/28/2016
Cyanide, Total						
	SW9012A			Prep Date: 12/20/2016		Analyst: MD
Cyanide	ND	0.30		mg/Kg-dry	1	12/20/2016

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120531 Revision 0
 Project: CTA RPM, Edgewater
 Lab ID: 16120531-002

Client Sample ID: RPM-SB-53-2
 Collection Date: 12/16/2016 12:20:00 PM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C				Prep Date: 12/19/2016	Analyst: RW
pH	8.6			pH Units	1	12/19/2016
Percent Moisture	D2974				Prep Date: 12/19/2016	Analyst: GH
Percent Moisture	16.4	0.2	*	wt%	1	12/20/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120531 Revision 0
 Project: CTA RPM, Edgewater
 Lab ID: 16120531-003

Client Sample ID: RPM-SB-54-1
 Collection Date: 12/16/2016 11:05:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/16/2016		Analyst: PS
Acetone	ND	0.11		mg/Kg-dry	1	12/21/2016
Benzene	ND	0.0076		mg/Kg-dry	1	12/21/2016
Bromodichloromethane	ND	0.0076		mg/Kg-dry	1	12/21/2016
Bromoform	ND	0.0076		mg/Kg-dry	1	12/21/2016
Bromomethane	ND	0.015		mg/Kg-dry	1	12/21/2016
2-Butanone	ND	0.11		mg/Kg-dry	1	12/21/2016
Carbon disulfide	ND	0.076		mg/Kg-dry	1	12/21/2016
Carbon tetrachloride	ND	0.0076		mg/Kg-dry	1	12/21/2016
Chlorobenzene	ND	0.0076		mg/Kg-dry	1	12/21/2016
Chloroethane	ND	0.015		mg/Kg-dry	1	12/21/2016
Chloroform	ND	0.0076		mg/Kg-dry	1	12/21/2016
Chloromethane	ND	0.015		mg/Kg-dry	1	12/21/2016
Dibromochloromethane	ND	0.0076		mg/Kg-dry	1	12/21/2016
1,1-Dichloroethane	ND	0.0076		mg/Kg-dry	1	12/21/2016
1,2-Dichloroethane	ND	0.0076		mg/Kg-dry	1	12/21/2016
1,1-Dichloroethene	ND	0.0076		mg/Kg-dry	1	12/21/2016
cis-1,2-Dichloroethene	ND	0.0076		mg/Kg-dry	1	12/21/2016
trans-1,2-Dichloroethene	ND	0.0076		mg/Kg-dry	1	12/21/2016
1,2-Dichloropropane	ND	0.0076		mg/Kg-dry	1	12/21/2016
cis-1,3-Dichloropropene	ND	0.0030		mg/Kg-dry	1	12/21/2016
trans-1,3-Dichloropropene	ND	0.0030		mg/Kg-dry	1	12/21/2016
Ethylbenzene	ND	0.0076		mg/Kg-dry	1	12/21/2016
2-Hexanone	ND	0.030		mg/Kg-dry	1	12/21/2016
4-Methyl-2-pentanone	ND	0.030		mg/Kg-dry	1	12/21/2016
Methylene chloride	ND	0.015		mg/Kg-dry	1	12/21/2016
Methyl tert-butyl ether	ND	0.0076		mg/Kg-dry	1	12/21/2016
Styrene	ND	0.0076		mg/Kg-dry	1	12/21/2016
1,1,2,2-Tetrachloroethane	ND	0.0076		mg/Kg-dry	1	12/21/2016
Tetrachloroethene	ND	0.0076		mg/Kg-dry	1	12/21/2016
Toluene	ND	0.0076		mg/Kg-dry	1	12/21/2016
1,1,1-Trichloroethane	ND	0.0076		mg/Kg-dry	1	12/21/2016
1,1,2-Trichloroethane	ND	0.0076		mg/Kg-dry	1	12/21/2016
Trichloroethene	ND	0.0076		mg/Kg-dry	1	12/21/2016
Vinyl chloride	ND	0.0076		mg/Kg-dry	1	12/21/2016
Xylenes, Total	ND	0.023		mg/Kg-dry	1	12/21/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/20/2016		Analyst: ERP
Acenaphthene	0.25	0.038		mg/Kg-dry	1	12/21/2016
Acenaphthylene	0.047	0.038		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-003

Client Sample ID: RPM-SB-54-1
Collection Date: 12/16/2016 11:05:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/20/2016		Analyst: ERP
Anthracene	0.96	0.038		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	2.4	0.038		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	1.7	0.038		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	2.6	0.038		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	1.3	0.038		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	0.89	0.038		mg/Kg-dry	1	12/21/2016
Chrysene	2.7	0.038		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	0.64	0.038		mg/Kg-dry	1	12/21/2016
Fluoranthene	5.3	0.19		mg/Kg-dry	5	12/21/2016
Fluorene	0.34	0.038		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	1.2	0.038		mg/Kg-dry	1	12/21/2016
Naphthalene	0.077	0.038		mg/Kg-dry	1	12/21/2016
Phenanthrene	3.7	0.076		mg/Kg-dry	1	12/21/2016
Pyrene	3.7	0.038		mg/Kg-dry	1	12/21/2016
PCBs		SW8082 (SW3550B)		Prep Date: 12/19/2016		Analyst: GVC
Aroclor 1016	ND	0.092		mg/Kg-dry	1	12/19/2016
Aroclor 1221	ND	0.092		mg/Kg-dry	1	12/19/2016
Aroclor 1232	ND	0.092		mg/Kg-dry	1	12/19/2016
Aroclor 1242	ND	0.092		mg/Kg-dry	1	12/19/2016
Aroclor 1248	ND	0.092		mg/Kg-dry	1	12/19/2016
Aroclor 1254	ND	0.092		mg/Kg-dry	1	12/19/2016
Aroclor 1260	ND	0.092		mg/Kg-dry	1	12/19/2016
Pesticides		SW8081 (SW3550B)		Prep Date: 12/19/2016		Analyst: GVC
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	12/19/2016
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	12/19/2016
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	12/19/2016
Aldrin	ND	0.0018		mg/Kg-dry	1	12/19/2016
alpha-BHC	ND	0.0018		mg/Kg-dry	1	12/19/2016
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	12/19/2016
beta-BHC	ND	0.0018		mg/Kg-dry	1	12/19/2016
Chlordane	ND	0.018		mg/Kg-dry	1	12/19/2016
delta-BHC	ND	0.0018		mg/Kg-dry	1	12/19/2016
Dieldrin	ND	0.0018		mg/Kg-dry	1	12/19/2016
Endosulfan I	ND	0.0018		mg/Kg-dry	1	12/19/2016
Endosulfan II	ND	0.0018		mg/Kg-dry	1	12/19/2016
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	12/19/2016
Endrin	ND	0.0018		mg/Kg-dry	1	12/19/2016

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-003

Client Sample ID: RPM-SB-54-1
Collection Date: 12/16/2016 11:05:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides						
	SW8081 (SW3550B)		Prep Date: 12/19/2016		Analyst: GVC	
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	12/19/2016
Endrin ketone	ND	0.0018		mg/Kg-dry	1	12/19/2016
gamma-BHC	ND	0.0018		mg/Kg-dry	1	12/19/2016
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	12/19/2016
Heptachlor	ND	0.0018		mg/Kg-dry	1	12/19/2016
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	12/19/2016
Methoxychlor	ND	0.0018		mg/Kg-dry	1	12/19/2016
Toxaphene	ND	0.038		mg/Kg-dry	1	12/19/2016
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 12/28/2016		Analyst: JG	
Aluminum	4200	20		mg/Kg-dry	10	12/31/2016
Antimony	ND	2.0		mg/Kg-dry	10	12/31/2016
Arsenic	12	1.0		mg/Kg-dry	10	12/31/2016
Barium	160	1.0		mg/Kg-dry	10	12/31/2016
Beryllium	0.54	0.50		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.50		mg/Kg-dry	10	12/31/2016
Calcium	60000	60		mg/Kg-dry	10	12/31/2016
Chromium	10	1.0		mg/Kg-dry	10	12/31/2016
Cobalt	4.2	1.0		mg/Kg-dry	10	12/31/2016
Copper	53	2.5		mg/Kg-dry	10	12/31/2016
Iron	12000	30		mg/Kg-dry	10	12/31/2016
Lead	150	0.50		mg/Kg-dry	10	12/31/2016
Magnesium	33000	30		mg/Kg-dry	10	12/31/2016
Manganese	190	1.0		mg/Kg-dry	10	12/31/2016
Nickel	12	1.0		mg/Kg-dry	10	12/31/2016
Potassium	390	30		mg/Kg-dry	10	12/31/2016
Selenium	1.1	1.0		mg/Kg-dry	10	12/31/2016
Silver	ND	1.0		mg/Kg-dry	10	12/31/2016
Sodium	350	60		mg/Kg-dry	10	12/31/2016
Thallium	ND	1.0		mg/Kg-dry	10	12/31/2016
Vanadium	21	1.0		mg/Kg-dry	10	12/31/2016
Zinc	210	5.0		mg/Kg-dry	10	12/31/2016
Mercury						
	SW7471A		Prep Date: 12/28/2016		Analyst: LB	
Mercury	0.42	0.023		mg/Kg-dry	1	12/28/2016
Cyanide, Total						
	SW9012A		Prep Date: 12/20/2016		Analyst: MD	
Cyanide	ND	0.29		mg/Kg-dry	1	12/22/2016

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120531 Revision 0
 Project: CTA RPM, Edgewater
 Lab ID: 16120531-003

Client Sample ID: RPM-SB-54-1
 Collection Date: 12/16/2016 11:05:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C				Prep Date: 12/19/2016	Analyst: RW
pH	8.2			pH Units	1	12/19/2016
Percent Moisture	D2974				Prep Date: 12/19/2016	Analyst: GH
Percent Moisture	13.5	0.2	*	wt%	1	12/20/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120531 Revision 0
 Project: CTA RPM, Edgewater
 Lab ID: 16120531-004

Client Sample ID: RPM-SB-54-2
 Collection Date: 12/16/2016 10:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/16/2016		Analyst: PS
Acetone	ND	0.092		mg/Kg-dry	1	12/21/2016
Benzene	ND	0.0062		mg/Kg-dry	1	12/21/2016
Bromodichloromethane	ND	0.0062		mg/Kg-dry	1	12/21/2016
Bromoform	ND	0.0062		mg/Kg-dry	1	12/21/2016
Bromomethane	ND	0.012		mg/Kg-dry	1	12/21/2016
2-Butanone	ND	0.092		mg/Kg-dry	1	12/21/2016
Carbon disulfide	ND	0.062		mg/Kg-dry	1	12/21/2016
Carbon tetrachloride	ND	0.0062		mg/Kg-dry	1	12/21/2016
Chlorobenzene	ND	0.0062		mg/Kg-dry	1	12/21/2016
Chloroethane	ND	0.012		mg/Kg-dry	1	12/21/2016
Chloroform	ND	0.0062		mg/Kg-dry	1	12/21/2016
Chloromethane	ND	0.012		mg/Kg-dry	1	12/21/2016
Dibromochloromethane	ND	0.0062		mg/Kg-dry	1	12/21/2016
1,1-Dichloroethane	ND	0.0062		mg/Kg-dry	1	12/21/2016
1,2-Dichloroethane	ND	0.0062		mg/Kg-dry	1	12/21/2016
1,1-Dichloroethene	ND	0.0062		mg/Kg-dry	1	12/21/2016
cis-1,2-Dichloroethene	ND	0.0062		mg/Kg-dry	1	12/21/2016
trans-1,2-Dichloroethene	ND	0.0062		mg/Kg-dry	1	12/21/2016
1,2-Dichloropropane	ND	0.0062		mg/Kg-dry	1	12/21/2016
cis-1,3-Dichloropropene	ND	0.0025		mg/Kg-dry	1	12/21/2016
trans-1,3-Dichloropropene	ND	0.0025		mg/Kg-dry	1	12/21/2016
Ethylbenzene	ND	0.0062		mg/Kg-dry	1	12/21/2016
2-Hexanone	ND	0.025		mg/Kg-dry	1	12/21/2016
4-Methyl-2-pentanone	ND	0.025		mg/Kg-dry	1	12/21/2016
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/21/2016
Methyl tert-butyl ether	ND	0.0062		mg/Kg-dry	1	12/21/2016
Styrene	ND	0.0062		mg/Kg-dry	1	12/21/2016
1,1,2,2-Tetrachloroethane	ND	0.0062		mg/Kg-dry	1	12/21/2016
Tetrachloroethene	ND	0.0062		mg/Kg-dry	1	12/21/2016
Toluene	ND	0.0062		mg/Kg-dry	1	12/21/2016
1,1,1-Trichloroethane	ND	0.0062		mg/Kg-dry	1	12/21/2016
1,1,2-Trichloroethane	ND	0.0062		mg/Kg-dry	1	12/21/2016
Trichloroethene	ND	0.0062		mg/Kg-dry	1	12/21/2016
Vinyl chloride	ND	0.0062		mg/Kg-dry	1	12/21/2016
Xylenes, Total	ND	0.018		mg/Kg-dry	1	12/21/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/20/2016		Analyst: ERP
Acenaphthene	ND	0.039		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.039		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-004

Client Sample ID: RPM-SB-54-2
Collection Date: 12/16/2016 10:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)			Prep Date: 12/20/2016		Analyst: ERP
Anthracene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	12/21/2016
Chrysene	ND	0.039		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	12/21/2016
Fluoranthene	ND	0.039		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.039		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.039		mg/Kg-dry	1	12/21/2016
Phenanthrene	ND	0.080		mg/Kg-dry	1	12/21/2016
Pyrene	ND	0.039		mg/Kg-dry	1	12/21/2016
PCBs						
	SW8082 (SW3550B)			Prep Date: 12/19/2016		Analyst: GVC
Aroclor 1016	ND	0.096		mg/Kg-dry	1	12/19/2016
Aroclor 1221	ND	0.096		mg/Kg-dry	1	12/19/2016
Aroclor 1232	ND	0.096		mg/Kg-dry	1	12/19/2016
Aroclor 1242	ND	0.096		mg/Kg-dry	1	12/19/2016
Aroclor 1248	ND	0.096		mg/Kg-dry	1	12/19/2016
Aroclor 1254	ND	0.096		mg/Kg-dry	1	12/19/2016
Aroclor 1260	ND	0.096		mg/Kg-dry	1	12/19/2016
Pesticides						
	SW8081 (SW3550B)			Prep Date: 12/19/2016		Analyst: GVC
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	12/19/2016
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	12/19/2016
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	12/19/2016
Aldrin	ND	0.0019		mg/Kg-dry	1	12/19/2016
alpha-BHC	ND	0.0019		mg/Kg-dry	1	12/19/2016
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	12/19/2016
beta-BHC	ND	0.0019		mg/Kg-dry	1	12/19/2016
Chlordane	ND	0.019		mg/Kg-dry	1	12/19/2016
delta-BHC	ND	0.0019		mg/Kg-dry	1	12/19/2016
Dieldrin	ND	0.0019		mg/Kg-dry	1	12/19/2016
Endosulfan I	ND	0.0019		mg/Kg-dry	1	12/19/2016
Endosulfan II	ND	0.0019		mg/Kg-dry	1	12/19/2016
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	12/19/2016
Endrin	ND	0.0019		mg/Kg-dry	1	12/19/2016

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-004

Client Sample ID: RPM-SB-54-2
Collection Date: 12/16/2016 10:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides						
	SW8081 (SW3550B)			Prep Date: 12/19/2016		Analyst: GVC
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	12/19/2016
Endrin ketone	ND	0.0019		mg/Kg-dry	1	12/19/2016
gamma-BHC	ND	0.0019		mg/Kg-dry	1	12/19/2016
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	12/19/2016
Heptachlor	ND	0.0019		mg/Kg-dry	1	12/19/2016
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	12/19/2016
Methoxychlor	ND	0.0019		mg/Kg-dry	1	12/19/2016
Toxaphene	ND	0.040		mg/Kg-dry	1	12/19/2016
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 12/28/2016		Analyst: JG
Aluminum	1000	20		mg/Kg-dry	10	12/31/2016
Antimony	ND	2.0		mg/Kg-dry	10	12/31/2016
Arsenic	1.2	1.0		mg/Kg-dry	10	12/31/2016
Barium	2.6	1.0		mg/Kg-dry	10	12/31/2016
Beryllium	ND	0.50		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.50		mg/Kg-dry	10	12/31/2016
Calcium	27000	60		mg/Kg-dry	10	12/31/2016
Chromium	3.4	1.0		mg/Kg-dry	10	12/31/2016
Cobalt	1.4	1.0		mg/Kg-dry	10	12/31/2016
Copper	2.9	2.5		mg/Kg-dry	10	12/31/2016
Iron	3100	30		mg/Kg-dry	10	12/31/2016
Lead	2.4	0.50		mg/Kg-dry	10	12/31/2016
Magnesium	13000	30		mg/Kg-dry	10	12/31/2016
Manganese	130	1.0		mg/Kg-dry	10	12/31/2016
Nickel	3.2	1.0		mg/Kg-dry	10	12/31/2016
Potassium	190	30		mg/Kg-dry	10	12/31/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/31/2016
Silver	ND	1.0		mg/Kg-dry	10	12/31/2016
Sodium	85	60		mg/Kg-dry	10	12/31/2016
Thallium	ND	1.0		mg/Kg-dry	10	12/31/2016
Vanadium	4.2	1.0		mg/Kg-dry	10	12/31/2016
Zinc	11	5.0		mg/Kg-dry	10	12/31/2016
Mercury						
	SW7471A			Prep Date: 12/28/2016		Analyst: LB
Mercury	ND	0.022		mg/Kg-dry	1	12/28/2016
Cyanide, Total						
	SW9012A			Prep Date: 12/20/2016		Analyst: MD
Cyanide	ND	0.30		mg/Kg-dry	1	12/22/2016

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120531 Revision 0
 Project: CTA RPM, Edgewater
 Lab ID: 16120531-004

Client Sample ID: RPM-SB-54-2
 Collection Date: 12/16/2016 10:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C				Prep Date: 12/19/2016	Analyst: RW
pH	8.9			pH Units	1	12/19/2016
Percent Moisture	D2974				Prep Date: 12/19/2016	Analyst: GH
Percent Moisture	16.8	0.2	*	wt%	1	12/20/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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 B - Analyte detected in the associated Method Blank
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120531 Revision 0
 Project: CTA RPM, Edgewater
 Lab ID: 16120531-005

Client Sample ID: RPM-SB-54-3
 Collection Date: 12/16/2016 11:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/16/2016		Analyst: PS
Acetone	ND	0.090		mg/Kg-dry	1	12/21/2016
Benzene	ND	0.0060		mg/Kg-dry	1	12/21/2016
Bromodichloromethane	ND	0.0060		mg/Kg-dry	1	12/21/2016
Bromoform	ND	0.0060		mg/Kg-dry	1	12/21/2016
Bromomethane	ND	0.012		mg/Kg-dry	1	12/21/2016
2-Butanone	ND	0.090		mg/Kg-dry	1	12/21/2016
Carbon disulfide	ND	0.060		mg/Kg-dry	1	12/21/2016
Carbon tetrachloride	ND	0.0060		mg/Kg-dry	1	12/21/2016
Chlorobenzene	ND	0.0060		mg/Kg-dry	1	12/21/2016
Chloroethane	ND	0.012		mg/Kg-dry	1	12/21/2016
Chloroform	ND	0.0060		mg/Kg-dry	1	12/21/2016
Chloromethane	ND	0.012		mg/Kg-dry	1	12/21/2016
Dibromochloromethane	ND	0.0060		mg/Kg-dry	1	12/21/2016
1,1-Dichloroethane	ND	0.0060		mg/Kg-dry	1	12/21/2016
1,2-Dichloroethane	ND	0.0060		mg/Kg-dry	1	12/21/2016
1,1-Dichloroethene	ND	0.0060		mg/Kg-dry	1	12/21/2016
cis-1,2-Dichloroethene	ND	0.0060		mg/Kg-dry	1	12/21/2016
trans-1,2-Dichloroethene	ND	0.0060		mg/Kg-dry	1	12/21/2016
1,2-Dichloropropane	ND	0.0060		mg/Kg-dry	1	12/21/2016
cis-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	12/21/2016
trans-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	12/21/2016
Ethylbenzene	ND	0.0060		mg/Kg-dry	1	12/21/2016
2-Hexanone	ND	0.024		mg/Kg-dry	1	12/21/2016
4-Methyl-2-pentanone	ND	0.024		mg/Kg-dry	1	12/21/2016
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/21/2016
Methyl tert-butyl ether	ND	0.0060		mg/Kg-dry	1	12/21/2016
Styrene	ND	0.0060		mg/Kg-dry	1	12/21/2016
1,1,2,2-Tetrachloroethane	ND	0.0060		mg/Kg-dry	1	12/21/2016
Tetrachloroethene	ND	0.0060		mg/Kg-dry	1	12/21/2016
Toluene	ND	0.0060		mg/Kg-dry	1	12/21/2016
1,1,1-Trichloroethane	ND	0.0060		mg/Kg-dry	1	12/21/2016
1,1,2-Trichloroethane	ND	0.0060		mg/Kg-dry	1	12/21/2016
Trichloroethene	ND	0.0060		mg/Kg-dry	1	12/21/2016
Vinyl chloride	ND	0.0060		mg/Kg-dry	1	12/21/2016
Xylenes, Total	ND	0.018		mg/Kg-dry	1	12/21/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/20/2016		Analyst: ERP
Acenaphthene	ND	0.038		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.038		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-005

Client Sample ID: RPM-SB-54-3
Collection Date: 12/16/2016 11:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/20/2016		Analyst: ERP	
Anthracene	ND	0.038		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	12/21/2016
Chrysene	ND	0.038		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	12/21/2016
Fluoranthene	ND	0.038		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.038		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.038		mg/Kg-dry	1	12/21/2016
Phenanthrene	ND	0.076		mg/Kg-dry	1	12/21/2016
Pyrene	ND	0.038		mg/Kg-dry	1	12/21/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/20/2016		Analyst: GVC	
Aroclor 1016	ND	0.091		mg/Kg-dry	1	12/20/2016
Aroclor 1221	ND	0.091		mg/Kg-dry	1	12/20/2016
Aroclor 1232	ND	0.091		mg/Kg-dry	1	12/20/2016
Aroclor 1242	ND	0.091		mg/Kg-dry	1	12/20/2016
Aroclor 1248	ND	0.091		mg/Kg-dry	1	12/20/2016
Aroclor 1254	ND	0.091		mg/Kg-dry	1	12/20/2016
Aroclor 1260	ND	0.091		mg/Kg-dry	1	12/20/2016
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 12/22/2016		Analyst: JG	
Arsenic	1.2	1.0		mg/Kg-dry	10	12/23/2016
Barium	3.7	1.0		mg/Kg-dry	10	12/23/2016
Cadmium	ND	0.50		mg/Kg-dry	10	12/23/2016
Chromium	6.1	1.0		mg/Kg-dry	10	12/23/2016
Lead	3.1	0.50		mg/Kg-dry	10	12/23/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/23/2016
Silver	ND	1.0		mg/Kg-dry	10	12/23/2016
Mercury						
	SW7471A		Prep Date: 12/20/2016		Analyst: LB	
Mercury	ND	0.019		mg/Kg-dry	1	12/21/2016
Percent Moisture						
	D2974		Prep Date: 12/19/2016		Analyst: GH	
Percent Moisture	14.5	0.2	*	wt%	1	12/20/2016

Qualifiers:
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120531 Revision 0
 Project: CTA RPM, Edgewater
 Lab ID: 16120531-006

Client Sample ID: RPM-SB-55-1
 Collection Date: 12/16/2016 9:15:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/16/2016		Analyst: PS
Acetone	ND	0.10		mg/Kg-dry	1	12/21/2016
Benzene	ND	0.0067		mg/Kg-dry	1	12/21/2016
Bromodichloromethane	ND	0.0067		mg/Kg-dry	1	12/21/2016
Bromoform	ND	0.0067		mg/Kg-dry	1	12/21/2016
Bromomethane	ND	0.013		mg/Kg-dry	1	12/21/2016
2-Butanone	ND	0.10		mg/Kg-dry	1	12/21/2016
Carbon disulfide	ND	0.067		mg/Kg-dry	1	12/21/2016
Carbon tetrachloride	ND	0.0067		mg/Kg-dry	1	12/21/2016
Chlorobenzene	ND	0.0067		mg/Kg-dry	1	12/21/2016
Chloroethane	ND	0.013		mg/Kg-dry	1	12/21/2016
Chloroform	ND	0.0067		mg/Kg-dry	1	12/21/2016
Chloromethane	ND	0.013		mg/Kg-dry	1	12/21/2016
Dibromochloromethane	ND	0.0067		mg/Kg-dry	1	12/21/2016
1,1-Dichloroethane	ND	0.0067		mg/Kg-dry	1	12/21/2016
1,2-Dichloroethane	ND	0.0067		mg/Kg-dry	1	12/21/2016
1,1-Dichloroethene	ND	0.0067		mg/Kg-dry	1	12/21/2016
cis-1,2-Dichloroethene	ND	0.0067		mg/Kg-dry	1	12/21/2016
trans-1,2-Dichloroethene	ND	0.0067		mg/Kg-dry	1	12/21/2016
1,2-Dichloropropane	ND	0.0067		mg/Kg-dry	1	12/21/2016
cis-1,3-Dichloropropene	ND	0.0027		mg/Kg-dry	1	12/21/2016
trans-1,3-Dichloropropene	ND	0.0027		mg/Kg-dry	1	12/21/2016
Ethylbenzene	ND	0.0067		mg/Kg-dry	1	12/21/2016
2-Hexanone	ND	0.027		mg/Kg-dry	1	12/21/2016
4-Methyl-2-pentanone	ND	0.027		mg/Kg-dry	1	12/21/2016
Methylene chloride	ND	0.013		mg/Kg-dry	1	12/21/2016
Methyl tert-butyl ether	ND	0.0067		mg/Kg-dry	1	12/21/2016
Styrene	ND	0.0067		mg/Kg-dry	1	12/21/2016
1,1,2,2-Tetrachloroethane	ND	0.0067		mg/Kg-dry	1	12/21/2016
Tetrachloroethene	ND	0.0067		mg/Kg-dry	1	12/21/2016
Toluene	ND	0.0067		mg/Kg-dry	1	12/21/2016
1,1,1-Trichloroethane	ND	0.0067		mg/Kg-dry	1	12/21/2016
1,1,2-Trichloroethane	ND	0.0067		mg/Kg-dry	1	12/21/2016
Trichloroethene	ND	0.0067		mg/Kg-dry	1	12/21/2016
Vinyl chloride	ND	0.0067		mg/Kg-dry	1	12/21/2016
Xylenes, Total	ND	0.020		mg/Kg-dry	1	12/21/2016
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/20/2016		Analyst: ERP
Acenaphthene	ND	0.038		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.038		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
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 * - Non-accredited parameter H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120531 Revision 0
 Project: CTA RPM, Edgewater
 Lab ID: 16120531-006

Client Sample ID: RPM-SB-55-1
 Collection Date: 12/16/2016 9:15:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/20/2016		Analyst: ERP
Aniline	ND	0.39		mg/Kg-dry	1	12/21/2016
Anthracene	0.078	0.038		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	0.35	0.038		mg/Kg-dry	1	12/21/2016
Benzidine	ND	0.38		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	0.35	0.038		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	0.37	0.038		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	0.15	0.038		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	0.25	0.038		mg/Kg-dry	1	12/21/2016
Benzoic acid	ND	0.96		mg/Kg-dry	1	12/21/2016
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	12/21/2016
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	12/21/2016
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	12/21/2016
Bis(2-ethylhexyl)phthalate	ND	0.96		mg/Kg-dry	1	12/21/2016
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	12/21/2016
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	12/21/2016
Carbazole	ND	0.20		mg/Kg-dry	1	12/21/2016
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	12/21/2016
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	12/21/2016
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	12/21/2016
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	12/21/2016
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	12/21/2016
Chrysene	0.40	0.038		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	12/21/2016
Dibenzofuran	ND	0.20		mg/Kg-dry	1	12/21/2016
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	12/21/2016
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	12/21/2016
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	12/21/2016
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	12/21/2016
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	12/21/2016
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	12/21/2016
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	12/21/2016
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	12/21/2016
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	12/21/2016
2,4-Dinitrophenol	ND	0.96		mg/Kg-dry	1	12/21/2016
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	12/21/2016
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	12/21/2016
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	12/21/2016
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	12/21/2016

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-006

Client Sample ID: RPM-SB-55-1
Collection Date: 12/16/2016 9:15:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 12/20/2016		Analyst: ERP	
Fluoranthene	0.54	0.038		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.038		mg/Kg-dry	1	12/21/2016
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	12/21/2016
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	12/21/2016
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	12/21/2016
Hexachloroethane	ND	0.20		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	0.14	0.038		mg/Kg-dry	1	12/21/2016
Isophorone	ND	0.20		mg/Kg-dry	1	12/21/2016
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	12/21/2016
2-Methylphenol	ND	0.20		mg/Kg-dry	1	12/21/2016
4-Methylphenol	ND	0.20		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.038		mg/Kg-dry	1	12/21/2016
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	12/21/2016
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	12/21/2016
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	12/21/2016
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	12/21/2016
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	12/21/2016
Nitrobenzene	ND	0.038		mg/Kg-dry	1	12/21/2016
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	12/21/2016
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	12/21/2016
N-Nitrosodiphenylamine	ND	0.038		mg/Kg-dry	1	12/21/2016
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	12/21/2016
Pentachlorophenol	ND	0.038		mg/Kg-dry	1	12/21/2016
Phenanthrene	0.38	0.078		mg/Kg-dry	1	12/21/2016
Phenol	ND	0.20		mg/Kg-dry	1	12/21/2016
Pyrene	0.58	0.038		mg/Kg-dry	1	12/21/2016
Pyridine	ND	0.78		mg/Kg-dry	1	12/21/2016
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	12/21/2016
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	12/21/2016
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	12/21/2016

PCBs	SW8082 (SW3550B)		Prep Date: 12/19/2016		Analyst: GVC	
Aroclor 1016	ND	0.094		mg/Kg-dry	1	12/19/2016
Aroclor 1221	ND	0.094		mg/Kg-dry	1	12/19/2016
Aroclor 1232	ND	0.094		mg/Kg-dry	1	12/19/2016
Aroclor 1242	ND	0.094		mg/Kg-dry	1	12/19/2016
Aroclor 1248	ND	0.094		mg/Kg-dry	1	12/19/2016
Aroclor 1254	ND	0.094		mg/Kg-dry	1	12/19/2016
Aroclor 1260	ND	0.094		mg/Kg-dry	1	12/19/2016

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-006

Client Sample ID: RPM-SB-55-1
Collection Date: 12/16/2016 9:15:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides		SW8081 (SW3550B)		Prep Date: 12/19/2016		Analyst: GVC
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	12/19/2016
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	12/19/2016
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	12/19/2016
Aldrin	ND	0.0019		mg/Kg-dry	1	12/19/2016
alpha-BHC	ND	0.0019		mg/Kg-dry	1	12/19/2016
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	12/19/2016
beta-BHC	ND	0.0019		mg/Kg-dry	1	12/19/2016
Chlordane	ND	0.019		mg/Kg-dry	1	12/19/2016
delta-BHC	ND	0.0019		mg/Kg-dry	1	12/19/2016
Dieldrin	ND	0.0019		mg/Kg-dry	1	12/19/2016
Endosulfan I	ND	0.0019		mg/Kg-dry	1	12/19/2016
Endosulfan II	ND	0.0019		mg/Kg-dry	1	12/19/2016
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	12/19/2016
Endrin	ND	0.0019		mg/Kg-dry	1	12/19/2016
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	12/19/2016
Endrin ketone	ND	0.0019		mg/Kg-dry	1	12/19/2016
gamma-BHC	ND	0.0019		mg/Kg-dry	1	12/19/2016
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	12/19/2016
Heptachlor	ND	0.0019		mg/Kg-dry	1	12/19/2016
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	12/19/2016
Methoxychlor	ND	0.0019		mg/Kg-dry	1	12/19/2016
Toxaphene	ND	0.039		mg/Kg-dry	1	12/19/2016
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 12/22/2016		Analyst: JG
Aluminum	4500	20		mg/Kg-dry	10	12/23/2016
Antimony	ND	2.0		mg/Kg-dry	10	12/23/2016
Arsenic	11	1.0		mg/Kg-dry	10	12/23/2016
Barium	230	1.0		mg/Kg-dry	10	12/23/2016
Beryllium	0.73	0.50		mg/Kg-dry	10	12/23/2016
Cadmium	ND	0.50		mg/Kg-dry	10	12/23/2016
Calcium	49000	600		mg/Kg-dry	100	12/27/2016
Chromium	7.3	1.0		mg/Kg-dry	10	12/23/2016
Cobalt	4.5	1.0		mg/Kg-dry	10	12/23/2016
Copper	41	2.5		mg/Kg-dry	10	12/23/2016
Iron	8400	300		mg/Kg-dry	100	12/27/2016
Lead	99	0.50		mg/Kg-dry	10	12/23/2016
Magnesium	15000	30		mg/Kg-dry	10	12/23/2016
Manganese	150	1.0		mg/Kg-dry	10	12/23/2016
Nickel	10	1.0		mg/Kg-dry	10	12/23/2016

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-006

Client Sample ID: RPM-SB-55-1
Collection Date: 12/16/2016 9:15:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/22/2016		Analyst: JG	
Potassium	530	30		mg/Kg-dry	10	12/23/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/23/2016
Silver	ND	1.0		mg/Kg-dry	10	12/23/2016
Sodium	500	60		mg/Kg-dry	10	12/23/2016
Thallium	ND	1.0		mg/Kg-dry	10	12/23/2016
Vanadium	20	1.0		mg/Kg-dry	10	12/23/2016
Zinc	90	5.0		mg/Kg-dry	10	12/23/2016
Mercury	SW7471A		Prep Date: 12/20/2016		Analyst: LB	
Mercury	0.096	0.022		mg/Kg-dry	1	12/21/2016
Cyanide, Total	SW9012A		Prep Date: 12/20/2016		Analyst: MD	
Cyanide	ND	0.29		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/19/2016		Analyst: RW	
pH	8.7			pH Units	1	12/19/2016
Percent Moisture	D2974		Prep Date: 12/19/2016		Analyst: GH	
Percent Moisture	15.2	0.2	*	wt%	1	12/20/2016

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-007

Client Sample ID: RPM-SB-55-2
Collection Date: 12/16/2016 9:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/16/2016		Analyst: PS
Acetone	ND	0.086		mg/Kg-dry	1	12/21/2016
Benzene	ND	0.0057		mg/Kg-dry	1	12/21/2016
Bromodichloromethane	ND	0.0057		mg/Kg-dry	1	12/21/2016
Bromoform	ND	0.0057		mg/Kg-dry	1	12/21/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/21/2016
2-Butanone	ND	0.086		mg/Kg-dry	1	12/21/2016
Carbon disulfide	ND	0.057		mg/Kg-dry	1	12/21/2016
Carbon tetrachloride	ND	0.0057		mg/Kg-dry	1	12/21/2016
Chlorobenzene	ND	0.0057		mg/Kg-dry	1	12/21/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/21/2016
Chloroform	ND	0.0057		mg/Kg-dry	1	12/21/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/21/2016
Dibromochloromethane	ND	0.0057		mg/Kg-dry	1	12/21/2016
1,1-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/21/2016
1,2-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/21/2016
1,1-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/21/2016
cis-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/21/2016
trans-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/21/2016
1,2-Dichloropropane	ND	0.0057		mg/Kg-dry	1	12/21/2016
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/21/2016
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/21/2016
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	12/21/2016
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/21/2016
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/21/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/21/2016
Methyl tert-butyl ether	ND	0.0057		mg/Kg-dry	1	12/21/2016
Styrene	ND	0.0057		mg/Kg-dry	1	12/21/2016
1,1,2,2-Tetrachloroethane	ND	0.0057		mg/Kg-dry	1	12/21/2016
Tetrachloroethene	ND	0.0057		mg/Kg-dry	1	12/21/2016
Toluene	ND	0.0057		mg/Kg-dry	1	12/21/2016
1,1,1-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/21/2016
1,1,2-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/21/2016
Trichloroethene	ND	0.0057		mg/Kg-dry	1	12/21/2016
Vinyl chloride	ND	0.0057		mg/Kg-dry	1	12/21/2016
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/21/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/20/2016		Analyst: ERP
Acenaphthene	ND	0.037		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.037		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-007

Client Sample ID: RPM-SB-55-2
Collection Date: 12/16/2016 9:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)			Prep Date: 12/20/2016		Analyst: ERP
Anthracene	ND	0.037		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	ND	0.037		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	12/21/2016
Chrysene	ND	0.037		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	12/21/2016
Fluoranthene	ND	0.037		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.037		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.037		mg/Kg-dry	1	12/21/2016
Phenanthrene	ND	0.074		mg/Kg-dry	1	12/21/2016
Pyrene	ND	0.037		mg/Kg-dry	1	12/21/2016
PCBs						
	SW8082 (SW3550B)			Prep Date: 12/19/2016		Analyst: GVC
Aroclor 1016	ND	0.091		mg/Kg-dry	1	12/19/2016
Aroclor 1221	ND	0.091		mg/Kg-dry	1	12/19/2016
Aroclor 1232	ND	0.091		mg/Kg-dry	1	12/19/2016
Aroclor 1242	ND	0.091		mg/Kg-dry	1	12/19/2016
Aroclor 1248	ND	0.091		mg/Kg-dry	1	12/19/2016
Aroclor 1254	ND	0.091		mg/Kg-dry	1	12/19/2016
Aroclor 1260	ND	0.091		mg/Kg-dry	1	12/19/2016
Pesticides						
	SW8081 (SW3550B)			Prep Date: 12/19/2016		Analyst: GVC
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	12/19/2016
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	12/19/2016
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	12/19/2016
Aldrin	ND	0.0018		mg/Kg-dry	1	12/19/2016
alpha-BHC	ND	0.0018		mg/Kg-dry	1	12/19/2016
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	12/19/2016
beta-BHC	ND	0.0018		mg/Kg-dry	1	12/19/2016
Chlordane	ND	0.018		mg/Kg-dry	1	12/19/2016
delta-BHC	ND	0.0018		mg/Kg-dry	1	12/19/2016
Dieldrin	ND	0.0018		mg/Kg-dry	1	12/19/2016
Endosulfan I	ND	0.0018		mg/Kg-dry	1	12/19/2016
Endosulfan II	ND	0.0018		mg/Kg-dry	1	12/19/2016
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	12/19/2016
Endrin	ND	0.0018		mg/Kg-dry	1	12/19/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-007

Client Sample ID: RPM-SB-55-2
Collection Date: 12/16/2016 9:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides						
	SW8081 (SW3550B)			Prep Date: 12/19/2016		Analyst: GVC
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	12/19/2016
Endrin ketone	ND	0.0018		mg/Kg-dry	1	12/19/2016
gamma-BHC	ND	0.0018		mg/Kg-dry	1	12/19/2016
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	12/19/2016
Heptachlor	ND	0.0018		mg/Kg-dry	1	12/19/2016
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	12/19/2016
Methoxychlor	ND	0.0018		mg/Kg-dry	1	12/19/2016
Toxaphene	ND	0.037		mg/Kg-dry	1	12/19/2016
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 12/28/2016		Analyst: JG
Aluminum	1700	20		mg/Kg-dry	10	12/31/2016
Antimony	ND	2.0		mg/Kg-dry	10	12/31/2016
Arsenic	1.7	1.0		mg/Kg-dry	10	12/31/2016
Barium	3.7	1.0		mg/Kg-dry	10	12/31/2016
Beryllium	ND	0.51		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.51		mg/Kg-dry	10	12/31/2016
Calcium	49000	61		mg/Kg-dry	10	12/31/2016
Chromium	5.3	1.0		mg/Kg-dry	10	12/31/2016
Cobalt	3.2	1.0		mg/Kg-dry	10	12/31/2016
Copper	3.5	2.5		mg/Kg-dry	10	12/31/2016
Iron	5900	30		mg/Kg-dry	10	12/31/2016
Lead	3.4	0.51		mg/Kg-dry	10	12/31/2016
Magnesium	25000	30		mg/Kg-dry	10	12/31/2016
Manganese	280	1.0		mg/Kg-dry	10	12/31/2016
Nickel	5.2	1.0		mg/Kg-dry	10	12/31/2016
Potassium	290	30		mg/Kg-dry	10	12/31/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/31/2016
Silver	ND	1.0		mg/Kg-dry	10	12/31/2016
Sodium	130	61		mg/Kg-dry	10	12/31/2016
Thallium	ND	1.0		mg/Kg-dry	10	12/31/2016
Vanadium	7.9	1.0		mg/Kg-dry	10	12/31/2016
Zinc	22	5.1		mg/Kg-dry	10	12/31/2016
Mercury						
	SW7471A			Prep Date: 12/28/2016		Analyst: LB
Mercury	ND	0.020		mg/Kg-dry	1	12/28/2016
Cyanide, Total						
	SW9012A			Prep Date: 12/20/2016		Analyst: MD
Cyanide	ND	0.28		mg/Kg-dry	1	12/22/2016

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120531 Revision 0
 Project: CTA RPM, Edgewater
 Lab ID: 16120531-007

Client Sample ID: RPM-SB-55-2
 Collection Date: 12/16/2016 9:25:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C				Prep Date: 12/19/2016	Analyst: RW
pH	9.0			pH Units	1	12/19/2016
Percent Moisture	D2974				Prep Date: 12/19/2016	Analyst: GH
Percent Moisture	11.9	0.2	*	wt%	1	12/20/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-008

Client Sample ID: RPM-SB-55-3
Collection Date: 12/16/2016 9:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/16/2016		Analyst: PS
Acetone	ND	0.087		mg/Kg-dry	1	12/21/2016
Benzene	ND	0.0058		mg/Kg-dry	1	12/21/2016
Bromodichloromethane	ND	0.0058		mg/Kg-dry	1	12/21/2016
Bromoform	ND	0.0058		mg/Kg-dry	1	12/21/2016
Bromomethane	ND	0.012		mg/Kg-dry	1	12/21/2016
2-Butanone	ND	0.087		mg/Kg-dry	1	12/21/2016
Carbon disulfide	ND	0.058		mg/Kg-dry	1	12/21/2016
Carbon tetrachloride	ND	0.0058		mg/Kg-dry	1	12/21/2016
Chlorobenzene	ND	0.0058		mg/Kg-dry	1	12/21/2016
Chloroethane	ND	0.012		mg/Kg-dry	1	12/21/2016
Chloroform	ND	0.0058		mg/Kg-dry	1	12/21/2016
Chloromethane	ND	0.012		mg/Kg-dry	1	12/21/2016
Dibromochloromethane	ND	0.0058		mg/Kg-dry	1	12/21/2016
1,1-Dichloroethane	ND	0.0058		mg/Kg-dry	1	12/21/2016
1,2-Dichloroethane	ND	0.0058		mg/Kg-dry	1	12/21/2016
1,1-Dichloroethene	ND	0.0058		mg/Kg-dry	1	12/21/2016
cis-1,2-Dichloroethene	ND	0.0058		mg/Kg-dry	1	12/21/2016
trans-1,2-Dichloroethene	ND	0.0058		mg/Kg-dry	1	12/21/2016
1,2-Dichloropropane	ND	0.0058		mg/Kg-dry	1	12/21/2016
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/21/2016
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/21/2016
Ethylbenzene	ND	0.0058		mg/Kg-dry	1	12/21/2016
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/21/2016
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/21/2016
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/21/2016
Methyl tert-butyl ether	ND	0.0058		mg/Kg-dry	1	12/21/2016
Styrene	ND	0.0058		mg/Kg-dry	1	12/21/2016
1,1,2,2-Tetrachloroethane	ND	0.0058		mg/Kg-dry	1	12/21/2016
Tetrachloroethene	ND	0.0058		mg/Kg-dry	1	12/21/2016
Toluene	ND	0.0058		mg/Kg-dry	1	12/21/2016
1,1,1-Trichloroethane	ND	0.0058		mg/Kg-dry	1	12/21/2016
1,1,2-Trichloroethane	ND	0.0058		mg/Kg-dry	1	12/21/2016
Trichloroethene	ND	0.0058		mg/Kg-dry	1	12/21/2016
Vinyl chloride	ND	0.0058		mg/Kg-dry	1	12/21/2016
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/21/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/20/2016		Analyst: ERP
Acenaphthene	ND	0.038		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.038		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120531 Revision 0
Project: CTA RPM, Edgewater
Lab ID: 16120531-008

Client Sample ID: RPM-SB-55-3
Collection Date: 12/16/2016 9:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/20/2016		Analyst: ERP	
Anthracene	ND	0.038		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	12/21/2016
Chrysene	ND	0.038		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	12/21/2016
Fluoranthene	ND	0.038		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.038		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.038		mg/Kg-dry	1	12/21/2016
Phenanthrene	ND	0.078		mg/Kg-dry	1	12/21/2016
Pyrene	ND	0.038		mg/Kg-dry	1	12/21/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/20/2016		Analyst: GVC	
Aroclor 1016	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1221	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1232	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1242	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1248	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1254	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1260	ND	0.095		mg/Kg-dry	1	12/20/2016
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 12/22/2016		Analyst: JG	
Arsenic	ND	1.0		mg/Kg-dry	10	12/23/2016
Barium	2.7	1.0		mg/Kg-dry	10	12/23/2016
Cadmium	ND	0.52		mg/Kg-dry	10	12/23/2016
Chromium	2.5	1.0		mg/Kg-dry	10	12/23/2016
Lead	2.5	0.52		mg/Kg-dry	10	12/23/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/23/2016
Silver	ND	1.0		mg/Kg-dry	10	12/23/2016
Mercury						
	SW7471A		Prep Date: 12/20/2016		Analyst: LB	
Mercury	ND	0.020		mg/Kg-dry	1	12/21/2016
Percent Moisture						
	D2974		Prep Date: 12/19/2016		Analyst: GH	
Percent Moisture	15.6	0.2	*	wt%	1	12/20/2016

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 H - Holding time exceeded

Company: GS7
Project Number: Client Tracking No.:
Project Name: CTARPm
Project Location: Edgewater
Sampler(s): TC/NW
Report To: Scatterel Phone: 3127336262
Fax: 3127335612
e-mail: Scatterel@GS7.com

QC Level: 1 2 3 4
Client Sample Number/Description: Date Taken: Time Taken: Matrix: Comp: Grab: Preserv: No. of Containers:

Client Sample Number/Description	Date Taken	Time Taken	Matrix	Comp	Grab	Preserv	No. of Containers	VOCs	PAHs	PCBs	Pesticides	Lab No.:
RPm-SB-53-1	12/16/16	1205	Soil				4	X	X	X	X	001
RPm-SB-53-2		1220						X	X	X	X	002
RPm-SB-54-1		1105						X	X	X	X	003
RPm-SB-54-2		1020						X	X	X	X	004
RPm-SB-54-3		1110						X	X	X	X	005
RPm-SB-55-1		915						X	X	X	X	006
RPm-SB-55-2		925						X	X	X	X	007
RPm-SB-55-3		930						X	X	X	X	008

Turn Around Time (Days): 1 2 3 4 5-7 10
Results Needed: / / / am/pm
Additional Information:
Quote No.:
P.O. No.:

Comments:
Date/Time: 12/16/16 10:00
Date/Time: 12/16/16 16:00
Date/Time:
Date/Time:
Date/Time:
Date/Time:

Relinquished by: (Signature)
Received by: (Signature)
Relinquished by: (Signature)
Received by: (Signature)
Relinquished by: (Signature)
Received by: (Signature)

Laboratory Work Order No.: 16120531
Received on Ice: Yes No
Temperature: 4.1 °C


Sample Receipt Checklist

Client Name **GSG**

Date and Time Received: **12/16/2016 4:00:00 PM**

Work Order Number **15120531**

Received by: **JDR**

Checklist completed by: 

Date **12/16/16**

Reviewed by: **F2** **12/19/16**
Initials Date

Matrix: _____ Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature **4.1 °C**
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response:

STAT Analysis Corporation

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January 11, 2017

GSG Consultants, Inc.
855 W. Adams
Chicago, IL 60607

Telephone: (312) 733-6262
Fax: (312) 733-5612

Analytical Report for STAT Work Order: 16120599 Revision 1

RE: CTA RPM, Chicago, IL

Dear Scott Letzel:

STAT Analysis received 13 samples for the referenced project on 12/19/2016 5:15:00 PM. The analytical results are presented in the following report.

This report is revised to reflect additional analysis requested after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Frank Capoccia
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: GSG Consultants, Inc.
Project: CTA RPM, Chicago, IL
Work Order: 16120599 Revision 1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
16120599-001A	RPM-SB-53-3		12/19/2016 9:10:00 AM	12/19/2016
16120599-001B	RPM-SB-53-3		12/19/2016 9:10:00 AM	12/19/2016
16120599-002A	RPM-SB-52-1		12/19/2016 9:35:00 AM	12/19/2016
16120599-002B	RPM-SB-52-1		12/19/2016 9:35:00 AM	12/19/2016
16120599-003A	RPM-SB-52-2		12/19/2016 9:50:00 AM	12/19/2016
16120599-003B	RPM-SB-52-2		12/19/2016 9:50:00 AM	12/19/2016
16120599-004A	RPM-SB-52-3		12/19/2016 9:55:00 AM	12/19/2016
16120599-004B	RPM-SB-52-3		12/19/2016 9:55:00 AM	12/19/2016
16120599-005A	RPM-SB-51-1		12/19/2016 10:15:00 AM	12/19/2016
16120599-005B	RPM-SB-51-1		12/19/2016 10:15:00 AM	12/19/2016
16120599-006A	RPM-SB-51-2		12/19/2016 10:25:00 AM	12/19/2016
16120599-006B	RPM-SB-51-2		12/19/2016 10:25:00 AM	12/19/2016
16120599-007A	RPM-SB-51-3		12/19/2016 10:35:00 AM	12/19/2016
16120599-007B	RPM-SB-51-3		12/19/2016 10:35:00 AM	12/19/2016
16120599-008A	RPM-SB-50-1		12/19/2016 11:00:00 AM	12/19/2016
16120599-008B	RPM-SB-50-1		12/19/2016 11:00:00 AM	12/19/2016
16120599-009A	RPM-SB-50-2		12/19/2016 11:10:00 AM	12/19/2016
16120599-009B	RPM-SB-50-2		12/19/2016 11:10:00 AM	12/19/2016
16120599-010A	RPM-SB-50-3		12/19/2016 11:15:00 AM	12/19/2016
16120599-010B	RPM-SB-50-3		12/19/2016 11:15:00 AM	12/19/2016
16120599-011A	RPM-SB-49-1		12/19/2016 11:20:00 AM	12/19/2016
16120599-011B	RPM-SB-49-1		12/19/2016 11:20:00 AM	12/19/2016
16120599-012A	RPM-SB-49-2		12/19/2016 11:25:00 AM	12/19/2016
16120599-012B	RPM-SB-49-2		12/19/2016 11:25:00 AM	12/19/2016
16120599-013A	RPM-SB-49-3		12/19/2016 11:30:00 AM	12/19/2016
16120599-013B	RPM-SB-49-3		12/19/2016 11:30:00 AM	12/19/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120599 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120599-001

Client Sample ID: RPM-SB-53-3
 Collection Date: 12/19/2016 9:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 12/19/2016		Analyst: RRS	
Acetone	ND	0.083		mg/Kg-dry	1	12/22/2016
Benzene	ND	0.0056		mg/Kg-dry	1	12/22/2016
Bromodichloromethane	ND	0.0056		mg/Kg-dry	1	12/22/2016
Bromoform	ND	0.0056		mg/Kg-dry	1	12/22/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/22/2016
2-Butanone	ND	0.083		mg/Kg-dry	1	12/22/2016
Carbon disulfide	ND	0.056		mg/Kg-dry	1	12/22/2016
Carbon tetrachloride	ND	0.0056		mg/Kg-dry	1	12/22/2016
Chlorobenzene	ND	0.0056		mg/Kg-dry	1	12/22/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/22/2016
Chloroform	ND	0.0056		mg/Kg-dry	1	12/22/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/22/2016
Dibromochloromethane	ND	0.0056		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethane	ND	0.0056		mg/Kg-dry	1	12/22/2016
1,2-Dichloroethane	ND	0.0056		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/22/2016
cis-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/22/2016
trans-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/22/2016
1,2-Dichloropropane	ND	0.0056		mg/Kg-dry	1	12/22/2016
cis-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	12/22/2016
trans-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	12/22/2016
Ethylbenzene	ND	0.0056		mg/Kg-dry	1	12/22/2016
2-Hexanone	ND	0.022		mg/Kg-dry	1	12/22/2016
4-Methyl-2-pentanone	ND	0.022		mg/Kg-dry	1	12/22/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/22/2016
Methyl tert-butyl ether	ND	0.0056		mg/Kg-dry	1	12/22/2016
Styrene	ND	0.0056		mg/Kg-dry	1	12/22/2016
1,1,2,2-Tetrachloroethane	ND	0.0056		mg/Kg-dry	1	12/22/2016
Tetrachloroethene	ND	0.0056		mg/Kg-dry	1	12/22/2016
Toluene	ND	0.0056		mg/Kg-dry	1	12/22/2016
1,1,1-Trichloroethane	ND	0.0056		mg/Kg-dry	1	12/22/2016
1,1,2-Trichloroethane	ND	0.0056		mg/Kg-dry	1	12/22/2016
Trichloroethene	ND	0.0056		mg/Kg-dry	1	12/22/2016
Vinyl chloride	ND	0.0056		mg/Kg-dry	1	12/22/2016
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/22/2016

Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP	
Acenaphthene	ND	0.037		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.037		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
 * - Non-accredited parameter H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-001

Client Sample ID: RPM-SB-53-3
Collection Date: 12/19/2016 9:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)				Prep Date: 12/21/2016	Analyst: ERP
Anthracene	ND	0.037		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	ND	0.037		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	12/21/2016
Chrysene	ND	0.037		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	12/21/2016
Fluoranthene	ND	0.037		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.037		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.037		mg/Kg-dry	1	12/21/2016
Phenanthrene	ND	0.037		mg/Kg-dry	1	12/21/2016
Pyrene	ND	0.037		mg/Kg-dry	1	12/21/2016
PCBs						
	SW8082 (SW3550B)				Prep Date: 12/20/2016	Analyst: GVC
Aroclor 1016	ND	0.090		mg/Kg-dry	1	12/20/2016
Aroclor 1221	ND	0.090		mg/Kg-dry	1	12/20/2016
Aroclor 1232	ND	0.090		mg/Kg-dry	1	12/20/2016
Aroclor 1242	ND	0.090		mg/Kg-dry	1	12/20/2016
Aroclor 1248	ND	0.090		mg/Kg-dry	1	12/20/2016
Aroclor 1254	ND	0.090		mg/Kg-dry	1	12/20/2016
Aroclor 1260	ND	0.090		mg/Kg-dry	1	12/20/2016
Metals by ICP/MS						
	SW6020 (SW3050B)				Prep Date: 12/27/2016	Analyst: JG
Arsenic	2.3	1.0		mg/Kg-dry	10	12/28/2016
Barium	5.3	1.0		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.51		mg/Kg-dry	10	12/28/2016
Chromium	3.9	1.0		mg/Kg-dry	10	12/28/2016
Lead	3.8	0.51		mg/Kg-dry	10	12/28/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/28/2016
Silver	ND	1.0		mg/Kg-dry	10	12/28/2016
Mercury						
	SW7471A				Prep Date: 12/22/2016	Analyst: LB
Mercury	ND	0.018		mg/Kg-dry	1	12/22/2016
Percent Moisture						
	D2974				Prep Date: 12/20/2016	Analyst: GH
Percent Moisture	11.7	0.2	*	wt%	1	12/21/2016

Qualifiers:
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 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-002

Client Sample ID: RPM-SB-52-1
Collection Date: 12/19/2016 9:35:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/19/2016		Analyst: RRS
Acetone	ND	0.12		mg/Kg-dry	1	12/22/2016
Benzene	ND	0.0080		mg/Kg-dry	1	12/22/2016
Bromodichloromethane	ND	0.0080		mg/Kg-dry	1	12/22/2016
Bromoform	ND	0.0080		mg/Kg-dry	1	12/22/2016
Bromomethane	ND	0.016		mg/Kg-dry	1	12/22/2016
2-Butanone	ND	0.12		mg/Kg-dry	1	12/22/2016
Carbon disulfide	ND	0.080		mg/Kg-dry	1	12/22/2016
Carbon tetrachloride	ND	0.0080		mg/Kg-dry	1	12/22/2016
Chlorobenzene	ND	0.0080		mg/Kg-dry	1	12/22/2016
Chloroethane	ND	0.016		mg/Kg-dry	1	12/22/2016
Chloroform	ND	0.0080		mg/Kg-dry	1	12/22/2016
Chloromethane	ND	0.016		mg/Kg-dry	1	12/22/2016
Dibromochloromethane	ND	0.0080		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethane	ND	0.0080		mg/Kg-dry	1	12/22/2016
1,2-Dichloroethane	ND	0.0080		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethene	ND	0.0080		mg/Kg-dry	1	12/22/2016
cis-1,2-Dichloroethene	ND	0.0080		mg/Kg-dry	1	12/22/2016
trans-1,2-Dichloroethene	ND	0.0080		mg/Kg-dry	1	12/22/2016
1,2-Dichloropropane	ND	0.0080		mg/Kg-dry	1	12/22/2016
cis-1,3-Dichloropropene	ND	0.0032		mg/Kg-dry	1	12/22/2016
trans-1,3-Dichloropropene	ND	0.0032		mg/Kg-dry	1	12/22/2016
Ethylbenzene	ND	0.0080		mg/Kg-dry	1	12/22/2016
2-Hexanone	ND	0.032		mg/Kg-dry	1	12/22/2016
4-Methyl-2-pentanone	ND	0.032		mg/Kg-dry	1	12/22/2016
Methylene chloride	ND	0.016		mg/Kg-dry	1	12/22/2016
Methyl tert-butyl ether	ND	0.0080		mg/Kg-dry	1	12/22/2016
Styrene	ND	0.0080		mg/Kg-dry	1	12/22/2016
1,1,2,2-Tetrachloroethane	ND	0.0080		mg/Kg-dry	1	12/22/2016
Tetrachloroethene	ND	0.0080		mg/Kg-dry	1	12/22/2016
Toluene	ND	0.0080		mg/Kg-dry	1	12/22/2016
1,1,1-Trichloroethane	ND	0.0080		mg/Kg-dry	1	12/22/2016
1,1,2-Trichloroethane	ND	0.0080		mg/Kg-dry	1	12/22/2016
Trichloroethene	ND	0.0080		mg/Kg-dry	1	12/22/2016
Vinyl chloride	ND	0.0080		mg/Kg-dry	1	12/22/2016
Xylenes, Total	ND	0.024		mg/Kg-dry	1	12/22/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
Acenaphthene	0.062	0.037		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.037		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-002

Client Sample ID: RPM-SB-52-1
Collection Date: 12/19/2016 9:35:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS SW8270C (SW3550B) Prep Date: 12/21/2016 Analyst: ERP						
Anthracene	0.19	0.037		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	0.70	0.037		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	0.77	0.037		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	0.77	0.037		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	0.61	0.037		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	0.62	0.037		mg/Kg-dry	1	12/21/2016
Chrysene	0.87	0.037		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	0.28	0.037		mg/Kg-dry	1	12/21/2016
Fluoranthene	1.4	0.037		mg/Kg-dry	1	12/21/2016
Fluorene	0.068	0.037		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	0.51	0.037		mg/Kg-dry	1	12/21/2016
Naphthalene	0.057	0.037		mg/Kg-dry	1	12/21/2016
Phenanthrene	0.86	0.037		mg/Kg-dry	1	12/21/2016
Pyrene	1.2	0.037		mg/Kg-dry	1	12/21/2016
PCBs SW8082 (SW3550B) Prep Date: 12/21/2016 Analyst: GVC						
Aroclor 1016	ND	0.090		mg/Kg-dry	1	12/21/2016
Aroclor 1221	ND	0.090		mg/Kg-dry	1	12/21/2016
Aroclor 1232	ND	0.090		mg/Kg-dry	1	12/21/2016
Aroclor 1242	ND	0.090		mg/Kg-dry	1	12/21/2016
Aroclor 1248	ND	0.090		mg/Kg-dry	1	12/21/2016
Aroclor 1254	ND	0.090		mg/Kg-dry	1	12/21/2016
Aroclor 1260	ND	0.090		mg/Kg-dry	1	12/21/2016
Pesticides SW8081 (SW3550B) Prep Date: 12/21/2016 Analyst: GVC						
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	12/21/2016
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	12/21/2016
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	12/21/2016
Aldrin	ND	0.0018		mg/Kg-dry	1	12/21/2016
alpha-BHC	ND	0.0018		mg/Kg-dry	1	12/21/2016
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	12/21/2016
beta-BHC	ND	0.0018		mg/Kg-dry	1	12/21/2016
Chlordane	ND	0.018		mg/Kg-dry	1	12/21/2016
delta-BHC	ND	0.0018		mg/Kg-dry	1	12/21/2016
Dieldrin	ND	0.0018		mg/Kg-dry	1	12/21/2016
Endosulfan I	ND	0.0018		mg/Kg-dry	1	12/21/2016
Endosulfan II	ND	0.0018		mg/Kg-dry	1	12/21/2016
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	12/21/2016
Endrin	ND	0.0018		mg/Kg-dry	1	12/21/2016

Qualifiers:
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-002

Client Sample ID: RPM-SB-52-1
Collection Date: 12/19/2016 9:35:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides						
	SW8081 (SW3550B)			Prep Date: 12/21/2016		Analyst: GVC
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	12/21/2016
Endrin ketone	ND	0.0018		mg/Kg-dry	1	12/21/2016
gamma-BHC	ND	0.0018		mg/Kg-dry	1	12/21/2016
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	12/21/2016
Heptachlor	ND	0.0018		mg/Kg-dry	1	12/21/2016
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	12/21/2016
Methoxychlor	ND	0.0018		mg/Kg-dry	1	12/21/2016
Toxaphene	ND	0.037		mg/Kg-dry	1	12/21/2016
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 12/27/2016		Analyst: JG
Aluminum	7500	200		mg/Kg-dry	100	12/27/2016
Antimony	3.7	2.0		mg/Kg-dry	10	12/29/2016
Arsenic	54	0.98		mg/Kg-dry	10	12/27/2016
Barium	440	0.98		mg/Kg-dry	10	12/27/2016
Beryllium	1.5	0.49		mg/Kg-dry	10	12/27/2016
Cadmium	5.3	0.49		mg/Kg-dry	10	12/27/2016
Calcium	21000	590		mg/Kg-dry	100	12/27/2016
Chromium	12	0.98		mg/Kg-dry	10	12/29/2016
Cobalt	7.2	0.98		mg/Kg-dry	10	12/29/2016
Copper	2500	24		mg/Kg-dry	100	12/27/2016
Iron	17000	290		mg/Kg-dry	100	12/27/2016
Lead	900	0.49		mg/Kg-dry	10	12/27/2016
Magnesium	5300	290		mg/Kg-dry	100	12/27/2016
Manganese	340	9.8		mg/Kg-dry	100	12/27/2016
Nickel	36	9.8		mg/Kg-dry	100	12/27/2016
Potassium	870	290		mg/Kg-dry	100	12/27/2016
Selenium	4.7	0.98		mg/Kg-dry	10	12/27/2016
Silver	8.5	0.98		mg/Kg-dry	10	12/27/2016
Sodium	630	590		mg/Kg-dry	100	12/27/2016
Thallium	2.7	0.98		mg/Kg-dry	10	12/27/2016
Vanadium	24	9.8		mg/Kg-dry	100	12/27/2016
Zinc	1200	49		mg/Kg-dry	100	12/27/2016
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 1/10/2017		Analyst: JG
Lead	0.27	0.0050		mg/L	5	1/10/2017
Mercury						
	SW7471A			Prep Date: 12/22/2016		Analyst: LB
Mercury	0.17	0.022		mg/Kg-dry	1	12/22/2016
Cyanide, Total						
	SW9012A			Prep Date: 12/20/2016		Analyst: MD

Qualifiers:
 ND - Not Detected at the Reporting Limit
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 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-002

Client Sample ID: RPM-SB-52-1
Collection Date: 12/19/2016 9:35:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Total	SW9012A				Prep Date: 12/20/2016	Analyst: MD
Cyanide	ND	0.28		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C				Prep Date: 12/20/2016	Analyst: PBG
pH	8.0			pH Units	1	12/20/2016
Percent Moisture	D2974				Prep Date: 12/20/2016	Analyst: GH
Percent Moisture	11.7	0.2	*	wt%	1	12/21/2016

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120599 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120599-003

Client Sample ID: RPM-SB-52-2
 Collection Date: 12/19/2016 9:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/19/2016		Analyst: RRS
Acetone	ND	0.087		mg/Kg-dry	1	12/22/2016
Benzene	ND	0.0058		mg/Kg-dry	1	12/22/2016
Bromodichloromethane	ND	0.0058		mg/Kg-dry	1	12/22/2016
Bromoform	ND	0.0058		mg/Kg-dry	1	12/22/2016
Bromomethane	ND	0.012		mg/Kg-dry	1	12/22/2016
2-Butanone	ND	0.087		mg/Kg-dry	1	12/22/2016
Carbon disulfide	ND	0.058		mg/Kg-dry	1	12/22/2016
Carbon tetrachloride	ND	0.0058		mg/Kg-dry	1	12/22/2016
Chlorobenzene	ND	0.0058		mg/Kg-dry	1	12/22/2016
Chloroethane	ND	0.012		mg/Kg-dry	1	12/22/2016
Chloroform	ND	0.0058		mg/Kg-dry	1	12/22/2016
Chloromethane	ND	0.012		mg/Kg-dry	1	12/22/2016
Dibromochloromethane	ND	0.0058		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethane	ND	0.0058		mg/Kg-dry	1	12/22/2016
1,2-Dichloroethane	ND	0.0058		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethene	ND	0.0058		mg/Kg-dry	1	12/22/2016
cis-1,2-Dichloroethene	ND	0.0058		mg/Kg-dry	1	12/22/2016
trans-1,2-Dichloroethene	ND	0.0058		mg/Kg-dry	1	12/22/2016
1,2-Dichloropropane	ND	0.0058		mg/Kg-dry	1	12/22/2016
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/22/2016
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/22/2016
Ethylbenzene	ND	0.0058		mg/Kg-dry	1	12/22/2016
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/22/2016
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/22/2016
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/22/2016
Methyl tert-butyl ether	ND	0.0058		mg/Kg-dry	1	12/22/2016
Styrene	ND	0.0058		mg/Kg-dry	1	12/22/2016
1,1,2,2-Tetrachloroethane	ND	0.0058		mg/Kg-dry	1	12/22/2016
Tetrachloroethene	ND	0.0058		mg/Kg-dry	1	12/22/2016
Toluene	ND	0.0058		mg/Kg-dry	1	12/22/2016
1,1,1-Trichloroethane	ND	0.0058		mg/Kg-dry	1	12/22/2016
1,1,2-Trichloroethane	ND	0.0058		mg/Kg-dry	1	12/22/2016
Trichloroethene	ND	0.0058		mg/Kg-dry	1	12/22/2016
Vinyl chloride	ND	0.0058		mg/Kg-dry	1	12/22/2016
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/22/2016
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
Acenaphthene	ND	0.034		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.034		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120599 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120599-003

Client Sample ID: RPM-SB-52-2
 Collection Date: 12/19/2016 9:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP	
Aniline	ND	0.34		mg/Kg-dry	1	12/21/2016
Anthracene	ND	0.034		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	ND	0.034		mg/Kg-dry	1	12/21/2016
Benzidine	ND	0.34		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	ND	0.034		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	ND	0.034		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	ND	0.034		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	ND	0.034		mg/Kg-dry	1	12/21/2016
Benzoic acid	ND	0.86		mg/Kg-dry	1	12/21/2016
Benzyl alcohol	ND	0.18		mg/Kg-dry	1	12/21/2016
Bis(2-chloroethoxy)methane	ND	0.18		mg/Kg-dry	1	12/21/2016
Bis(2-chloroethyl)ether	ND	0.18		mg/Kg-dry	1	12/21/2016
Bis(2-ethylhexyl)phthalate	ND	0.86		mg/Kg-dry	1	12/21/2016
4-Bromophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	12/21/2016
Butyl benzyl phthalate	ND	0.18		mg/Kg-dry	1	12/21/2016
Carbazole	ND	0.18		mg/Kg-dry	1	12/21/2016
4-Chloroaniline	ND	0.18		mg/Kg-dry	1	12/21/2016
4-Chloro-3-methylphenol	ND	0.34		mg/Kg-dry	1	12/21/2016
2-Chloronaphthalene	ND	0.18		mg/Kg-dry	1	12/21/2016
2-Chlorophenol	ND	0.18		mg/Kg-dry	1	12/21/2016
4-Chlorophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	12/21/2016
Chrysene	ND	0.034		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	ND	0.034		mg/Kg-dry	1	12/21/2016
Dibenzofuran	ND	0.18		mg/Kg-dry	1	12/21/2016
1,2-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	12/21/2016
1,3-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	12/21/2016
1,4-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	12/21/2016
3,3'-Dichlorobenzidine	ND	0.18		mg/Kg-dry	1	12/21/2016
2,4-Dichlorophenol	ND	0.18		mg/Kg-dry	1	12/21/2016
Diethyl phthalate	ND	0.18		mg/Kg-dry	1	12/21/2016
2,4-Dimethylphenol	ND	0.18		mg/Kg-dry	1	12/21/2016
Dimethyl phthalate	ND	0.18		mg/Kg-dry	1	12/21/2016
4,6-Dinitro-2-methylphenol	ND	0.34		mg/Kg-dry	1	12/21/2016
2,4-Dinitrophenol	ND	0.86		mg/Kg-dry	1	12/21/2016
2,4-Dinitrotoluene	ND	0.034		mg/Kg-dry	1	12/21/2016
2,6-Dinitrotoluene	ND	0.034		mg/Kg-dry	1	12/21/2016
Di-n-butyl phthalate	ND	0.18		mg/Kg-dry	1	12/21/2016
Di-n-octyl phthalate	ND	0.18		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
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 * - Non-accredited parameter H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-003

Client Sample ID: RPM-SB-52-2
Collection Date: 12/19/2016 9:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 12/21/2016	Analyst: ERP
Fluoranthene	ND	0.034		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.034		mg/Kg-dry	1	12/21/2016
Hexachlorobenzene	ND	0.18		mg/Kg-dry	1	12/21/2016
Hexachlorobutadiene	ND	0.18		mg/Kg-dry	1	12/21/2016
Hexachlorocyclopentadiene	ND	0.18		mg/Kg-dry	1	12/21/2016
Hexachloroethane	ND	0.18		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	ND	0.034		mg/Kg-dry	1	12/21/2016
Isophorone	ND	0.18		mg/Kg-dry	1	12/21/2016
2-Methylnaphthalene	ND	0.18		mg/Kg-dry	1	12/21/2016
2-Methylphenol	ND	0.18		mg/Kg-dry	1	12/21/2016
4-Methylphenol	ND	0.18		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.034		mg/Kg-dry	1	12/21/2016
2-Nitroaniline	ND	0.18		mg/Kg-dry	1	12/21/2016
3-Nitroaniline	ND	0.18		mg/Kg-dry	1	12/21/2016
4-Nitroaniline	ND	0.18		mg/Kg-dry	1	12/21/2016
2-Nitrophenol	ND	0.18		mg/Kg-dry	1	12/21/2016
4-Nitrophenol	ND	0.34		mg/Kg-dry	1	12/21/2016
Nitrobenzene	ND	0.034		mg/Kg-dry	1	12/21/2016
N-Nitrosodi-n-propylamine	ND	0.034		mg/Kg-dry	1	12/21/2016
N-Nitrosodimethylamine	ND	0.18		mg/Kg-dry	1	12/21/2016
N-Nitrosodiphenylamine	ND	0.034		mg/Kg-dry	1	12/21/2016
2, 2'-oxybis(1-Chloropropane)	ND	0.18		mg/Kg-dry	1	12/21/2016
Pentachlorophenol	ND	0.034		mg/Kg-dry	1	12/21/2016
Phenanthrene	ND	0.034		mg/Kg-dry	1	12/21/2016
Phenol	ND	0.18		mg/Kg-dry	1	12/21/2016
Pyrene	ND	0.034		mg/Kg-dry	1	12/21/2016
Pyridine	ND	0.69		mg/Kg-dry	1	12/21/2016
1,2,4-Trichlorobenzene	ND	0.18		mg/Kg-dry	1	12/21/2016
2,4,5-Trichlorophenol	ND	0.18		mg/Kg-dry	1	12/21/2016
2,4,6-Trichlorophenol	ND	0.18		mg/Kg-dry	1	12/21/2016

PCBs	SW8082 (SW3550B)				Prep Date: 12/21/2016	Analyst: GVC
Aroclor 1016	ND	0.083		mg/Kg-dry	1	12/21/2016
Aroclor 1221	ND	0.083		mg/Kg-dry	1	12/21/2016
Aroclor 1232	ND	0.083		mg/Kg-dry	1	12/21/2016
Aroclor 1242	ND	0.083		mg/Kg-dry	1	12/21/2016
Aroclor 1248	ND	0.083		mg/Kg-dry	1	12/21/2016
Aroclor 1254	ND	0.083		mg/Kg-dry	1	12/21/2016
Aroclor 1260	ND	0.083		mg/Kg-dry	1	12/21/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-003

Client Sample ID: RPM-SB-52-2
Collection Date: 12/19/2016 9:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides		SW8081 (SW3550B)		Prep Date: 12/21/2016		Analyst: GVC
4,4'-DDD	ND	0.0017		mg/Kg-dry	1	12/21/2016
4,4'-DDE	ND	0.0017		mg/Kg-dry	1	12/21/2016
4,4'-DDT	ND	0.0017		mg/Kg-dry	1	12/21/2016
Aldrin	ND	0.0017		mg/Kg-dry	1	12/21/2016
alpha-BHC	ND	0.0017		mg/Kg-dry	1	12/21/2016
alpha-Chlordane	ND	0.0017		mg/Kg-dry	1	12/21/2016
beta-BHC	ND	0.0017		mg/Kg-dry	1	12/21/2016
Chlordane	ND	0.017		mg/Kg-dry	1	12/21/2016
delta-BHC	ND	0.0017		mg/Kg-dry	1	12/21/2016
Dieldrin	ND	0.0017		mg/Kg-dry	1	12/21/2016
Endosulfan I	ND	0.0017		mg/Kg-dry	1	12/21/2016
Endosulfan II	ND	0.0017		mg/Kg-dry	1	12/21/2016
Endosulfan sulfate	ND	0.0017		mg/Kg-dry	1	12/21/2016
Endrin	ND	0.0017		mg/Kg-dry	1	12/21/2016
Endrin aldehyde	ND	0.0017		mg/Kg-dry	1	12/21/2016
Endrin ketone	ND	0.0017		mg/Kg-dry	1	12/21/2016
gamma-BHC	ND	0.0017		mg/Kg-dry	1	12/21/2016
gamma-Chlordane	ND	0.0017		mg/Kg-dry	1	12/21/2016
Heptachlor	ND	0.0017		mg/Kg-dry	1	12/21/2016
Heptachlor epoxide	ND	0.0017		mg/Kg-dry	1	12/21/2016
Methoxychlor	ND	0.0017		mg/Kg-dry	1	12/21/2016
Toxaphene	ND	0.034		mg/Kg-dry	1	12/21/2016
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG
Aluminum	1200	19		mg/Kg-dry	10	12/27/2016
Antimony	ND	3.8		mg/Kg-dry	10	12/27/2016
Arsenic	1.5	0.94		mg/Kg-dry	10	12/27/2016
Barium	6.9	0.94		mg/Kg-dry	10	12/27/2016
Beryllium	ND	0.47		mg/Kg-dry	10	12/27/2016
Cadmium	ND	0.47		mg/Kg-dry	10	12/27/2016
Calcium	44000	56		mg/Kg-dry	10	12/27/2016
Chromium	3.9	0.94		mg/Kg-dry	10	12/27/2016
Cobalt	1.8	0.94		mg/Kg-dry	10	12/27/2016
Copper	4.0	2.3		mg/Kg-dry	10	12/27/2016
Iron	6100	280		mg/Kg-dry	100	12/27/2016
Lead	4.3	0.47		mg/Kg-dry	10	12/27/2016
Magnesium	22000	28		mg/Kg-dry	10	12/27/2016
Manganese	330	0.94		mg/Kg-dry	10	12/27/2016
Nickel	3.9	0.94		mg/Kg-dry	10	12/27/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120599 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120599-003

Client Sample ID: RPM-SB-52-2
 Collection Date: 12/19/2016 9:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Potassium	230	28		mg/Kg-dry	10	12/27/2016
Selenium	ND	0.94		mg/Kg-dry	10	12/27/2016
Silver	ND	0.94		mg/Kg-dry	10	12/27/2016
Sodium	140	56		mg/Kg-dry	10	12/27/2016
Thallium	ND	0.94		mg/Kg-dry	10	12/27/2016
Vanadium	7.3	0.94		mg/Kg-dry	10	12/27/2016
Zinc	16	4.7		mg/Kg-dry	10	12/27/2016
Mercury	SW7471A		Prep Date: 12/22/2016		Analyst: LB	
Mercury	ND	0.017		mg/Kg-dry	1	12/22/2016
Cyanide, Total	SW9012A		Prep Date: 12/20/2016		Analyst: MD	
Cyanide	ND	0.26		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/20/2016		Analyst: PBG	
pH	9.2			pH Units	1	12/20/2016
Percent Moisture	D2974		Prep Date: 12/20/2016		Analyst: GH	
Percent Moisture	4.5	0.2	*	wt%	1	12/21/2016

Qualifiers:
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120599 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120599-004

Client Sample ID: RPM-SB-52-3
 Collection Date: 12/19/2016 9:55:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/19/2016		Analyst: RRS
Acetone	ND	0.075		mg/Kg-dry	1	12/22/2016
Benzene	ND	0.0050		mg/Kg-dry	1	12/22/2016
Bromodichloromethane	ND	0.0050		mg/Kg-dry	1	12/22/2016
Bromoform	ND	0.0050		mg/Kg-dry	1	12/22/2016
Bromomethane	ND	0.010		mg/Kg-dry	1	12/22/2016
2-Butanone	ND	0.075		mg/Kg-dry	1	12/22/2016
Carbon disulfide	ND	0.050		mg/Kg-dry	1	12/22/2016
Carbon tetrachloride	ND	0.0050		mg/Kg-dry	1	12/22/2016
Chlorobenzene	ND	0.0050		mg/Kg-dry	1	12/22/2016
Chloroethane	ND	0.010		mg/Kg-dry	1	12/22/2016
Chloroform	ND	0.0050		mg/Kg-dry	1	12/22/2016
Chloromethane	ND	0.010		mg/Kg-dry	1	12/22/2016
Dibromochloromethane	ND	0.0050		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethane	ND	0.0050		mg/Kg-dry	1	12/22/2016
1,2-Dichloroethane	ND	0.0050		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethene	ND	0.0050		mg/Kg-dry	1	12/22/2016
cis-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	12/22/2016
trans-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	12/22/2016
1,2-Dichloropropane	ND	0.0050		mg/Kg-dry	1	12/22/2016
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	12/22/2016
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	12/22/2016
Ethylbenzene	ND	0.0050		mg/Kg-dry	1	12/22/2016
2-Hexanone	ND	0.020		mg/Kg-dry	1	12/22/2016
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	12/22/2016
Methylene chloride	ND	0.010		mg/Kg-dry	1	12/22/2016
Methyl tert-butyl ether	ND	0.0050		mg/Kg-dry	1	12/22/2016
Styrene	ND	0.0050		mg/Kg-dry	1	12/22/2016
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/Kg-dry	1	12/22/2016
Tetrachloroethene	ND	0.0050		mg/Kg-dry	1	12/22/2016
Toluene	ND	0.0050		mg/Kg-dry	1	12/22/2016
1,1,1-Trichloroethane	ND	0.0050		mg/Kg-dry	1	12/22/2016
1,1,2-Trichloroethane	ND	0.0050		mg/Kg-dry	1	12/22/2016
Trichloroethene	0.012	0.0050		mg/Kg-dry	1	12/22/2016
Vinyl chloride	ND	0.0050		mg/Kg-dry	1	12/22/2016
Xylenes, Total	ND	0.015		mg/Kg-dry	1	12/22/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
Acenaphthene	ND	0.039		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.039		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-004

Client Sample ID: RPM-SB-52-3
Collection Date: 12/19/2016 9:55:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP	
Anthracene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	12/21/2016
Chrysene	ND	0.039		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	12/21/2016
Fluoranthene	ND	0.039		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.039		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.039		mg/Kg-dry	1	12/21/2016
Phenanthrene	ND	0.039		mg/Kg-dry	1	12/21/2016
Pyrene	ND	0.039		mg/Kg-dry	1	12/21/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/20/2016		Analyst: GVC	
Aroclor 1016	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1221	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1232	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1242	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1248	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1254	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1260	ND	0.095		mg/Kg-dry	1	12/20/2016
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Arsenic	ND	1.1		mg/Kg-dry	10	12/28/2016
Barium	4.3	1.1		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.53		mg/Kg-dry	10	12/28/2016
Chromium	3.4	1.1		mg/Kg-dry	10	12/28/2016
Lead	3.2	0.53		mg/Kg-dry	10	12/28/2016
Selenium	ND	1.1		mg/Kg-dry	10	12/28/2016
Silver	ND	1.1		mg/Kg-dry	10	12/28/2016
Mercury						
	SW7471A		Prep Date: 12/22/2016		Analyst: LB	
Mercury	ND	0.018		mg/Kg-dry	1	12/22/2016
Percent Moisture						
	D2974		Prep Date: 12/20/2016		Analyst: GH	
Percent Moisture	16.3	0.2	*	wt%	1	12/21/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120599 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120599-005

Client Sample ID: RPM-SB-51-1
 Collection Date: 12/19/2016 10:15:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/19/2016		Analyst: RRS
Acetone	ND	0.11		mg/Kg-dry	1	12/22/2016
Benzene	ND	0.0073		mg/Kg-dry	1	12/22/2016
Bromodichloromethane	ND	0.0073		mg/Kg-dry	1	12/22/2016
Bromoform	ND	0.0073		mg/Kg-dry	1	12/22/2016
Bromomethane	ND	0.015		mg/Kg-dry	1	12/22/2016
2-Butanone	ND	0.11		mg/Kg-dry	1	12/22/2016
Carbon disulfide	ND	0.073		mg/Kg-dry	1	12/22/2016
Carbon tetrachloride	ND	0.0073		mg/Kg-dry	1	12/22/2016
Chlorobenzene	ND	0.0073		mg/Kg-dry	1	12/22/2016
Chloroethane	ND	0.015		mg/Kg-dry	1	12/22/2016
Chloroform	ND	0.0073		mg/Kg-dry	1	12/22/2016
Chloromethane	ND	0.015		mg/Kg-dry	1	12/22/2016
Dibromochloromethane	ND	0.0073		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethane	ND	0.0073		mg/Kg-dry	1	12/22/2016
1,2-Dichloroethane	ND	0.0073		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethene	ND	0.0073		mg/Kg-dry	1	12/22/2016
cis-1,2-Dichloroethene	ND	0.0073		mg/Kg-dry	1	12/22/2016
trans-1,2-Dichloroethene	ND	0.0073		mg/Kg-dry	1	12/22/2016
1,2-Dichloropropane	ND	0.0073		mg/Kg-dry	1	12/22/2016
cis-1,3-Dichloropropene	ND	0.0029		mg/Kg-dry	1	12/22/2016
trans-1,3-Dichloropropene	ND	0.0029		mg/Kg-dry	1	12/22/2016
Ethylbenzene	ND	0.0073		mg/Kg-dry	1	12/22/2016
2-Hexanone	ND	0.029		mg/Kg-dry	1	12/22/2016
4-Methyl-2-pentanone	ND	0.029		mg/Kg-dry	1	12/22/2016
Methylene chloride	ND	0.015		mg/Kg-dry	1	12/22/2016
Methyl tert-butyl ether	ND	0.0073		mg/Kg-dry	1	12/22/2016
Styrene	ND	0.0073		mg/Kg-dry	1	12/22/2016
1,1,2,2-Tetrachloroethane	ND	0.0073		mg/Kg-dry	1	12/22/2016
Tetrachloroethene	ND	0.0073		mg/Kg-dry	1	12/22/2016
Toluene	ND	0.0073		mg/Kg-dry	1	12/22/2016
1,1,1-Trichloroethane	ND	0.0073		mg/Kg-dry	1	12/22/2016
1,1,2-Trichloroethane	ND	0.0073		mg/Kg-dry	1	12/22/2016
Trichloroethene	ND	0.0073		mg/Kg-dry	1	12/22/2016
Vinyl chloride	ND	0.0073		mg/Kg-dry	1	12/22/2016
Xylenes, Total	ND	0.022		mg/Kg-dry	1	12/22/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
Acenaphthene	0.075	0.038		mg/Kg-dry	1	12/21/2016
Acenaphthylene	0.040	0.038		mg/Kg-dry	1	12/21/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-005

Client Sample ID: RPM-SB-51-1
Collection Date: 12/19/2016 10:15:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
Anthracene	0.26	0.038		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	0.76	0.038		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	0.76	0.038		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	0.78	0.038		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	0.47	0.038		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	0.56	0.038		mg/Kg-dry	1	12/21/2016
Chrysene	0.94	0.038		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	0.27	0.038		mg/Kg-dry	1	12/21/2016
Fluoranthene	1.5	0.038		mg/Kg-dry	1	12/21/2016
Fluorene	0.090	0.038		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	0.41	0.038		mg/Kg-dry	1	12/21/2016
Naphthalene	0.068	0.038		mg/Kg-dry	1	12/21/2016
Phenanthrene	0.98	0.038		mg/Kg-dry	1	12/21/2016
Pyrene	1.4	0.038		mg/Kg-dry	1	12/21/2016
PCBs		SW8082 (SW3550B)		Prep Date: 12/21/2016		Analyst: GVC
Aroclor 1016	ND	0.093		mg/Kg-dry	1	12/21/2016
Aroclor 1221	ND	0.093		mg/Kg-dry	1	12/21/2016
Aroclor 1232	ND	0.093		mg/Kg-dry	1	12/21/2016
Aroclor 1242	ND	0.093		mg/Kg-dry	1	12/21/2016
Aroclor 1248	ND	0.093		mg/Kg-dry	1	12/21/2016
Aroclor 1254	ND	0.093		mg/Kg-dry	1	12/21/2016
Aroclor 1260	ND	0.093		mg/Kg-dry	1	12/21/2016
Pesticides		SW8081 (SW3550B)		Prep Date: 12/21/2016		Analyst: GVC
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	12/21/2016
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	12/21/2016
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	12/21/2016
Aldrin	ND	0.0019		mg/Kg-dry	1	12/21/2016
alpha-BHC	ND	0.0019		mg/Kg-dry	1	12/21/2016
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	12/21/2016
beta-BHC	ND	0.0019		mg/Kg-dry	1	12/21/2016
Chlordane	ND	0.019		mg/Kg-dry	1	12/21/2016
delta-BHC	ND	0.0019		mg/Kg-dry	1	12/21/2016
Dieldrin	ND	0.0019		mg/Kg-dry	1	12/21/2016
Endosulfan I	ND	0.0019		mg/Kg-dry	1	12/21/2016
Endosulfan II	ND	0.0019		mg/Kg-dry	1	12/21/2016
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	12/21/2016
Endrin	ND	0.0019		mg/Kg-dry	1	12/21/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-005

Client Sample ID: RPM-SB-51-1
Collection Date: 12/19/2016 10:15:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides						
	SW8081 (SW3550B)				Prep Date: 12/21/2016	Analyst: GVC
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	12/21/2016
Endrin ketone	ND	0.0019		mg/Kg-dry	1	12/21/2016
gamma-BHC	ND	0.0019		mg/Kg-dry	1	12/21/2016
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	12/21/2016
Heptachlor	ND	0.0019		mg/Kg-dry	1	12/21/2016
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	12/21/2016
Methoxychlor	ND	0.0019		mg/Kg-dry	1	12/21/2016
Toxaphene	ND	0.038		mg/Kg-dry	1	12/21/2016
Metals by ICP/MS						
	SW6020 (SW3050B)				Prep Date: 12/27/2016	Analyst: JG
Aluminum	4300	21		mg/Kg-dry	10	12/27/2016
Antimony	ND	4.1		mg/Kg-dry	10	12/27/2016
Arsenic	11	1.0		mg/Kg-dry	10	12/27/2016
Barium	200	1.0		mg/Kg-dry	10	12/27/2016
Beryllium	0.71	0.52		mg/Kg-dry	10	12/27/2016
Cadmium	0.68	0.52		mg/Kg-dry	10	12/27/2016
Calcium	39000	62		mg/Kg-dry	10	12/27/2016
Chromium	8.8	1.0		mg/Kg-dry	10	12/27/2016
Cobalt	4.7	1.0		mg/Kg-dry	10	12/27/2016
Copper	83	2.6		mg/Kg-dry	10	12/27/2016
Iron	11000	310		mg/Kg-dry	100	12/27/2016
Lead	270	0.52		mg/Kg-dry	10	12/27/2016
Magnesium	19000	31		mg/Kg-dry	10	12/27/2016
Manganese	130	1.0		mg/Kg-dry	10	12/27/2016
Nickel	11	1.0		mg/Kg-dry	10	12/27/2016
Potassium	610	31		mg/Kg-dry	10	12/27/2016
Selenium	1.7	1.0		mg/Kg-dry	10	12/27/2016
Silver	ND	1.0		mg/Kg-dry	10	12/27/2016
Sodium	290	62		mg/Kg-dry	10	12/27/2016
Thallium	ND	1.0		mg/Kg-dry	10	12/27/2016
Vanadium	21	1.0		mg/Kg-dry	10	12/27/2016
Zinc	210	5.2		mg/Kg-dry	10	12/27/2016
Mercury						
	SW7471A				Prep Date: 12/22/2016	Analyst: LB
Mercury	0.14	0.022		mg/Kg-dry	1	12/22/2016
Cyanide, Total						
	SW9012A				Prep Date: 12/20/2016	Analyst: MD
Cyanide	ND	0.29		mg/Kg-dry	1	12/22/2016
pH (25 °C)						
	SW9045C				Prep Date: 12/20/2016	Analyst: PBG

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120599 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120599-005

Client Sample ID: RPM-SB-51-1
 Collection Date: 12/19/2016 10:15:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C				Prep Date: 12/20/2016	Analyst: PBG
pH	7.9			pH Units	1	12/20/2016
Percent Moisture	D2974				Prep Date: 12/20/2016	Analyst: GH
Percent Moisture	13.8	0.2	*	wt%	1	12/21/2016

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120599 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120599-006

Client Sample ID: RPM-SB-51-2
 Collection Date: 12/19/2016 10:25:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/19/2016		Analyst: RRS
Acetone	ND	0.089		mg/Kg-dry	1	12/22/2016
Benzene	ND	0.0059		mg/Kg-dry	1	12/22/2016
Bromodichloromethane	ND	0.0059		mg/Kg-dry	1	12/22/2016
Bromoform	ND	0.0059		mg/Kg-dry	1	12/22/2016
Bromomethane	ND	0.012		mg/Kg-dry	1	12/22/2016
2-Butanone	ND	0.089		mg/Kg-dry	1	12/22/2016
Carbon disulfide	ND	0.059		mg/Kg-dry	1	12/22/2016
Carbon tetrachloride	ND	0.0059		mg/Kg-dry	1	12/22/2016
Chlorobenzene	ND	0.0059		mg/Kg-dry	1	12/22/2016
Chloroethane	ND	0.012		mg/Kg-dry	1	12/22/2016
Chloroform	ND	0.0059		mg/Kg-dry	1	12/22/2016
Chloromethane	ND	0.012		mg/Kg-dry	1	12/22/2016
Dibromochloromethane	ND	0.0059		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethane	ND	0.0059		mg/Kg-dry	1	12/22/2016
1,2-Dichloroethane	ND	0.0059		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/22/2016
cis-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/22/2016
trans-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/22/2016
1,2-Dichloropropane	ND	0.0059		mg/Kg-dry	1	12/22/2016
cis-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	12/22/2016
trans-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	12/22/2016
Ethylbenzene	ND	0.0059		mg/Kg-dry	1	12/22/2016
2-Hexanone	ND	0.024		mg/Kg-dry	1	12/22/2016
4-Methyl-2-pentanone	ND	0.024		mg/Kg-dry	1	12/22/2016
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/22/2016
Methyl tert-butyl ether	ND	0.0059		mg/Kg-dry	1	12/22/2016
Styrene	ND	0.0059		mg/Kg-dry	1	12/22/2016
1,1,2,2-Tetrachloroethane	ND	0.0059		mg/Kg-dry	1	12/22/2016
Tetrachloroethene	ND	0.0059		mg/Kg-dry	1	12/22/2016
Toluene	ND	0.0059		mg/Kg-dry	1	12/22/2016
1,1,1-Trichloroethane	ND	0.0059		mg/Kg-dry	1	12/22/2016
1,1,2-Trichloroethane	ND	0.0059		mg/Kg-dry	1	12/22/2016
Trichloroethene	ND	0.0059		mg/Kg-dry	1	12/22/2016
Vinyl chloride	ND	0.0059		mg/Kg-dry	1	12/22/2016
Xylenes, Total	ND	0.018		mg/Kg-dry	1	12/22/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
Acenaphthene	ND	0.040		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.040		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-006

Client Sample ID: RPM-SB-51-2
Collection Date: 12/19/2016 10:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
Anthracene	ND	0.040		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	12/21/2016
Chrysene	ND	0.040		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	12/21/2016
Fluoranthene	ND	0.040		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.040		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.040		mg/Kg-dry	1	12/21/2016
Phenanthrene	ND	0.040		mg/Kg-dry	1	12/21/2016
Pyrene	ND	0.040		mg/Kg-dry	1	12/21/2016
PCBs		SW8082 (SW3550B)		Prep Date: 12/21/2016		Analyst: GVC
Aroclor 1016	ND	0.097		mg/Kg-dry	1	12/21/2016
Aroclor 1221	ND	0.097		mg/Kg-dry	1	12/21/2016
Aroclor 1232	ND	0.097		mg/Kg-dry	1	12/21/2016
Aroclor 1242	ND	0.097		mg/Kg-dry	1	12/21/2016
Aroclor 1248	ND	0.097		mg/Kg-dry	1	12/21/2016
Aroclor 1254	ND	0.097		mg/Kg-dry	1	12/21/2016
Aroclor 1260	ND	0.097		mg/Kg-dry	1	12/21/2016
Pesticides		SW8081 (SW3550B)		Prep Date: 12/21/2016		Analyst: GVC
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	12/21/2016
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	12/21/2016
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	12/21/2016
Aldrin	ND	0.0019		mg/Kg-dry	1	12/21/2016
alpha-BHC	ND	0.0019		mg/Kg-dry	1	12/21/2016
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	12/21/2016
beta-BHC	ND	0.0019		mg/Kg-dry	1	12/21/2016
Chlordane	ND	0.019		mg/Kg-dry	1	12/21/2016
delta-BHC	ND	0.0019		mg/Kg-dry	1	12/21/2016
Dieldrin	ND	0.0019		mg/Kg-dry	1	12/21/2016
Endosulfan I	ND	0.0019		mg/Kg-dry	1	12/21/2016
Endosulfan II	ND	0.0019		mg/Kg-dry	1	12/21/2016
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	12/21/2016
Endrin	ND	0.0019		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-006

Client Sample ID: RPM-SB-51-2
Collection Date: 12/19/2016 10:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)		Prep Date: 12/21/2016		Analyst: GVC	
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	12/21/2016
Endrin ketone	ND	0.0019		mg/Kg-dry	1	12/21/2016
gamma-BHC	ND	0.0019		mg/Kg-dry	1	12/21/2016
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	12/21/2016
Heptachlor	ND	0.0019		mg/Kg-dry	1	12/21/2016
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	12/21/2016
Methoxychlor	ND	0.0019		mg/Kg-dry	1	12/21/2016
Toxaphene	ND	0.040		mg/Kg-dry	1	12/21/2016
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Aluminum	1400	21		mg/Kg-dry	10	12/27/2016
Antimony	ND	4.2		mg/Kg-dry	10	12/27/2016
Arsenic	2.7	1.0		mg/Kg-dry	10	12/27/2016
Barium	4.3	1.0		mg/Kg-dry	10	12/27/2016
Beryllium	ND	0.52		mg/Kg-dry	10	12/27/2016
Cadmium	ND	0.52		mg/Kg-dry	10	12/27/2016
Calcium	44000	63		mg/Kg-dry	10	12/27/2016
Chromium	3.8	1.0		mg/Kg-dry	10	12/27/2016
Cobalt	3.5	1.0		mg/Kg-dry	10	12/27/2016
Copper	3.2	2.6		mg/Kg-dry	10	12/27/2016
Iron	4900	31		mg/Kg-dry	10	12/27/2016
Lead	4.0	0.52		mg/Kg-dry	10	12/27/2016
Magnesium	20000	31		mg/Kg-dry	10	12/27/2016
Manganese	190	1.0		mg/Kg-dry	10	12/27/2016
Nickel	5.8	1.0		mg/Kg-dry	10	12/27/2016
Potassium	330	31		mg/Kg-dry	10	12/27/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/27/2016
Silver	ND	1.0		mg/Kg-dry	10	12/27/2016
Sodium	100	63		mg/Kg-dry	10	12/27/2016
Thallium	ND	1.0		mg/Kg-dry	10	12/27/2016
Vanadium	9.5	1.0		mg/Kg-dry	10	12/27/2016
Zinc	13	5.2		mg/Kg-dry	10	12/27/2016
Mercury	SW7471A		Prep Date: 12/22/2016		Analyst: LB	
Mercury	ND	0.022		mg/Kg-dry	1	12/22/2016
Cyanide, Total	SW9012A		Prep Date: 12/20/2016		Analyst: MD	
Cyanide	ND	0.30		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/20/2016		Analyst: PBG	

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120599 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120599-006

Client Sample ID: RPM-SB-51-2
 Collection Date: 12/19/2016 10:25:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C				Prep Date: 12/20/2016	Analyst: PBG
pH	8.4			pH Units	1	12/20/2016
Percent Moisture	D2974				Prep Date: 12/20/2016	Analyst: GH
Percent Moisture	17.6	0.2	*	wt%	1	12/21/2016

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-007

Client Sample ID: RPM-SB-51-3
Collection Date: 12/19/2016 10:35:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/19/2016		Analyst: RRS
Acetone	ND	0.11		mg/Kg-dry	1	12/22/2016
Benzene	ND	0.0071		mg/Kg-dry	1	12/22/2016
Bromodichloromethane	ND	0.0071		mg/Kg-dry	1	12/22/2016
Bromoform	ND	0.0071		mg/Kg-dry	1	12/22/2016
Bromomethane	ND	0.014		mg/Kg-dry	1	12/22/2016
2-Butanone	ND	0.11		mg/Kg-dry	1	12/22/2016
Carbon disulfide	ND	0.071		mg/Kg-dry	1	12/22/2016
Carbon tetrachloride	ND	0.0071		mg/Kg-dry	1	12/22/2016
Chlorobenzene	ND	0.0071		mg/Kg-dry	1	12/22/2016
Chloroethane	ND	0.014		mg/Kg-dry	1	12/22/2016
Chloroform	ND	0.0071		mg/Kg-dry	1	12/22/2016
Chloromethane	ND	0.014		mg/Kg-dry	1	12/22/2016
Dibromochloromethane	ND	0.0071		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethane	ND	0.0071		mg/Kg-dry	1	12/22/2016
1,2-Dichloroethane	ND	0.0071		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethene	ND	0.0071		mg/Kg-dry	1	12/22/2016
cis-1,2-Dichloroethene	ND	0.0071		mg/Kg-dry	1	12/22/2016
trans-1,2-Dichloroethene	ND	0.0071		mg/Kg-dry	1	12/22/2016
1,2-Dichloropropane	ND	0.0071		mg/Kg-dry	1	12/22/2016
cis-1,3-Dichloropropene	ND	0.0028		mg/Kg-dry	1	12/22/2016
trans-1,3-Dichloropropene	ND	0.0028		mg/Kg-dry	1	12/22/2016
Ethylbenzene	ND	0.0071		mg/Kg-dry	1	12/22/2016
2-Hexanone	ND	0.028		mg/Kg-dry	1	12/22/2016
4-Methyl-2-pentanone	ND	0.028		mg/Kg-dry	1	12/22/2016
Methylene chloride	ND	0.014		mg/Kg-dry	1	12/22/2016
Methyl tert-butyl ether	ND	0.0071		mg/Kg-dry	1	12/22/2016
Styrene	ND	0.0071		mg/Kg-dry	1	12/22/2016
1,1,2,2-Tetrachloroethane	ND	0.0071		mg/Kg-dry	1	12/22/2016
Tetrachloroethene	ND	0.0071		mg/Kg-dry	1	12/22/2016
Toluene	ND	0.0071		mg/Kg-dry	1	12/22/2016
1,1,1-Trichloroethane	ND	0.0071		mg/Kg-dry	1	12/22/2016
1,1,2-Trichloroethane	ND	0.0071		mg/Kg-dry	1	12/22/2016
Trichloroethene	ND	0.0071		mg/Kg-dry	1	12/22/2016
Vinyl chloride	ND	0.0071		mg/Kg-dry	1	12/22/2016
Xylenes, Total	ND	0.021		mg/Kg-dry	1	12/22/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
Acenaphthene	ND	0.040		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.040		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-007

Client Sample ID: RPM-SB-51-3
Collection Date: 12/19/2016 10:35:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP	
Anthracene	ND	0.040		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	12/21/2016
Chrysene	ND	0.040		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	12/21/2016
Fluoranthene	ND	0.040		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.040		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.040		mg/Kg-dry	1	12/21/2016
Phenanthrene	ND	0.040		mg/Kg-dry	1	12/21/2016
Pyrene	ND	0.040		mg/Kg-dry	1	12/21/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/20/2016		Analyst: GVC	
Aroclor 1016	ND	0.094		mg/Kg-dry	1	12/20/2016
Aroclor 1221	ND	0.094		mg/Kg-dry	1	12/20/2016
Aroclor 1232	ND	0.094		mg/Kg-dry	1	12/20/2016
Aroclor 1242	ND	0.094		mg/Kg-dry	1	12/20/2016
Aroclor 1248	ND	0.094		mg/Kg-dry	1	12/20/2016
Aroclor 1254	ND	0.094		mg/Kg-dry	1	12/20/2016
Aroclor 1260	ND	0.094		mg/Kg-dry	1	12/20/2016
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Arsenic	2.0	1.1		mg/Kg-dry	10	12/28/2016
Barium	3.8	1.1		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.53		mg/Kg-dry	10	12/28/2016
Chromium	3.4	1.1		mg/Kg-dry	10	12/28/2016
Lead	3.1	0.53		mg/Kg-dry	10	12/28/2016
Selenium	ND	1.1		mg/Kg-dry	10	12/28/2016
Silver	ND	1.1		mg/Kg-dry	10	12/28/2016
Mercury						
	SW7471A		Prep Date: 12/22/2016		Analyst: LB	
Mercury	ND	0.022		mg/Kg-dry	1	12/22/2016
Percent Moisture						
	D2974		Prep Date: 12/20/2016		Analyst: GH	
Percent Moisture	17.4	0.2	*	wt%	1	12/21/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-008

Client Sample ID: RPM-SB-50-1
Collection Date: 12/19/2016 11:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/19/2016		Analyst: RRS
Acetone	ND	0.15		mg/Kg-dry	1	12/22/2016
Benzene	ND	0.0097		mg/Kg-dry	1	12/22/2016
Bromodichloromethane	ND	0.0097		mg/Kg-dry	1	12/22/2016
Bromoform	ND	0.0097		mg/Kg-dry	1	12/22/2016
Bromomethane	ND	0.019		mg/Kg-dry	1	12/22/2016
2-Butanone	ND	0.15		mg/Kg-dry	1	12/22/2016
Carbon disulfide	ND	0.097		mg/Kg-dry	1	12/22/2016
Carbon tetrachloride	ND	0.0097		mg/Kg-dry	1	12/22/2016
Chlorobenzene	ND	0.0097		mg/Kg-dry	1	12/22/2016
Chloroethane	ND	0.019		mg/Kg-dry	1	12/22/2016
Chloroform	ND	0.0097		mg/Kg-dry	1	12/22/2016
Chloromethane	ND	0.019		mg/Kg-dry	1	12/22/2016
Dibromochloromethane	ND	0.0097		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethane	ND	0.0097		mg/Kg-dry	1	12/22/2016
1,2-Dichloroethane	ND	0.0097		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethene	ND	0.0097		mg/Kg-dry	1	12/22/2016
cis-1,2-Dichloroethene	ND	0.0097		mg/Kg-dry	1	12/22/2016
trans-1,2-Dichloroethene	ND	0.0097		mg/Kg-dry	1	12/22/2016
1,2-Dichloropropane	ND	0.0097		mg/Kg-dry	1	12/22/2016
cis-1,3-Dichloropropene	ND	0.0039		mg/Kg-dry	1	12/22/2016
trans-1,3-Dichloropropene	ND	0.0039		mg/Kg-dry	1	12/22/2016
Ethylbenzene	ND	0.0097		mg/Kg-dry	1	12/22/2016
2-Hexanone	ND	0.039		mg/Kg-dry	1	12/22/2016
4-Methyl-2-pentanone	ND	0.039		mg/Kg-dry	1	12/22/2016
Methylene chloride	ND	0.019		mg/Kg-dry	1	12/22/2016
Methyl tert-butyl ether	ND	0.0097		mg/Kg-dry	1	12/22/2016
Styrene	ND	0.0097		mg/Kg-dry	1	12/22/2016
1,1,2,2-Tetrachloroethane	ND	0.0097		mg/Kg-dry	1	12/22/2016
Tetrachloroethene	ND	0.0097		mg/Kg-dry	1	12/22/2016
Toluene	ND	0.0097		mg/Kg-dry	1	12/22/2016
1,1,1-Trichloroethane	ND	0.0097		mg/Kg-dry	1	12/22/2016
1,1,2-Trichloroethane	ND	0.0097		mg/Kg-dry	1	12/22/2016
Trichloroethene	ND	0.0097		mg/Kg-dry	1	12/22/2016
Vinyl chloride	ND	0.0097		mg/Kg-dry	1	12/22/2016
Xylenes, Total	ND	0.029		mg/Kg-dry	1	12/22/2016
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
Acenaphthene	ND	0.039		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.039		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-008

Client Sample ID: RPM-SB-50-1
Collection Date: 12/19/2016 11:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
Aniline	ND	0.39		mg/Kg-dry	1	12/21/2016
Anthracene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	0.15	0.039		mg/Kg-dry	1	12/21/2016
Benzidine	ND	0.39		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	0.15	0.039		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	0.21	0.039		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	0.13	0.039		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	0.13	0.039		mg/Kg-dry	1	12/21/2016
Benzoic acid	ND	0.98		mg/Kg-dry	1	12/21/2016
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	12/21/2016
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	12/21/2016
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	12/21/2016
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	12/21/2016
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	12/21/2016
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	12/21/2016
Carbazole	ND	0.20		mg/Kg-dry	1	12/21/2016
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	12/21/2016
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	12/21/2016
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	12/21/2016
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	12/21/2016
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	12/21/2016
Chrysene	0.26	0.039		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	0.086	0.039		mg/Kg-dry	1	12/21/2016
Dibenzofuran	ND	0.20		mg/Kg-dry	1	12/21/2016
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	12/21/2016
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	12/21/2016
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	12/21/2016
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	12/21/2016
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	12/21/2016
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	12/21/2016
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	12/21/2016
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	12/21/2016
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	12/21/2016
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	12/21/2016
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	12/21/2016
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	12/21/2016
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	12/21/2016
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-008

Client Sample ID: RPM-SB-50-1
Collection Date: 12/19/2016 11:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP	
Fluoranthene	0.23	0.039		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.039		mg/Kg-dry	1	12/21/2016
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	12/21/2016
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	12/21/2016
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	12/21/2016
Hexachloroethane	ND	0.20		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	0.10	0.039		mg/Kg-dry	1	12/21/2016
Isophorone	ND	0.20		mg/Kg-dry	1	12/21/2016
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	12/21/2016
2-Methylphenol	ND	0.20		mg/Kg-dry	1	12/21/2016
4-Methylphenol	ND	0.20		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.039		mg/Kg-dry	1	12/21/2016
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	12/21/2016
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	12/21/2016
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	12/21/2016
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	12/21/2016
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	12/21/2016
Nitrobenzene	ND	0.039		mg/Kg-dry	1	12/21/2016
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	12/21/2016
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	12/21/2016
N-Nitrosodiphenylamine	ND	0.039		mg/Kg-dry	1	12/21/2016
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	12/21/2016
Pentachlorophenol	ND	0.039		mg/Kg-dry	1	12/21/2016
Phenanthrene	0.26	0.039		mg/Kg-dry	1	12/21/2016
Phenol	ND	0.20		mg/Kg-dry	1	12/21/2016
Pyrene	0.21	0.039		mg/Kg-dry	1	12/21/2016
Pyridine	ND	0.79		mg/Kg-dry	1	12/21/2016
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	12/21/2016
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	12/21/2016
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	12/21/2016

PCBs	SW8082 (SW3550B)		Prep Date: 12/21/2016		Analyst: GVC	
Aroclor 1016	ND	0.095		mg/Kg-dry	1	12/21/2016
Aroclor 1221	ND	0.095		mg/Kg-dry	1	12/21/2016
Aroclor 1232	ND	0.095		mg/Kg-dry	1	12/21/2016
Aroclor 1242	ND	0.095		mg/Kg-dry	1	12/21/2016
Aroclor 1248	ND	0.095		mg/Kg-dry	1	12/21/2016
Aroclor 1254	ND	0.095		mg/Kg-dry	1	12/21/2016
Aroclor 1260	ND	0.095		mg/Kg-dry	1	12/21/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-008

Client Sample ID: RPM-SB-50-1
Collection Date: 12/19/2016 11:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides						
	SW8081 (SW3550B)			Prep Date: 12/21/2016		Analyst: GVC
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	12/21/2016
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	12/21/2016
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	12/21/2016
Aldrin	ND	0.0019		mg/Kg-dry	1	12/21/2016
alpha-BHC	ND	0.0019		mg/Kg-dry	1	12/21/2016
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	12/21/2016
beta-BHC	ND	0.0019		mg/Kg-dry	1	12/21/2016
Chlordane	ND	0.019		mg/Kg-dry	1	12/21/2016
delta-BHC	ND	0.0019		mg/Kg-dry	1	12/21/2016
Dieldrin	ND	0.0019		mg/Kg-dry	1	12/21/2016
Endosulfan I	ND	0.0019		mg/Kg-dry	1	12/21/2016
Endosulfan II	ND	0.0019		mg/Kg-dry	1	12/21/2016
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	12/21/2016
Endrin	ND	0.0019		mg/Kg-dry	1	12/21/2016
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	12/21/2016
Endrin ketone	ND	0.0019		mg/Kg-dry	1	12/21/2016
gamma-BHC	ND	0.0019		mg/Kg-dry	1	12/21/2016
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	12/21/2016
Heptachlor	ND	0.0019		mg/Kg-dry	1	12/21/2016
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	12/21/2016
Methoxychlor	ND	0.0019		mg/Kg-dry	1	12/21/2016
Toxaphene	ND	0.039		mg/Kg-dry	1	12/21/2016
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 12/27/2016		Analyst: JG
Aluminum	12000	210		mg/Kg-dry	100	12/27/2016
Antimony	ND	4.1		mg/Kg-dry	10	12/27/2016
Arsenic	23	1.0		mg/Kg-dry	10	12/27/2016
Barium	560	1.0		mg/Kg-dry	10	12/27/2016
Beryllium	2.5	0.51		mg/Kg-dry	10	12/27/2016
Cadmium	ND	0.51		mg/Kg-dry	10	12/27/2016
Calcium	24000	62		mg/Kg-dry	10	12/27/2016
Chromium	8.6	1.0		mg/Kg-dry	10	12/27/2016
Cobalt	8.7	1.0		mg/Kg-dry	10	12/27/2016
Copper	66	2.6		mg/Kg-dry	10	12/27/2016
Iron	10000	310		mg/Kg-dry	100	12/27/2016
Lead	100	0.51		mg/Kg-dry	10	12/27/2016
Magnesium	2700	31		mg/Kg-dry	10	12/27/2016
Manganese	100	1.0		mg/Kg-dry	10	12/27/2016
Nickel	16	1.0		mg/Kg-dry	10	12/27/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-008

Client Sample ID: RPM-SB-50-1
Collection Date: 12/19/2016 11:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Potassium	580	31		mg/Kg-dry	10	12/27/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/27/2016
Silver	ND	1.0		mg/Kg-dry	10	12/27/2016
Sodium	610	62		mg/Kg-dry	10	12/27/2016
Thallium	ND	1.0		mg/Kg-dry	10	12/27/2016
Vanadium	24	1.0		mg/Kg-dry	10	12/27/2016
Zinc	72	5.1		mg/Kg-dry	10	12/27/2016
Mercury	SW7471A		Prep Date: 12/22/2016		Analyst: LB	
Mercury	0.047	0.022		mg/Kg-dry	1	12/22/2016
Cyanide, Total	SW9012A		Prep Date: 12/20/2016		Analyst: MD	
Cyanide	ND	0.30		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/20/2016		Analyst: PBG	
pH	8.1			pH Units	1	12/20/2016
Percent Moisture	D2974		Prep Date: 12/20/2016		Analyst: GH	
Percent Moisture	15.9	0.2	*	wt%	1	12/21/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120599 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120599-009

Client Sample ID: RPM-SB-50-2
 Collection Date: 12/19/2016 11:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/19/2016		Analyst: RRS
Acetone	ND	0.081		mg/Kg-dry	1	12/22/2016
Benzene	ND	0.0054		mg/Kg-dry	1	12/22/2016
Bromodichloromethane	ND	0.0054		mg/Kg-dry	1	12/22/2016
Bromoform	ND	0.0054		mg/Kg-dry	1	12/22/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/22/2016
2-Butanone	ND	0.081		mg/Kg-dry	1	12/22/2016
Carbon disulfide	ND	0.054		mg/Kg-dry	1	12/22/2016
Carbon tetrachloride	ND	0.0054		mg/Kg-dry	1	12/22/2016
Chlorobenzene	ND	0.0054		mg/Kg-dry	1	12/22/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/22/2016
Chloroform	ND	0.0054		mg/Kg-dry	1	12/22/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/22/2016
Dibromochloromethane	ND	0.0054		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethane	ND	0.0054		mg/Kg-dry	1	12/22/2016
1,2-Dichloroethane	ND	0.0054		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethene	ND	0.0054		mg/Kg-dry	1	12/22/2016
cis-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	12/22/2016
trans-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	12/22/2016
1,2-Dichloropropane	ND	0.0054		mg/Kg-dry	1	12/22/2016
cis-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	12/22/2016
trans-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	12/22/2016
Ethylbenzene	ND	0.0054		mg/Kg-dry	1	12/22/2016
2-Hexanone	ND	0.022		mg/Kg-dry	1	12/22/2016
4-Methyl-2-pentanone	ND	0.022		mg/Kg-dry	1	12/22/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/22/2016
Methyl tert-butyl ether	ND	0.0054		mg/Kg-dry	1	12/22/2016
Styrene	ND	0.0054		mg/Kg-dry	1	12/22/2016
1,1,2,2-Tetrachloroethane	ND	0.0054		mg/Kg-dry	1	12/22/2016
Tetrachloroethene	ND	0.0054		mg/Kg-dry	1	12/22/2016
Toluene	ND	0.0054		mg/Kg-dry	1	12/22/2016
1,1,1-Trichloroethane	ND	0.0054		mg/Kg-dry	1	12/22/2016
1,1,2-Trichloroethane	ND	0.0054		mg/Kg-dry	1	12/22/2016
Trichloroethene	ND	0.0054		mg/Kg-dry	1	12/22/2016
Vinyl chloride	ND	0.0054		mg/Kg-dry	1	12/22/2016
Xylenes, Total	ND	0.016		mg/Kg-dry	1	12/22/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
Acenaphthene	ND	0.035		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.035		mg/Kg-dry	1	12/21/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-009

Client Sample ID: RPM-SB-50-2
Collection Date: 12/19/2016 11:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
Anthracene	ND	0.035		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	ND	0.035		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	ND	0.035		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	ND	0.035		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	ND	0.035		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	ND	0.035		mg/Kg-dry	1	12/21/2016
Chrysene	ND	0.035		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	ND	0.035		mg/Kg-dry	1	12/21/2016
Fluoranthene	ND	0.035		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.035		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	ND	0.035		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.035		mg/Kg-dry	1	12/21/2016
Phenanthrene	ND	0.035		mg/Kg-dry	1	12/21/2016
Pyrene	ND	0.035		mg/Kg-dry	1	12/21/2016
PCBs		SW8082 (SW3550B)		Prep Date: 12/21/2016		Analyst: GVC
Aroclor 1016	ND	0.083		mg/Kg-dry	1	12/21/2016
Aroclor 1221	ND	0.083		mg/Kg-dry	1	12/21/2016
Aroclor 1232	ND	0.083		mg/Kg-dry	1	12/21/2016
Aroclor 1242	ND	0.083		mg/Kg-dry	1	12/21/2016
Aroclor 1248	ND	0.083		mg/Kg-dry	1	12/21/2016
Aroclor 1254	ND	0.083		mg/Kg-dry	1	12/21/2016
Aroclor 1260	ND	0.083		mg/Kg-dry	1	12/21/2016
Pesticides		SW8081 (SW3550B)		Prep Date: 12/21/2016		Analyst: GVC
4,4'-DDD	ND	0.0017		mg/Kg-dry	1	12/21/2016
4,4'-DDE	ND	0.0017		mg/Kg-dry	1	12/21/2016
4,4'-DDT	ND	0.0017		mg/Kg-dry	1	12/21/2016
Aldrin	ND	0.0017		mg/Kg-dry	1	12/21/2016
alpha-BHC	ND	0.0017		mg/Kg-dry	1	12/21/2016
alpha-Chlordane	ND	0.0017		mg/Kg-dry	1	12/21/2016
beta-BHC	ND	0.0017		mg/Kg-dry	1	12/21/2016
Chlordane	ND	0.017		mg/Kg-dry	1	12/21/2016
delta-BHC	ND	0.0017		mg/Kg-dry	1	12/21/2016
Dieldrin	ND	0.0017		mg/Kg-dry	1	12/21/2016
Endosulfan I	ND	0.0017		mg/Kg-dry	1	12/21/2016
Endosulfan II	ND	0.0017		mg/Kg-dry	1	12/21/2016
Endosulfan sulfate	ND	0.0017		mg/Kg-dry	1	12/21/2016
Endrin	ND	0.0017		mg/Kg-dry	1	12/21/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-009

Client Sample ID: RPM-SB-50-2
Collection Date: 12/19/2016 11:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)		Prep Date: 12/21/2016		Analyst: GVC	
Endrin aldehyde	ND	0.0017		mg/Kg-dry	1	12/21/2016
Endrin ketone	ND	0.0017		mg/Kg-dry	1	12/21/2016
gamma-BHC	ND	0.0017		mg/Kg-dry	1	12/21/2016
gamma-Chlordane	ND	0.0017		mg/Kg-dry	1	12/21/2016
Heptachlor	ND	0.0017		mg/Kg-dry	1	12/21/2016
Heptachlor epoxide	ND	0.0017		mg/Kg-dry	1	12/21/2016
Methoxychlor	ND	0.0017		mg/Kg-dry	1	12/21/2016
Toxaphene	ND	0.034		mg/Kg-dry	1	12/21/2016
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Aluminum	1200	19		mg/Kg-dry	10	12/27/2016
Antimony	ND	3.8		mg/Kg-dry	10	12/27/2016
Arsenic	ND	0.96		mg/Kg-dry	10	12/27/2016
Barium	3.5	0.96		mg/Kg-dry	10	12/27/2016
Beryllium	ND	0.48		mg/Kg-dry	10	12/27/2016
Cadmium	ND	0.48		mg/Kg-dry	10	12/27/2016
Calcium	34000	57		mg/Kg-dry	10	12/27/2016
Chromium	3.3	0.96		mg/Kg-dry	10	12/27/2016
Cobalt	1.8	0.96		mg/Kg-dry	10	12/27/2016
Copper	2.4	2.4		mg/Kg-dry	10	12/27/2016
Iron	3200	29		mg/Kg-dry	10	12/27/2016
Lead	3.2	0.48		mg/Kg-dry	10	12/27/2016
Magnesium	19000	29		mg/Kg-dry	10	12/27/2016
Manganese	160	0.96		mg/Kg-dry	10	12/27/2016
Nickel	3.3	0.96		mg/Kg-dry	10	12/27/2016
Potassium	250	29		mg/Kg-dry	10	12/27/2016
Selenium	ND	0.96		mg/Kg-dry	10	12/27/2016
Silver	ND	0.96		mg/Kg-dry	10	12/27/2016
Sodium	93	57		mg/Kg-dry	10	12/27/2016
Thallium	ND	0.96		mg/Kg-dry	10	12/27/2016
Vanadium	5.4	0.96		mg/Kg-dry	10	12/27/2016
Zinc	17	4.8		mg/Kg-dry	10	12/27/2016
Mercury	SW7471A		Prep Date: 12/22/2016		Analyst: LB	
Mercury	ND	0.019		mg/Kg-dry	1	12/22/2016
Cyanide, Total	SW9012A		Prep Date: 12/20/2016		Analyst: MD	
Cyanide	ND	0.27		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/20/2016		Analyst: PBG	

Qualifiers: ND - Not Detected at the Reporting Limit
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 HT - Sample received past holding time
 * - Non-accredited parameter

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STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-009

Client Sample ID: RPM-SB-50-2
Collection Date: 12/19/2016 11:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C				Prep Date: 12/20/2016	Analyst: PBG
pH	9.0			pH Units	1	12/20/2016
Percent Moisture	D2974				Prep Date: 12/20/2016	Analyst: GH
Percent Moisture	5.9	0.2	*	wt%	1	12/21/2016

Qualifiers:
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 HT - Sample received past holding time
 * - Non-accredited parameter

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-010

Client Sample ID: RPM-SB-50-3
Collection Date: 12/19/2016 11:15:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/19/2016		Analyst: RRS
Acetone	ND	0.090		mg/Kg-dry	1	12/22/2016
Benzene	ND	0.0060		mg/Kg-dry	1	12/22/2016
Bromodichloromethane	ND	0.0060		mg/Kg-dry	1	12/22/2016
Bromoform	ND	0.0060		mg/Kg-dry	1	12/22/2016
Bromomethane	ND	0.012		mg/Kg-dry	1	12/22/2016
2-Butanone	ND	0.090		mg/Kg-dry	1	12/22/2016
Carbon disulfide	ND	0.060		mg/Kg-dry	1	12/22/2016
Carbon tetrachloride	ND	0.0060		mg/Kg-dry	1	12/22/2016
Chlorobenzene	ND	0.0060		mg/Kg-dry	1	12/22/2016
Chloroethane	ND	0.012		mg/Kg-dry	1	12/22/2016
Chloroform	ND	0.0060		mg/Kg-dry	1	12/22/2016
Chloromethane	ND	0.012		mg/Kg-dry	1	12/22/2016
Dibromochloromethane	ND	0.0060		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethane	ND	0.0060		mg/Kg-dry	1	12/22/2016
1,2-Dichloroethane	ND	0.0060		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethene	ND	0.0060		mg/Kg-dry	1	12/22/2016
cis-1,2-Dichloroethene	0.0094	0.0060		mg/Kg-dry	1	12/22/2016
trans-1,2-Dichloroethene	ND	0.0060		mg/Kg-dry	1	12/22/2016
1,2-Dichloropropane	ND	0.0060		mg/Kg-dry	1	12/22/2016
cis-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	12/22/2016
trans-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	12/22/2016
Ethylbenzene	ND	0.0060		mg/Kg-dry	1	12/22/2016
2-Hexanone	ND	0.024		mg/Kg-dry	1	12/22/2016
4-Methyl-2-pentanone	ND	0.024		mg/Kg-dry	1	12/22/2016
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/22/2016
Methyl tert-butyl ether	ND	0.0060		mg/Kg-dry	1	12/22/2016
Styrene	ND	0.0060		mg/Kg-dry	1	12/22/2016
1,1,2,2-Tetrachloroethane	ND	0.0060		mg/Kg-dry	1	12/22/2016
Tetrachloroethene	ND	0.0060		mg/Kg-dry	1	12/22/2016
Toluene	ND	0.0060		mg/Kg-dry	1	12/22/2016
1,1,1-Trichloroethane	ND	0.0060		mg/Kg-dry	1	12/22/2016
1,1,2-Trichloroethane	ND	0.0060		mg/Kg-dry	1	12/22/2016
Trichloroethene	ND	0.0060		mg/Kg-dry	1	12/22/2016
Vinyl chloride	ND	0.0060		mg/Kg-dry	1	12/22/2016
Xylenes, Total	ND	0.018		mg/Kg-dry	1	12/22/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
Acenaphthene	ND	0.039		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.039		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-010

Client Sample ID: RPM-SB-50-3
Collection Date: 12/19/2016 11:15:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP	
Anthracene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	12/21/2016
Chrysene	ND	0.039		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	12/21/2016
Fluoranthene	ND	0.039		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.039		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.039		mg/Kg-dry	1	12/21/2016
Phenanthrene	ND	0.039		mg/Kg-dry	1	12/21/2016
Pyrene	ND	0.039		mg/Kg-dry	1	12/21/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/20/2016		Analyst: GVC	
Aroclor 1016	ND	0.096		mg/Kg-dry	1	12/20/2016
Aroclor 1221	ND	0.096		mg/Kg-dry	1	12/20/2016
Aroclor 1232	ND	0.096		mg/Kg-dry	1	12/20/2016
Aroclor 1242	ND	0.096		mg/Kg-dry	1	12/20/2016
Aroclor 1248	ND	0.096		mg/Kg-dry	1	12/20/2016
Aroclor 1254	ND	0.096		mg/Kg-dry	1	12/20/2016
Aroclor 1260	ND	0.096		mg/Kg-dry	1	12/20/2016
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Arsenic	1.4	1.0		mg/Kg-dry	10	12/28/2016
Barium	3.4	1.0		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.52		mg/Kg-dry	10	12/28/2016
Chromium	2.9	1.0		mg/Kg-dry	10	12/28/2016
Lead	2.5	0.52		mg/Kg-dry	10	12/28/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/28/2016
Silver	ND	1.0		mg/Kg-dry	10	12/28/2016
Mercury						
	SW7471A		Prep Date: 12/22/2016		Analyst: LB	
Mercury	ND	0.022		mg/Kg-dry	1	12/22/2016
Percent Moisture						
	D2974		Prep Date: 12/20/2016		Analyst: GH	
Percent Moisture	16.6	0.2	*	wt%	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120599 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120599-011

Client Sample ID: RPM-SB-49-1
 Collection Date: 12/19/2016 11:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/19/2016		Analyst: RRS
Acetone	ND	0.11		mg/Kg-dry	1	12/22/2016
Benzene	ND	0.0072		mg/Kg-dry	1	12/22/2016
Bromodichloromethane	ND	0.0072		mg/Kg-dry	1	12/22/2016
Bromoform	ND	0.0072		mg/Kg-dry	1	12/22/2016
Bromomethane	ND	0.014		mg/Kg-dry	1	12/22/2016
2-Butanone	ND	0.11		mg/Kg-dry	1	12/22/2016
Carbon disulfide	ND	0.072		mg/Kg-dry	1	12/22/2016
Carbon tetrachloride	ND	0.0072		mg/Kg-dry	1	12/22/2016
Chlorobenzene	ND	0.0072		mg/Kg-dry	1	12/22/2016
Chloroethane	ND	0.014		mg/Kg-dry	1	12/22/2016
Chloroform	ND	0.0072		mg/Kg-dry	1	12/22/2016
Chloromethane	ND	0.014		mg/Kg-dry	1	12/22/2016
Dibromochloromethane	ND	0.0072		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethane	ND	0.0072		mg/Kg-dry	1	12/22/2016
1,2-Dichloroethane	ND	0.0072		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethene	ND	0.0072		mg/Kg-dry	1	12/22/2016
cis-1,2-Dichloroethene	ND	0.0072		mg/Kg-dry	1	12/22/2016
trans-1,2-Dichloroethene	ND	0.0072		mg/Kg-dry	1	12/22/2016
1,2-Dichloropropane	ND	0.0072		mg/Kg-dry	1	12/22/2016
cis-1,3-Dichloropropene	ND	0.0029		mg/Kg-dry	1	12/22/2016
trans-1,3-Dichloropropene	ND	0.0029		mg/Kg-dry	1	12/22/2016
Ethylbenzene	ND	0.0072		mg/Kg-dry	1	12/22/2016
2-Hexanone	ND	0.029		mg/Kg-dry	1	12/22/2016
4-Methyl-2-pentanone	ND	0.029		mg/Kg-dry	1	12/22/2016
Methylene chloride	ND	0.014		mg/Kg-dry	1	12/22/2016
Methyl tert-butyl ether	ND	0.0072		mg/Kg-dry	1	12/22/2016
Styrene	ND	0.0072		mg/Kg-dry	1	12/22/2016
1,1,2,2-Tetrachloroethane	ND	0.0072		mg/Kg-dry	1	12/22/2016
Tetrachloroethene	ND	0.0072		mg/Kg-dry	1	12/22/2016
Toluene	ND	0.0072		mg/Kg-dry	1	12/22/2016
1,1,1-Trichloroethane	ND	0.0072		mg/Kg-dry	1	12/22/2016
1,1,2-Trichloroethane	ND	0.0072		mg/Kg-dry	1	12/22/2016
Trichloroethene	ND	0.0072		mg/Kg-dry	1	12/22/2016
Vinyl chloride	ND	0.0072		mg/Kg-dry	1	12/22/2016
Xylenes, Total	ND	0.022		mg/Kg-dry	1	12/22/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
Acenaphthene	ND	0.038		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.038		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-011

Client Sample ID: RPM-SB-49-1
Collection Date: 12/19/2016 11:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
Anthracene	ND	0.038		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	0.11	0.038		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	0.12	0.038		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	0.14	0.038		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	0.10	0.038		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	0.098	0.038		mg/Kg-dry	1	12/21/2016
Chrysene	0.16	0.038		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	0.053	0.038		mg/Kg-dry	1	12/21/2016
Fluoranthene	0.22	0.038		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.038		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	0.080	0.038		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.038		mg/Kg-dry	1	12/21/2016
Phenanthrene	0.14	0.038		mg/Kg-dry	1	12/21/2016
Pyrene	0.22	0.038		mg/Kg-dry	1	12/21/2016
PCBs		SW8082 (SW3550B)		Prep Date: 12/21/2016		Analyst: GVC
Aroclor 1016	ND	0.092		mg/Kg-dry	1	12/21/2016
Aroclor 1221	ND	0.092		mg/Kg-dry	1	12/21/2016
Aroclor 1232	ND	0.092		mg/Kg-dry	1	12/21/2016
Aroclor 1242	ND	0.092		mg/Kg-dry	1	12/21/2016
Aroclor 1248	ND	0.092		mg/Kg-dry	1	12/21/2016
Aroclor 1254	ND	0.092		mg/Kg-dry	1	12/21/2016
Aroclor 1260	ND	0.092		mg/Kg-dry	1	12/21/2016
Pesticides		SW8081 (SW3550B)		Prep Date: 12/21/2016		Analyst: GVC
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	12/21/2016
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	12/21/2016
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	12/21/2016
Aldrin	ND	0.0018		mg/Kg-dry	1	12/21/2016
alpha-BHC	ND	0.0018		mg/Kg-dry	1	12/21/2016
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	12/21/2016
beta-BHC	ND	0.0018		mg/Kg-dry	1	12/21/2016
Chlordane	ND	0.018		mg/Kg-dry	1	12/21/2016
delta-BHC	ND	0.0018		mg/Kg-dry	1	12/21/2016
Dieldrin	ND	0.0018		mg/Kg-dry	1	12/21/2016
Endosulfan I	ND	0.0018		mg/Kg-dry	1	12/21/2016
Endosulfan II	ND	0.0018		mg/Kg-dry	1	12/21/2016
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	12/21/2016
Endrin	ND	0.0018		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-011

Client Sample ID: RPM-SB-49-1
Collection Date: 12/19/2016 11:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)		Prep Date: 12/21/2016		Analyst: GVC	
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	12/21/2016
Endrin ketone	ND	0.0018		mg/Kg-dry	1	12/21/2016
gamma-BHC	ND	0.0018		mg/Kg-dry	1	12/21/2016
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	12/21/2016
Heptachlor	ND	0.0018		mg/Kg-dry	1	12/21/2016
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	12/21/2016
Methoxychlor	ND	0.0018		mg/Kg-dry	1	12/21/2016
Toxaphene	ND	0.038		mg/Kg-dry	1	12/21/2016
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Aluminum	5700	200		mg/Kg-dry	100	12/27/2016
Antimony	ND	4.1		mg/Kg-dry	10	12/28/2016
Arsenic	11	1.0		mg/Kg-dry	10	12/28/2016
Barium	270	1.0		mg/Kg-dry	10	12/28/2016
Beryllium	0.74	0.51		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.51		mg/Kg-dry	10	12/28/2016
Calcium	21000	61		mg/Kg-dry	10	12/28/2016
Chromium	8.5	1.0		mg/Kg-dry	10	12/28/2016
Cobalt	4.7	1.0		mg/Kg-dry	10	12/28/2016
Copper	78	2.6		mg/Kg-dry	10	12/28/2016
Iron	11000	310		mg/Kg-dry	100	12/27/2016
Lead	170	0.51		mg/Kg-dry	10	12/28/2016
Magnesium	6300	31		mg/Kg-dry	10	12/28/2016
Manganese	120	1.0		mg/Kg-dry	10	12/28/2016
Nickel	10	1.0		mg/Kg-dry	10	12/28/2016
Potassium	480	31		mg/Kg-dry	10	12/28/2016
Selenium	1.2	1.0		mg/Kg-dry	10	12/28/2016
Silver	ND	1.0		mg/Kg-dry	10	12/28/2016
Sodium	530	61		mg/Kg-dry	10	12/28/2016
Thallium	ND	1.0		mg/Kg-dry	10	12/28/2016
Vanadium	19	1.0		mg/Kg-dry	10	12/28/2016
Zinc	150	5.1		mg/Kg-dry	10	12/28/2016
Mercury	SW7471A		Prep Date: 12/22/2016		Analyst: LB	
Mercury	0.19	0.020		mg/Kg-dry	1	12/22/2016
Cyanide, Total	SW9012A		Prep Date: 12/20/2016		Analyst: MD	
Cyanide	ND	0.29		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/20/2016		Analyst: PBG	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-011

Client Sample ID: RPM-SB-49-1
Collection Date: 12/19/2016 11:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C					
pH	8.1			pH Units	1	12/20/2016
Percent Moisture	D2974					
Percent Moisture	13.5	0.2	*	wt%	1	12/21/2016

Prep Date: **12/20/2016** Analyst: **PBG**
 12/20/2016

Prep Date: **12/20/2016** Analyst: **GH**
 12/21/2016

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120599 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120599-012

Client Sample ID: RPM-SB-49-2
 Collection Date: 12/19/2016 11:25:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/19/2016		Analyst: RRS
Acetone	ND	0.088		mg/Kg-dry	1	12/22/2016
Benzene	ND	0.0058		mg/Kg-dry	1	12/22/2016
Bromodichloromethane	ND	0.0058		mg/Kg-dry	1	12/22/2016
Bromoform	ND	0.0058		mg/Kg-dry	1	12/22/2016
Bromomethane	ND	0.012		mg/Kg-dry	1	12/22/2016
2-Butanone	ND	0.088		mg/Kg-dry	1	12/22/2016
Carbon disulfide	ND	0.058		mg/Kg-dry	1	12/22/2016
Carbon tetrachloride	ND	0.0058		mg/Kg-dry	1	12/22/2016
Chlorobenzene	ND	0.0058		mg/Kg-dry	1	12/22/2016
Chloroethane	ND	0.012		mg/Kg-dry	1	12/22/2016
Chloroform	ND	0.0058		mg/Kg-dry	1	12/22/2016
Chloromethane	ND	0.012		mg/Kg-dry	1	12/22/2016
Dibromochloromethane	ND	0.0058		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethane	ND	0.0058		mg/Kg-dry	1	12/22/2016
1,2-Dichloroethane	ND	0.0058		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethene	ND	0.0058		mg/Kg-dry	1	12/22/2016
cis-1,2-Dichloroethene	ND	0.0058		mg/Kg-dry	1	12/22/2016
trans-1,2-Dichloroethene	ND	0.0058		mg/Kg-dry	1	12/22/2016
1,2-Dichloropropane	ND	0.0058		mg/Kg-dry	1	12/22/2016
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/22/2016
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/22/2016
Ethylbenzene	ND	0.0058		mg/Kg-dry	1	12/22/2016
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/22/2016
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/22/2016
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/22/2016
Methyl tert-butyl ether	ND	0.0058		mg/Kg-dry	1	12/22/2016
Styrene	ND	0.0058		mg/Kg-dry	1	12/22/2016
1,1,2,2-Tetrachloroethane	ND	0.0058		mg/Kg-dry	1	12/22/2016
Tetrachloroethene	ND	0.0058		mg/Kg-dry	1	12/22/2016
Toluene	ND	0.0058		mg/Kg-dry	1	12/22/2016
1,1,1-Trichloroethane	ND	0.0058		mg/Kg-dry	1	12/22/2016
1,1,2-Trichloroethane	ND	0.0058		mg/Kg-dry	1	12/22/2016
Trichloroethene	ND	0.0058		mg/Kg-dry	1	12/22/2016
Vinyl chloride	ND	0.0058		mg/Kg-dry	1	12/22/2016
Xylenes, Total	ND	0.018		mg/Kg-dry	1	12/22/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
Acenaphthene	ND	0.035		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.035		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-012

Client Sample ID: RPM-SB-49-2
Collection Date: 12/19/2016 11:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP	
Anthracene	ND	0.035		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	ND	0.035		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	ND	0.035		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	ND	0.035		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	ND	0.035		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	ND	0.035		mg/Kg-dry	1	12/21/2016
Chrysene	ND	0.035		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	ND	0.035		mg/Kg-dry	1	12/21/2016
Fluoranthene	ND	0.035		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.035		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	ND	0.035		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.035		mg/Kg-dry	1	12/21/2016
Phenanthrene	ND	0.035		mg/Kg-dry	1	12/21/2016
Pyrene	ND	0.035		mg/Kg-dry	1	12/21/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/21/2016		Analyst: GVC	
Aroclor 1016	ND	0.087		mg/Kg-dry	1	12/21/2016
Aroclor 1221	ND	0.087		mg/Kg-dry	1	12/21/2016
Aroclor 1232	ND	0.087		mg/Kg-dry	1	12/21/2016
Aroclor 1242	ND	0.087		mg/Kg-dry	1	12/21/2016
Aroclor 1248	ND	0.087		mg/Kg-dry	1	12/21/2016
Aroclor 1254	ND	0.087		mg/Kg-dry	1	12/21/2016
Aroclor 1260	ND	0.087		mg/Kg-dry	1	12/21/2016
Pesticides						
	SW8081 (SW3550B)		Prep Date: 12/21/2016		Analyst: GVC	
4,4'-DDD	ND	0.0017		mg/Kg-dry	1	12/21/2016
4,4'-DDE	ND	0.0017		mg/Kg-dry	1	12/21/2016
4,4'-DDT	ND	0.0017		mg/Kg-dry	1	12/21/2016
Aldrin	ND	0.0017		mg/Kg-dry	1	12/21/2016
alpha-BHC	ND	0.0017		mg/Kg-dry	1	12/21/2016
alpha-Chlordane	ND	0.0017		mg/Kg-dry	1	12/21/2016
beta-BHC	ND	0.0017		mg/Kg-dry	1	12/21/2016
Chlordane	ND	0.017		mg/Kg-dry	1	12/21/2016
delta-BHC	ND	0.0017		mg/Kg-dry	1	12/21/2016
Dieldrin	ND	0.0017		mg/Kg-dry	1	12/21/2016
Endosulfan I	ND	0.0017		mg/Kg-dry	1	12/21/2016
Endosulfan II	ND	0.0017		mg/Kg-dry	1	12/21/2016
Endosulfan sulfate	ND	0.0017		mg/Kg-dry	1	12/21/2016
Endrin	ND	0.0017		mg/Kg-dry	1	12/21/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-012

Client Sample ID: RPM-SB-49-2
Collection Date: 12/19/2016 11:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides						
	SW8081 (SW3550B)				Prep Date: 12/21/2016	Analyst: GVC
Endrin aldehyde	ND	0.0017		mg/Kg-dry	1	12/21/2016
Endrin ketone	ND	0.0017		mg/Kg-dry	1	12/21/2016
gamma-BHC	ND	0.0017		mg/Kg-dry	1	12/21/2016
gamma-Chlordane	ND	0.0017		mg/Kg-dry	1	12/21/2016
Heptachlor	ND	0.0017		mg/Kg-dry	1	12/21/2016
Heptachlor epoxide	ND	0.0017		mg/Kg-dry	1	12/21/2016
Methoxychlor	ND	0.0017		mg/Kg-dry	1	12/21/2016
Toxaphene	ND	0.036		mg/Kg-dry	1	12/21/2016
Metals by ICP/MS						
	SW6020 (SW3050B)				Prep Date: 12/27/2016	Analyst: JG
Aluminum	1100	19		mg/Kg-dry	10	12/28/2016
Antimony	ND	3.7		mg/Kg-dry	10	12/28/2016
Arsenic	ND	0.93		mg/Kg-dry	10	12/28/2016
Barium	4.2	0.93		mg/Kg-dry	10	12/28/2016
Beryllium	ND	0.46		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.46		mg/Kg-dry	10	12/28/2016
Calcium	27000	56		mg/Kg-dry	10	12/28/2016
Chromium	3.2	0.93		mg/Kg-dry	10	12/28/2016
Cobalt	1.6	0.93		mg/Kg-dry	10	12/28/2016
Copper	ND	2.3		mg/Kg-dry	10	12/28/2016
Iron	3000	28		mg/Kg-dry	10	12/28/2016
Lead	2.8	0.46		mg/Kg-dry	10	12/28/2016
Magnesium	15000	28		mg/Kg-dry	10	12/28/2016
Manganese	140	0.93		mg/Kg-dry	10	12/28/2016
Nickel	2.9	0.93		mg/Kg-dry	10	12/28/2016
Potassium	230	28		mg/Kg-dry	10	12/28/2016
Selenium	ND	0.93		mg/Kg-dry	10	12/28/2016
Silver	ND	0.93		mg/Kg-dry	10	12/28/2016
Sodium	81	56		mg/Kg-dry	10	12/28/2016
Thallium	ND	0.93		mg/Kg-dry	10	12/28/2016
Vanadium	5.2	0.93		mg/Kg-dry	10	12/28/2016
Zinc	12	4.6		mg/Kg-dry	10	12/28/2016
Mercury						
	SW7471A				Prep Date: 12/22/2016	Analyst: LB
Mercury	ND	0.019		mg/Kg-dry	1	12/22/2016
Cyanide, Total						
	SW9012A				Prep Date: 12/20/2016	Analyst: MD
Cyanide	ND	0.27		mg/Kg-dry	1	12/22/2016
pH (25 °C)						
	SW9045C				Prep Date: 12/20/2016	Analyst: PBG

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-012

Client Sample ID: RPM-SB-49-2
Collection Date: 12/19/2016 11:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C					
pH	9.9			pH Units	1	12/20/2016
Percent Moisture	D2974					
Percent Moisture	7.9	0.2	*	wt%	1	12/21/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-013

Client Sample ID: RPM-SB-49-3
Collection Date: 12/19/2016 11:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/19/2016		Analyst: RRS
Acetone	ND	0.088		mg/Kg-dry	1	12/22/2016
Benzene	ND	0.0059		mg/Kg-dry	1	12/22/2016
Bromodichloromethane	ND	0.0059		mg/Kg-dry	1	12/22/2016
Bromoform	ND	0.0059		mg/Kg-dry	1	12/22/2016
Bromomethane	ND	0.012		mg/Kg-dry	1	12/22/2016
2-Butanone	ND	0.088		mg/Kg-dry	1	12/22/2016
Carbon disulfide	ND	0.059		mg/Kg-dry	1	12/22/2016
Carbon tetrachloride	ND	0.0059		mg/Kg-dry	1	12/22/2016
Chlorobenzene	ND	0.0059		mg/Kg-dry	1	12/22/2016
Chloroethane	ND	0.012		mg/Kg-dry	1	12/22/2016
Chloroform	ND	0.0059		mg/Kg-dry	1	12/22/2016
Chloromethane	ND	0.012		mg/Kg-dry	1	12/22/2016
Dibromochloromethane	ND	0.0059		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethane	ND	0.0059		mg/Kg-dry	1	12/22/2016
1,2-Dichloroethane	ND	0.0059		mg/Kg-dry	1	12/22/2016
1,1-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/22/2016
cis-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/22/2016
trans-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/22/2016
1,2-Dichloropropane	ND	0.0059		mg/Kg-dry	1	12/22/2016
cis-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	12/22/2016
trans-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	12/22/2016
Ethylbenzene	ND	0.0059		mg/Kg-dry	1	12/22/2016
2-Hexanone	ND	0.024		mg/Kg-dry	1	12/22/2016
4-Methyl-2-pentanone	ND	0.024		mg/Kg-dry	1	12/22/2016
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/22/2016
Methyl tert-butyl ether	ND	0.0059		mg/Kg-dry	1	12/22/2016
Styrene	ND	0.0059		mg/Kg-dry	1	12/22/2016
1,1,2,2-Tetrachloroethane	ND	0.0059		mg/Kg-dry	1	12/22/2016
Tetrachloroethene	ND	0.0059		mg/Kg-dry	1	12/22/2016
Toluene	ND	0.0059		mg/Kg-dry	1	12/22/2016
1,1,1-Trichloroethane	ND	0.0059		mg/Kg-dry	1	12/22/2016
1,1,2-Trichloroethane	ND	0.0059		mg/Kg-dry	1	12/22/2016
Trichloroethene	ND	0.0059		mg/Kg-dry	1	12/22/2016
Vinyl chloride	ND	0.0059		mg/Kg-dry	1	12/22/2016
Xylenes, Total	ND	0.018		mg/Kg-dry	1	12/22/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
Acenaphthene	ND	0.039		mg/Kg-dry	1	12/21/2016
Acenaphthylene	ND	0.039		mg/Kg-dry	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120599 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120599-013

Client Sample ID: RPM-SB-49-3
Collection Date: 12/19/2016 11:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP	
Anthracene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	12/21/2016
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	12/21/2016
Chrysene	ND	0.039		mg/Kg-dry	1	12/21/2016
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	12/21/2016
Fluoranthene	ND	0.039		mg/Kg-dry	1	12/21/2016
Fluorene	ND	0.039		mg/Kg-dry	1	12/21/2016
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	12/21/2016
Naphthalene	ND	0.039		mg/Kg-dry	1	12/21/2016
Phenanthrene	ND	0.039		mg/Kg-dry	1	12/21/2016
Pyrene	ND	0.039		mg/Kg-dry	1	12/21/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/20/2016		Analyst: GVC	
Aroclor 1016	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1221	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1232	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1242	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1248	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1254	ND	0.095		mg/Kg-dry	1	12/20/2016
Aroclor 1260	ND	0.095		mg/Kg-dry	1	12/20/2016
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Arsenic	1.6	1.1		mg/Kg-dry	10	12/28/2016
Barium	5.1	1.1		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.55		mg/Kg-dry	10	12/28/2016
Chromium	2.8	1.1		mg/Kg-dry	10	12/28/2016
Lead	6.6	0.55		mg/Kg-dry	10	12/28/2016
Selenium	ND	1.1		mg/Kg-dry	10	12/28/2016
Silver	ND	1.1		mg/Kg-dry	10	12/28/2016
Mercury						
	SW7471A		Prep Date: 12/22/2016		Analyst: LB	
Mercury	ND	0.019		mg/Kg-dry	1	12/22/2016
Percent Moisture						
	D2974		Prep Date: 12/20/2016		Analyst: GH	
Percent Moisture	18.3	0.2	*	wt%	1	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter
 RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

Company: GSG Consultants Client Tracking No.: _____

Project Name: CIA RPM

Project Location: Chicago IL

Sampler(s): Nicole Nabborg

Report To: Scott Letzel Phone: (312) 733-6262

QC Level: 1 2 3 4

e-mail: scott.letzel@gsg-consultants.com

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	Additional Information:	Lab No.:
RPM-SB-53-3	12/19/16	910	S	X	X		4		201
RPM-SB-52-1		935					4		202
RPM-SB-52-2		950					4		203
RPM-SB-52-3		955					4		204
RPM-SB-51-1		1015					4		205
RPM-SB-51-2		1025					4		206
RPM-SB-51-3		1035					4		207
RPM-SB-50-1		1100					4		208
RPM-SB-50-2		1110					4		209
RPM-SB-50-3		1115					4		210
RPM-SB-49-1		1120					4		211
RPM-SB-49-2		1125					4		212
RPM-SB-49-3		1130					4		213
RPM									

Turn Around Time (Days): 1 2 3 4 5-7 10

Results Needed: / / /

Additional Information: / / /

Quote No.: _____

P.O. No.: _____

Additional Information: / / /

Lab No.: _____

Received on Ice: Yes No

Temperature: 4.1 °C

Comments: 5/5

Relinquished by: (Signature) _____ Date/Time: 12/19/16 11:15

Received by: (Signature) _____ Date/Time: 12/19/16 17:15

Relinquished by: (Signature) _____ Date/Time: _____

Received by: (Signature) _____ Date/Time: _____

Relinquished by: (Signature) _____ Date/Time: _____

Received by: (Signature) _____ Date/Time: _____

Laboratory Work Order No.: 16170599

Sample Receipt Checklist

Client Name GSG Date and Time Received: 12/19/2016 5:15:00 PM
 Work Order Number 16120599 Received by: JOK
 Checklist completed by: [Signature] Date: 12/19/16 Reviewed by: JOK Initials: [Signature] Date: 12/20/16
 Matrix: _____ Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature 4.1 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response:

CTA RPM, Edgewater 16120531

Craig Chawla

From: Thaddeus Cagney [tcagney@gsg-consultants.com]
Sent: Monday, January 09, 2017 8:32 AM
To: Craig Chawla; Scott Letzel
Subject: RE: CTA RPM, Chicago, IL 16120690

Craig

We need TCLP lead run on the following samples:

SB-39-1 (STAT WO# 16120690)
SB-52-1 (STAT WO# 16120599)

Ted Cagney, LPG

GSG CONSULTANTS, INC.

312-733-6262 office
312-880-8941 cell

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

January 04, 2017

GSG Consultants, Inc.
855 W. Adams
Chicago, IL 60607

Telephone: (312) 733-6262
Fax: (312) 733-5612

Analytical Report for STAT Work Order: 16120640 Revision 0

RE: CTA RPM, Chicago, IL

Dear Scott Letzel:

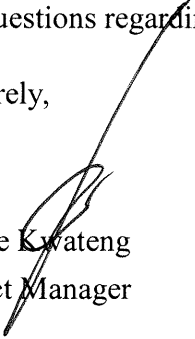
STAT Analysis received 15 samples for the referenced project on 12/20/2016 4:15:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,


Justice Kwateng
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: GSG Consultants, Inc.
Project: CTA RPM, Chicago, IL
Work Order: 16120640 Revision 0

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
16120640-001A	RPM-SB-48-1		12/20/2016 9:10:00 AM	12/20/2016
16120640-001B	RPM-SB-48-1		12/20/2016 9:10:00 AM	12/20/2016
16120640-002A	RPM-SB-48-2		12/20/2016 9:20:00 AM	12/20/2016
16120640-002B	RPM-SB-48-2		12/20/2016 9:20:00 AM	12/20/2016
16120640-003A	RPM-SB-48-3		12/20/2016 9:30:00 AM	12/20/2016
16120640-003B	RPM-SB-48-3		12/20/2016 9:30:00 AM	12/20/2016
16120640-004A	RPM-SB-47-1		12/20/2016 9:50:00 AM	12/20/2016
16120640-004B	RPM-SB-47-1		12/20/2016 9:50:00 AM	12/20/2016
16120640-005A	RPM-SB-47-2		12/20/2016 10:00:00 AM	12/20/2016
16120640-005B	RPM-SB-47-2		12/20/2016 10:00:00 AM	12/20/2016
16120640-006A	RPM-SB-47-3		12/20/2016 10:10:00 AM	12/20/2016
16120640-006B	RPM-SB-47-3		12/20/2016 10:10:00 AM	12/20/2016
16120640-007A	RPM-SB-46-1		12/20/2016 10:25:00 AM	12/20/2016
16120640-007B	RPM-SB-46-1		12/20/2016 10:25:00 AM	12/20/2016
16120640-008A	RPM-SB-46-2		12/20/2016 10:35:00 AM	12/20/2016
16120640-008B	RPM-SB-46-2		12/20/2016 10:35:00 AM	12/20/2016
16120640-009A	RPM-SB-46-3		12/20/2016 10:45:00 AM	12/20/2016
16120640-009B	RPM-SB-46-3		12/20/2016 10:45:00 AM	12/20/2016
16120640-010A	RPM-SB-45-1		12/20/2016 10:55:00 AM	12/20/2016
16120640-010B	RPM-SB-45-1		12/20/2016 10:55:00 AM	12/20/2016
16120640-011A	RPM-SB-45-2		12/20/2016 11:00:00 AM	12/20/2016
16120640-011B	RPM-SB-45-2		12/20/2016 11:00:00 AM	12/20/2016
16120640-012A	RPM-SB-45-3		12/20/2016 11:05:00 AM	12/20/2016
16120640-012B	RPM-SB-45-3		12/20/2016 11:05:00 AM	12/20/2016
16120640-013A	RPM-SB-44-1		12/20/2016 11:20:00 AM	12/20/2016
16120640-013B	RPM-SB-44-1		12/20/2016 11:20:00 AM	12/20/2016
16120640-014A	RPM-SB-44-2		12/20/2016 11:25:00 AM	12/20/2016
16120640-014B	RPM-SB-44-2		12/20/2016 11:25:00 AM	12/20/2016
16120640-015A	RPM-SB-44-3		12/20/2016 11:30:00 AM	12/20/2016
16120640-015B	RPM-SB-44-3		12/20/2016 11:30:00 AM	12/20/2016

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-001

Client Sample ID: RPM-SB-48-1
 Collection Date: 12/20/2016 9:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/20/2016		Analyst: PS
Acetone	ND	0.12		mg/Kg-dry	1	12/24/2016
Benzene	ND	0.0081		mg/Kg-dry	1	12/24/2016
Bromodichloromethane	ND	0.0081		mg/Kg-dry	1	12/24/2016
Bromoform	ND	0.0081		mg/Kg-dry	1	12/24/2016
Bromomethane	ND	0.016		mg/Kg-dry	1	12/24/2016
2-Butanone	ND	0.12		mg/Kg-dry	1	12/24/2016
Carbon disulfide	ND	0.081		mg/Kg-dry	1	12/24/2016
Carbon tetrachloride	ND	0.0081		mg/Kg-dry	1	12/24/2016
Chlorobenzene	ND	0.0081		mg/Kg-dry	1	12/24/2016
Chloroethane	ND	0.016		mg/Kg-dry	1	12/24/2016
Chloroform	ND	0.0081		mg/Kg-dry	1	12/24/2016
Chloromethane	ND	0.016		mg/Kg-dry	1	12/24/2016
Dibromochloromethane	ND	0.0081		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethane	ND	0.0081		mg/Kg-dry	1	12/24/2016
1,2-Dichloroethane	ND	0.0081		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethene	ND	0.0081		mg/Kg-dry	1	12/24/2016
cis-1,2-Dichloroethene	ND	0.0081		mg/Kg-dry	1	12/24/2016
trans-1,2-Dichloroethene	ND	0.0081		mg/Kg-dry	1	12/24/2016
1,2-Dichloropropane	ND	0.0081		mg/Kg-dry	1	12/24/2016
cis-1,3-Dichloropropene	ND	0.0032		mg/Kg-dry	1	12/24/2016
trans-1,3-Dichloropropene	ND	0.0032		mg/Kg-dry	1	12/24/2016
Ethylbenzene	ND	0.0081		mg/Kg-dry	1	12/24/2016
2-Hexanone	ND	0.032		mg/Kg-dry	1	12/24/2016
4-Methyl-2-pentanone	ND	0.032		mg/Kg-dry	1	12/24/2016
Methylene chloride	ND	0.016		mg/Kg-dry	1	12/24/2016
Methyl tert-butyl ether	ND	0.0081		mg/Kg-dry	1	12/24/2016
Styrene	ND	0.0081		mg/Kg-dry	1	12/24/2016
1,1,2,2-Tetrachloroethane	ND	0.0081		mg/Kg-dry	1	12/24/2016
Tetrachloroethene	ND	0.0081		mg/Kg-dry	1	12/24/2016
Toluene	ND	0.0081		mg/Kg-dry	1	12/24/2016
1,1,1-Trichloroethane	ND	0.0081		mg/Kg-dry	1	12/24/2016
1,1,2-Trichloroethane	ND	0.0081		mg/Kg-dry	1	12/24/2016
Trichloroethene	ND	0.0081		mg/Kg-dry	1	12/24/2016
Vinyl chloride	ND	0.0081		mg/Kg-dry	1	12/24/2016
Xylenes, Total	ND	0.024		mg/Kg-dry	1	12/24/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	12/23/2016
Acenaphthylene	ND	0.039		mg/Kg-dry	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-001

Client Sample ID: RPM-SB-48-1
 Collection Date: 12/20/2016 9:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS SW8270C (SW3550B) Prep Date: 12/23/2016 Analyst: DM						
Anthracene	ND	0.039		mg/Kg-dry	1	12/23/2016
Benz(a)anthracene	0.18	0.039		mg/Kg-dry	1	12/23/2016
Benzo(a)pyrene	0.19	0.039		mg/Kg-dry	1	12/23/2016
Benzo(b)fluoranthene	0.17	0.039		mg/Kg-dry	1	12/23/2016
Benzo(g,h,i)perylene	0.13	0.039		mg/Kg-dry	1	12/23/2016
Benzo(k)fluoranthene	0.14	0.039		mg/Kg-dry	1	12/23/2016
Chrysene	0.21	0.039		mg/Kg-dry	1	12/23/2016
Dibenz(a,h)anthracene	0.066	0.039		mg/Kg-dry	1	12/23/2016
Fluoranthene	0.29	0.039		mg/Kg-dry	1	12/23/2016
Fluorene	ND	0.039		mg/Kg-dry	1	12/23/2016
Indeno(1,2,3-cd)pyrene	0.11	0.039		mg/Kg-dry	1	12/23/2016
Naphthalene	ND	0.039		mg/Kg-dry	1	12/23/2016
Phenanthrene	0.18	0.039		mg/Kg-dry	1	12/23/2016
Pyrene	0.35	0.039		mg/Kg-dry	1	12/23/2016
PCBs SW8082 (SW3550B) Prep Date: 12/22/2016 Analyst: GVC						
Aroclor 1016	ND	0.094		mg/Kg-dry	1	12/22/2016
Aroclor 1221	ND	0.094		mg/Kg-dry	1	12/22/2016
Aroclor 1232	ND	0.094		mg/Kg-dry	1	12/22/2016
Aroclor 1242	ND	0.094		mg/Kg-dry	1	12/22/2016
Aroclor 1248	ND	0.094		mg/Kg-dry	1	12/22/2016
Aroclor 1254	ND	0.094		mg/Kg-dry	1	12/22/2016
Aroclor 1260	ND	0.094		mg/Kg-dry	1	12/22/2016
Pesticides SW8081 (SW3550B) Prep Date: 12/22/2016 Analyst: GVC						
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	12/22/2016
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	12/22/2016
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	12/22/2016
Aldrin	ND	0.0019		mg/Kg-dry	1	12/22/2016
alpha-BHC	ND	0.0019		mg/Kg-dry	1	12/22/2016
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	12/22/2016
beta-BHC	ND	0.0019		mg/Kg-dry	1	12/22/2016
Chlordane	ND	0.019		mg/Kg-dry	1	12/22/2016
delta-BHC	ND	0.0019		mg/Kg-dry	1	12/22/2016
Dieldrin	ND	0.0019		mg/Kg-dry	1	12/22/2016
Endosulfan I	ND	0.0019		mg/Kg-dry	1	12/22/2016
Endosulfan II	ND	0.0019		mg/Kg-dry	1	12/22/2016
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	12/22/2016
Endrin	ND	0.0019		mg/Kg-dry	1	12/22/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
 * - Non-accredited parameter H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-001

Client Sample ID: RPM-SB-48-1
 Collection Date: 12/20/2016 9:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)		Prep Date: 12/22/2016 Analyst: GVC			
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	12/22/2016
Endrin ketone	ND	0.0019		mg/Kg-dry	1	12/22/2016
gamma-BHC	ND	0.0019		mg/Kg-dry	1	12/22/2016
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	12/22/2016
Heptachlor	ND	0.0019		mg/Kg-dry	1	12/22/2016
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	12/22/2016
Methoxychlor	ND	0.0019		mg/Kg-dry	1	12/22/2016
Toxaphene	ND	0.039		mg/Kg-dry	1	12/22/2016
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/28/2016 Analyst: JG			
Aluminum	4300	20		mg/Kg-dry	10	12/31/2016
Antimony	ND	2.0		mg/Kg-dry	10	12/31/2016
Arsenic	6.3	1.0		mg/Kg-dry	10	12/31/2016
Barium	49	1.0		mg/Kg-dry	10	12/31/2016
Beryllium	ND	0.51		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.51		mg/Kg-dry	10	12/31/2016
Calcium	36000	61		mg/Kg-dry	10	12/31/2016
Chromium	8.3	1.0		mg/Kg-dry	10	12/31/2016
Cobalt	3.1	1.0		mg/Kg-dry	10	12/31/2016
Copper	20	2.6		mg/Kg-dry	10	12/31/2016
Iron	6500	31		mg/Kg-dry	10	12/31/2016
Lead	64	0.51		mg/Kg-dry	10	12/31/2016
Magnesium	14000	31		mg/Kg-dry	10	12/31/2016
Manganese	150	1.0		mg/Kg-dry	10	12/31/2016
Nickel	6.9	1.0		mg/Kg-dry	10	12/31/2016
Potassium	360	31		mg/Kg-dry	10	12/31/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/31/2016
Silver	ND	1.0		mg/Kg-dry	10	12/31/2016
Sodium	450	61		mg/Kg-dry	10	12/31/2016
Thallium	ND	1.0		mg/Kg-dry	10	12/31/2016
Vanadium	15	1.0		mg/Kg-dry	10	12/31/2016
Zinc	60	5.1		mg/Kg-dry	10	12/31/2016
Mercury	SW7471A		Prep Date: 12/27/2016 Analyst: LB			
Mercury	0.052	0.023		mg/Kg-dry	1	12/27/2016
Cyanide, Total	SW9012A		Prep Date: 12/21/2016 Analyst: MD			
Cyanide	ND	0.29		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/21/2016 Analyst: PBG			

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
 * - Non-accredited parameter H - Holding time exceeded

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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-001

Client Sample ID: RPM-SB-48-1
 Collection Date: 12/20/2016 9:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C					Prep Date: 12/21/2016 Analyst: PBG
pH	8.2			pH Units	1	12/21/2016
Percent Moisture	D2974					Prep Date: 12/21/2016 Analyst: GH
Percent Moisture	15.2	0.2	*	wt%	1	12/22/2016

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-002

Client Sample ID: RPM-SB-48-2
 Collection Date: 12/20/2016 9:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/20/2016		Analyst: PS
Acetone	ND	0.086		mg/Kg-dry	1	12/24/2016
Benzene	ND	0.0057		mg/Kg-dry	1	12/24/2016
Bromodichloromethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
Bromoform	ND	0.0057		mg/Kg-dry	1	12/24/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/24/2016
2-Butanone	ND	0.086		mg/Kg-dry	1	12/24/2016
Carbon disulfide	ND	0.057		mg/Kg-dry	1	12/24/2016
Carbon tetrachloride	ND	0.0057		mg/Kg-dry	1	12/24/2016
Chlorobenzene	ND	0.0057		mg/Kg-dry	1	12/24/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/24/2016
Chloroform	ND	0.0057		mg/Kg-dry	1	12/24/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/24/2016
Dibromochloromethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,2-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
cis-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
trans-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,2-Dichloropropane	ND	0.0057		mg/Kg-dry	1	12/24/2016
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/24/2016
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/24/2016
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	12/24/2016
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/24/2016
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/24/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/24/2016
Methyl tert-butyl ether	ND	0.0057		mg/Kg-dry	1	12/24/2016
Styrene	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1,2,2-Tetrachloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
Tetrachloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
Toluene	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1,1-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1,2-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
Trichloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
Vinyl chloride	ND	0.0057		mg/Kg-dry	1	12/24/2016
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/24/2016
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM
Acenaphthene	ND	0.034		mg/Kg-dry	1	12/23/2016
Acenaphthylene	ND	0.034		mg/Kg-dry	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-002

Client Sample ID: RPM-SB-48-2
 Collection Date: 12/20/2016 9:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM
Aniline	ND	0.34		mg/Kg-dry	1	12/23/2016
Anthracene	ND	0.034		mg/Kg-dry	1	12/23/2016
Benz(a)anthracene	ND	0.034		mg/Kg-dry	1	12/23/2016
Benzidine	ND	0.34		mg/Kg-dry	1	12/23/2016
Benzo(a)pyrene	ND	0.034		mg/Kg-dry	1	12/23/2016
Benzo(b)fluoranthene	ND	0.034		mg/Kg-dry	1	12/23/2016
Benzo(g,h,i)perylene	ND	0.034		mg/Kg-dry	1	12/23/2016
Benzo(k)fluoranthene	ND	0.034		mg/Kg-dry	1	12/23/2016
Benzoic acid	ND	0.85		mg/Kg-dry	1	12/23/2016
Benzyl alcohol	ND	0.17		mg/Kg-dry	1	12/23/2016
Bis(2-chloroethoxy)methane	ND	0.17		mg/Kg-dry	1	12/23/2016
Bis(2-chloroethyl)ether	ND	0.17		mg/Kg-dry	1	12/23/2016
Bis(2-ethylhexyl)phthalate	ND	0.85		mg/Kg-dry	1	12/23/2016
4-Bromophenyl phenyl ether	ND	0.17		mg/Kg-dry	1	12/23/2016
Butyl benzyl phthalate	ND	0.17		mg/Kg-dry	1	12/23/2016
Carbazole	ND	0.17		mg/Kg-dry	1	12/23/2016
4-Chloroaniline	ND	0.17		mg/Kg-dry	1	12/23/2016
4-Chloro-3-methylphenol	ND	0.34		mg/Kg-dry	1	12/23/2016
2-Chloronaphthalene	ND	0.17		mg/Kg-dry	1	12/23/2016
2-Chlorophenol	ND	0.17		mg/Kg-dry	1	12/23/2016
4-Chlorophenyl phenyl ether	ND	0.17		mg/Kg-dry	1	12/23/2016
Chrysene	ND	0.034		mg/Kg-dry	1	12/23/2016
Dibenz(a,h)anthracene	ND	0.034		mg/Kg-dry	1	12/23/2016
Dibenzofuran	ND	0.17		mg/Kg-dry	1	12/23/2016
1,2-Dichlorobenzene	ND	0.17		mg/Kg-dry	1	12/23/2016
1,3-Dichlorobenzene	ND	0.17		mg/Kg-dry	1	12/23/2016
1,4-Dichlorobenzene	ND	0.17		mg/Kg-dry	1	12/23/2016
3,3'-Dichlorobenzidine	ND	0.17		mg/Kg-dry	1	12/23/2016
2,4-Dichlorophenol	ND	0.17		mg/Kg-dry	1	12/23/2016
Diethyl phthalate	ND	0.17		mg/Kg-dry	1	12/23/2016
2,4-Dimethylphenol	ND	0.17		mg/Kg-dry	1	12/23/2016
Dimethyl phthalate	ND	0.17		mg/Kg-dry	1	12/23/2016
4,6-Dinitro-2-methylphenol	ND	0.34		mg/Kg-dry	1	12/23/2016
2,4-Dinitrophenol	ND	0.85		mg/Kg-dry	1	12/23/2016
2,4-Dinitrotoluene	ND	0.034		mg/Kg-dry	1	12/23/2016
2,6-Dinitrotoluene	ND	0.034		mg/Kg-dry	1	12/23/2016
Di-n-butyl phthalate	ND	0.17		mg/Kg-dry	1	12/23/2016
Di-n-octyl phthalate	ND	0.17		mg/Kg-dry	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
Work Order: 16120640 Revision 0
Project: CTA RPM, Chicago, IL
Lab ID: 16120640-002

Client Sample ID: RPM-SB-48-2
Collection Date: 12/20/2016 9:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM	
Fluoranthene	ND	0.034		mg/Kg-dry	1	12/23/2016
Fluorene	ND	0.034		mg/Kg-dry	1	12/23/2016
Hexachlorobenzene	ND	0.17		mg/Kg-dry	1	12/23/2016
Hexachlorobutadiene	ND	0.17		mg/Kg-dry	1	12/23/2016
Hexachlorocyclopentadiene	ND	0.17		mg/Kg-dry	1	12/23/2016
Hexachloroethane	ND	0.17		mg/Kg-dry	1	12/23/2016
Indeno(1,2,3-cd)pyrene	ND	0.034		mg/Kg-dry	1	12/23/2016
Isophorone	ND	0.17		mg/Kg-dry	1	12/23/2016
2-Methylnaphthalene	ND	0.17		mg/Kg-dry	1	12/23/2016
2-Methylphenol	ND	0.17		mg/Kg-dry	1	12/23/2016
4-Methylphenol	ND	0.17		mg/Kg-dry	1	12/23/2016
Naphthalene	ND	0.034		mg/Kg-dry	1	12/23/2016
2-Nitroaniline	ND	0.17		mg/Kg-dry	1	12/23/2016
3-Nitroaniline	ND	0.17		mg/Kg-dry	1	12/23/2016
4-Nitroaniline	ND	0.17		mg/Kg-dry	1	12/23/2016
2-Nitrophenol	ND	0.17		mg/Kg-dry	1	12/23/2016
4-Nitrophenol	ND	0.34		mg/Kg-dry	1	12/23/2016
Nitrobenzene	ND	0.034		mg/Kg-dry	1	12/23/2016
N-Nitrosodi-n-propylamine	ND	0.034		mg/Kg-dry	1	12/23/2016
N-Nitrosodimethylamine	ND	0.17		mg/Kg-dry	1	12/23/2016
N-Nitrosodiphenylamine	ND	0.034		mg/Kg-dry	1	12/23/2016
2, 2'-oxybis(1-Chloropropane)	ND	0.17		mg/Kg-dry	1	12/23/2016
Pentachlorophenol	ND	0.034		mg/Kg-dry	1	12/23/2016
Phenanthrene	ND	0.034		mg/Kg-dry	1	12/23/2016
Phenol	ND	0.17		mg/Kg-dry	1	12/23/2016
Pyrene	ND	0.034		mg/Kg-dry	1	12/23/2016
Pyridine	ND	0.68		mg/Kg-dry	1	12/23/2016
1,2,4-Trichlorobenzene	ND	0.17		mg/Kg-dry	1	12/23/2016
2,4,5-Trichlorophenol	ND	0.17		mg/Kg-dry	1	12/23/2016
2,4,6-Trichlorophenol	ND	0.17		mg/Kg-dry	1	12/23/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/22/2016		Analyst: GVC	
Aroclor 1016	ND	0.083		mg/Kg-dry	1	12/22/2016
Aroclor 1221	ND	0.083		mg/Kg-dry	1	12/22/2016
Aroclor 1232	ND	0.083		mg/Kg-dry	1	12/22/2016
Aroclor 1242	ND	0.083		mg/Kg-dry	1	12/22/2016
Aroclor 1248	ND	0.083		mg/Kg-dry	1	12/22/2016
Aroclor 1254	ND	0.083		mg/Kg-dry	1	12/22/2016
Aroclor 1260	ND	0.083		mg/Kg-dry	1	12/22/2016

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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-002

Client Sample ID: RPM-SB-48-2
 Collection Date: 12/20/2016 9:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)		Prep Date: 12/22/2016 Analyst: GVC			
4,4'-DDD	ND	0.0017		mg/Kg-dry	1	12/22/2016
4,4'-DDE	ND	0.0017		mg/Kg-dry	1	12/22/2016
4,4'-DDT	ND	0.0017		mg/Kg-dry	1	12/22/2016
Aldrin	ND	0.0017		mg/Kg-dry	1	12/22/2016
alpha-BHC	ND	0.0017		mg/Kg-dry	1	12/22/2016
alpha-Chlordane	ND	0.0017		mg/Kg-dry	1	12/22/2016
beta-BHC	ND	0.0017		mg/Kg-dry	1	12/22/2016
Chlordane	ND	0.017		mg/Kg-dry	1	12/22/2016
delta-BHC	ND	0.0017		mg/Kg-dry	1	12/22/2016
Dieldrin	ND	0.0017		mg/Kg-dry	1	12/22/2016
Endosulfan I	ND	0.0017		mg/Kg-dry	1	12/22/2016
Endosulfan II	ND	0.0017		mg/Kg-dry	1	12/22/2016
Endosulfan sulfate	ND	0.0017		mg/Kg-dry	1	12/22/2016
Endrin	ND	0.0017		mg/Kg-dry	1	12/22/2016
Endrin aldehyde	ND	0.0017		mg/Kg-dry	1	12/22/2016
Endrin ketone	ND	0.0017		mg/Kg-dry	1	12/22/2016
gamma-BHC	ND	0.0017		mg/Kg-dry	1	12/22/2016
gamma-Chlordane	ND	0.0017		mg/Kg-dry	1	12/22/2016
Heptachlor	ND	0.0017		mg/Kg-dry	1	12/22/2016
Heptachlor epoxide	ND	0.0017		mg/Kg-dry	1	12/22/2016
Methoxychlor	ND	0.0017		mg/Kg-dry	1	12/22/2016
Toxaphene	ND	0.034		mg/Kg-dry	1	12/22/2016
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/28/2016 Analyst: JG			
Aluminum	2800	19		mg/Kg-dry	10	12/31/2016
Antimony	ND	1.9		mg/Kg-dry	10	12/31/2016
Arsenic	1.2	0.93		mg/Kg-dry	10	12/31/2016
Barium	39	0.93		mg/Kg-dry	10	12/31/2016
Beryllium	ND	0.47		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.47		mg/Kg-dry	10	12/31/2016
Calcium	47000	56		mg/Kg-dry	10	12/31/2016
Chromium	4.2	0.93		mg/Kg-dry	10	12/31/2016
Cobalt	2.7	0.93		mg/Kg-dry	10	12/31/2016
Copper	6.1	2.3		mg/Kg-dry	10	12/31/2016
Iron	8800	28		mg/Kg-dry	10	12/31/2016
Lead	5.4	0.47		mg/Kg-dry	10	12/31/2016
Magnesium	26000	28		mg/Kg-dry	10	12/31/2016
Manganese	250	0.93		mg/Kg-dry	10	12/31/2016
Nickel	5.0	0.93		mg/Kg-dry	10	12/31/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-002

Client Sample ID: RPM-SB-48-2
 Collection Date: 12/20/2016 9:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/28/2016 Analyst: JG			
Potassium	1500	28		mg/Kg-dry	10	12/31/2016
Selenium	ND	0.93		mg/Kg-dry	10	12/31/2016
Silver	ND	0.93		mg/Kg-dry	10	12/31/2016
Sodium	130	56		mg/Kg-dry	10	12/31/2016
Thallium	ND	0.93		mg/Kg-dry	10	12/31/2016
Vanadium	18	0.93		mg/Kg-dry	10	12/31/2016
Zinc	32	4.7		mg/Kg-dry	10	12/31/2016
Mercury	SW7471A		Prep Date: 12/27/2016 Analyst: LB			
Mercury	ND	0.018		mg/Kg-dry	1	12/27/2016
Cyanide, Total	SW9012A		Prep Date: 12/21/2016 Analyst: MD			
Cyanide	ND	0.26		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/21/2016 Analyst: PBG			
pH	8.6			pH Units	1	12/21/2016
Percent Moisture	D2974		Prep Date: 12/21/2016 Analyst: GH			
Percent Moisture	5.1	0.2	*	wt%	1	12/22/2016

Qualifiers:
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RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-003

Client Sample ID: RPM-SB-48-3
 Collection Date: 12/20/2016 9:30:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/20/2016 Analyst: PS		
Acetone	ND	0.078		mg/Kg-dry	1	12/24/2016
Benzene	ND	0.0052		mg/Kg-dry	1	12/24/2016
Bromodichloromethane	ND	0.0052		mg/Kg-dry	1	12/24/2016
Bromoform	ND	0.0052		mg/Kg-dry	1	12/24/2016
Bromomethane	ND	0.010		mg/Kg-dry	1	12/24/2016
2-Butanone	ND	0.078		mg/Kg-dry	1	12/24/2016
Carbon disulfide	ND	0.052		mg/Kg-dry	1	12/24/2016
Carbon tetrachloride	ND	0.0052		mg/Kg-dry	1	12/24/2016
Chlorobenzene	ND	0.0052		mg/Kg-dry	1	12/24/2016
Chloroethane	ND	0.010		mg/Kg-dry	1	12/24/2016
Chloroform	ND	0.0052		mg/Kg-dry	1	12/24/2016
Chloromethane	ND	0.010		mg/Kg-dry	1	12/24/2016
Dibromochloromethane	ND	0.0052		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethane	ND	0.0052		mg/Kg-dry	1	12/24/2016
1,2-Dichloroethane	ND	0.0052		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethene	ND	0.0052		mg/Kg-dry	1	12/24/2016
cis-1,2-Dichloroethene	ND	0.0052		mg/Kg-dry	1	12/24/2016
trans-1,2-Dichloroethene	ND	0.0052		mg/Kg-dry	1	12/24/2016
1,2-Dichloropropane	ND	0.0052		mg/Kg-dry	1	12/24/2016
cis-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	12/24/2016
trans-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	12/24/2016
Ethylbenzene	ND	0.0052		mg/Kg-dry	1	12/24/2016
2-Hexanone	ND	0.021		mg/Kg-dry	1	12/24/2016
4-Methyl-2-pentanone	ND	0.021		mg/Kg-dry	1	12/24/2016
Methylene chloride	ND	0.010		mg/Kg-dry	1	12/24/2016
Methyl tert-butyl ether	ND	0.0052		mg/Kg-dry	1	12/24/2016
Styrene	ND	0.0052		mg/Kg-dry	1	12/24/2016
1,1,2,2-Tetrachloroethane	ND	0.0052		mg/Kg-dry	1	12/24/2016
Tetrachloroethene	ND	0.0052		mg/Kg-dry	1	12/24/2016
Toluene	ND	0.0052		mg/Kg-dry	1	12/24/2016
1,1,1-Trichloroethane	ND	0.0052		mg/Kg-dry	1	12/24/2016
1,1,2-Trichloroethane	ND	0.0052		mg/Kg-dry	1	12/24/2016
Trichloroethene	ND	0.0052		mg/Kg-dry	1	12/24/2016
Vinyl chloride	ND	0.0052		mg/Kg-dry	1	12/24/2016
Xylenes, Total	ND	0.016		mg/Kg-dry	1	12/24/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/23/2016 Analyst: DM		
Acenaphthene	ND	0.039		mg/Kg-dry	1	12/23/2016
Acenaphthylene	ND	0.039		mg/Kg-dry	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-003

Client Sample ID: RPM-SB-48-3
 Collection Date: 12/20/2016 9:30:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM	
Anthracene	ND	0.039		mg/Kg-dry	1	12/23/2016
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	12/23/2016
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	12/23/2016
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	12/23/2016
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	12/23/2016
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	12/23/2016
Chrysene	ND	0.039		mg/Kg-dry	1	12/23/2016
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	12/23/2016
Fluoranthene	ND	0.039		mg/Kg-dry	1	12/23/2016
Fluorene	ND	0.039		mg/Kg-dry	1	12/23/2016
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	12/23/2016
Naphthalene	ND	0.039		mg/Kg-dry	1	12/23/2016
Phenanthrene	ND	0.039		mg/Kg-dry	1	12/23/2016
Pyrene	ND	0.039		mg/Kg-dry	1	12/23/2016
PCBs	SW8082 (SW3550B)		Prep Date: 12/22/2016		Analyst: GVC	
Aroclor 1016	ND	0.093		mg/Kg-dry	1	12/23/2016
Aroclor 1221	ND	0.093		mg/Kg-dry	1	12/23/2016
Aroclor 1232	ND	0.093		mg/Kg-dry	1	12/23/2016
Aroclor 1242	ND	0.093		mg/Kg-dry	1	12/23/2016
Aroclor 1248	ND	0.093		mg/Kg-dry	1	12/23/2016
Aroclor 1254	ND	0.093		mg/Kg-dry	1	12/23/2016
Aroclor 1260	ND	0.093		mg/Kg-dry	1	12/23/2016
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/28/2016		Analyst: JG	
Arsenic	1.1	1.0		mg/Kg-dry	10	12/31/2016
Barium	3.6	1.0		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.50		mg/Kg-dry	10	12/31/2016
Chromium	3.0	1.0		mg/Kg-dry	10	12/29/2016
Lead	3.1	0.50		mg/Kg-dry	10	12/31/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/31/2016
Silver	ND	1.0		mg/Kg-dry	10	12/31/2016
Mercury	SW7471A		Prep Date: 12/27/2016		Analyst: LB	
Mercury	ND	0.020		mg/Kg-dry	1	12/27/2016
Percent Moisture	D2974		Prep Date: 12/21/2016		Analyst: GH	
Percent Moisture	15.0	0.2	*	wt%	1	12/22/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-004

Client Sample ID: RPM-SB-47-1
 Collection Date: 12/20/2016 9:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/20/2016 Analyst: PS		
Acetone	ND	0.11		mg/Kg-dry	1	12/24/2016
Benzene	ND	0.0071		mg/Kg-dry	1	12/24/2016
Bromodichloromethane	ND	0.0071		mg/Kg-dry	1	12/24/2016
Bromoform	ND	0.0071		mg/Kg-dry	1	12/24/2016
Bromomethane	ND	0.014		mg/Kg-dry	1	12/24/2016
2-Butanone	ND	0.11		mg/Kg-dry	1	12/24/2016
Carbon disulfide	ND	0.071		mg/Kg-dry	1	12/24/2016
Carbon tetrachloride	ND	0.0071		mg/Kg-dry	1	12/24/2016
Chlorobenzene	ND	0.0071		mg/Kg-dry	1	12/24/2016
Chloroethane	ND	0.014		mg/Kg-dry	1	12/24/2016
Chloroform	ND	0.0071		mg/Kg-dry	1	12/24/2016
Chloromethane	ND	0.014		mg/Kg-dry	1	12/24/2016
Dibromochloromethane	ND	0.0071		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethane	ND	0.0071		mg/Kg-dry	1	12/24/2016
1,2-Dichloroethane	ND	0.0071		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethene	ND	0.0071		mg/Kg-dry	1	12/24/2016
cis-1,2-Dichloroethene	ND	0.0071		mg/Kg-dry	1	12/24/2016
trans-1,2-Dichloroethene	ND	0.0071		mg/Kg-dry	1	12/24/2016
1,2-Dichloropropane	ND	0.0071		mg/Kg-dry	1	12/24/2016
cis-1,3-Dichloropropene	ND	0.0028		mg/Kg-dry	1	12/24/2016
trans-1,3-Dichloropropene	ND	0.0028		mg/Kg-dry	1	12/24/2016
Ethylbenzene	ND	0.0071		mg/Kg-dry	1	12/24/2016
2-Hexanone	ND	0.028		mg/Kg-dry	1	12/24/2016
4-Methyl-2-pentanone	ND	0.028		mg/Kg-dry	1	12/24/2016
Methylene chloride	ND	0.014		mg/Kg-dry	1	12/24/2016
Methyl tert-butyl ether	ND	0.0071		mg/Kg-dry	1	12/24/2016
Styrene	ND	0.0071		mg/Kg-dry	1	12/24/2016
1,1,2,2-Tetrachloroethane	ND	0.0071		mg/Kg-dry	1	12/24/2016
Tetrachloroethene	ND	0.0071		mg/Kg-dry	1	12/24/2016
Toluene	ND	0.0071		mg/Kg-dry	1	12/24/2016
1,1,1-Trichloroethane	ND	0.0071		mg/Kg-dry	1	12/24/2016
1,1,2-Trichloroethane	ND	0.0071		mg/Kg-dry	1	12/24/2016
Trichloroethene	ND	0.0071		mg/Kg-dry	1	12/24/2016
Vinyl chloride	ND	0.0071		mg/Kg-dry	1	12/24/2016
Xylenes, Total	ND	0.021		mg/Kg-dry	1	12/24/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/23/2016 Analyst: DM		
Acenaphthene	ND	0.038		mg/Kg-dry	1	12/23/2016
Acenaphthylene	0.039	0.038		mg/Kg-dry	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-004

Client Sample ID: RPM-SB-47-1
 Collection Date: 12/20/2016 9:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS SW8270C (SW3550B) Prep Date: 12/23/2016 Analyst: DM						
Anthracene	0.12	0.038		mg/Kg-dry	1	12/23/2016
Benz(a)anthracene	0.46	0.038		mg/Kg-dry	1	12/23/2016
Benzo(a)pyrene	0.43	0.038		mg/Kg-dry	1	12/23/2016
Benzo(b)fluoranthene	0.50	0.038		mg/Kg-dry	1	12/23/2016
Benzo(g,h,i)perylene	0.31	0.038		mg/Kg-dry	1	12/23/2016
Benzo(k)fluoranthene	0.40	0.038		mg/Kg-dry	1	12/23/2016
Chrysene	0.62	0.038		mg/Kg-dry	1	12/23/2016
Dibenz(a,h)anthracene	0.19	0.038		mg/Kg-dry	1	12/23/2016
Fluoranthene	0.84	0.038		mg/Kg-dry	1	12/23/2016
Fluorene	ND	0.038		mg/Kg-dry	1	12/23/2016
Indeno(1,2,3-cd)pyrene	0.27	0.038		mg/Kg-dry	1	12/23/2016
Naphthalene	ND	0.038		mg/Kg-dry	1	12/23/2016
Phenanthrene	0.57	0.038		mg/Kg-dry	1	12/23/2016
Pyrene	0.74	0.038		mg/Kg-dry	1	12/23/2016
PCBs SW8082 (SW3550B) Prep Date: 12/22/2016 Analyst: GVC						
Aroclor 1016	ND	0.092		mg/Kg-dry	1	12/22/2016
Aroclor 1221	ND	0.092		mg/Kg-dry	1	12/22/2016
Aroclor 1232	ND	0.092		mg/Kg-dry	1	12/22/2016
Aroclor 1242	ND	0.092		mg/Kg-dry	1	12/22/2016
Aroclor 1248	ND	0.092		mg/Kg-dry	1	12/22/2016
Aroclor 1254	ND	0.092		mg/Kg-dry	1	12/22/2016
Aroclor 1260	ND	0.092		mg/Kg-dry	1	12/22/2016
Pesticides SW8081 (SW3550B) Prep Date: 12/22/2016 Analyst: GVC						
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	12/22/2016
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	12/22/2016
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	12/22/2016
Aldrin	ND	0.0018		mg/Kg-dry	1	12/22/2016
alpha-BHC	ND	0.0018		mg/Kg-dry	1	12/22/2016
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	12/22/2016
beta-BHC	ND	0.0018		mg/Kg-dry	1	12/22/2016
Chlordane	ND	0.018		mg/Kg-dry	1	12/22/2016
delta-BHC	ND	0.0018		mg/Kg-dry	1	12/22/2016
Dieldrin	ND	0.0018		mg/Kg-dry	1	12/22/2016
Endosulfan I	ND	0.0018		mg/Kg-dry	1	12/22/2016
Endosulfan II	ND	0.0018		mg/Kg-dry	1	12/22/2016
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	12/22/2016
Endrin	ND	0.0018		mg/Kg-dry	1	12/22/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-004

Client Sample ID: RPM-SB-47-1
 Collection Date: 12/20/2016 9:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)		Prep Date: 12/22/2016 Analyst: GVC			
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	12/22/2016
Endrin ketone	ND	0.0018		mg/Kg-dry	1	12/22/2016
gamma-BHC	ND	0.0018		mg/Kg-dry	1	12/22/2016
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	12/22/2016
Heptachlor	ND	0.0018		mg/Kg-dry	1	12/22/2016
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	12/22/2016
Methoxychlor	ND	0.0018		mg/Kg-dry	1	12/22/2016
Toxaphene	ND	0.038		mg/Kg-dry	1	12/22/2016
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/28/2016 Analyst: JG			
Aluminum	3300	21		mg/Kg-dry	10	12/31/2016
Antimony	ND	2.1		mg/Kg-dry	10	12/31/2016
Arsenic	8.8	1.0		mg/Kg-dry	10	12/31/2016
Barium	110	1.0		mg/Kg-dry	10	12/31/2016
Beryllium	ND	0.52		mg/Kg-dry	10	12/31/2016
Cadmium	1.4	0.52		mg/Kg-dry	10	12/31/2016
Calcium	64000	62		mg/Kg-dry	10	12/31/2016
Chromium	7.1	1.0		mg/Kg-dry	10	12/31/2016
Cobalt	3.1	1.0		mg/Kg-dry	10	12/31/2016
Copper	280	2.6		mg/Kg-dry	10	12/31/2016
Iron	8000	31		mg/Kg-dry	10	12/31/2016
Lead	190	0.52		mg/Kg-dry	10	12/31/2016
Magnesium	32000	31		mg/Kg-dry	10	12/31/2016
Manganese	180	1.0		mg/Kg-dry	10	12/31/2016
Nickel	8.5	1.0		mg/Kg-dry	10	12/31/2016
Potassium	430	31		mg/Kg-dry	10	12/31/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/31/2016
Silver	ND	1.0		mg/Kg-dry	10	12/31/2016
Sodium	450	62		mg/Kg-dry	10	12/31/2016
Thallium	ND	1.0		mg/Kg-dry	10	12/31/2016
Vanadium	21	1.0		mg/Kg-dry	10	12/31/2016
Zinc	650	5.2		mg/Kg-dry	10	12/31/2016
Mercury	SW7471A		Prep Date: 12/27/2016 Analyst: LB			
Mercury	0.19	0.022		mg/Kg-dry	1	12/27/2016
Cyanide, Total	SW9012A		Prep Date: 12/21/2016 Analyst: MD			
Cyanide	0.48	0.29		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/21/2016 Analyst: PBG			

Qualifiers:
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RL - Reporting / Quantitation Limit for the analysis
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-004

Client Sample ID: RPM-SB-47-1
 Collection Date: 12/20/2016 9:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C					Prep Date: 12/21/2016 Analyst: PBG
pH	8.3			pH Units	1	12/21/2016
Percent Moisture	D2974					Prep Date: 12/21/2016 Analyst: GH
Percent Moisture	14.4	0.2	*	wt%	1	12/22/2016

Qualifiers:
 ND - Not Detected at the Reporting Limit
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 S - Spike Recovery outside accepted recovery limits
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 E - Value above quantitation range
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-005

Client Sample ID: RPM-SB-47-2
 Collection Date: 12/20/2016 10:00:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/20/2016 Analyst: PS		
Acetone	ND	0.082		mg/Kg-dry	1	12/24/2016
Benzene	ND	0.0055		mg/Kg-dry	1	12/24/2016
Bromodichloromethane	ND	0.0055		mg/Kg-dry	1	12/24/2016
Bromoform	ND	0.0055		mg/Kg-dry	1	12/24/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/24/2016
2-Butanone	ND	0.082		mg/Kg-dry	1	12/24/2016
Carbon disulfide	ND	0.055		mg/Kg-dry	1	12/24/2016
Carbon tetrachloride	ND	0.0055		mg/Kg-dry	1	12/24/2016
Chlorobenzene	ND	0.0055		mg/Kg-dry	1	12/24/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/24/2016
Chloroform	ND	0.0055		mg/Kg-dry	1	12/24/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/24/2016
Dibromochloromethane	ND	0.0055		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethane	ND	0.0055		mg/Kg-dry	1	12/24/2016
1,2-Dichloroethane	ND	0.0055		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethene	ND	0.0055		mg/Kg-dry	1	12/24/2016
cis-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	12/24/2016
trans-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	12/24/2016
1,2-Dichloropropane	ND	0.0055		mg/Kg-dry	1	12/24/2016
cis-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	12/24/2016
trans-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	12/24/2016
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	12/24/2016
2-Hexanone	ND	0.022		mg/Kg-dry	1	12/24/2016
4-Methyl-2-pentanone	ND	0.022		mg/Kg-dry	1	12/24/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/24/2016
Methyl tert-butyl ether	ND	0.0055		mg/Kg-dry	1	12/24/2016
Styrene	ND	0.0055		mg/Kg-dry	1	12/24/2016
1,1,2,2-Tetrachloroethane	ND	0.0055		mg/Kg-dry	1	12/24/2016
Tetrachloroethene	ND	0.0055		mg/Kg-dry	1	12/24/2016
Toluene	ND	0.0055		mg/Kg-dry	1	12/24/2016
1,1,1-Trichloroethane	ND	0.0055		mg/Kg-dry	1	12/24/2016
1,1,2-Trichloroethane	ND	0.0055		mg/Kg-dry	1	12/24/2016
Trichloroethene	ND	0.0055		mg/Kg-dry	1	12/24/2016
Vinyl chloride	ND	0.0055		mg/Kg-dry	1	12/24/2016
Xylenes, Total	ND	0.016		mg/Kg-dry	1	12/24/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/23/2016 Analyst: DM		
Acenaphthene	ND	0.036		mg/Kg-dry	1	12/23/2016
Acenaphthylene	ND	0.036		mg/Kg-dry	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-005

Client Sample ID: RPM-SB-47-2
 Collection Date: 12/20/2016 10:00:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)				Prep Date: 12/23/2016	Analyst: DM
Anthracene	ND	0.036		mg/Kg-dry	1	12/23/2016
Benz(a)anthracene	ND	0.036		mg/Kg-dry	1	12/23/2016
Benzo(a)pyrene	ND	0.036		mg/Kg-dry	1	12/23/2016
Benzo(b)fluoranthene	ND	0.036		mg/Kg-dry	1	12/23/2016
Benzo(g,h,i)perylene	ND	0.036		mg/Kg-dry	1	12/23/2016
Benzo(k)fluoranthene	ND	0.036		mg/Kg-dry	1	12/23/2016
Chrysene	ND	0.036		mg/Kg-dry	1	12/23/2016
Dibenz(a,h)anthracene	ND	0.036		mg/Kg-dry	1	12/23/2016
Fluoranthene	ND	0.036		mg/Kg-dry	1	12/23/2016
Fluorene	ND	0.036		mg/Kg-dry	1	12/23/2016
Indeno(1,2,3-cd)pyrene	ND	0.036		mg/Kg-dry	1	12/23/2016
Naphthalene	ND	0.036		mg/Kg-dry	1	12/23/2016
Phenanthrene	ND	0.036		mg/Kg-dry	1	12/23/2016
Pyrene	ND	0.036		mg/Kg-dry	1	12/23/2016
PCBs						
	SW8082 (SW3550B)				Prep Date: 12/22/2016	Analyst: GVC
Aroclor 1016	ND	0.088		mg/Kg-dry	1	12/22/2016
Aroclor 1221	ND	0.088		mg/Kg-dry	1	12/22/2016
Aroclor 1232	ND	0.088		mg/Kg-dry	1	12/22/2016
Aroclor 1242	ND	0.088		mg/Kg-dry	1	12/22/2016
Aroclor 1248	ND	0.088		mg/Kg-dry	1	12/22/2016
Aroclor 1254	ND	0.088		mg/Kg-dry	1	12/22/2016
Aroclor 1260	ND	0.088		mg/Kg-dry	1	12/22/2016
Pesticides						
	SW8081 (SW3550B)				Prep Date: 12/22/2016	Analyst: GVC
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	12/22/2016
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	12/22/2016
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	12/22/2016
Aldrin	ND	0.0018		mg/Kg-dry	1	12/22/2016
alpha-BHC	ND	0.0018		mg/Kg-dry	1	12/22/2016
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	12/22/2016
beta-BHC	ND	0.0018		mg/Kg-dry	1	12/22/2016
Chlordane	ND	0.018		mg/Kg-dry	1	12/22/2016
delta-BHC	ND	0.0018		mg/Kg-dry	1	12/22/2016
Dieldrin	ND	0.0018		mg/Kg-dry	1	12/22/2016
Endosulfan I	ND	0.0018		mg/Kg-dry	1	12/22/2016
Endosulfan II	ND	0.0018		mg/Kg-dry	1	12/22/2016
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	12/22/2016
Endrin	ND	0.0018		mg/Kg-dry	1	12/22/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-005

Client Sample ID: RPM-SB-47-2
 Collection Date: 12/20/2016 10:00:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)		Prep Date: 12/22/2016 Analyst: GVC			
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	12/22/2016
Endrin ketone	ND	0.0018		mg/Kg-dry	1	12/22/2016
gamma-BHC	ND	0.0018		mg/Kg-dry	1	12/22/2016
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	12/22/2016
Heptachlor	ND	0.0018		mg/Kg-dry	1	12/22/2016
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	12/22/2016
Methoxychlor	ND	0.0018		mg/Kg-dry	1	12/22/2016
Toxaphene	ND	0.036		mg/Kg-dry	1	12/22/2016
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/28/2016 Analyst: JG			
Aluminum	1100	19		mg/Kg-dry	10	12/31/2016
Antimony	ND	1.9		mg/Kg-dry	10	12/31/2016
Arsenic	1.6	0.93		mg/Kg-dry	10	12/31/2016
Barium	2.8	0.93		mg/Kg-dry	10	12/31/2016
Beryllium	ND	0.47		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.47		mg/Kg-dry	10	12/31/2016
Calcium	32000	56		mg/Kg-dry	10	12/31/2016
Chromium	2.8	0.93		mg/Kg-dry	10	12/31/2016
Cobalt	3.0	0.93		mg/Kg-dry	10	12/31/2016
Copper	3.0	2.3		mg/Kg-dry	10	12/31/2016
Iron	3200	28		mg/Kg-dry	10	12/31/2016
Lead	2.9	0.47		mg/Kg-dry	10	12/31/2016
Magnesium	18000	28		mg/Kg-dry	10	12/31/2016
Manganese	130	0.93		mg/Kg-dry	10	12/31/2016
Nickel	4.7	0.93		mg/Kg-dry	10	12/31/2016
Potassium	220	28		mg/Kg-dry	10	12/31/2016
Selenium	ND	0.93		mg/Kg-dry	10	12/31/2016
Silver	ND	0.93		mg/Kg-dry	10	12/31/2016
Sodium	130	56		mg/Kg-dry	10	12/31/2016
Thallium	ND	0.93		mg/Kg-dry	10	12/31/2016
Vanadium	5.5	0.93		mg/Kg-dry	10	12/31/2016
Zinc	16	4.7		mg/Kg-dry	10	12/31/2016
Mercury	SW7471A		Prep Date: 12/27/2016 Analyst: LB			
Mercury	ND	0.021		mg/Kg-dry	1	12/27/2016
Cyanide, Total	SW9012A		Prep Date: 12/21/2016 Analyst: MD			
Cyanide	ND	0.28		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/21/2016 Analyst: PBG			

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-005

Client Sample ID: RPM-SB-47-2
 Collection Date: 12/20/2016 10:00:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C					Prep Date: 12/21/2016 Analyst: PBG
pH	8.6			pH Units	1	12/21/2016
Percent Moisture	D2974					Prep Date: 12/21/2016 Analyst: GH
Percent Moisture	9.7	0.2	*	wt%	1	12/22/2016

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 HT - Sample received past holding time
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-006

Client Sample ID: RPM-SB-47-3
 Collection Date: 12/20/2016 10:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/20/2016 Analyst: PS		
Acetone	ND	0.081		mg/Kg-dry	1	12/24/2016
Benzene	ND	0.0054		mg/Kg-dry	1	12/24/2016
Bromodichloromethane	ND	0.0054		mg/Kg-dry	1	12/24/2016
Bromoform	ND	0.0054		mg/Kg-dry	1	12/24/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/24/2016
2-Butanone	ND	0.081		mg/Kg-dry	1	12/24/2016
Carbon disulfide	ND	0.054		mg/Kg-dry	1	12/24/2016
Carbon tetrachloride	ND	0.0054		mg/Kg-dry	1	12/24/2016
Chlorobenzene	ND	0.0054		mg/Kg-dry	1	12/24/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/24/2016
Chloroform	ND	0.0054		mg/Kg-dry	1	12/24/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/24/2016
Dibromochloromethane	ND	0.0054		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethane	ND	0.0054		mg/Kg-dry	1	12/24/2016
1,2-Dichloroethane	ND	0.0054		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethene	ND	0.0054		mg/Kg-dry	1	12/24/2016
cis-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	12/24/2016
trans-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	12/24/2016
1,2-Dichloropropane	ND	0.0054		mg/Kg-dry	1	12/24/2016
cis-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	12/24/2016
trans-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	12/24/2016
Ethylbenzene	ND	0.0054		mg/Kg-dry	1	12/24/2016
2-Hexanone	ND	0.022		mg/Kg-dry	1	12/24/2016
4-Methyl-2-pentanone	ND	0.022		mg/Kg-dry	1	12/24/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/24/2016
Methyl tert-butyl ether	ND	0.0054		mg/Kg-dry	1	12/24/2016
Styrene	ND	0.0054		mg/Kg-dry	1	12/24/2016
1,1,2,2-Tetrachloroethane	ND	0.0054		mg/Kg-dry	1	12/24/2016
Tetrachloroethene	ND	0.0054		mg/Kg-dry	1	12/24/2016
Toluene	ND	0.0054		mg/Kg-dry	1	12/24/2016
1,1,1-Trichloroethane	ND	0.0054		mg/Kg-dry	1	12/24/2016
1,1,2-Trichloroethane	ND	0.0054		mg/Kg-dry	1	12/24/2016
Trichloroethene	ND	0.0054		mg/Kg-dry	1	12/24/2016
Vinyl chloride	ND	0.0054		mg/Kg-dry	1	12/24/2016
Xylenes, Total	ND	0.016		mg/Kg-dry	1	12/24/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/23/2016 Analyst: DM		
Acenaphthene	ND	0.038		mg/Kg-dry	1	12/23/2016
Acenaphthylene	ND	0.038		mg/Kg-dry	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-006

Client Sample ID: RPM-SB-47-3
 Collection Date: 12/20/2016 10:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM	
Anthracene	ND	0.038		mg/Kg-dry	1	12/23/2016
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	12/23/2016
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	12/23/2016
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	12/23/2016
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	12/23/2016
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	12/23/2016
Chrysene	ND	0.038		mg/Kg-dry	1	12/23/2016
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	12/23/2016
Fluoranthene	ND	0.038		mg/Kg-dry	1	12/23/2016
Fluorene	ND	0.038		mg/Kg-dry	1	12/23/2016
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	12/23/2016
Naphthalene	ND	0.038		mg/Kg-dry	1	12/23/2016
Phenanthrene	ND	0.038		mg/Kg-dry	1	12/23/2016
Pyrene	ND	0.038		mg/Kg-dry	1	12/23/2016
PCBs	SW8082 (SW3550B)		Prep Date: 12/22/2016		Analyst: GVC	
Aroclor 1016	ND	0.094		mg/Kg-dry	1	12/23/2016
Aroclor 1221	ND	0.094		mg/Kg-dry	1	12/23/2016
Aroclor 1232	ND	0.094		mg/Kg-dry	1	12/23/2016
Aroclor 1242	ND	0.094		mg/Kg-dry	1	12/23/2016
Aroclor 1248	ND	0.094		mg/Kg-dry	1	12/23/2016
Aroclor 1254	ND	0.094		mg/Kg-dry	1	12/23/2016
Aroclor 1260	ND	0.094		mg/Kg-dry	1	12/23/2016
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/28/2016		Analyst: JG	
Arsenic	1.8	0.99		mg/Kg-dry	10	12/31/2016
Barium	3.3	0.99		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.50		mg/Kg-dry	10	12/31/2016
Chromium	3.6	0.99		mg/Kg-dry	10	12/31/2016
Lead	3.7	0.50		mg/Kg-dry	10	12/31/2016
Selenium	ND	0.99		mg/Kg-dry	10	12/31/2016
Silver	ND	0.99		mg/Kg-dry	10	12/31/2016
Mercury	SW7471A		Prep Date: 12/27/2016		Analyst: LB	
Mercury	ND	0.022		mg/Kg-dry	1	12/27/2016
Percent Moisture	D2974		Prep Date: 12/21/2016		Analyst: GH	
Percent Moisture	15.1	0.2	*	wt%	1	12/22/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-007

Client Sample ID: RPM-SB-46-1
 Collection Date: 12/20/2016 10:25:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/20/2016 Analyst: PS		
Acetone	ND	0.085		mg/Kg-dry	1	12/24/2016
Benzene	ND	0.0057		mg/Kg-dry	1	12/24/2016
Bromodichloromethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
Bromoform	ND	0.0057		mg/Kg-dry	1	12/24/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/24/2016
2-Butanone	ND	0.085		mg/Kg-dry	1	12/24/2016
Carbon disulfide	ND	0.057		mg/Kg-dry	1	12/24/2016
Carbon tetrachloride	ND	0.0057		mg/Kg-dry	1	12/24/2016
Chlorobenzene	ND	0.0057		mg/Kg-dry	1	12/24/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/24/2016
Chloroform	ND	0.0057		mg/Kg-dry	1	12/24/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/24/2016
Dibromochloromethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,2-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
cis-1,2-Dichloroethene	0.0080	0.0057		mg/Kg-dry	1	12/24/2016
trans-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,2-Dichloropropane	ND	0.0057		mg/Kg-dry	1	12/24/2016
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/24/2016
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/24/2016
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	12/24/2016
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/24/2016
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/24/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/24/2016
Methyl tert-butyl ether	ND	0.0057		mg/Kg-dry	1	12/24/2016
Styrene	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1,2,2-Tetrachloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
Tetrachloroethene	25	2.9		mg/Kg-dry	500	12/26/2016
Toluene	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1,1-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1,2-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
Trichloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
Vinyl chloride	ND	0.0057		mg/Kg-dry	1	12/24/2016
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/24/2016
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/23/2016 Analyst: DM		
Acenaphthene	ND	0.038		mg/Kg-dry	1	12/23/2016
Acenaphthylene	ND	0.038		mg/Kg-dry	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
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Date Reported: January 04, 2017

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ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-007

Client Sample ID: RPM-SB-46-1
 Collection Date: 12/20/2016 10:25:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM	
Aniline	ND	0.38		mg/Kg-dry	1	12/23/2016
Anthracene	0.058	0.038		mg/Kg-dry	1	12/23/2016
Benz(a)anthracene	0.22	0.038		mg/Kg-dry	1	12/23/2016
Benzidine	ND	0.38		mg/Kg-dry	1	12/23/2016
Benzo(a)pyrene	0.21	0.038		mg/Kg-dry	1	12/23/2016
Benzo(b)fluoranthene	0.18	0.038		mg/Kg-dry	1	12/23/2016
Benzo(g,h,i)perylene	0.14	0.038		mg/Kg-dry	1	12/23/2016
Benzo(k)fluoranthene	0.16	0.038		mg/Kg-dry	1	12/23/2016
Benzoic acid	ND	0.95		mg/Kg-dry	1	12/23/2016
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	12/23/2016
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	12/23/2016
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	12/23/2016
Bis(2-ethylhexyl)phthalate	ND	0.95		mg/Kg-dry	1	12/23/2016
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	12/23/2016
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	12/23/2016
Carbazole	ND	0.19		mg/Kg-dry	1	12/23/2016
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	12/23/2016
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	12/23/2016
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	12/23/2016
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	12/23/2016
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	12/23/2016
Chrysene	0.24	0.038		mg/Kg-dry	1	12/23/2016
Dibenz(a,h)anthracene	0.066	0.038		mg/Kg-dry	1	12/23/2016
Dibenzofuran	ND	0.19		mg/Kg-dry	1	12/23/2016
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	12/23/2016
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	12/23/2016
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	12/23/2016
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	12/23/2016
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	12/23/2016
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	12/23/2016
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	12/23/2016
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	12/23/2016
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	12/23/2016
2,4-Dinitrophenol	ND	0.95		mg/Kg-dry	1	12/23/2016
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	12/23/2016
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	12/23/2016
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	12/23/2016
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-007

Client Sample ID: RPM-SB-46-1
 Collection Date: 12/20/2016 10:25:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM	
Fluoranthene	0.40	0.038		mg/Kg-dry	1	12/23/2016
Fluorene	ND	0.038		mg/Kg-dry	1	12/23/2016
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	12/23/2016
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	12/23/2016
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	12/23/2016
Hexachloroethane	ND	0.19		mg/Kg-dry	1	12/23/2016
Indeno(1,2,3-cd)pyrene	0.12	0.038		mg/Kg-dry	1	12/23/2016
Isophorone	ND	0.19		mg/Kg-dry	1	12/23/2016
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	12/23/2016
2-Methylphenol	ND	0.19		mg/Kg-dry	1	12/23/2016
4-Methylphenol	ND	0.19		mg/Kg-dry	1	12/23/2016
Naphthalene	ND	0.038		mg/Kg-dry	1	12/23/2016
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	12/23/2016
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	12/23/2016
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	12/23/2016
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	12/23/2016
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	12/23/2016
Nitrobenzene	ND	0.038		mg/Kg-dry	1	12/23/2016
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	12/23/2016
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	12/23/2016
N-Nitrosodiphenylamine	ND	0.038		mg/Kg-dry	1	12/23/2016
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	12/23/2016
Pentachlorophenol	ND	0.038		mg/Kg-dry	1	12/23/2016
Phenanthrene	0.28	0.038		mg/Kg-dry	1	12/23/2016
Phenol	ND	0.19		mg/Kg-dry	1	12/23/2016
Pyrene	0.46	0.038		mg/Kg-dry	1	12/23/2016
Pyridine	ND	0.77		mg/Kg-dry	1	12/23/2016
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	12/23/2016
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	12/23/2016
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	12/23/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/22/2016		Analyst: GVC	
Aroclor 1016	ND	0.091		mg/Kg-dry	1	12/22/2016
Aroclor 1221	ND	0.091		mg/Kg-dry	1	12/22/2016
Aroclor 1232	ND	0.091		mg/Kg-dry	1	12/22/2016
Aroclor 1242	ND	0.091		mg/Kg-dry	1	12/22/2016
Aroclor 1248	ND	0.091		mg/Kg-dry	1	12/22/2016
Aroclor 1254	ND	0.091		mg/Kg-dry	1	12/22/2016
Aroclor 1260	ND	0.091		mg/Kg-dry	1	12/22/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-007

Client Sample ID: RPM-SB-46-1
 Collection Date: 12/20/2016 10:25:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)		Prep Date: 12/22/2016 Analyst: GVC			
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	12/22/2016
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	12/22/2016
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	12/22/2016
Aldrin	ND	0.0018		mg/Kg-dry	1	12/22/2016
alpha-BHC	ND	0.0018		mg/Kg-dry	1	12/22/2016
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	12/22/2016
beta-BHC	ND	0.0018		mg/Kg-dry	1	12/22/2016
Chlordane	ND	0.018		mg/Kg-dry	1	12/22/2016
delta-BHC	ND	0.0018		mg/Kg-dry	1	12/22/2016
Dieldrin	ND	0.0018		mg/Kg-dry	1	12/22/2016
Endosulfan I	ND	0.0018		mg/Kg-dry	1	12/22/2016
Endosulfan II	ND	0.0018		mg/Kg-dry	1	12/22/2016
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	12/22/2016
Endrin	ND	0.0018		mg/Kg-dry	1	12/22/2016
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	12/22/2016
Endrin ketone	ND	0.0018		mg/Kg-dry	1	12/22/2016
gamma-BHC	ND	0.0018		mg/Kg-dry	1	12/22/2016
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	12/22/2016
Heptachlor	ND	0.0018		mg/Kg-dry	1	12/22/2016
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	12/22/2016
Methoxychlor	ND	0.0018		mg/Kg-dry	1	12/22/2016
Toxaphene	ND	0.038		mg/Kg-dry	1	12/22/2016
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/28/2016 Analyst: JG			
Aluminum	4300	21		mg/Kg-dry	10	12/31/2016
Antimony	ND	2.1		mg/Kg-dry	10	12/31/2016
Arsenic	6.7	1.0		mg/Kg-dry	10	12/31/2016
Barium	38	1.0		mg/Kg-dry	10	12/31/2016
Beryllium	0.78	0.51		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.51		mg/Kg-dry	10	12/31/2016
Calcium	28000	62		mg/Kg-dry	10	12/31/2016
Chromium	10	1.0		mg/Kg-dry	10	12/31/2016
Cobalt	3.5	1.0		mg/Kg-dry	10	12/31/2016
Copper	16	2.6		mg/Kg-dry	10	12/31/2016
Iron	19000	31		mg/Kg-dry	10	12/31/2016
Lead	25	0.51		mg/Kg-dry	10	12/31/2016
Magnesium	12000	31		mg/Kg-dry	10	12/31/2016
Manganese	180	1.0		mg/Kg-dry	10	12/31/2016
Nickel	13	1.0		mg/Kg-dry	10	12/31/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-007

Client Sample ID: RPM-SB-46-1
 Collection Date: 12/20/2016 10:25:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/28/2016 Analyst: JG			
Potassium	450	31		mg/Kg-dry	10	12/31/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/31/2016
Silver	ND	1.0		mg/Kg-dry	10	12/31/2016
Sodium	2100	62		mg/Kg-dry	10	12/31/2016
Thallium	ND	1.0		mg/Kg-dry	10	12/31/2016
Vanadium	30	1.0		mg/Kg-dry	10	12/31/2016
Zinc	46	5.1		mg/Kg-dry	10	12/31/2016
Mercury	SW7471A		Prep Date: 12/27/2016 Analyst: LB			
Mercury	0.031	0.019		mg/Kg-dry	1	12/27/2016
Cyanide, Total	SW9012A		Prep Date: 12/21/2016 Analyst: MD			
Cyanide	ND	0.29		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/21/2016 Analyst: PBG			
pH	8.0			pH Units	1	12/21/2016
Percent Moisture	D2974		Prep Date: 12/21/2016 Analyst: GH			
Percent Moisture	12.9	0.2	*	wt%	1	12/22/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-008

Client Sample ID: RPM-SB-46-2
 Collection Date: 12/20/2016 10:35:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/20/2016		Analyst: PS
Acetone	ND	0.088		mg/Kg-dry	1	12/24/2016
Benzene	ND	0.0059		mg/Kg-dry	1	12/24/2016
Bromodichloromethane	ND	0.0059		mg/Kg-dry	1	12/24/2016
Bromoform	ND	0.0059		mg/Kg-dry	1	12/24/2016
Bromomethane	ND	0.012		mg/Kg-dry	1	12/24/2016
2-Butanone	ND	0.088		mg/Kg-dry	1	12/24/2016
Carbon disulfide	ND	0.059		mg/Kg-dry	1	12/24/2016
Carbon tetrachloride	ND	0.0059		mg/Kg-dry	1	12/24/2016
Chlorobenzene	ND	0.0059		mg/Kg-dry	1	12/24/2016
Chloroethane	ND	0.012		mg/Kg-dry	1	12/24/2016
Chloroform	ND	0.0059		mg/Kg-dry	1	12/24/2016
Chloromethane	ND	0.012		mg/Kg-dry	1	12/24/2016
Dibromochloromethane	ND	0.0059		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethane	ND	0.0059		mg/Kg-dry	1	12/24/2016
1,2-Dichloroethane	ND	0.0059		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/24/2016
cis-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/24/2016
trans-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/24/2016
1,2-Dichloropropane	ND	0.0059		mg/Kg-dry	1	12/24/2016
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/24/2016
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/24/2016
Ethylbenzene	ND	0.0059		mg/Kg-dry	1	12/24/2016
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/24/2016
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/24/2016
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/24/2016
Methyl tert-butyl ether	ND	0.0059		mg/Kg-dry	1	12/24/2016
Styrene	ND	0.0059		mg/Kg-dry	1	12/24/2016
1,1,1,2-Tetrachloroethane	ND	0.0059		mg/Kg-dry	1	12/24/2016
Tetrachloroethene	0.020	0.0059		mg/Kg-dry	1	12/24/2016
Toluene	ND	0.0059		mg/Kg-dry	1	12/24/2016
1,1,1-Trichloroethane	ND	0.0059		mg/Kg-dry	1	12/24/2016
1,1,2-Trichloroethane	ND	0.0059		mg/Kg-dry	1	12/24/2016
Trichloroethene	ND	0.0059		mg/Kg-dry	1	12/24/2016
Vinyl chloride	ND	0.0059		mg/Kg-dry	1	12/24/2016
Xylenes, Total	ND	0.018		mg/Kg-dry	1	12/24/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	12/23/2016
Acenaphthylene	ND	0.040		mg/Kg-dry	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-008

Client Sample ID: RPM-SB-46-2
 Collection Date: 12/20/2016 10:35:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM	
Anthracene	ND	0.040		mg/Kg-dry	1	12/23/2016
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	12/23/2016
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	12/23/2016
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	12/23/2016
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	12/23/2016
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	12/23/2016
Chrysene	ND	0.040		mg/Kg-dry	1	12/23/2016
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	12/23/2016
Fluoranthene	ND	0.040		mg/Kg-dry	1	12/23/2016
Fluorene	ND	0.040		mg/Kg-dry	1	12/23/2016
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	12/23/2016
Naphthalene	ND	0.040		mg/Kg-dry	1	12/23/2016
Phenanthrene	ND	0.040		mg/Kg-dry	1	12/23/2016
Pyrene	ND	0.040		mg/Kg-dry	1	12/23/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/22/2016		Analyst: GVC	
Aroclor 1016	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1221	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1232	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1242	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1248	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1254	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1260	ND	0.096		mg/Kg-dry	1	12/23/2016
Pesticides						
	SW8081 (SW3550B)		Prep Date: 12/22/2016		Analyst: GVC	
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	12/23/2016
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	12/23/2016
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	12/23/2016
Aldrin	ND	0.0019		mg/Kg-dry	1	12/23/2016
alpha-BHC	ND	0.0019		mg/Kg-dry	1	12/23/2016
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	12/23/2016
beta-BHC	ND	0.0019		mg/Kg-dry	1	12/23/2016
Chlordane	ND	0.019		mg/Kg-dry	1	12/23/2016
delta-BHC	ND	0.0019		mg/Kg-dry	1	12/23/2016
Dieldrin	ND	0.0019		mg/Kg-dry	1	12/23/2016
Endosulfan I	ND	0.0019		mg/Kg-dry	1	12/23/2016
Endosulfan II	ND	0.0019		mg/Kg-dry	1	12/23/2016
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	12/23/2016
Endrin	ND	0.0019		mg/Kg-dry	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-008

Client Sample ID: RPM-SB-46-2
 Collection Date: 12/20/2016 10:35:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)		Prep Date: 12/22/2016 Analyst: GVC			
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	12/23/2016
Endrin ketone	ND	0.0019		mg/Kg-dry	1	12/23/2016
gamma-BHC	ND	0.0019		mg/Kg-dry	1	12/23/2016
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	12/23/2016
Heptachlor	ND	0.0019		mg/Kg-dry	1	12/23/2016
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	12/23/2016
Methoxychlor	ND	0.0019		mg/Kg-dry	1	12/23/2016
Toxaphene	ND	0.040		mg/Kg-dry	1	12/23/2016
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/28/2016 Analyst: JG			
Aluminum	1100	22		mg/Kg-dry	10	12/31/2016
Antimony	ND	2.2		mg/Kg-dry	10	12/31/2016
Arsenic	1.9	1.1		mg/Kg-dry	10	12/31/2016
Barium	2.9	1.1		mg/Kg-dry	10	12/31/2016
Beryllium	ND	0.55		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.55		mg/Kg-dry	10	12/31/2016
Calcium	55000	66		mg/Kg-dry	10	12/31/2016
Chromium	3.8	1.1		mg/Kg-dry	10	12/31/2016
Cobalt	2.5	1.1		mg/Kg-dry	10	12/31/2016
Copper	3.8	2.7		mg/Kg-dry	10	12/31/2016
Iron	4700	33		mg/Kg-dry	10	12/31/2016
Lead	2.7	0.55		mg/Kg-dry	10	12/31/2016
Magnesium	27000	33		mg/Kg-dry	10	12/31/2016
Manganese	250	1.1		mg/Kg-dry	10	12/31/2016
Nickel	4.5	1.1		mg/Kg-dry	10	12/31/2016
Potassium	250	33		mg/Kg-dry	10	12/31/2016
Selenium	ND	1.1		mg/Kg-dry	10	12/31/2016
Silver	ND	1.1		mg/Kg-dry	10	12/31/2016
Sodium	210	66		mg/Kg-dry	10	12/31/2016
Thallium	ND	1.1		mg/Kg-dry	10	12/31/2016
Vanadium	6.5	1.1		mg/Kg-dry	10	12/31/2016
Zinc	16	5.5		mg/Kg-dry	10	12/31/2016
Mercury	SW7471A		Prep Date: 12/27/2016 Analyst: LB			
Mercury	ND	0.023		mg/Kg-dry	1	12/27/2016
Cyanide, Total	SW9012A		Prep Date: 12/21/2016 Analyst: MD			
Cyanide	ND	0.30		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/21/2016 Analyst: PBG			

Qualifiers:
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 R - RPD outside accepted recovery limits
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 H - Holding time exceeded

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-008

Client Sample ID: RPM-SB-46-2
 Collection Date: 12/20/2016 10:35:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C					Prep Date: 12/21/2016 Analyst: PBG
pH	8.3			pH Units	1	12/21/2016
Percent Moisture	D2974					Prep Date: 12/21/2016 Analyst: GH
Percent Moisture	17.6	0.2	*	wt%	1	12/22/2016

Qualifiers:
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 HT - Sample received past holding time
 * - Non-accredited parameter

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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-009

Client Sample ID: RPM-SB-46-3
 Collection Date: 12/20/2016 10:45:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/20/2016 Analyst: PS		
Acetone	ND	0.085		mg/Kg-dry	1	12/24/2016
Benzene	ND	0.0057		mg/Kg-dry	1	12/24/2016
Bromodichloromethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
Bromoform	ND	0.0057		mg/Kg-dry	1	12/24/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/24/2016
2-Butanone	ND	0.085		mg/Kg-dry	1	12/24/2016
Carbon disulfide	ND	0.057		mg/Kg-dry	1	12/24/2016
Carbon tetrachloride	ND	0.0057		mg/Kg-dry	1	12/24/2016
Chlorobenzene	ND	0.0057		mg/Kg-dry	1	12/24/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/24/2016
Chloroform	ND	0.0057		mg/Kg-dry	1	12/24/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/24/2016
Dibromochloromethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,2-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
cis-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
trans-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,2-Dichloropropane	ND	0.0057		mg/Kg-dry	1	12/24/2016
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/24/2016
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/24/2016
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	12/24/2016
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/24/2016
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/24/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/24/2016
Methyl tert-butyl ether	ND	0.0057		mg/Kg-dry	1	12/24/2016
Styrene	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1,2,2-Tetrachloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
Tetrachloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
Toluene	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1,1-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1,2-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
Trichloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
Vinyl chloride	ND	0.0057		mg/Kg-dry	1	12/24/2016
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/24/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/23/2016 Analyst: DM		
Acenaphthene	ND	0.039		mg/Kg-dry	1	12/23/2016
Acenaphthylene	ND	0.039		mg/Kg-dry	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
Work Order: 16120640 Revision 0
Project: CTA RPM, Chicago, IL
Lab ID: 16120640-009

Client Sample ID: RPM-SB-46-3
Collection Date: 12/20/2016 10:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM	
Anthracene	ND	0.039		mg/Kg-dry	1	12/23/2016
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	12/23/2016
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	12/23/2016
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	12/23/2016
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	12/23/2016
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	12/23/2016
Chrysene	ND	0.039		mg/Kg-dry	1	12/23/2016
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	12/23/2016
Fluoranthene	ND	0.039		mg/Kg-dry	1	12/23/2016
Fluorene	ND	0.039		mg/Kg-dry	1	12/23/2016
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	12/23/2016
Naphthalene	ND	0.039		mg/Kg-dry	1	12/23/2016
Phenanthrene	ND	0.039		mg/Kg-dry	1	12/23/2016
Pyrene	ND	0.039		mg/Kg-dry	1	12/23/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/22/2016		Analyst: GVC	
Aroclor 1016	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1221	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1232	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1242	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1248	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1254	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1260	ND	0.096		mg/Kg-dry	1	12/23/2016
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 12/28/2016		Analyst: JG	
Arsenic	3.2	1.0		mg/Kg-dry	10	12/31/2016
Barium	9.9	1.0		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.52		mg/Kg-dry	10	12/31/2016
Chromium	4.8	1.0		mg/Kg-dry	10	12/31/2016
Lead	4.9	0.52		mg/Kg-dry	10	12/31/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/31/2016
Silver	ND	1.0		mg/Kg-dry	10	12/31/2016
Mercury						
	SW7471A		Prep Date: 12/27/2016		Analyst: LB	
Mercury	ND	0.021		mg/Kg-dry	1	12/27/2016
Percent Moisture						
	D2974		Prep Date: 12/21/2016		Analyst: GH	
Percent Moisture	18.0	0.2	*	wt%	1	12/22/2016

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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-010

Client Sample ID: RPM-SB-45-1
 Collection Date: 12/20/2016 10:55:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/20/2016 Analyst: PS		
Acetone	ND	0.10		mg/Kg-dry	1	12/24/2016
Benzene	ND	0.0068		mg/Kg-dry	1	12/24/2016
Bromodichloromethane	ND	0.0068		mg/Kg-dry	1	12/24/2016
Bromoform	ND	0.0068		mg/Kg-dry	1	12/24/2016
Bromomethane	ND	0.014		mg/Kg-dry	1	12/24/2016
2-Butanone	ND	0.10		mg/Kg-dry	1	12/24/2016
Carbon disulfide	ND	0.068		mg/Kg-dry	1	12/24/2016
Carbon tetrachloride	ND	0.0068		mg/Kg-dry	1	12/24/2016
Chlorobenzene	ND	0.0068		mg/Kg-dry	1	12/24/2016
Chloroethane	ND	0.014		mg/Kg-dry	1	12/24/2016
Chloroform	ND	0.0068		mg/Kg-dry	1	12/24/2016
Chloromethane	ND	0.014		mg/Kg-dry	1	12/24/2016
Dibromochloromethane	ND	0.0068		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethane	ND	0.0068		mg/Kg-dry	1	12/24/2016
1,2-Dichloroethane	ND	0.0068		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethene	ND	0.0068		mg/Kg-dry	1	12/24/2016
cis-1,2-Dichloroethene	ND	0.0068		mg/Kg-dry	1	12/24/2016
trans-1,2-Dichloroethene	ND	0.0068		mg/Kg-dry	1	12/24/2016
1,2-Dichloropropane	ND	0.0068		mg/Kg-dry	1	12/24/2016
cis-1,3-Dichloropropene	ND	0.0027		mg/Kg-dry	1	12/24/2016
trans-1,3-Dichloropropene	ND	0.0027		mg/Kg-dry	1	12/24/2016
Ethylbenzene	ND	0.0068		mg/Kg-dry	1	12/24/2016
2-Hexanone	ND	0.027		mg/Kg-dry	1	12/24/2016
4-Methyl-2-pentanone	ND	0.027		mg/Kg-dry	1	12/24/2016
Methylene chloride	ND	0.014		mg/Kg-dry	1	12/24/2016
Methyl tert-butyl ether	ND	0.0068		mg/Kg-dry	1	12/24/2016
Styrene	ND	0.0068		mg/Kg-dry	1	12/24/2016
1,1,2,2-Tetrachloroethane	ND	0.0068		mg/Kg-dry	1	12/24/2016
Tetrachloroethene	ND	0.0068		mg/Kg-dry	1	12/24/2016
Toluene	ND	0.0068		mg/Kg-dry	1	12/24/2016
1,1,1-Trichloroethane	ND	0.0068		mg/Kg-dry	1	12/24/2016
1,1,2-Trichloroethane	ND	0.0068		mg/Kg-dry	1	12/24/2016
Trichloroethene	ND	0.0068		mg/Kg-dry	1	12/24/2016
Vinyl chloride	ND	0.0068		mg/Kg-dry	1	12/24/2016
Xylenes, Total	ND	0.020		mg/Kg-dry	1	12/24/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/23/2016 Analyst: DM		
Acenaphthene	ND	0.037		mg/Kg-dry	1	12/23/2016
Acenaphthylene	ND	0.037		mg/Kg-dry	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-010

Client Sample ID: RPM-SB-45-1
 Collection Date: 12/20/2016 10:55:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS SW8270C (SW3550B) Prep Date: 12/23/2016 Analyst: DM						
Anthracene	0.063	0.037		mg/Kg-dry	1	12/23/2016
Benz(a)anthracene	0.32	0.037		mg/Kg-dry	1	12/23/2016
Benzo(a)pyrene	0.27	0.037		mg/Kg-dry	1	12/23/2016
Benzo(b)fluoranthene	0.32	0.037		mg/Kg-dry	1	12/23/2016
Benzo(g,h,i)perylene	0.20	0.037		mg/Kg-dry	1	12/23/2016
Benzo(k)fluoranthene	0.23	0.037		mg/Kg-dry	1	12/23/2016
Chrysene	0.39	0.037		mg/Kg-dry	1	12/23/2016
Dibenz(a,h)anthracene	0.11	0.037		mg/Kg-dry	1	12/23/2016
Fluoranthene	0.57	0.037		mg/Kg-dry	1	12/23/2016
Fluorene	ND	0.037		mg/Kg-dry	1	12/23/2016
Indeno(1,2,3-cd)pyrene	0.18	0.037		mg/Kg-dry	1	12/23/2016
Naphthalene	ND	0.037		mg/Kg-dry	1	12/23/2016
Phenanthrene	0.29	0.037		mg/Kg-dry	1	12/23/2016
Pyrene	0.49	0.037		mg/Kg-dry	1	12/23/2016
PCBs SW8082 (SW3550B) Prep Date: 12/22/2016 Analyst: GVC						
Aroclor 1016	ND	0.090		mg/Kg-dry	1	12/23/2016
Aroclor 1221	ND	0.090		mg/Kg-dry	1	12/23/2016
Aroclor 1232	ND	0.090		mg/Kg-dry	1	12/23/2016
Aroclor 1242	ND	0.090		mg/Kg-dry	1	12/23/2016
Aroclor 1248	ND	0.090		mg/Kg-dry	1	12/23/2016
Aroclor 1254	ND	0.090		mg/Kg-dry	1	12/23/2016
Aroclor 1260	ND	0.090		mg/Kg-dry	1	12/23/2016
Pesticides SW8081 (SW3550B) Prep Date: 12/22/2016 Analyst: GVC						
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	12/23/2016
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	12/23/2016
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	12/23/2016
Aldrin	ND	0.0018		mg/Kg-dry	1	12/23/2016
alpha-BHC	ND	0.0018		mg/Kg-dry	1	12/23/2016
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	12/23/2016
beta-BHC	ND	0.0018		mg/Kg-dry	1	12/23/2016
Chlordane	ND	0.018		mg/Kg-dry	1	12/23/2016
delta-BHC	ND	0.0018		mg/Kg-dry	1	12/23/2016
Dieldrin	ND	0.0018		mg/Kg-dry	1	12/23/2016
Endosulfan I	ND	0.0018		mg/Kg-dry	1	12/23/2016
Endosulfan II	ND	0.0018		mg/Kg-dry	1	12/23/2016
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	12/23/2016
Endrin	ND	0.0018		mg/Kg-dry	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-010

Client Sample ID: RPM-SB-45-1
 Collection Date: 12/20/2016 10:55:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)		Prep Date: 12/22/2016 Analyst: GVC			
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	12/23/2016
Endrin ketone	ND	0.0018		mg/Kg-dry	1	12/23/2016
gamma-BHC	ND	0.0018		mg/Kg-dry	1	12/23/2016
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	12/23/2016
Heptachlor	ND	0.0018		mg/Kg-dry	1	12/23/2016
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	12/23/2016
Methoxychlor	ND	0.0018		mg/Kg-dry	1	12/23/2016
Toxaphene	ND	0.037		mg/Kg-dry	1	12/23/2016
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/28/2016 Analyst: JG			
Aluminum	4800	21		mg/Kg-dry	10	12/31/2016
Antimony	ND	2.1		mg/Kg-dry	10	12/31/2016
Arsenic	10	1.0		mg/Kg-dry	10	12/31/2016
Barium	150	1.0		mg/Kg-dry	10	12/31/2016
Beryllium	ND	0.51		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.51		mg/Kg-dry	10	12/31/2016
Calcium	41000	62		mg/Kg-dry	10	12/31/2016
Chromium	7.8	1.0		mg/Kg-dry	10	12/31/2016
Cobalt	4.4	1.0		mg/Kg-dry	10	12/31/2016
Copper	47	2.6		mg/Kg-dry	10	12/31/2016
Iron	8500	31		mg/Kg-dry	10	12/31/2016
Lead	370	0.51		mg/Kg-dry	10	12/31/2016
Magnesium	20000	31		mg/Kg-dry	10	12/31/2016
Manganese	200	1.0		mg/Kg-dry	10	12/31/2016
Nickel	9.5	1.0		mg/Kg-dry	10	12/31/2016
Potassium	500	31		mg/Kg-dry	10	12/31/2016
Selenium	1.2	1.0		mg/Kg-dry	10	12/31/2016
Silver	ND	1.0		mg/Kg-dry	10	12/31/2016
Sodium	400	62		mg/Kg-dry	10	12/31/2016
Thallium	ND	1.0		mg/Kg-dry	10	12/31/2016
Vanadium	21	1.0		mg/Kg-dry	10	12/31/2016
Zinc	120	5.1		mg/Kg-dry	10	12/31/2016
Mercury	SW7471A		Prep Date: 12/27/2016 Analyst: LB			
Mercury	0.27	0.022		mg/Kg-dry	1	12/27/2016
Cyanide, Total	SW9012A		Prep Date: 12/21/2016 Analyst: MD			
Cyanide	ND	0.28		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/21/2016 Analyst: PBG			

Qualifiers:
 ND - Not Detected at the Reporting Limit
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 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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Date Reported: January 04, 2017

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ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-010

Client Sample ID: RPM-SB-45-1
 Collection Date: 12/20/2016 10:55:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C					Prep Date: 12/21/2016 Analyst: PBG
pH	8.4			pH Units	1	12/21/2016
Percent Moisture	D2974					Prep Date: 12/21/2016 Analyst: GH
Percent Moisture	11.9	0.2	*	wt%	1	12/22/2016

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-011

Client Sample ID: RPM-SB-45-2
 Collection Date: 12/20/2016 11:00:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/20/2016 Analyst: PS		
Acetone	ND	0.084		mg/Kg-dry	1	12/24/2016
Benzene	ND	0.0056		mg/Kg-dry	1	12/24/2016
Bromodichloromethane	ND	0.0056		mg/Kg-dry	1	12/24/2016
Bromoform	ND	0.0056		mg/Kg-dry	1	12/24/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/24/2016
2-Butanone	ND	0.084		mg/Kg-dry	1	12/24/2016
Carbon disulfide	ND	0.056		mg/Kg-dry	1	12/24/2016
Carbon tetrachloride	ND	0.0056		mg/Kg-dry	1	12/24/2016
Chlorobenzene	ND	0.0056		mg/Kg-dry	1	12/24/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/24/2016
Chloroform	ND	0.0056		mg/Kg-dry	1	12/24/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/24/2016
Dibromochloromethane	ND	0.0056		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethane	ND	0.0056		mg/Kg-dry	1	12/24/2016
1,2-Dichloroethane	ND	0.0056		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/24/2016
cis-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/24/2016
trans-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/24/2016
1,2-Dichloropropane	ND	0.0056		mg/Kg-dry	1	12/24/2016
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/24/2016
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/24/2016
Ethylbenzene	ND	0.0056		mg/Kg-dry	1	12/24/2016
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/24/2016
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/24/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/24/2016
Methyl tert-butyl ether	ND	0.0056		mg/Kg-dry	1	12/24/2016
Styrene	ND	0.0056		mg/Kg-dry	1	12/24/2016
1,1,2,2-Tetrachloroethane	ND	0.0056		mg/Kg-dry	1	12/24/2016
Tetrachloroethene	ND	0.0056		mg/Kg-dry	1	12/24/2016
Toluene	ND	0.0056		mg/Kg-dry	1	12/24/2016
1,1,1-Trichloroethane	ND	0.0056		mg/Kg-dry	1	12/24/2016
1,1,2-Trichloroethane	ND	0.0056		mg/Kg-dry	1	12/24/2016
Trichloroethene	ND	0.0056		mg/Kg-dry	1	12/24/2016
Vinyl chloride	ND	0.0056		mg/Kg-dry	1	12/24/2016
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/24/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/23/2016 Analyst: DM		
Acenaphthene	ND	0.039		mg/Kg-dry	1	12/23/2016
Acenaphthylene	ND	0.039		mg/Kg-dry	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
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 * - Non-accredited parameter H - Holding time exceeded

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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
Work Order: 16120640 Revision 0
Project: CTA RPM, Chicago, IL
Lab ID: 16120640-011

Client Sample ID: RPM-SB-45-2
Collection Date: 12/20/2016 11:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)				Prep Date: 12/23/2016	Analyst: DM
Anthracene	ND	0.039		mg/Kg-dry	1	12/23/2016
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	12/23/2016
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	12/23/2016
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	12/23/2016
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	12/23/2016
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	12/23/2016
Chrysene	ND	0.039		mg/Kg-dry	1	12/23/2016
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	12/23/2016
Fluoranthene	ND	0.039		mg/Kg-dry	1	12/23/2016
Fluorene	ND	0.039		mg/Kg-dry	1	12/23/2016
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	12/23/2016
Naphthalene	ND	0.039		mg/Kg-dry	1	12/23/2016
Phenanthrene	ND	0.039		mg/Kg-dry	1	12/23/2016
Pyrene	ND	0.039		mg/Kg-dry	1	12/23/2016
PCBs						
	SW8082 (SW3550B)				Prep Date: 12/22/2016	Analyst: GVC
Aroclor 1016	ND	0.095		mg/Kg-dry	1	12/23/2016
Aroclor 1221	ND	0.095		mg/Kg-dry	1	12/23/2016
Aroclor 1232	ND	0.095		mg/Kg-dry	1	12/23/2016
Aroclor 1242	ND	0.095		mg/Kg-dry	1	12/23/2016
Aroclor 1248	ND	0.095		mg/Kg-dry	1	12/23/2016
Aroclor 1254	ND	0.095		mg/Kg-dry	1	12/23/2016
Aroclor 1260	ND	0.095		mg/Kg-dry	1	12/23/2016
Pesticides						
	SW8081 (SW3550B)				Prep Date: 12/22/2016	Analyst: GVC
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	12/23/2016
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	12/23/2016
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	12/23/2016
Aldrin	ND	0.0019		mg/Kg-dry	1	12/23/2016
alpha-BHC	ND	0.0019		mg/Kg-dry	1	12/23/2016
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	12/23/2016
beta-BHC	ND	0.0019		mg/Kg-dry	1	12/23/2016
Chlordane	ND	0.019		mg/Kg-dry	1	12/23/2016
delta-BHC	ND	0.0019		mg/Kg-dry	1	12/23/2016
Dieldrin	ND	0.0019		mg/Kg-dry	1	12/23/2016
Endosulfan I	ND	0.0019		mg/Kg-dry	1	12/23/2016
Endosulfan II	ND	0.0019		mg/Kg-dry	1	12/23/2016
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	12/23/2016
Endrin	ND	0.0019		mg/Kg-dry	1	12/23/2016

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-011

Client Sample ID: RPM-SB-45-2
 Collection Date: 12/20/2016 11:00:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)		Prep Date: 12/22/2016 Analyst: GVC			
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	12/23/2016
Endrin ketone	ND	0.0019		mg/Kg-dry	1	12/23/2016
gamma-BHC	ND	0.0019		mg/Kg-dry	1	12/23/2016
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	12/23/2016
Heptachlor	ND	0.0019		mg/Kg-dry	1	12/23/2016
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	12/23/2016
Methoxychlor	ND	0.0019		mg/Kg-dry	1	12/23/2016
Toxaphene	ND	0.039		mg/Kg-dry	1	12/23/2016
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/28/2016 Analyst: JG			
Aluminum	1100	22		mg/Kg-dry	10	12/31/2016
Antimony	ND	2.2		mg/Kg-dry	10	12/31/2016
Arsenic	2.1	1.1		mg/Kg-dry	10	12/31/2016
Barium	8.4	1.1		mg/Kg-dry	10	12/31/2016
Beryllium	ND	0.54		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.54		mg/Kg-dry	10	12/31/2016
Calcium	38000	65		mg/Kg-dry	10	12/31/2016
Chromium	3.7	1.1		mg/Kg-dry	10	12/31/2016
Cobalt	3.2	1.1		mg/Kg-dry	10	12/31/2016
Copper	3.5	2.7		mg/Kg-dry	10	12/31/2016
Iron	6200	32		mg/Kg-dry	10	12/31/2016
Lead	2.4	0.54		mg/Kg-dry	10	12/31/2016
Magnesium	19000	32		mg/Kg-dry	10	12/31/2016
Manganese	380	1.1		mg/Kg-dry	10	12/31/2016
Nickel	10	1.1		mg/Kg-dry	10	12/31/2016
Potassium	190	32		mg/Kg-dry	10	12/31/2016
Selenium	ND	1.1		mg/Kg-dry	10	12/31/2016
Silver	ND	1.1		mg/Kg-dry	10	12/31/2016
Sodium	110	65		mg/Kg-dry	10	12/31/2016
Thallium	ND	1.1		mg/Kg-dry	10	12/31/2016
Vanadium	6.5	1.1		mg/Kg-dry	10	12/31/2016
Zinc	21	5.4		mg/Kg-dry	10	12/31/2016
Mercury	SW7471A		Prep Date: 12/27/2016 Analyst: LB			
Mercury	ND	0.020		mg/Kg-dry	1	12/27/2016
Cyanide, Total	SW9012A		Prep Date: 12/21/2016 Analyst: MD			
Cyanide	ND	0.30		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/21/2016 Analyst: PBG			

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-011

Client Sample ID: RPM-SB-45-2
 Collection Date: 12/20/2016 11:00:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C					Prep Date: 12/21/2016 Analyst: PBG
pH	8.3			pH Units	1	12/21/2016
Percent Moisture	D2974					Prep Date: 12/21/2016 Analyst: GH
Percent Moisture	16.7	0.2	*	wt%	1	12/22/2016

Qualifiers:
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-012

Client Sample ID: RPM-SB-45-3
 Collection Date: 12/20/2016 11:05:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/20/2016 Analyst: PS		
Acetone	ND	0.085		mg/Kg-dry	1	12/24/2016
Benzene	ND	0.0056		mg/Kg-dry	1	12/24/2016
Bromodichloromethane	ND	0.0056		mg/Kg-dry	1	12/24/2016
Bromoform	ND	0.0056		mg/Kg-dry	1	12/24/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/24/2016
2-Butanone	ND	0.085		mg/Kg-dry	1	12/24/2016
Carbon disulfide	ND	0.056		mg/Kg-dry	1	12/24/2016
Carbon tetrachloride	ND	0.0056		mg/Kg-dry	1	12/24/2016
Chlorobenzene	ND	0.0056		mg/Kg-dry	1	12/24/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/24/2016
Chloroform	ND	0.0056		mg/Kg-dry	1	12/24/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/24/2016
Dibromochloromethane	ND	0.0056		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethane	ND	0.0056		mg/Kg-dry	1	12/24/2016
1,2-Dichloroethane	ND	0.0056		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/24/2016
cis-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/24/2016
trans-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/24/2016
1,2-Dichloropropane	ND	0.0056		mg/Kg-dry	1	12/24/2016
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/24/2016
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/24/2016
Ethylbenzene	ND	0.0056		mg/Kg-dry	1	12/24/2016
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/24/2016
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/24/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/24/2016
Methyl tert-butyl ether	ND	0.0056		mg/Kg-dry	1	12/24/2016
Styrene	ND	0.0056		mg/Kg-dry	1	12/24/2016
1,1,2,2-Tetrachloroethane	ND	0.0056		mg/Kg-dry	1	12/24/2016
Tetrachloroethene	ND	0.0056		mg/Kg-dry	1	12/24/2016
Toluene	ND	0.0056		mg/Kg-dry	1	12/24/2016
1,1,1-Trichloroethane	ND	0.0056		mg/Kg-dry	1	12/24/2016
1,1,2-Trichloroethane	ND	0.0056		mg/Kg-dry	1	12/24/2016
Trichloroethene	ND	0.0056		mg/Kg-dry	1	12/24/2016
Vinyl chloride	ND	0.0056		mg/Kg-dry	1	12/24/2016
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/24/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/23/2016 Analyst: DM		
Acenaphthene	ND	0.041		mg/Kg-dry	1	12/23/2016
Acenaphthylene	ND	0.041		mg/Kg-dry	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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 B - Analyte detected in the associated Method Blank
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
Work Order: 16120640 Revision 0
Project: CTA RPM, Chicago, IL
Lab ID: 16120640-012

Client Sample ID: RPM-SB-45-3
Collection Date: 12/20/2016 11:05:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM	
Anthracene	ND	0.041		mg/Kg-dry	1	12/23/2016
Benz(a)anthracene	ND	0.041		mg/Kg-dry	1	12/23/2016
Benzo(a)pyrene	ND	0.041		mg/Kg-dry	1	12/23/2016
Benzo(b)fluoranthene	ND	0.041		mg/Kg-dry	1	12/23/2016
Benzo(g,h,i)perylene	ND	0.041		mg/Kg-dry	1	12/23/2016
Benzo(k)fluoranthene	ND	0.041		mg/Kg-dry	1	12/23/2016
Chrysene	ND	0.041		mg/Kg-dry	1	12/23/2016
Dibenz(a,h)anthracene	ND	0.041		mg/Kg-dry	1	12/23/2016
Fluoranthene	ND	0.041		mg/Kg-dry	1	12/23/2016
Fluorene	ND	0.041		mg/Kg-dry	1	12/23/2016
Indeno(1,2,3-cd)pyrene	ND	0.041		mg/Kg-dry	1	12/23/2016
Naphthalene	ND	0.041		mg/Kg-dry	1	12/23/2016
Phenanthrene	ND	0.041		mg/Kg-dry	1	12/23/2016
Pyrene	ND	0.041		mg/Kg-dry	1	12/23/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/22/2016		Analyst: GVC	
Aroclor 1016	ND	0.099		mg/Kg-dry	1	12/23/2016
Aroclor 1221	ND	0.099		mg/Kg-dry	1	12/23/2016
Aroclor 1232	ND	0.099		mg/Kg-dry	1	12/23/2016
Aroclor 1242	ND	0.099		mg/Kg-dry	1	12/23/2016
Aroclor 1248	ND	0.099		mg/Kg-dry	1	12/23/2016
Aroclor 1254	ND	0.099		mg/Kg-dry	1	12/23/2016
Aroclor 1260	ND	0.099		mg/Kg-dry	1	12/23/2016
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 12/28/2016		Analyst: JG	
Arsenic	2.2	1.1		mg/Kg-dry	10	12/31/2016
Barium	5.1	1.1		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.56		mg/Kg-dry	10	12/31/2016
Chromium	3.8	1.1		mg/Kg-dry	10	12/31/2016
Lead	4.2	0.56		mg/Kg-dry	10	12/31/2016
Selenium	ND	1.1		mg/Kg-dry	10	12/31/2016
Silver	ND	1.1		mg/Kg-dry	10	12/31/2016
Mercury						
	SW7471A		Prep Date: 12/27/2016		Analyst: LB	
Mercury	ND	0.019		mg/Kg-dry	1	12/27/2016
Percent Moisture						
	D2974		Prep Date: 12/21/2016		Analyst: GH	
Percent Moisture	19.4	0.2	*	wt%	1	12/22/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter
 RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-013

Client Sample ID: RPM-SB-44-1
 Collection Date: 12/20/2016 11:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/20/2016		Analyst: PS
Acetone	ND	0.12		mg/Kg-dry	1	12/26/2016
Benzene	ND	0.0078		mg/Kg-dry	1	12/26/2016
Bromodichloromethane	ND	0.0078		mg/Kg-dry	1	12/26/2016
Bromoform	ND	0.0078		mg/Kg-dry	1	12/26/2016
Bromomethane	ND	0.016		mg/Kg-dry	1	12/26/2016
2-Butanone	ND	0.12		mg/Kg-dry	1	12/26/2016
Carbon disulfide	ND	0.078		mg/Kg-dry	1	12/26/2016
Carbon tetrachloride	ND	0.0078		mg/Kg-dry	1	12/26/2016
Chlorobenzene	ND	0.0078		mg/Kg-dry	1	12/26/2016
Chloroethane	ND	0.016		mg/Kg-dry	1	12/26/2016
Chloroform	ND	0.0078		mg/Kg-dry	1	12/26/2016
Chloromethane	ND	0.016		mg/Kg-dry	1	12/26/2016
Dibromochloromethane	ND	0.0078		mg/Kg-dry	1	12/26/2016
1,1-Dichloroethane	ND	0.0078		mg/Kg-dry	1	12/26/2016
1,2-Dichloroethane	ND	0.0078		mg/Kg-dry	1	12/26/2016
1,1-Dichloroethene	ND	0.0078		mg/Kg-dry	1	12/26/2016
cis-1,2-Dichloroethene	ND	0.0078		mg/Kg-dry	1	12/26/2016
trans-1,2-Dichloroethene	ND	0.0078		mg/Kg-dry	1	12/26/2016
1,2-Dichloropropane	ND	0.0078		mg/Kg-dry	1	12/26/2016
cis-1,3-Dichloropropene	ND	0.0031		mg/Kg-dry	1	12/26/2016
trans-1,3-Dichloropropene	ND	0.0031		mg/Kg-dry	1	12/26/2016
Ethylbenzene	ND	0.0078		mg/Kg-dry	1	12/26/2016
2-Hexanone	ND	0.031		mg/Kg-dry	1	12/26/2016
4-Methyl-2-pentanone	ND	0.031		mg/Kg-dry	1	12/26/2016
Methylene chloride	ND	0.016		mg/Kg-dry	1	12/26/2016
Methyl tert-butyl ether	ND	0.0078		mg/Kg-dry	1	12/26/2016
Styrene	ND	0.0078		mg/Kg-dry	1	12/26/2016
1,1,2,2-Tetrachloroethane	ND	0.0078		mg/Kg-dry	1	12/26/2016
Tetrachloroethene	ND	0.0078		mg/Kg-dry	1	12/26/2016
Toluene	ND	0.0078		mg/Kg-dry	1	12/26/2016
1,1,1-Trichloroethane	ND	0.0078		mg/Kg-dry	1	12/26/2016
1,1,2-Trichloroethane	ND	0.0078		mg/Kg-dry	1	12/26/2016
Trichloroethene	ND	0.0078		mg/Kg-dry	1	12/26/2016
Vinyl chloride	ND	0.0078		mg/Kg-dry	1	12/26/2016
Xylenes, Total	ND	0.023		mg/Kg-dry	1	12/26/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM
Acenaphthene	0.083	0.040		mg/Kg-dry	1	12/23/2016
Acenaphthylene	ND	0.040		mg/Kg-dry	1	12/23/2016

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 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-013

Client Sample ID: RPM-SB-44-1
 Collection Date: 12/20/2016 11:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS SW8270C (SW3550B) Prep Date: 12/23/2016 Analyst: DM						
Anthracene	0.25	0.040		mg/Kg-dry	1	12/23/2016
Benz(a)anthracene	1.3	0.040		mg/Kg-dry	1	12/23/2016
Benzo(a)pyrene	1.3	0.040		mg/Kg-dry	1	12/23/2016
Benzo(b)fluoranthene	1.3	0.040		mg/Kg-dry	1	12/23/2016
Benzo(g,h,i)perylene	0.85	0.040		mg/Kg-dry	1	12/23/2016
Benzo(k)fluoranthene	1.1	0.040		mg/Kg-dry	1	12/23/2016
Chrysene	1.4	0.040		mg/Kg-dry	1	12/23/2016
Dibenz(a,h)anthracene	0.44	0.040		mg/Kg-dry	1	12/23/2016
Fluoranthene	2.4	0.040		mg/Kg-dry	1	12/23/2016
Fluorene	0.061	0.040		mg/Kg-dry	1	12/23/2016
Indeno(1,2,3-cd)pyrene	0.78	0.040		mg/Kg-dry	1	12/23/2016
Naphthalene	ND	0.040		mg/Kg-dry	1	12/23/2016
Phenanthrene	1.1	0.040		mg/Kg-dry	1	12/23/2016
Pyrene	2.1	0.040		mg/Kg-dry	1	12/23/2016
PCBs SW8082 (SW3550B) Prep Date: 12/22/2016 Analyst: GVC						
Aroclor 1016	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1221	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1232	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1242	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1248	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1254	ND	0.096		mg/Kg-dry	1	12/23/2016
Aroclor 1260	ND	0.096		mg/Kg-dry	1	12/23/2016
Pesticides SW8081 (SW3550B) Prep Date: 12/22/2016 Analyst: GVC						
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	12/23/2016
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	12/23/2016
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	12/23/2016
Aldrin	ND	0.0019		mg/Kg-dry	1	12/23/2016
alpha-BHC	ND	0.0019		mg/Kg-dry	1	12/23/2016
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	12/23/2016
beta-BHC	ND	0.0019		mg/Kg-dry	1	12/23/2016
Chlordane	ND	0.019		mg/Kg-dry	1	12/23/2016
delta-BHC	ND	0.0019		mg/Kg-dry	1	12/23/2016
Dieldrin	ND	0.0019		mg/Kg-dry	1	12/23/2016
Endosulfan I	ND	0.0019		mg/Kg-dry	1	12/23/2016
Endosulfan II	ND	0.0019		mg/Kg-dry	1	12/23/2016
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	12/23/2016
Endrin	ND	0.0019		mg/Kg-dry	1	12/23/2016

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-013

Client Sample ID: RPM-SB-44-1
 Collection Date: 12/20/2016 11:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)		Prep Date: 12/22/2016 Analyst: GVC			
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	12/23/2016
Endrin ketone	ND	0.0019		mg/Kg-dry	1	12/23/2016
gamma-BHC	ND	0.0019		mg/Kg-dry	1	12/23/2016
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	12/23/2016
Heptachlor	ND	0.0019		mg/Kg-dry	1	12/23/2016
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	12/23/2016
Methoxychlor	ND	0.0019		mg/Kg-dry	1	12/23/2016
Toxaphene	ND	0.040		mg/Kg-dry	1	12/23/2016
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/28/2016 Analyst: JG			
Aluminum	5700	22		mg/Kg-dry	10	12/31/2016
Antimony	ND	2.2		mg/Kg-dry	10	12/31/2016
Arsenic	28	1.1		mg/Kg-dry	10	12/31/2016
Barium	210	1.1		mg/Kg-dry	10	12/31/2016
Beryllium	1.4	0.54		mg/Kg-dry	10	12/31/2016
Cadmium	1.5	0.54		mg/Kg-dry	10	12/31/2016
Calcium	16000	65		mg/Kg-dry	10	12/31/2016
Chromium	13	1.1		mg/Kg-dry	10	12/31/2016
Cobalt	7.7	1.1		mg/Kg-dry	10	12/31/2016
Copper	160	2.7		mg/Kg-dry	10	12/31/2016
Iron	25000	33		mg/Kg-dry	10	12/31/2016
Lead	470	0.54		mg/Kg-dry	10	12/31/2016
Magnesium	5200	33		mg/Kg-dry	10	12/31/2016
Manganese	220	1.1		mg/Kg-dry	10	12/31/2016
Nickel	35	1.1		mg/Kg-dry	10	12/31/2016
Potassium	700	33		mg/Kg-dry	10	12/31/2016
Selenium	2.0	1.1		mg/Kg-dry	10	12/31/2016
Silver	ND	1.1		mg/Kg-dry	10	12/31/2016
Sodium	490	65		mg/Kg-dry	10	12/31/2016
Thallium	ND	1.1		mg/Kg-dry	10	12/31/2016
Vanadium	25	1.1		mg/Kg-dry	10	12/31/2016
Zinc	620	5.4		mg/Kg-dry	10	12/31/2016
Mercury	SW7471A		Prep Date: 12/27/2016 Analyst: LB			
Mercury	0.53	0.021		mg/Kg-dry	1	12/27/2016
Cyanide, Total	SW9012A		Prep Date: 12/21/2016 Analyst: MD			
Cyanide	0.51	0.30		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/21/2016 Analyst: PBG			

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ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-013

Client Sample ID: RPM-SB-44-1
 Collection Date: 12/20/2016 11:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C					Prep Date: 12/21/2016 Analyst: PBG
pH	8.7			pH Units	1	12/21/2016
Percent Moisture	D2974					Prep Date: 12/21/2016 Analyst: GH
Percent Moisture	17.9	0.2	*	wt%	1	12/22/2016

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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-014

Client Sample ID: RPM-SB-44-2
 Collection Date: 12/20/2016 11:25:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/20/2016 Analyst: PS		
Acetone	ND	0.085		mg/Kg-dry	1	12/24/2016
Benzene	ND	0.0057		mg/Kg-dry	1	12/24/2016
Bromodichloromethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
Bromoform	ND	0.0057		mg/Kg-dry	1	12/24/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/24/2016
2-Butanone	ND	0.085		mg/Kg-dry	1	12/24/2016
Carbon disulfide	ND	0.057		mg/Kg-dry	1	12/24/2016
Carbon tetrachloride	ND	0.0057		mg/Kg-dry	1	12/24/2016
Chlorobenzene	ND	0.0057		mg/Kg-dry	1	12/24/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/24/2016
Chloroform	ND	0.0057		mg/Kg-dry	1	12/24/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/24/2016
Dibromochloromethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,2-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
cis-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
trans-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,2-Dichloropropane	ND	0.0057		mg/Kg-dry	1	12/24/2016
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/24/2016
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/24/2016
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	12/24/2016
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/24/2016
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/24/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/24/2016
Methyl tert-butyl ether	ND	0.0057		mg/Kg-dry	1	12/24/2016
Styrene	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1,2,2-Tetrachloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
Tetrachloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
Toluene	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1,1-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
1,1,2-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/24/2016
Trichloroethene	ND	0.0057		mg/Kg-dry	1	12/24/2016
Vinyl chloride	ND	0.0057		mg/Kg-dry	1	12/24/2016
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/24/2016
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/23/2016 Analyst: DM		
Acenaphthene	ND	0.035		mg/Kg-dry	1	12/23/2016
Acenaphthylene	ND	0.035		mg/Kg-dry	1	12/23/2016

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Date Reported: January 04, 2017

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ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-014

Client Sample ID: RPM-SB-44-2
 Collection Date: 12/20/2016 11:25:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM
Aniline	ND	0.35		mg/Kg-dry	1	12/23/2016
Anthracene	ND	0.035		mg/Kg-dry	1	12/23/2016
Benz(a)anthracene	ND	0.035		mg/Kg-dry	1	12/23/2016
Benzidine	ND	0.35		mg/Kg-dry	1	12/23/2016
Benzo(a)pyrene	ND	0.035		mg/Kg-dry	1	12/23/2016
Benzo(b)fluoranthene	ND	0.035		mg/Kg-dry	1	12/23/2016
Benzo(g,h,i)perylene	ND	0.035		mg/Kg-dry	1	12/23/2016
Benzo(k)fluoranthene	ND	0.035		mg/Kg-dry	1	12/23/2016
Benzoic acid	ND	0.87		mg/Kg-dry	1	12/23/2016
Benzyl alcohol	ND	0.18		mg/Kg-dry	1	12/23/2016
Bis(2-chloroethoxy)methane	ND	0.18		mg/Kg-dry	1	12/23/2016
Bis(2-chloroethyl)ether	ND	0.18		mg/Kg-dry	1	12/23/2016
Bis(2-ethylhexyl)phthalate	ND	0.87		mg/Kg-dry	1	12/23/2016
4-Bromophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	12/23/2016
Butyl benzyl phthalate	ND	0.18		mg/Kg-dry	1	12/23/2016
Carbazole	ND	0.18		mg/Kg-dry	1	12/23/2016
4-Chloroaniline	ND	0.18		mg/Kg-dry	1	12/23/2016
4-Chloro-3-methylphenol	ND	0.35		mg/Kg-dry	1	12/23/2016
2-Chloronaphthalene	ND	0.18		mg/Kg-dry	1	12/23/2016
2-Chlorophenol	ND	0.18		mg/Kg-dry	1	12/23/2016
4-Chlorophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	12/23/2016
Chrysene	ND	0.035		mg/Kg-dry	1	12/23/2016
Dibenz(a,h)anthracene	ND	0.035		mg/Kg-dry	1	12/23/2016
Dibenzofuran	ND	0.18		mg/Kg-dry	1	12/23/2016
1,2-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	12/23/2016
1,3-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	12/23/2016
1,4-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	12/23/2016
3,3'-Dichlorobenzidine	ND	0.18		mg/Kg-dry	1	12/23/2016
2,4-Dichlorophenol	ND	0.18		mg/Kg-dry	1	12/23/2016
Diethyl phthalate	ND	0.18		mg/Kg-dry	1	12/23/2016
2,4-Dimethylphenol	ND	0.18		mg/Kg-dry	1	12/23/2016
Dimethyl phthalate	ND	0.18		mg/Kg-dry	1	12/23/2016
4,6-Dinitro-2-methylphenol	ND	0.35		mg/Kg-dry	1	12/23/2016
2,4-Dinitrophenol	ND	0.87		mg/Kg-dry	1	12/23/2016
2,4-Dinitrotoluene	ND	0.035		mg/Kg-dry	1	12/23/2016
2,6-Dinitrotoluene	ND	0.035		mg/Kg-dry	1	12/23/2016
Di-n-butyl phthalate	ND	0.18		mg/Kg-dry	1	12/23/2016
Di-n-octyl phthalate	ND	0.18		mg/Kg-dry	1	12/23/2016

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ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
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 Lab ID: 16120640-014

Client Sample ID: RPM-SB-44-2
 Collection Date: 12/20/2016 11:25:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM	
Fluoranthene	ND	0.035		mg/Kg-dry	1	12/23/2016
Fluorene	ND	0.035		mg/Kg-dry	1	12/23/2016
Hexachlorobenzene	ND	0.18		mg/Kg-dry	1	12/23/2016
Hexachlorobutadiene	ND	0.18		mg/Kg-dry	1	12/23/2016
Hexachlorocyclopentadiene	ND	0.18		mg/Kg-dry	1	12/23/2016
Hexachloroethane	ND	0.18		mg/Kg-dry	1	12/23/2016
Indeno(1,2,3-cd)pyrene	ND	0.035		mg/Kg-dry	1	12/23/2016
Isophorone	ND	0.18		mg/Kg-dry	1	12/23/2016
2-Methylnaphthalene	ND	0.18		mg/Kg-dry	1	12/23/2016
2-Methylphenol	ND	0.18		mg/Kg-dry	1	12/23/2016
4-Methylphenol	ND	0.18		mg/Kg-dry	1	12/23/2016
Naphthalene	ND	0.035		mg/Kg-dry	1	12/23/2016
2-Nitroaniline	ND	0.18		mg/Kg-dry	1	12/23/2016
3-Nitroaniline	ND	0.18		mg/Kg-dry	1	12/23/2016
4-Nitroaniline	ND	0.18		mg/Kg-dry	1	12/23/2016
2-Nitrophenol	ND	0.18		mg/Kg-dry	1	12/23/2016
4-Nitrophenol	ND	0.35		mg/Kg-dry	1	12/23/2016
Nitrobenzene	ND	0.035		mg/Kg-dry	1	12/23/2016
N-Nitrosodi-n-propylamine	ND	0.035		mg/Kg-dry	1	12/23/2016
N-Nitrosodimethylamine	ND	0.18		mg/Kg-dry	1	12/23/2016
N-Nitrosodiphenylamine	ND	0.035		mg/Kg-dry	1	12/23/2016
2, 2'-oxybis(1-Chloropropane)	ND	0.18		mg/Kg-dry	1	12/23/2016
Pentachlorophenol	ND	0.035		mg/Kg-dry	1	12/23/2016
Phenanthrene	ND	0.035		mg/Kg-dry	1	12/23/2016
Phenol	ND	0.18		mg/Kg-dry	1	12/23/2016
Pyrene	ND	0.035		mg/Kg-dry	1	12/23/2016
Pyridine	ND	0.70		mg/Kg-dry	1	12/23/2016
1,2,4-Trichlorobenzene	ND	0.18		mg/Kg-dry	1	12/23/2016
2,4,5-Trichlorophenol	ND	0.18		mg/Kg-dry	1	12/23/2016
2,4,6-Trichlorophenol	ND	0.18		mg/Kg-dry	1	12/23/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/22/2016		Analyst: GVC	
Aroclor 1016	ND	0.084		mg/Kg-dry	1	12/23/2016
Aroclor 1221	ND	0.084		mg/Kg-dry	1	12/23/2016
Aroclor 1232	ND	0.084		mg/Kg-dry	1	12/23/2016
Aroclor 1242	ND	0.084		mg/Kg-dry	1	12/23/2016
Aroclor 1248	ND	0.084		mg/Kg-dry	1	12/23/2016
Aroclor 1254	ND	0.084		mg/Kg-dry	1	12/23/2016
Aroclor 1260	ND	0.084		mg/Kg-dry	1	12/23/2016

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-014

Client Sample ID: RPM-SB-44-2
 Collection Date: 12/20/2016 11:25:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)		Prep Date: 12/22/2016 Analyst: GVC			
4,4'-DDD	ND	0.0017		mg/Kg-dry	1	12/23/2016
4,4'-DDE	ND	0.0017		mg/Kg-dry	1	12/23/2016
4,4'-DDT	ND	0.0017		mg/Kg-dry	1	12/23/2016
Aldrin	ND	0.0017		mg/Kg-dry	1	12/23/2016
alpha-BHC	ND	0.0017		mg/Kg-dry	1	12/23/2016
alpha-Chlordane	ND	0.0017		mg/Kg-dry	1	12/23/2016
beta-BHC	ND	0.0017		mg/Kg-dry	1	12/23/2016
Chlordane	ND	0.017		mg/Kg-dry	1	12/23/2016
delta-BHC	ND	0.0017		mg/Kg-dry	1	12/23/2016
Dieldrin	ND	0.0017		mg/Kg-dry	1	12/23/2016
Endosulfan I	ND	0.0017		mg/Kg-dry	1	12/23/2016
Endosulfan II	ND	0.0017		mg/Kg-dry	1	12/23/2016
Endosulfan sulfate	ND	0.0017		mg/Kg-dry	1	12/23/2016
Endrin	ND	0.0017		mg/Kg-dry	1	12/23/2016
Endrin aldehyde	ND	0.0017		mg/Kg-dry	1	12/23/2016
Endrin ketone	ND	0.0017		mg/Kg-dry	1	12/23/2016
gamma-BHC	ND	0.0017		mg/Kg-dry	1	12/23/2016
gamma-Chlordane	ND	0.0017		mg/Kg-dry	1	12/23/2016
Heptachlor	ND	0.0017		mg/Kg-dry	1	12/23/2016
Heptachlor epoxide	ND	0.0017		mg/Kg-dry	1	12/23/2016
Methoxychlor	ND	0.0017		mg/Kg-dry	1	12/23/2016
Toxaphene	ND	0.034		mg/Kg-dry	1	12/23/2016
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/28/2016 Analyst: JG			
Aluminum	1100	18		mg/Kg-dry	10	12/31/2016
Antimony	ND	1.8		mg/Kg-dry	10	12/31/2016
Arsenic	ND	0.91		mg/Kg-dry	10	12/31/2016
Barium	2.8	0.91		mg/Kg-dry	10	12/31/2016
Beryllium	ND	0.46		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.46		mg/Kg-dry	10	12/31/2016
Calcium	34000	55		mg/Kg-dry	10	12/31/2016
Chromium	3.9	0.91		mg/Kg-dry	10	12/31/2016
Cobalt	1.4	0.91		mg/Kg-dry	10	12/31/2016
Copper	ND	2.3		mg/Kg-dry	10	12/31/2016
Iron	3300	27		mg/Kg-dry	10	12/31/2016
Lead	2.6	0.46		mg/Kg-dry	10	12/31/2016
Magnesium	20000	27		mg/Kg-dry	10	12/31/2016
Manganese	160	0.91		mg/Kg-dry	10	12/31/2016
Nickel	3.4	0.91		mg/Kg-dry	10	12/31/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-014

Client Sample ID: RPM-SB-44-2
 Collection Date: 12/20/2016 11:25:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/28/2016 Analyst: JG			
Potassium	180	27		mg/Kg-dry	10	12/31/2016
Selenium	ND	0.91		mg/Kg-dry	10	12/31/2016
Silver	ND	0.91		mg/Kg-dry	10	12/31/2016
Sodium	91	55		mg/Kg-dry	10	12/31/2016
Thallium	ND	0.91		mg/Kg-dry	10	12/31/2016
Vanadium	8.6	0.91		mg/Kg-dry	10	12/31/2016
Zinc	20	4.6		mg/Kg-dry	10	12/31/2016
Mercury	SW7471A		Prep Date: 12/27/2016 Analyst: LB			
Mercury	ND	0.018		mg/Kg-dry	1	12/27/2016
Cyanide, Total	SW9012A		Prep Date: 12/21/2016 Analyst: MD			
Cyanide	ND	0.26		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/21/2016 Analyst: PBG			
pH	8.8			pH Units	1	12/21/2016
Percent Moisture	D2974		Prep Date: 12/21/2016 Analyst: GH			
Percent Moisture	5.3	0.2	*	wt%	1	12/22/2016

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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-015

Client Sample ID: RPM-SB-44-3
 Collection Date: 12/20/2016 11:30:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/20/2016 Analyst: PS		
Acetone	ND	0.087		mg/Kg-dry	1	12/24/2016
Benzene	ND	0.0058		mg/Kg-dry	1	12/24/2016
Bromodichloromethane	ND	0.0058		mg/Kg-dry	1	12/24/2016
Bromoform	ND	0.0058		mg/Kg-dry	1	12/24/2016
Bromomethane	ND	0.012		mg/Kg-dry	1	12/24/2016
2-Butanone	ND	0.087		mg/Kg-dry	1	12/24/2016
Carbon disulfide	ND	0.058		mg/Kg-dry	1	12/24/2016
Carbon tetrachloride	ND	0.0058		mg/Kg-dry	1	12/24/2016
Chlorobenzene	ND	0.0058		mg/Kg-dry	1	12/24/2016
Chloroethane	ND	0.012		mg/Kg-dry	1	12/24/2016
Chloroform	ND	0.0058		mg/Kg-dry	1	12/24/2016
Chloromethane	ND	0.012		mg/Kg-dry	1	12/24/2016
Dibromochloromethane	ND	0.0058		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethane	ND	0.0058		mg/Kg-dry	1	12/24/2016
1,2-Dichloroethane	ND	0.0058		mg/Kg-dry	1	12/24/2016
1,1-Dichloroethene	ND	0.0058		mg/Kg-dry	1	12/24/2016
cis-1,2-Dichloroethene	ND	0.0058		mg/Kg-dry	1	12/24/2016
trans-1,2-Dichloroethene	ND	0.0058		mg/Kg-dry	1	12/24/2016
1,2-Dichloropropane	ND	0.0058		mg/Kg-dry	1	12/24/2016
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/24/2016
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/24/2016
Ethylbenzene	ND	0.0058		mg/Kg-dry	1	12/24/2016
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/24/2016
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/24/2016
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/24/2016
Methyl tert-butyl ether	ND	0.0058		mg/Kg-dry	1	12/24/2016
Styrene	ND	0.0058		mg/Kg-dry	1	12/24/2016
1,1,2,2-Tetrachloroethane	ND	0.0058		mg/Kg-dry	1	12/24/2016
Tetrachloroethene	ND	0.0058		mg/Kg-dry	1	12/24/2016
Toluene	ND	0.0058		mg/Kg-dry	1	12/24/2016
1,1,1-Trichloroethane	ND	0.0058		mg/Kg-dry	1	12/24/2016
1,1,2-Trichloroethane	ND	0.0058		mg/Kg-dry	1	12/24/2016
Trichloroethene	ND	0.0058		mg/Kg-dry	1	12/24/2016
Vinyl chloride	ND	0.0058		mg/Kg-dry	1	12/24/2016
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/24/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/23/2016 Analyst: DM		
Acenaphthene	ND	0.038		mg/Kg-dry	1	12/23/2016
Acenaphthylene	ND	0.038		mg/Kg-dry	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Date Reported: January 04, 2017

Date Printed: January 04, 2017

ANALYTICAL RESULTS

Client: GSG Consultants, Inc.
 Work Order: 16120640 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120640-015

Client Sample ID: RPM-SB-44-3
 Collection Date: 12/20/2016 11:30:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)				Prep Date: 12/23/2016	Analyst: DM
Anthracene	ND	0.038		mg/Kg-dry	1	12/23/2016
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	12/23/2016
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	12/23/2016
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	12/23/2016
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	12/23/2016
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	12/23/2016
Chrysene	ND	0.038		mg/Kg-dry	1	12/23/2016
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	12/23/2016
Fluoranthene	ND	0.038		mg/Kg-dry	1	12/23/2016
Fluorene	ND	0.038		mg/Kg-dry	1	12/23/2016
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	12/23/2016
Naphthalene	ND	0.038		mg/Kg-dry	1	12/23/2016
Phenanthrene	ND	0.038		mg/Kg-dry	1	12/23/2016
Pyrene	ND	0.038		mg/Kg-dry	1	12/23/2016
PCBs	SW8082 (SW3550B)				Prep Date: 12/22/2016	Analyst: GVC
Aroclor 1016	ND	0.095		mg/Kg-dry	1	12/23/2016
Aroclor 1221	ND	0.095		mg/Kg-dry	1	12/23/2016
Aroclor 1232	ND	0.095		mg/Kg-dry	1	12/23/2016
Aroclor 1242	ND	0.095		mg/Kg-dry	1	12/23/2016
Aroclor 1248	ND	0.095		mg/Kg-dry	1	12/23/2016
Aroclor 1254	ND	0.095		mg/Kg-dry	1	12/23/2016
Aroclor 1260	ND	0.095		mg/Kg-dry	1	12/23/2016
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 12/28/2016	Analyst: JG
Arsenic	ND	1.0		mg/Kg-dry	10	12/31/2016
Barium	3.8	1.0		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.50		mg/Kg-dry	10	12/31/2016
Chromium	3.2	1.0		mg/Kg-dry	10	12/31/2016
Lead	2.9	0.50		mg/Kg-dry	10	12/31/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/31/2016
Silver	ND	1.0		mg/Kg-dry	10	12/31/2016
Mercury	SW7471A				Prep Date: 12/27/2016	Analyst: LB
Mercury	ND	0.020		mg/Kg-dry	1	12/27/2016
Percent Moisture	D2974				Prep Date: 12/21/2016	Analyst: GH
Percent Moisture	15.5	0.2	*	wt%	1	12/22/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Sample Receipt Checklist

Client Name GSG Date and Time Received: 12/20/2016 4:15:00 PM

Work Order Number 16120640 Received by: JDR

Checklist completed by: [Signature] Date: 12/20/16 Reviewed by: FC Initials: FC Date: 12/21/16

Matrix: _____ Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature 4.1 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Chain of custody signed when relinquished and received? _____
 Chain of custody agrees with sample labels/containers? _____
 Comments: _____
 Samples in proper container/bottle? _____
 Sample containers intact? _____
 Sufficient sample volume for indicated test? _____
 All samples received within holding time? _____
 Container or Temp Blank temperature in compliance? _____

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

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January 11, 2017

GSG Consultants, Inc.
855 W. Adams
Chicago, IL 60607

Telephone: (312) 733-6262
Fax: (312) 733-5612

Analytical Report for STAT Work Order: 16120690 Revision 1

RE: CTA RPM, Chicago, IL

Dear Scott Letzel:

STAT Analysis received 15 samples for the referenced project on 12/21/2016 4:00:00 PM. The analytical results are presented in the following report.


This report is revised to reflect additional analysis requested after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Frank Capoccia

Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: GSG Consultants, Inc.
Project: CTA RPM, Chicago, IL
Work Order: 16120690 Revision 1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
16120690-001A	RPM-SB-43-1		12/21/2016 9:10:00 AM	12/21/2016
16120690-001B	RPM-SB-43-1		12/21/2016 9:10:00 AM	12/21/2016
16120690-002A	RPM-SB-43-2		12/21/2016 9:20:00 AM	12/21/2016
16120690-002B	RPM-SB-43-2		12/21/2016 9:20:00 AM	12/21/2016
16120690-003A	RPM-SB-43-3		12/21/2016 9:30:00 AM	12/21/2016
16120690-003B	RPM-SB-43-3		12/21/2016 9:30:00 AM	12/21/2016
16120690-004A	RPM-SB-42-1		12/21/2016 9:35:00 AM	12/21/2016
16120690-004B	RPM-SB-42-1		12/21/2016 9:35:00 AM	12/21/2016
16120690-005A	RPM-SB-42-2		12/21/2016 9:45:00 AM	12/21/2016
16120690-005B	RPM-SB-42-2		12/21/2016 9:45:00 AM	12/21/2016
16120690-006A	RPM-SB-42-3		12/21/2016 9:50:00 AM	12/21/2016
16120690-006B	RPM-SB-42-3		12/21/2016 9:50:00 AM	12/21/2016
16120690-007A	RPM-SB-41-1		12/21/2016 9:55:00 AM	12/21/2016
16120690-007B	RPM-SB-41-1		12/21/2016 9:55:00 AM	12/21/2016
16120690-008A	RPM-SB-41-2		12/21/2016 10:05:00 AM	12/21/2016
16120690-008B	RPM-SB-41-2		12/21/2016 10:05:00 AM	12/21/2016
16120690-009A	RPM-SB-41-3		12/21/2016 10:15:00 AM	12/21/2016
16120690-009B	RPM-SB-41-3		12/21/2016 10:15:00 AM	12/21/2016
16120690-010A	RPM-SB-40-1		12/21/2016 10:20:00 AM	12/21/2016
16120690-010B	RPM-SB-40-1		12/21/2016 10:20:00 AM	12/21/2016
16120690-011A	RPM-SB-40-2		12/21/2016 10:30:00 AM	12/21/2016
16120690-011B	RPM-SB-40-2		12/21/2016 10:30:00 AM	12/21/2016
16120690-012A	RPM-SB-40-3		12/21/2016 10:40:00 AM	12/21/2016
16120690-012B	RPM-SB-40-3		12/21/2016 10:40:00 AM	12/21/2016
16120690-013A	RPM-SB-39-1		12/21/2016 10:45:00 AM	12/21/2016
16120690-013B	RPM-SB-39-1		12/21/2016 10:45:00 AM	12/21/2016
16120690-014A	RPM-SB-39-2		12/21/2016 10:55:00 AM	12/21/2016
16120690-014B	RPM-SB-39-2		12/21/2016 10:55:00 AM	12/21/2016
16120690-015A	RPM-SB-39-3		12/21/2016 11:05:00 AM	12/21/2016
16120690-015B	RPM-SB-39-3		12/21/2016 11:05:00 AM	12/21/2016

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-001

Client Sample ID: RPM-SB-43-1
Collection Date: 12/21/2016 9:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/21/2016		Analyst: PS
Acetone	ND	0.10		mg/Kg-dry	1	12/23/2016
Benzene	ND	0.0069		mg/Kg-dry	1	12/23/2016
Bromodichloromethane	ND	0.0069		mg/Kg-dry	1	12/23/2016
Bromoform	ND	0.0069		mg/Kg-dry	1	12/23/2016
Bromomethane	ND	0.014		mg/Kg-dry	1	12/23/2016
2-Butanone	ND	0.10		mg/Kg-dry	1	12/23/2016
Carbon disulfide	ND	0.069		mg/Kg-dry	1	12/23/2016
Carbon tetrachloride	ND	0.0069		mg/Kg-dry	1	12/23/2016
Chlorobenzene	ND	0.0069		mg/Kg-dry	1	12/23/2016
Chloroethane	ND	0.014		mg/Kg-dry	1	12/23/2016
Chloroform	ND	0.0069		mg/Kg-dry	1	12/23/2016
Chloromethane	ND	0.014		mg/Kg-dry	1	12/23/2016
Dibromochloromethane	ND	0.0069		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethane	ND	0.0069		mg/Kg-dry	1	12/23/2016
1,2-Dichloroethane	ND	0.0069		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethene	ND	0.0069		mg/Kg-dry	1	12/23/2016
cis-1,2-Dichloroethene	ND	0.0069		mg/Kg-dry	1	12/23/2016
trans-1,2-Dichloroethene	ND	0.0069		mg/Kg-dry	1	12/23/2016
1,2-Dichloropropane	ND	0.0069		mg/Kg-dry	1	12/23/2016
cis-1,3-Dichloropropene	ND	0.0028		mg/Kg-dry	1	12/23/2016
trans-1,3-Dichloropropene	ND	0.0028		mg/Kg-dry	1	12/23/2016
Ethylbenzene	ND	0.0069		mg/Kg-dry	1	12/23/2016
2-Hexanone	ND	0.028		mg/Kg-dry	1	12/23/2016
4-Methyl-2-pentanone	ND	0.028		mg/Kg-dry	1	12/23/2016
Methylene chloride	ND	0.014		mg/Kg-dry	1	12/23/2016
Methyl tert-butyl ether	ND	0.0069		mg/Kg-dry	1	12/23/2016
Styrene	ND	0.0069		mg/Kg-dry	1	12/23/2016
1,1,2,2-Tetrachloroethane	ND	0.0069		mg/Kg-dry	1	12/23/2016
Tetrachloroethene	ND	0.0069		mg/Kg-dry	1	12/23/2016
Toluene	ND	0.0069		mg/Kg-dry	1	12/23/2016
1,1,1-Trichloroethane	0.0082	0.0069		mg/Kg-dry	1	12/23/2016
1,1,2-Trichloroethane	ND	0.0069		mg/Kg-dry	1	12/23/2016
Trichloroethene	ND	0.0069		mg/Kg-dry	1	12/23/2016
Vinyl chloride	ND	0.0069		mg/Kg-dry	1	12/23/2016
Xylenes, Total	ND	0.021		mg/Kg-dry	1	12/23/2016
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Acenaphthene	0.12	0.037		mg/Kg-dry	1	12/27/2016
Acenaphthylene	0.29	0.037		mg/Kg-dry	1	12/27/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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 HT - Sample received past holding time
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-001

Client Sample ID: RPM-SB-43-1
Collection Date: 12/21/2016 9:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Aniline	ND	0.37		mg/Kg-dry	1	12/27/2016
Anthracene	0.88	0.037		mg/Kg-dry	1	12/27/2016
Benz(a)anthracene	4.1	0.037		mg/Kg-dry	1	12/27/2016
Benzidine	ND	0.37		mg/Kg-dry	1	12/27/2016
Benzo(a)pyrene	4.0	0.037		mg/Kg-dry	1	12/27/2016
Benzo(b)fluoranthene	3.4	0.037		mg/Kg-dry	1	12/27/2016
Benzo(g,h,i)perylene	2.4	0.037		mg/Kg-dry	1	12/27/2016
Benzo(k)fluoranthene	3.5	0.037		mg/Kg-dry	1	12/27/2016
Benzoic acid	ND	0.93		mg/Kg-dry	1	12/27/2016
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	12/27/2016
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	12/27/2016
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	12/27/2016
Bis(2-ethylhexyl)phthalate	ND	0.93		mg/Kg-dry	1	12/27/2016
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	12/27/2016
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	12/27/2016
Carbazole	ND	0.19		mg/Kg-dry	1	12/27/2016
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	12/27/2016
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	12/27/2016
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	12/27/2016
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	12/27/2016
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	12/27/2016
Chrysene	4.4	0.037		mg/Kg-dry	1	12/27/2016
Dibenz(a,h)anthracene	0.78	0.037		mg/Kg-dry	1	12/27/2016
Dibenzofuran	ND	0.19		mg/Kg-dry	1	12/27/2016
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	12/27/2016
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	12/27/2016
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	12/27/2016
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	12/27/2016
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	12/27/2016
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	12/27/2016
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	12/27/2016
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	12/27/2016
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	12/27/2016
2,4-Dinitrophenol	ND	0.93		mg/Kg-dry	1	12/27/2016
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	12/27/2016
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	12/27/2016
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	12/27/2016
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	12/27/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-001

Client Sample ID: RPM-SB-43-1
Collection Date: 12/21/2016 9:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Fluoranthene	7.6	0.19		mg/Kg-dry	5	12/28/2016
Fluorene	0.15	0.037		mg/Kg-dry	1	12/27/2016
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	12/27/2016
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	12/27/2016
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	12/27/2016
Hexachloroethane	ND	0.19		mg/Kg-dry	1	12/27/2016
Indeno(1,2,3-cd)pyrene	2.2	0.037		mg/Kg-dry	1	12/27/2016
Isophorone	ND	0.19		mg/Kg-dry	1	12/27/2016
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	12/27/2016
2-Methylphenol	ND	0.19		mg/Kg-dry	1	12/27/2016
4-Methylphenol	ND	0.19		mg/Kg-dry	1	12/27/2016
Naphthalene	0.060	0.037		mg/Kg-dry	1	12/27/2016
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	12/27/2016
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	12/27/2016
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	12/27/2016
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	12/27/2016
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	12/27/2016
Nitrobenzene	ND	0.037		mg/Kg-dry	1	12/27/2016
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	12/27/2016
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	12/27/2016
N-Nitrosodiphenylamine	ND	0.037		mg/Kg-dry	1	12/27/2016
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	12/27/2016
Pentachlorophenol	ND	0.037		mg/Kg-dry	1	12/27/2016
Phenanthrene	3.0	0.037		mg/Kg-dry	1	12/27/2016
Phenol	ND	0.19		mg/Kg-dry	1	12/27/2016
Pyrene	7.1	0.19		mg/Kg-dry	5	12/28/2016
Pyridine	ND	0.75		mg/Kg-dry	1	12/27/2016
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	12/27/2016
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	12/27/2016
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	12/27/2016
PCBs		SW8082 (SW3550B)		Prep Date: 12/27/2016		Analyst: GVC
Aroclor 1016	ND	0.091		mg/Kg-dry	1	12/27/2016
Aroclor 1221	ND	0.091		mg/Kg-dry	1	12/27/2016
Aroclor 1232	ND	0.091		mg/Kg-dry	1	12/27/2016
Aroclor 1242	ND	0.091		mg/Kg-dry	1	12/27/2016
Aroclor 1248	ND	0.091		mg/Kg-dry	1	12/27/2016
Aroclor 1254	ND	0.091		mg/Kg-dry	1	12/27/2016
Aroclor 1260	ND	0.091		mg/Kg-dry	1	12/27/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-001

Client Sample ID: RPM-SB-43-1
Collection Date: 12/21/2016 9:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides						
	SW8081 (SW3550B)			Prep Date: 12/27/2016		Analyst: GVC
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	12/27/2016
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	12/27/2016
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	12/27/2016
Aldrin	ND	0.0018		mg/Kg-dry	1	12/27/2016
alpha-BHC	ND	0.0018		mg/Kg-dry	1	12/27/2016
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	12/27/2016
beta-BHC	ND	0.0018		mg/Kg-dry	1	12/27/2016
Chlordane	ND	0.018		mg/Kg-dry	1	12/27/2016
delta-BHC	ND	0.0018		mg/Kg-dry	1	12/27/2016
Dieldrin	ND	0.0018		mg/Kg-dry	1	12/27/2016
Endosulfan I	ND	0.0018		mg/Kg-dry	1	12/27/2016
Endosulfan II	ND	0.0018		mg/Kg-dry	1	12/27/2016
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	12/27/2016
Endrin	ND	0.0018		mg/Kg-dry	1	12/27/2016
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	12/27/2016
Endrin ketone	ND	0.0018		mg/Kg-dry	1	12/27/2016
gamma-BHC	ND	0.0018		mg/Kg-dry	1	12/27/2016
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	12/27/2016
Heptachlor	ND	0.0018		mg/Kg-dry	1	12/27/2016
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	12/27/2016
Methoxychlor	ND	0.0018		mg/Kg-dry	1	12/27/2016
Toxaphene	ND	0.037		mg/Kg-dry	1	12/27/2016
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 12/27/2016		Analyst: JG
Aluminum	4300	190		mg/Kg-dry	100	12/27/2016
Antimony	ND	3.9		mg/Kg-dry	10	12/28/2016
Arsenic	21	0.96		mg/Kg-dry	10	12/28/2016
Barium	1100	0.96		mg/Kg-dry	10	12/28/2016
Beryllium	1.1	0.48		mg/Kg-dry	10	12/28/2016
Cadmium	1.5	0.48		mg/Kg-dry	10	12/28/2016
Calcium	23000	58		mg/Kg-dry	10	12/28/2016
Chromium	14	0.96		mg/Kg-dry	10	12/28/2016
Cobalt	6.2	0.96		mg/Kg-dry	10	12/28/2016
Copper	160	2.4		mg/Kg-dry	10	12/28/2016
Iron	8500	290		mg/Kg-dry	100	12/27/2016
Lead	360	0.48		mg/Kg-dry	10	12/28/2016
Magnesium	8600	29		mg/Kg-dry	10	12/28/2016
Manganese	180	0.96		mg/Kg-dry	10	12/28/2016
Nickel	14	0.96		mg/Kg-dry	10	12/28/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-001

Client Sample ID: RPM-SB-43-1
Collection Date: 12/21/2016 9:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Potassium	620	29		mg/Kg-dry	10	12/28/2016
Selenium	1.2	0.96		mg/Kg-dry	10	12/28/2016
Silver	ND	0.96		mg/Kg-dry	10	12/28/2016
Sodium	400	58		mg/Kg-dry	10	12/28/2016
Thallium	ND	0.96		mg/Kg-dry	10	12/28/2016
Vanadium	22	0.96		mg/Kg-dry	10	12/28/2016
Zinc	480	4.8		mg/Kg-dry	10	12/28/2016
Mercury	SW7471A		Prep Date: 12/27/2016		Analyst: LB	
Mercury	0.49	0.021		mg/Kg-dry	1	12/28/2016
Cyanide, Total	SW9012A		Prep Date: 12/21/2016		Analyst: MD	
Cyanide	ND	0.28		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/22/2016		Analyst: PBG	
pH	8.4			pH Units	1	12/22/2016
Percent Moisture	D2974		Prep Date: 12/22/2016		Analyst: RW	
Percent Moisture	12.0	0.2	*	wt%	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-002

Client Sample ID: RPM-SB-43-2
Collection Date: 12/21/2016 9:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/21/2016		Analyst: PS
Acetone	ND	0.085		mg/Kg-dry	1	12/23/2016
Benzene	ND	0.0056		mg/Kg-dry	1	12/23/2016
Bromodichloromethane	ND	0.0056		mg/Kg-dry	1	12/23/2016
Bromoform	ND	0.0056		mg/Kg-dry	1	12/23/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/23/2016
2-Butanone	ND	0.085		mg/Kg-dry	1	12/23/2016
Carbon disulfide	ND	0.056		mg/Kg-dry	1	12/23/2016
Carbon tetrachloride	ND	0.0056		mg/Kg-dry	1	12/23/2016
Chlorobenzene	ND	0.0056		mg/Kg-dry	1	12/23/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/23/2016
Chloroform	ND	0.0056		mg/Kg-dry	1	12/23/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/23/2016
Dibromochloromethane	ND	0.0056		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethane	ND	0.0056		mg/Kg-dry	1	12/23/2016
1,2-Dichloroethane	ND	0.0056		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/23/2016
cis-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/23/2016
trans-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/23/2016
1,2-Dichloropropane	ND	0.0056		mg/Kg-dry	1	12/23/2016
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/23/2016
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/23/2016
Ethylbenzene	ND	0.0056		mg/Kg-dry	1	12/23/2016
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/23/2016
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/23/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/23/2016
Methyl tert-butyl ether	ND	0.0056		mg/Kg-dry	1	12/23/2016
Styrene	ND	0.0056		mg/Kg-dry	1	12/23/2016
1,1,2,2-Tetrachloroethane	ND	0.0056		mg/Kg-dry	1	12/23/2016
Tetrachloroethene	ND	0.0056		mg/Kg-dry	1	12/23/2016
Toluene	ND	0.0056		mg/Kg-dry	1	12/23/2016
1,1,1-Trichloroethane	ND	0.0056		mg/Kg-dry	1	12/23/2016
1,1,2-Trichloroethane	ND	0.0056		mg/Kg-dry	1	12/23/2016
Trichloroethene	ND	0.0056		mg/Kg-dry	1	12/23/2016
Vinyl chloride	ND	0.0056		mg/Kg-dry	1	12/23/2016
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/23/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Acenaphthene	ND	0.034		mg/Kg-dry	1	12/27/2016
Acenaphthylene	ND	0.034		mg/Kg-dry	1	12/27/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 HT - Sample received past holding time
 * - Non-accredited parameter

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STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-002

Client Sample ID: RPM-SB-43-2
Collection Date: 12/21/2016 9:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM	
Anthracene	ND	0.034		mg/Kg-dry	1	12/27/2016
Benz(a)anthracene	ND	0.034		mg/Kg-dry	1	12/27/2016
Benzo(a)pyrene	ND	0.034		mg/Kg-dry	1	12/27/2016
Benzo(b)fluoranthene	ND	0.034		mg/Kg-dry	1	12/27/2016
Benzo(g,h,i)perylene	ND	0.034		mg/Kg-dry	1	12/27/2016
Benzo(k)fluoranthene	ND	0.034		mg/Kg-dry	1	12/27/2016
Chrysene	ND	0.034		mg/Kg-dry	1	12/27/2016
Dibenz(a,h)anthracene	ND	0.034		mg/Kg-dry	1	12/27/2016
Fluoranthene	ND	0.034		mg/Kg-dry	1	12/27/2016
Fluorene	ND	0.034		mg/Kg-dry	1	12/27/2016
Indeno(1,2,3-cd)pyrene	ND	0.034		mg/Kg-dry	1	12/27/2016
Naphthalene	ND	0.034		mg/Kg-dry	1	12/27/2016
Phenanthrene	ND	0.034		mg/Kg-dry	1	12/27/2016
Pyrene	ND	0.034		mg/Kg-dry	1	12/27/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/27/2016		Analyst: GVC	
Aroclor 1016	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1221	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1232	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1242	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1248	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1254	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1260	ND	0.083		mg/Kg-dry	1	12/27/2016
Pesticides						
	SW8081 (SW3550B)		Prep Date: 12/27/2016		Analyst: GVC	
4,4'-DDD	ND	0.0017		mg/Kg-dry	1	12/27/2016
4,4'-DDE	ND	0.0017		mg/Kg-dry	1	12/27/2016
4,4'-DDT	ND	0.0017		mg/Kg-dry	1	12/27/2016
Aldrin	ND	0.0017		mg/Kg-dry	1	12/27/2016
alpha-BHC	ND	0.0017		mg/Kg-dry	1	12/27/2016
alpha-Chlordane	ND	0.0017		mg/Kg-dry	1	12/27/2016
beta-BHC	ND	0.0017		mg/Kg-dry	1	12/27/2016
Chlordane	ND	0.017		mg/Kg-dry	1	12/27/2016
delta-BHC	ND	0.0017		mg/Kg-dry	1	12/27/2016
Dieldrin	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endosulfan I	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endosulfan II	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endosulfan sulfate	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endrin	ND	0.0017		mg/Kg-dry	1	12/27/2016

Qualifiers:
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-002

Client Sample ID: RPM-SB-43-2
Collection Date: 12/21/2016 9:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides						
	SW8081 (SW3550B)				Prep Date: 12/27/2016	Analyst: GVC
Endrin aldehyde	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endrin ketone	ND	0.0017		mg/Kg-dry	1	12/27/2016
gamma-BHC	ND	0.0017		mg/Kg-dry	1	12/27/2016
gamma-Chlordane	ND	0.0017		mg/Kg-dry	1	12/27/2016
Heptachlor	ND	0.0017		mg/Kg-dry	1	12/27/2016
Heptachlor epoxide	ND	0.0017		mg/Kg-dry	1	12/27/2016
Methoxychlor	ND	0.0017		mg/Kg-dry	1	12/27/2016
Toxaphene	ND	0.034		mg/Kg-dry	1	12/27/2016
Metals by ICP/MS						
	SW6020 (SW3050B)				Prep Date: 12/27/2016	Analyst: JG
Aluminum	940	18		mg/Kg-dry	10	12/27/2016
Antimony	ND	3.5		mg/Kg-dry	10	12/27/2016
Arsenic	ND	0.88		mg/Kg-dry	10	12/27/2016
Barium	3.4	0.88		mg/Kg-dry	10	12/27/2016
Beryllium	ND	0.44		mg/Kg-dry	10	12/27/2016
Cadmium	ND	0.44		mg/Kg-dry	10	12/27/2016
Calcium	25000	53		mg/Kg-dry	10	12/27/2016
Chromium	2.5	0.88		mg/Kg-dry	10	12/27/2016
Cobalt	1.4	0.88		mg/Kg-dry	10	12/27/2016
Copper	ND	2.2		mg/Kg-dry	10	12/27/2016
Iron	2900	26		mg/Kg-dry	10	12/27/2016
Lead	2.1	0.44		mg/Kg-dry	10	12/27/2016
Magnesium	14000	26		mg/Kg-dry	10	12/27/2016
Manganese	120	0.88		mg/Kg-dry	10	12/27/2016
Nickel	2.6	0.88		mg/Kg-dry	10	12/27/2016
Potassium	190	26		mg/Kg-dry	10	12/27/2016
Selenium	ND	0.88		mg/Kg-dry	10	12/27/2016
Silver	ND	0.88		mg/Kg-dry	10	12/27/2016
Sodium	67	53		mg/Kg-dry	10	12/27/2016
Thallium	ND	0.88		mg/Kg-dry	10	12/27/2016
Vanadium	5.3	0.88		mg/Kg-dry	10	12/27/2016
Zinc	8.8	4.4		mg/Kg-dry	10	12/27/2016
Mercury						
	SW7471A				Prep Date: 12/27/2016	Analyst: LB
Mercury	ND	0.019		mg/Kg-dry	1	12/28/2016
Cyanide, Total						
	SW9012A				Prep Date: 12/21/2016	Analyst: MD
Cyanide	ND	0.26		mg/Kg-dry	1	12/22/2016
pH (25 °C)						
	SW9045C				Prep Date: 12/22/2016	Analyst: PBG

Qualifiers: ND - Not Detected at the Reporting Limit
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 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-002

Client Sample ID: RPM-SB-43-2
Collection Date: 12/21/2016 9:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C				Prep Date: 12/22/2016	Analyst: PBG
pH	7.1			pH Units	1	12/22/2016
Percent Moisture	D2974				Prep Date: 12/22/2016	Analyst: RW
Percent Moisture	3.9	0.2	*	wt%	1	12/23/2016

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-003

Client Sample ID: RPM-SB-43-3
Collection Date: 12/21/2016 9:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Volatil Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 12/21/2016		Analyst: PS	
Acetone	ND	0.080		mg/Kg-dry	1	12/23/2016
Benzene	ND	0.0053		mg/Kg-dry	1	12/23/2016
Bromodichloromethane	ND	0.0053		mg/Kg-dry	1	12/23/2016
Bromoform	ND	0.0053		mg/Kg-dry	1	12/23/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/23/2016
2-Butanone	ND	0.080		mg/Kg-dry	1	12/23/2016
Carbon disulfide	ND	0.053		mg/Kg-dry	1	12/23/2016
Carbon tetrachloride	ND	0.0053		mg/Kg-dry	1	12/23/2016
Chlorobenzene	ND	0.0053		mg/Kg-dry	1	12/23/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/23/2016
Chloroform	ND	0.0053		mg/Kg-dry	1	12/23/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/23/2016
Dibromochloromethane	ND	0.0053		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethane	ND	0.0053		mg/Kg-dry	1	12/23/2016
1,2-Dichloroethane	ND	0.0053		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethene	ND	0.0053		mg/Kg-dry	1	12/23/2016
cis-1,2-Dichloroethene	ND	0.0053		mg/Kg-dry	1	12/23/2016
trans-1,2-Dichloroethene	ND	0.0053		mg/Kg-dry	1	12/23/2016
1,2-Dichloropropane	ND	0.0053		mg/Kg-dry	1	12/23/2016
cis-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	12/23/2016
trans-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	12/23/2016
Ethylbenzene	ND	0.0053		mg/Kg-dry	1	12/23/2016
2-Hexanone	ND	0.021		mg/Kg-dry	1	12/23/2016
4-Methyl-2-pentanone	ND	0.021		mg/Kg-dry	1	12/23/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/23/2016
Methyl tert-butyl ether	ND	0.0053		mg/Kg-dry	1	12/23/2016
Styrene	ND	0.0053		mg/Kg-dry	1	12/23/2016
1,1,2,2-Tetrachloroethane	ND	0.0053		mg/Kg-dry	1	12/23/2016
Tetrachloroethene	ND	0.0053		mg/Kg-dry	1	12/23/2016
Toluene	ND	0.0053		mg/Kg-dry	1	12/23/2016
1,1,1-Trichloroethane	ND	0.0053		mg/Kg-dry	1	12/23/2016
1,1,2-Trichloroethane	ND	0.0053		mg/Kg-dry	1	12/23/2016
Trichloroethene	ND	0.0053		mg/Kg-dry	1	12/23/2016
Vinyl chloride	ND	0.0053		mg/Kg-dry	1	12/23/2016
Xylenes, Total	ND	0.016		mg/Kg-dry	1	12/23/2016

Polynuclear Aromatic Hydrocarbons by GC/MS	SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM	
Acenaphthene	ND	0.039		mg/Kg-dry	1	12/28/2016
Acenaphthylene	ND	0.039		mg/Kg-dry	1	12/28/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-003

Client Sample ID: RPM-SB-43-3
Collection Date: 12/21/2016 9:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM	
Anthracene	ND	0.039		mg/Kg-dry	1	12/28/2016
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	12/28/2016
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	12/28/2016
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	12/28/2016
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	12/28/2016
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	12/28/2016
Chrysene	ND	0.039		mg/Kg-dry	1	12/28/2016
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	12/28/2016
Fluoranthene	ND	0.039		mg/Kg-dry	1	12/28/2016
Fluorene	ND	0.039		mg/Kg-dry	1	12/28/2016
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	12/28/2016
Naphthalene	ND	0.039		mg/Kg-dry	1	12/28/2016
Phenanthrene	ND	0.039		mg/Kg-dry	1	12/28/2016
Pyrene	ND	0.039		mg/Kg-dry	1	12/28/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/27/2016		Analyst: GVC	
Aroclor 1016	ND	0.094		mg/Kg-dry	1	12/27/2016
Aroclor 1221	ND	0.094		mg/Kg-dry	1	12/27/2016
Aroclor 1232	ND	0.094		mg/Kg-dry	1	12/27/2016
Aroclor 1242	ND	0.094		mg/Kg-dry	1	12/27/2016
Aroclor 1248	ND	0.094		mg/Kg-dry	1	12/27/2016
Aroclor 1254	ND	0.094		mg/Kg-dry	1	12/27/2016
Aroclor 1260	ND	0.094		mg/Kg-dry	1	12/27/2016
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Arsenic	1.4	1.0		mg/Kg-dry	10	12/28/2016
Barium	3.9	1.0		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.52		mg/Kg-dry	10	12/28/2016
Chromium	3.4	1.0		mg/Kg-dry	10	12/28/2016
Lead	4.1	0.52		mg/Kg-dry	10	12/28/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/28/2016
Silver	ND	1.0		mg/Kg-dry	10	12/28/2016
Mercury						
	SW7471A		Prep Date: 12/27/2016		Analyst: LB	
Mercury	ND	0.021		mg/Kg-dry	1	12/28/2016
Percent Moisture						
	D2974		Prep Date: 12/22/2016		Analyst: RW	
Percent Moisture	16.0	0.2	*	wt%	1	12/23/2016

Qualifiers:
 ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-004

Client Sample ID: RPM-SB-42-1
Collection Date: 12/21/2016 9:35:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/21/2016		Analyst: PS
Acetone	ND	0.089		mg/Kg-dry	1	12/23/2016
Benzene	ND	0.0059		mg/Kg-dry	1	12/23/2016
Bromodichloromethane	ND	0.0059		mg/Kg-dry	1	12/23/2016
Bromoform	ND	0.0059		mg/Kg-dry	1	12/23/2016
Bromomethane	ND	0.012		mg/Kg-dry	1	12/23/2016
2-Butanone	ND	0.089		mg/Kg-dry	1	12/23/2016
Carbon disulfide	ND	0.059		mg/Kg-dry	1	12/23/2016
Carbon tetrachloride	ND	0.0059		mg/Kg-dry	1	12/23/2016
Chlorobenzene	ND	0.0059		mg/Kg-dry	1	12/23/2016
Chloroethane	ND	0.012		mg/Kg-dry	1	12/23/2016
Chloroform	ND	0.0059		mg/Kg-dry	1	12/23/2016
Chloromethane	ND	0.012		mg/Kg-dry	1	12/23/2016
Dibromochloromethane	ND	0.0059		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethane	ND	0.0059		mg/Kg-dry	1	12/23/2016
1,2-Dichloroethane	ND	0.0059		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/23/2016
cis-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/23/2016
trans-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/23/2016
1,2-Dichloropropane	ND	0.0059		mg/Kg-dry	1	12/23/2016
cis-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	12/23/2016
trans-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	12/23/2016
Ethylbenzene	ND	0.0059		mg/Kg-dry	1	12/23/2016
2-Hexanone	ND	0.024		mg/Kg-dry	1	12/23/2016
4-Methyl-2-pentanone	ND	0.024		mg/Kg-dry	1	12/23/2016
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/23/2016
Methyl tert-butyl ether	ND	0.0059		mg/Kg-dry	1	12/23/2016
Styrene	ND	0.0059		mg/Kg-dry	1	12/23/2016
1,1,2,2-Tetrachloroethane	ND	0.0059		mg/Kg-dry	1	12/23/2016
Tetrachloroethene	ND	0.0059		mg/Kg-dry	1	12/23/2016
Toluene	ND	0.0059		mg/Kg-dry	1	12/23/2016
1,1,1-Trichloroethane	ND	0.0059		mg/Kg-dry	1	12/23/2016
1,1,2-Trichloroethane	ND	0.0059		mg/Kg-dry	1	12/23/2016
Trichloroethene	ND	0.0059		mg/Kg-dry	1	12/23/2016
Vinyl chloride	ND	0.0059		mg/Kg-dry	1	12/23/2016
Xylenes, Total	ND	0.018		mg/Kg-dry	1	12/23/2016
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	12/28/2016
Acenaphthylene	ND	0.038		mg/Kg-dry	1	12/28/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-004

Client Sample ID: RPM-SB-42-1
Collection Date: 12/21/2016 9:35:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Aniline	ND	0.38		mg/Kg-dry	1	12/28/2016
Anthracene	0.040	0.038		mg/Kg-dry	1	12/28/2016
Benz(a)anthracene	0.20	0.038		mg/Kg-dry	1	12/28/2016
Benzidine	ND	0.38		mg/Kg-dry	1	12/28/2016
Benzo(a)pyrene	0.23	0.038		mg/Kg-dry	1	12/28/2016
Benzo(b)fluoranthene	0.21	0.038		mg/Kg-dry	1	12/28/2016
Benzo(g,h,i)perylene	0.17	0.038		mg/Kg-dry	1	12/28/2016
Benzo(k)fluoranthene	0.16	0.038		mg/Kg-dry	1	12/28/2016
Benzoic acid	ND	0.95		mg/Kg-dry	1	12/28/2016
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	12/28/2016
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	12/28/2016
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	12/28/2016
Bis(2-ethylhexyl)phthalate	ND	0.95		mg/Kg-dry	1	12/28/2016
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	12/28/2016
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	12/28/2016
Carbazole	ND	0.19		mg/Kg-dry	1	12/28/2016
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	12/28/2016
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	12/28/2016
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	12/28/2016
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	12/28/2016
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	12/28/2016
Chrysene	0.25	0.038		mg/Kg-dry	1	12/28/2016
Dibenz(a,h)anthracene	0.056	0.038		mg/Kg-dry	1	12/28/2016
Dibenzofuran	ND	0.19		mg/Kg-dry	1	12/28/2016
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	12/28/2016
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	12/28/2016
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	12/28/2016
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	12/28/2016
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	12/28/2016
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	12/28/2016
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	12/28/2016
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	12/28/2016
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	12/28/2016
2,4-Dinitrophenol	ND	0.95		mg/Kg-dry	1	12/28/2016
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	12/28/2016
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	12/28/2016
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	12/28/2016
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	12/28/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-004

Client Sample ID: RPM-SB-42-1
Collection Date: 12/21/2016 9:35:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)	Prep Date: 12/27/2016			Analyst: DM
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Fluoranthene	0.35	0.038		mg/Kg-dry	1	12/28/2016
Fluorene	ND	0.038		mg/Kg-dry	1	12/28/2016
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	12/28/2016
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	12/28/2016
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	12/28/2016
Hexachloroethane	ND	0.19		mg/Kg-dry	1	12/28/2016
Indeno(1,2,3-cd)pyrene	0.13	0.038		mg/Kg-dry	1	12/28/2016
Isophorone	ND	0.19		mg/Kg-dry	1	12/28/2016
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	12/28/2016
2-Methylphenol	ND	0.19		mg/Kg-dry	1	12/28/2016
4-Methylphenol	ND	0.19		mg/Kg-dry	1	12/28/2016
Naphthalene	ND	0.038		mg/Kg-dry	1	12/28/2016
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	12/28/2016
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	12/28/2016
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	12/28/2016
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	12/28/2016
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	12/28/2016
Nitrobenzene	ND	0.038		mg/Kg-dry	1	12/28/2016
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	12/28/2016
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	12/28/2016
N-Nitrosodiphenylamine	ND	0.038		mg/Kg-dry	1	12/28/2016
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	12/28/2016
Pentachlorophenol	ND	0.038		mg/Kg-dry	1	12/28/2016
Phenanthrene	0.22	0.038		mg/Kg-dry	1	12/28/2016
Phenol	ND	0.19		mg/Kg-dry	1	12/28/2016
Pyrene	0.42	0.038		mg/Kg-dry	1	12/28/2016
Pyridine	ND	0.77		mg/Kg-dry	1	12/28/2016
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	12/28/2016
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	12/28/2016
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	12/28/2016

PCBs	SW8082 (SW3550B)	Prep Date: 12/27/2016			Analyst: GVC
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Aroclor 1016	ND	0.092		mg/Kg-dry	1	12/27/2016
Aroclor 1221	ND	0.092		mg/Kg-dry	1	12/27/2016
Aroclor 1232	ND	0.092		mg/Kg-dry	1	12/27/2016
Aroclor 1242	ND	0.092		mg/Kg-dry	1	12/27/2016
Aroclor 1248	ND	0.092		mg/Kg-dry	1	12/27/2016
Aroclor 1254	ND	0.092		mg/Kg-dry	1	12/27/2016
Aroclor 1260	ND	0.092		mg/Kg-dry	1	12/27/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-004

Client Sample ID: RPM-SB-42-1
Collection Date: 12/21/2016 9:35:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides						
	SW8081 (SW3550B)			Prep Date: 12/27/2016		Analyst: GVC
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	12/27/2016
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	12/27/2016
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	12/27/2016
Aldrin	ND	0.0018		mg/Kg-dry	1	12/27/2016
alpha-BHC	ND	0.0018		mg/Kg-dry	1	12/27/2016
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	12/27/2016
beta-BHC	ND	0.0018		mg/Kg-dry	1	12/27/2016
Chlordane	ND	0.018		mg/Kg-dry	1	12/27/2016
delta-BHC	ND	0.0018		mg/Kg-dry	1	12/27/2016
Dieldrin	ND	0.0018		mg/Kg-dry	1	12/27/2016
Endosulfan I	ND	0.0018		mg/Kg-dry	1	12/27/2016
Endosulfan II	ND	0.0018		mg/Kg-dry	1	12/27/2016
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	12/27/2016
Endrin	ND	0.0018		mg/Kg-dry	1	12/27/2016
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	12/27/2016
Endrin ketone	ND	0.0018		mg/Kg-dry	1	12/27/2016
gamma-BHC	ND	0.0018		mg/Kg-dry	1	12/27/2016
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	12/27/2016
Heptachlor	ND	0.0018		mg/Kg-dry	1	12/27/2016
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	12/27/2016
Methoxychlor	ND	0.0018		mg/Kg-dry	1	12/27/2016
Toxaphene	ND	0.038		mg/Kg-dry	1	12/27/2016
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 12/27/2016		Analyst: JG
Aluminum	3600	20		mg/Kg-dry	10	12/28/2016
Antimony	ND	4.0		mg/Kg-dry	10	12/28/2016
Arsenic	7.0	1.0		mg/Kg-dry	10	12/28/2016
Barium	200	1.0		mg/Kg-dry	10	12/28/2016
Beryllium	ND	0.51		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.51		mg/Kg-dry	10	12/28/2016
Calcium	22000	61		mg/Kg-dry	10	12/28/2016
Chromium	7.0	1.0		mg/Kg-dry	10	12/28/2016
Cobalt	3.3	1.0		mg/Kg-dry	10	12/28/2016
Copper	85	2.5		mg/Kg-dry	10	12/28/2016
Iron	8700	300		mg/Kg-dry	100	12/27/2016
Lead	410	0.51		mg/Kg-dry	10	12/28/2016
Magnesium	11000	30		mg/Kg-dry	10	12/28/2016
Manganese	310	1.0		mg/Kg-dry	10	12/28/2016
Nickel	7.2	1.0		mg/Kg-dry	10	12/28/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-004

Client Sample ID: RPM-SB-42-1
Collection Date: 12/21/2016 9:35:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Potassium	400	30		mg/Kg-dry	10	12/28/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/28/2016
Silver	ND	1.0		mg/Kg-dry	10	12/28/2016
Sodium	260	61		mg/Kg-dry	10	12/28/2016
Thallium	ND	1.0		mg/Kg-dry	10	12/28/2016
Vanadium	16	1.0		mg/Kg-dry	10	12/28/2016
Zinc	120	5.1		mg/Kg-dry	10	12/28/2016
Mercury	SW7471A		Prep Date: 12/27/2016		Analyst: LB	
Mercury	0.68	0.023		mg/Kg-dry	1	12/28/2016
Cyanide, Total	SW9012A		Prep Date: 12/21/2016		Analyst: MD	
Cyanide	ND	0.29		mg/Kg-dry	1	12/22/2016
pH (25 °C)	SW9045C		Prep Date: 12/22/2016		Analyst: PBG	
pH	7.7			pH Units	1	12/22/2016
Percent Moisture	D2974		Prep Date: 12/22/2016		Analyst: RW	
Percent Moisture	13.1	0.2	*	wt%	1	12/23/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120690 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120690-005

Client Sample ID: RPM-SB-42-2
 Collection Date: 12/21/2016 9:45:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/21/2016		Analyst: PS
Acetone	ND	0.089		mg/Kg-dry	1	12/23/2016
Benzene	ND	0.0059		mg/Kg-dry	1	12/23/2016
Bromodichloromethane	ND	0.0059		mg/Kg-dry	1	12/23/2016
Bromoform	ND	0.0059		mg/Kg-dry	1	12/23/2016
Bromomethane	ND	0.012		mg/Kg-dry	1	12/23/2016
2-Butanone	ND	0.089		mg/Kg-dry	1	12/23/2016
Carbon disulfide	ND	0.059		mg/Kg-dry	1	12/23/2016
Carbon tetrachloride	ND	0.0059		mg/Kg-dry	1	12/23/2016
Chlorobenzene	ND	0.0059		mg/Kg-dry	1	12/23/2016
Chloroethane	ND	0.012		mg/Kg-dry	1	12/23/2016
Chloroform	ND	0.0059		mg/Kg-dry	1	12/23/2016
Chloromethane	ND	0.012		mg/Kg-dry	1	12/23/2016
Dibromochloromethane	ND	0.0059		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethane	ND	0.0059		mg/Kg-dry	1	12/23/2016
1,2-Dichloroethane	ND	0.0059		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/23/2016
cis-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/23/2016
trans-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/23/2016
1,2-Dichloropropane	ND	0.0059		mg/Kg-dry	1	12/23/2016
cis-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	12/23/2016
trans-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	12/23/2016
Ethylbenzene	ND	0.0059		mg/Kg-dry	1	12/23/2016
2-Hexanone	ND	0.024		mg/Kg-dry	1	12/23/2016
4-Methyl-2-pentanone	ND	0.024		mg/Kg-dry	1	12/23/2016
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/23/2016
Methyl tert-butyl ether	ND	0.0059		mg/Kg-dry	1	12/23/2016
Styrene	ND	0.0059		mg/Kg-dry	1	12/23/2016
1,1,2,2-Tetrachloroethane	ND	0.0059		mg/Kg-dry	1	12/23/2016
Tetrachloroethene	ND	0.0059		mg/Kg-dry	1	12/23/2016
Toluene	ND	0.0059		mg/Kg-dry	1	12/23/2016
1,1,1-Trichloroethane	ND	0.0059		mg/Kg-dry	1	12/23/2016
1,1,2-Trichloroethane	ND	0.0059		mg/Kg-dry	1	12/23/2016
Trichloroethene	ND	0.0059		mg/Kg-dry	1	12/23/2016
Vinyl chloride	ND	0.0059		mg/Kg-dry	1	12/23/2016
Xylenes, Total	ND	0.018		mg/Kg-dry	1	12/23/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Acenaphthene	ND	0.034		mg/Kg-dry	1	12/28/2016
Acenaphthylene	ND	0.034		mg/Kg-dry	1	12/28/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-005

Client Sample ID: RPM-SB-42-2
Collection Date: 12/21/2016 9:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM	
Anthracene	ND	0.034		mg/Kg-dry	1	12/28/2016
Benz(a)anthracene	ND	0.034		mg/Kg-dry	1	12/28/2016
Benzo(a)pyrene	ND	0.034		mg/Kg-dry	1	12/28/2016
Benzo(b)fluoranthene	ND	0.034		mg/Kg-dry	1	12/28/2016
Benzo(g,h,i)perylene	ND	0.034		mg/Kg-dry	1	12/28/2016
Benzo(k)fluoranthene	ND	0.034		mg/Kg-dry	1	12/28/2016
Chrysene	ND	0.034		mg/Kg-dry	1	12/28/2016
Dibenz(a,h)anthracene	ND	0.034		mg/Kg-dry	1	12/28/2016
Fluoranthene	ND	0.034		mg/Kg-dry	1	12/28/2016
Fluorene	ND	0.034		mg/Kg-dry	1	12/28/2016
Indeno(1,2,3-cd)pyrene	ND	0.034		mg/Kg-dry	1	12/28/2016
Naphthalene	ND	0.034		mg/Kg-dry	1	12/28/2016
Phenanthrene	ND	0.034		mg/Kg-dry	1	12/28/2016
Pyrene	ND	0.034		mg/Kg-dry	1	12/28/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/27/2016		Analyst: GVC	
Aroclor 1016	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1221	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1232	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1242	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1248	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1254	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1260	ND	0.083		mg/Kg-dry	1	12/27/2016
Pesticides						
	SW8081 (SW3550B)		Prep Date: 12/27/2016		Analyst: GVC	
4,4'-DDD	ND	0.0017		mg/Kg-dry	1	12/27/2016
4,4'-DDE	ND	0.0017		mg/Kg-dry	1	12/27/2016
4,4'-DDT	ND	0.0017		mg/Kg-dry	1	12/27/2016
Aldrin	ND	0.0017		mg/Kg-dry	1	12/27/2016
alpha-BHC	ND	0.0017		mg/Kg-dry	1	12/27/2016
alpha-Chlordane	ND	0.0017		mg/Kg-dry	1	12/27/2016
beta-BHC	ND	0.0017		mg/Kg-dry	1	12/27/2016
Chlordane	ND	0.017		mg/Kg-dry	1	12/27/2016
delta-BHC	ND	0.0017		mg/Kg-dry	1	12/27/2016
Dieldrin	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endosulfan I	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endosulfan II	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endosulfan sulfate	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endrin	ND	0.0017		mg/Kg-dry	1	12/27/2016

Qualifiers:
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STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-005

Client Sample ID: RPM-SB-42-2
Collection Date: 12/21/2016 9:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides						
	SW8081 (SW3550B)				Prep Date: 12/27/2016	Analyst: GVC
Endrin aldehyde	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endrin ketone	ND	0.0017		mg/Kg-dry	1	12/27/2016
gamma-BHC	ND	0.0017		mg/Kg-dry	1	12/27/2016
gamma-Chlordane	ND	0.0017		mg/Kg-dry	1	12/27/2016
Heptachlor	ND	0.0017		mg/Kg-dry	1	12/27/2016
Heptachlor epoxide	ND	0.0017		mg/Kg-dry	1	12/27/2016
Methoxychlor	ND	0.0017		mg/Kg-dry	1	12/27/2016
Toxaphene	ND	0.034		mg/Kg-dry	1	12/27/2016
Metals by ICP/MS						
	SW6020 (SW3050B)				Prep Date: 12/27/2016	Analyst: JG
Aluminum	1300	19		mg/Kg-dry	10	12/28/2016
Antimony	ND	3.8		mg/Kg-dry	10	12/28/2016
Arsenic	ND	0.95		mg/Kg-dry	10	12/28/2016
Barium	4.3	0.95		mg/Kg-dry	10	12/28/2016
Beryllium	ND	0.47		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.47		mg/Kg-dry	10	12/28/2016
Calcium	37000	57		mg/Kg-dry	10	12/28/2016
Chromium	4.5	0.95		mg/Kg-dry	10	12/28/2016
Cobalt	1.7	0.95		mg/Kg-dry	10	12/28/2016
Copper	ND	2.4		mg/Kg-dry	10	12/28/2016
Iron	4200	28		mg/Kg-dry	10	12/28/2016
Lead	4.4	0.47		mg/Kg-dry	10	12/28/2016
Magnesium	20000	28		mg/Kg-dry	10	12/28/2016
Manganese	190	0.95		mg/Kg-dry	10	12/28/2016
Nickel	3.6	0.95		mg/Kg-dry	10	12/28/2016
Potassium	220	28		mg/Kg-dry	10	12/28/2016
Selenium	ND	0.95		mg/Kg-dry	10	12/28/2016
Silver	ND	0.95		mg/Kg-dry	10	12/28/2016
Sodium	98	57		mg/Kg-dry	10	12/28/2016
Thallium	ND	0.95		mg/Kg-dry	10	12/28/2016
Vanadium	9.0	0.95		mg/Kg-dry	10	12/28/2016
Zinc	14	4.7		mg/Kg-dry	10	12/28/2016
Mercury						
	SW7471A				Prep Date: 12/27/2016	Analyst: LB
Mercury	ND	0.018		mg/Kg-dry	1	12/28/2016
Cyanide, Total						
	SW9012A				Prep Date: 12/21/2016	Analyst: MD
Cyanide	ND	0.26		mg/Kg-dry	1	12/22/2016
pH (25 °C)						
	SW9045C				Prep Date: 12/22/2016	Analyst: PBG

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-005

Client Sample ID: RPM-SB-42-2
Collection Date: 12/21/2016 9:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C					
pH	8.6			pH Units	1	12/22/2016
Percent Moisture	D2974					
Percent Moisture	4.0	0.2	*	wt%	1	12/23/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-006

Client Sample ID: RPM-SB-42-3
Collection Date: 12/21/2016 9:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/21/2016		Analyst: PS
Acetone	ND	0.076		mg/Kg-dry	1	12/23/2016
Benzene	ND	0.0051		mg/Kg-dry	1	12/23/2016
Bromodichloromethane	ND	0.0051		mg/Kg-dry	1	12/23/2016
Bromoform	ND	0.0051		mg/Kg-dry	1	12/23/2016
Bromomethane	ND	0.010		mg/Kg-dry	1	12/23/2016
2-Butanone	ND	0.076		mg/Kg-dry	1	12/23/2016
Carbon disulfide	ND	0.051		mg/Kg-dry	1	12/23/2016
Carbon tetrachloride	ND	0.0051		mg/Kg-dry	1	12/23/2016
Chlorobenzene	ND	0.0051		mg/Kg-dry	1	12/23/2016
Chloroethane	ND	0.010		mg/Kg-dry	1	12/23/2016
Chloroform	ND	0.0051		mg/Kg-dry	1	12/23/2016
Chloromethane	ND	0.010		mg/Kg-dry	1	12/23/2016
Dibromochloromethane	ND	0.0051		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethane	ND	0.0051		mg/Kg-dry	1	12/23/2016
1,2-Dichloroethane	ND	0.0051		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethene	ND	0.0051		mg/Kg-dry	1	12/23/2016
cis-1,2-Dichloroethene	ND	0.0051		mg/Kg-dry	1	12/23/2016
trans-1,2-Dichloroethene	ND	0.0051		mg/Kg-dry	1	12/23/2016
1,2-Dichloropropane	ND	0.0051		mg/Kg-dry	1	12/23/2016
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	12/23/2016
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	12/23/2016
Ethylbenzene	ND	0.0051		mg/Kg-dry	1	12/23/2016
2-Hexanone	ND	0.020		mg/Kg-dry	1	12/23/2016
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	12/23/2016
Methylene chloride	ND	0.010		mg/Kg-dry	1	12/23/2016
Methyl tert-butyl ether	ND	0.0051		mg/Kg-dry	1	12/23/2016
Styrene	ND	0.0051		mg/Kg-dry	1	12/23/2016
1,1,2,2-Tetrachloroethane	ND	0.0051		mg/Kg-dry	1	12/23/2016
Tetrachloroethene	ND	0.0051		mg/Kg-dry	1	12/23/2016
Toluene	ND	0.0051		mg/Kg-dry	1	12/23/2016
1,1,1-Trichloroethane	ND	0.0051		mg/Kg-dry	1	12/23/2016
1,1,2-Trichloroethane	ND	0.0051		mg/Kg-dry	1	12/23/2016
Trichloroethene	ND	0.0051		mg/Kg-dry	1	12/23/2016
Vinyl chloride	ND	0.0051		mg/Kg-dry	1	12/23/2016
Xylenes, Total	ND	0.015		mg/Kg-dry	1	12/23/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	12/28/2016
Acenaphthylene	ND	0.039		mg/Kg-dry	1	12/28/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-006

Client Sample ID: RPM-SB-42-3
Collection Date: 12/21/2016 9:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM	
Anthracene	ND	0.039		mg/Kg-dry	1	12/28/2016
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	12/28/2016
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	12/28/2016
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	12/28/2016
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	12/28/2016
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	12/28/2016
Chrysene	ND	0.039		mg/Kg-dry	1	12/28/2016
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	12/28/2016
Fluoranthene	ND	0.039		mg/Kg-dry	1	12/28/2016
Fluorene	ND	0.039		mg/Kg-dry	1	12/28/2016
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	12/28/2016
Naphthalene	ND	0.039		mg/Kg-dry	1	12/28/2016
Phenanthrene	ND	0.039		mg/Kg-dry	1	12/28/2016
Pyrene	ND	0.039		mg/Kg-dry	1	12/28/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/27/2016		Analyst: GVC	
Aroclor 1016	ND	0.094		mg/Kg-dry	1	12/27/2016
Aroclor 1221	ND	0.094		mg/Kg-dry	1	12/27/2016
Aroclor 1232	ND	0.094		mg/Kg-dry	1	12/27/2016
Aroclor 1242	ND	0.094		mg/Kg-dry	1	12/27/2016
Aroclor 1248	ND	0.094		mg/Kg-dry	1	12/27/2016
Aroclor 1254	ND	0.094		mg/Kg-dry	1	12/27/2016
Aroclor 1260	ND	0.094		mg/Kg-dry	1	12/27/2016
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Arsenic	1.2	1.1		mg/Kg-dry	10	12/28/2016
Barium	2.8	1.1		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.53		mg/Kg-dry	10	12/28/2016
Chromium	2.5	1.1		mg/Kg-dry	10	12/28/2016
Lead	2.8	0.53		mg/Kg-dry	10	12/28/2016
Selenium	ND	1.1		mg/Kg-dry	10	12/28/2016
Silver	ND	1.1		mg/Kg-dry	10	12/28/2016
Mercury						
	SW7471A		Prep Date: 12/27/2016		Analyst: LB	
Mercury	ND	0.021		mg/Kg-dry	1	12/28/2016
Percent Moisture						
	D2974		Prep Date: 12/22/2016		Analyst: RW	
Percent Moisture	15.2	0.2	*	wt%	1	12/23/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120690 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120690-007

Client Sample ID: RPM-SB-41-1
 Collection Date: 12/21/2016 9:55:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/21/2016		Analyst: PS
Acetone	ND	0.12		mg/Kg-dry	1	12/23/2016
Benzene	ND	0.0082		mg/Kg-dry	1	12/23/2016
Bromodichloromethane	ND	0.0082		mg/Kg-dry	1	12/23/2016
Bromoform	ND	0.0082		mg/Kg-dry	1	12/23/2016
Bromomethane	ND	0.016		mg/Kg-dry	1	12/23/2016
2-Butanone	ND	0.12		mg/Kg-dry	1	12/23/2016
Carbon disulfide	ND	0.082		mg/Kg-dry	1	12/23/2016
Carbon tetrachloride	ND	0.0082		mg/Kg-dry	1	12/23/2016
Chlorobenzene	ND	0.0082		mg/Kg-dry	1	12/23/2016
Chloroethane	ND	0.016		mg/Kg-dry	1	12/23/2016
Chloroform	ND	0.0082		mg/Kg-dry	1	12/23/2016
Chloromethane	ND	0.016		mg/Kg-dry	1	12/23/2016
Dibromochloromethane	ND	0.0082		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethane	ND	0.0082		mg/Kg-dry	1	12/23/2016
1,2-Dichloroethane	ND	0.0082		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethene	ND	0.0082		mg/Kg-dry	1	12/23/2016
cis-1,2-Dichloroethene	ND	0.0082		mg/Kg-dry	1	12/23/2016
trans-1,2-Dichloroethene	ND	0.0082		mg/Kg-dry	1	12/23/2016
1,2-Dichloropropane	ND	0.0082		mg/Kg-dry	1	12/23/2016
cis-1,3-Dichloropropene	ND	0.0033		mg/Kg-dry	1	12/23/2016
trans-1,3-Dichloropropene	ND	0.0033		mg/Kg-dry	1	12/23/2016
Ethylbenzene	ND	0.0082		mg/Kg-dry	1	12/23/2016
2-Hexanone	ND	0.033		mg/Kg-dry	1	12/23/2016
4-Methyl-2-pentanone	ND	0.033		mg/Kg-dry	1	12/23/2016
Methylene chloride	ND	0.016		mg/Kg-dry	1	12/23/2016
Methyl tert-butyl ether	ND	0.0082		mg/Kg-dry	1	12/23/2016
Styrene	ND	0.0082		mg/Kg-dry	1	12/23/2016
1,1,2,2-Tetrachloroethane	ND	0.0082		mg/Kg-dry	1	12/23/2016
Tetrachloroethene	ND	0.0082		mg/Kg-dry	1	12/23/2016
Toluene	ND	0.0082		mg/Kg-dry	1	12/23/2016
1,1,1-Trichloroethane	ND	0.0082		mg/Kg-dry	1	12/23/2016
1,1,2-Trichloroethane	ND	0.0082		mg/Kg-dry	1	12/23/2016
Trichloroethene	ND	0.0082		mg/Kg-dry	1	12/23/2016
Vinyl chloride	ND	0.0082		mg/Kg-dry	1	12/23/2016
Xylenes, Total	ND	0.025		mg/Kg-dry	1	12/23/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	12/28/2016
Acenaphthylene	ND	0.040		mg/Kg-dry	1	12/28/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-007

Client Sample ID: RPM-SB-41-1
Collection Date: 12/21/2016 9:55:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS SW8270C (SW3550B) Prep Date: 12/27/2016 Analyst: DM						
Anthracene	0.065	0.040		mg/Kg-dry	1	12/28/2016
Benz(a)anthracene	0.25	0.040		mg/Kg-dry	1	12/28/2016
Benzo(a)pyrene	0.28	0.040		mg/Kg-dry	1	12/28/2016
Benzo(b)fluoranthene	0.23	0.040		mg/Kg-dry	1	12/28/2016
Benzo(g,h,i)perylene	0.30	0.040		mg/Kg-dry	1	12/28/2016
Benzo(k)fluoranthene	0.22	0.040		mg/Kg-dry	1	12/28/2016
Chrysene	0.35	0.040		mg/Kg-dry	1	12/28/2016
Dibenz(a,h)anthracene	0.063	0.040		mg/Kg-dry	1	12/28/2016
Fluoranthene	0.40	0.040		mg/Kg-dry	1	12/28/2016
Fluorene	ND	0.040		mg/Kg-dry	1	12/28/2016
Indeno(1,2,3-cd)pyrene	0.18	0.040		mg/Kg-dry	1	12/28/2016
Naphthalene	ND	0.040		mg/Kg-dry	1	12/28/2016
Phenanthrene	0.29	0.040		mg/Kg-dry	1	12/28/2016
Pyrene	0.55	0.040		mg/Kg-dry	1	12/28/2016
PCBs SW8082 (SW3550B) Prep Date: 12/27/2016 Analyst: GVC						
Aroclor 1016	ND	0.096		mg/Kg-dry	1	12/27/2016
Aroclor 1221	ND	0.096		mg/Kg-dry	1	12/27/2016
Aroclor 1232	ND	0.096		mg/Kg-dry	1	12/27/2016
Aroclor 1242	ND	0.096		mg/Kg-dry	1	12/27/2016
Aroclor 1248	ND	0.096		mg/Kg-dry	1	12/27/2016
Aroclor 1254	ND	0.096		mg/Kg-dry	1	12/27/2016
Aroclor 1260	ND	0.096		mg/Kg-dry	1	12/27/2016
Pesticides SW8081 (SW3550B) Prep Date: 12/27/2016 Analyst: GVC						
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	12/27/2016
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	12/27/2016
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	12/27/2016
Aldrin	ND	0.0019		mg/Kg-dry	1	12/27/2016
alpha-BHC	ND	0.0019		mg/Kg-dry	1	12/27/2016
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	12/27/2016
beta-BHC	ND	0.0019		mg/Kg-dry	1	12/27/2016
Chlordane	ND	0.019		mg/Kg-dry	1	12/27/2016
delta-BHC	ND	0.0019		mg/Kg-dry	1	12/27/2016
Dieldrin	ND	0.0019		mg/Kg-dry	1	12/27/2016
Endosulfan I	ND	0.0019		mg/Kg-dry	1	12/27/2016
Endosulfan II	ND	0.0019		mg/Kg-dry	1	12/27/2016
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	12/27/2016
Endrin	ND	0.0019		mg/Kg-dry	1	12/27/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-007

Client Sample ID: RPM-SB-41-1
Collection Date: 12/21/2016 9:55:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides						
	SW8081 (SW3550B)				Prep Date: 12/27/2016	Analyst: GVC
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	12/27/2016
Endrin ketone	ND	0.0019		mg/Kg-dry	1	12/27/2016
gamma-BHC	ND	0.0019		mg/Kg-dry	1	12/27/2016
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	12/27/2016
Heptachlor	ND	0.0019		mg/Kg-dry	1	12/27/2016
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	12/27/2016
Methoxychlor	ND	0.0019		mg/Kg-dry	1	12/27/2016
Toxaphene	ND	0.040		mg/Kg-dry	1	12/27/2016
Metals by ICP/MS						
	SW6020 (SW3050B)				Prep Date: 12/27/2016	Analyst: JG
Aluminum	3800	22		mg/Kg-dry	10	12/28/2016
Antimony	ND	4.4		mg/Kg-dry	10	12/28/2016
Arsenic	89	1.1		mg/Kg-dry	10	12/28/2016
Barium	270	1.1		mg/Kg-dry	10	12/28/2016
Beryllium	0.85	0.55		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.55		mg/Kg-dry	10	12/28/2016
Calcium	12000	66		mg/Kg-dry	10	12/28/2016
Chromium	9.5	1.1		mg/Kg-dry	10	12/28/2016
Cobalt	6.6	1.1		mg/Kg-dry	10	12/28/2016
Copper	41	2.7		mg/Kg-dry	10	12/28/2016
Iron	12000	330		mg/Kg-dry	100	12/27/2016
Lead	170	0.55		mg/Kg-dry	10	12/28/2016
Magnesium	3500	33		mg/Kg-dry	10	12/28/2016
Manganese	170	1.1		mg/Kg-dry	10	12/28/2016
Nickel	12	1.1		mg/Kg-dry	10	12/28/2016
Potassium	530	33		mg/Kg-dry	10	12/28/2016
Selenium	ND	1.1		mg/Kg-dry	10	12/28/2016
Silver	ND	1.1		mg/Kg-dry	10	12/28/2016
Sodium	480	66		mg/Kg-dry	10	12/28/2016
Thallium	ND	1.1		mg/Kg-dry	10	12/28/2016
Vanadium	21	1.1		mg/Kg-dry	10	12/28/2016
Zinc	140	5.5		mg/Kg-dry	10	12/28/2016
Mercury						
	SW7471A				Prep Date: 12/27/2016	Analyst: LB
Mercury	0.39	0.019		mg/Kg-dry	1	12/28/2016
Cyanide, Total						
	SW9012A				Prep Date: 12/21/2016	Analyst: MD
Cyanide	ND	0.30		mg/Kg-dry	1	12/22/2016
pH (25 °C)						
	SW9045C				Prep Date: 12/22/2016	Analyst: PBG

Qualifiers: ND - Not Detected at the Reporting Limit
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 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
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 H - Holding time exceeded

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-007

Client Sample ID: RPM-SB-41-1
Collection Date: 12/21/2016 9:55:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C					
pH	11.5			pH Units	1	12/22/2016
						Prep Date: 12/22/2016 Analyst: PBG
Percent Moisture	D2974					
Percent Moisture	17.4	0.2	*	wt%	1	12/23/2016
						Prep Date: 12/22/2016 Analyst: RW

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-008

Client Sample ID: RPM-SB-41-2
Collection Date: 12/21/2016 10:05:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/21/2016		Analyst: PS
Acetone	ND	0.086		mg/Kg-dry	1	12/23/2016
Benzene	ND	0.0057		mg/Kg-dry	1	12/23/2016
Bromodichloromethane	ND	0.0057		mg/Kg-dry	1	12/23/2016
Bromoform	ND	0.0057		mg/Kg-dry	1	12/23/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/23/2016
2-Butanone	ND	0.086		mg/Kg-dry	1	12/23/2016
Carbon disulfide	ND	0.057		mg/Kg-dry	1	12/23/2016
Carbon tetrachloride	ND	0.0057		mg/Kg-dry	1	12/23/2016
Chlorobenzene	ND	0.0057		mg/Kg-dry	1	12/23/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/23/2016
Chloroform	ND	0.0057		mg/Kg-dry	1	12/23/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/23/2016
Dibromochloromethane	ND	0.0057		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/23/2016
1,2-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/23/2016
cis-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/23/2016
trans-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/23/2016
1,2-Dichloropropane	ND	0.0057		mg/Kg-dry	1	12/23/2016
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/23/2016
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/23/2016
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	12/23/2016
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/23/2016
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/23/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/23/2016
Methyl tert-butyl ether	ND	0.0057		mg/Kg-dry	1	12/23/2016
Styrene	ND	0.0057		mg/Kg-dry	1	12/23/2016
1,1,2,2-Tetrachloroethane	ND	0.0057		mg/Kg-dry	1	12/23/2016
Tetrachloroethene	ND	0.0057		mg/Kg-dry	1	12/23/2016
Toluene	ND	0.0057		mg/Kg-dry	1	12/23/2016
1,1,1-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/23/2016
1,1,2-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/23/2016
Trichloroethene	ND	0.0057		mg/Kg-dry	1	12/23/2016
Vinyl chloride	ND	0.0057		mg/Kg-dry	1	12/23/2016
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/23/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Acenaphthene	ND	0.035		mg/Kg-dry	1	12/28/2016
Acenaphthylene	ND	0.035		mg/Kg-dry	1	12/28/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-008

Client Sample ID: RPM-SB-41-2
Collection Date: 12/21/2016 10:05:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)				Prep Date: 12/27/2016	Analyst: DM
Anthracene	ND	0.035		mg/Kg-dry	1	12/28/2016
Benz(a)anthracene	ND	0.035		mg/Kg-dry	1	12/28/2016
Benzo(a)pyrene	ND	0.035		mg/Kg-dry	1	12/28/2016
Benzo(b)fluoranthene	ND	0.035		mg/Kg-dry	1	12/28/2016
Benzo(g,h,i)perylene	ND	0.035		mg/Kg-dry	1	12/28/2016
Benzo(k)fluoranthene	ND	0.035		mg/Kg-dry	1	12/28/2016
Chrysene	ND	0.035		mg/Kg-dry	1	12/28/2016
Dibenz(a,h)anthracene	ND	0.035		mg/Kg-dry	1	12/28/2016
Fluoranthene	ND	0.035		mg/Kg-dry	1	12/28/2016
Fluorene	ND	0.035		mg/Kg-dry	1	12/28/2016
Indeno(1,2,3-cd)pyrene	ND	0.035		mg/Kg-dry	1	12/28/2016
Naphthalene	ND	0.035		mg/Kg-dry	1	12/28/2016
Phenanthrene	ND	0.035		mg/Kg-dry	1	12/28/2016
Pyrene	ND	0.035		mg/Kg-dry	1	12/28/2016
PCBs						
	SW8082 (SW3550B)				Prep Date: 12/27/2016	Analyst: GVC
Aroclor 1016	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1221	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1232	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1242	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1248	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1254	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1260	ND	0.083		mg/Kg-dry	1	12/27/2016
Metals by ICP/MS						
	SW6020 (SW3050B)				Prep Date: 12/27/2016	Analyst: JG
Aluminum	1300	18		mg/Kg-dry	10	12/28/2016
Antimony	ND	3.6		mg/Kg-dry	10	12/28/2016
Arsenic	ND	0.89		mg/Kg-dry	10	12/28/2016
Barium	4.7	0.89		mg/Kg-dry	10	12/28/2016
Beryllium	ND	0.45		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.45		mg/Kg-dry	10	12/28/2016
Calcium	41000	54		mg/Kg-dry	10	12/28/2016
Chromium	4.5	0.89		mg/Kg-dry	10	12/28/2016
Cobalt	1.4	0.89		mg/Kg-dry	10	12/28/2016
Copper	2.5	2.2		mg/Kg-dry	10	12/28/2016
Iron	4000	27		mg/Kg-dry	10	12/28/2016
Lead	3.1	0.45		mg/Kg-dry	10	12/28/2016
Magnesium	21000	27		mg/Kg-dry	10	12/28/2016
Manganese	180	0.89		mg/Kg-dry	10	12/28/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120690 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120690-008

Client Sample ID: RPM-SB-41-2
 Collection Date: 12/21/2016 10:05:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Nickel	3.3	0.89		mg/Kg-dry	10	12/28/2016
Potassium	220	27		mg/Kg-dry	10	12/28/2016
Selenium	ND	0.89		mg/Kg-dry	10	12/28/2016
Silver	ND	0.89		mg/Kg-dry	10	12/28/2016
Sodium	85	54		mg/Kg-dry	10	12/28/2016
Thallium	ND	0.89		mg/Kg-dry	10	12/28/2016
Vanadium	9.1	0.89		mg/Kg-dry	10	12/28/2016
Zinc	13	4.5		mg/Kg-dry	10	12/28/2016
Mercury	SW7471A		Prep Date: 12/27/2016		Analyst: LB	
Mercury	ND	0.016		mg/Kg-dry	1	12/28/2016
Cyanide, Total	SW9012A		Prep Date: 12/23/2016		Analyst: MD	
Cyanide	ND	0.26		mg/Kg-dry	1	12/27/2016
pH (25 °C)	SW9045C		Prep Date: 12/22/2016		Analyst: PBG	
pH	9.1			pH Units	1	12/22/2016
Percent Moisture	D2974		Prep Date: 12/22/2016		Analyst: RW	
Percent Moisture	4.6	0.2	*	wt%	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 HT - Sample received past holding time
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-009

Client Sample ID: RPM-SB-41-3
Collection Date: 12/21/2016 10:15:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/21/2016		Analyst: PS
Acetone	ND	0.083		mg/Kg-dry	1	12/23/2016
Benzene	ND	0.0055		mg/Kg-dry	1	12/23/2016
Bromodichloromethane	ND	0.0055		mg/Kg-dry	1	12/23/2016
Bromoform	ND	0.0055		mg/Kg-dry	1	12/23/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/23/2016
2-Butanone	ND	0.083		mg/Kg-dry	1	12/23/2016
Carbon disulfide	ND	0.055		mg/Kg-dry	1	12/23/2016
Carbon tetrachloride	ND	0.0055		mg/Kg-dry	1	12/23/2016
Chlorobenzene	ND	0.0055		mg/Kg-dry	1	12/23/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/23/2016
Chloroform	ND	0.0055		mg/Kg-dry	1	12/23/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/23/2016
Dibromochloromethane	ND	0.0055		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethane	ND	0.0055		mg/Kg-dry	1	12/23/2016
1,2-Dichloroethane	ND	0.0055		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethene	ND	0.0055		mg/Kg-dry	1	12/23/2016
cis-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	12/23/2016
trans-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	12/23/2016
1,2-Dichloropropane	ND	0.0055		mg/Kg-dry	1	12/23/2016
cis-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	12/23/2016
trans-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	12/23/2016
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	12/23/2016
2-Hexanone	ND	0.022		mg/Kg-dry	1	12/23/2016
4-Methyl-2-pentanone	ND	0.022		mg/Kg-dry	1	12/23/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/23/2016
Methyl tert-butyl ether	ND	0.0055		mg/Kg-dry	1	12/23/2016
Styrene	ND	0.0055		mg/Kg-dry	1	12/23/2016
1,1,2,2-Tetrachloroethane	ND	0.0055		mg/Kg-dry	1	12/23/2016
Tetrachloroethene	ND	0.0055		mg/Kg-dry	1	12/23/2016
Toluene	ND	0.0055		mg/Kg-dry	1	12/23/2016
1,1,1-Trichloroethane	ND	0.0055		mg/Kg-dry	1	12/23/2016
1,1,2-Trichloroethane	ND	0.0055		mg/Kg-dry	1	12/23/2016
Trichloroethene	ND	0.0055		mg/Kg-dry	1	12/23/2016
Vinyl chloride	ND	0.0055		mg/Kg-dry	1	12/23/2016
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/23/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	12/28/2016
Acenaphthylene	ND	0.040		mg/Kg-dry	1	12/28/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-009

Client Sample ID: RPM-SB-41-3
Collection Date: 12/21/2016 10:15:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM	
Anthracene	ND	0.040		mg/Kg-dry	1	12/28/2016
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	12/28/2016
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	12/28/2016
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	12/28/2016
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	12/28/2016
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	12/28/2016
Chrysene	ND	0.040		mg/Kg-dry	1	12/28/2016
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	12/28/2016
Fluoranthene	ND	0.040		mg/Kg-dry	1	12/28/2016
Fluorene	ND	0.040		mg/Kg-dry	1	12/28/2016
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	12/28/2016
Naphthalene	ND	0.040		mg/Kg-dry	1	12/28/2016
Phenanthrene	ND	0.040		mg/Kg-dry	1	12/28/2016
Pyrene	ND	0.040		mg/Kg-dry	1	12/28/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/27/2016		Analyst: GVC	
Aroclor 1016	ND	0.096		mg/Kg-dry	1	12/27/2016
Aroclor 1221	ND	0.096		mg/Kg-dry	1	12/27/2016
Aroclor 1232	ND	0.096		mg/Kg-dry	1	12/27/2016
Aroclor 1242	ND	0.096		mg/Kg-dry	1	12/27/2016
Aroclor 1248	ND	0.096		mg/Kg-dry	1	12/27/2016
Aroclor 1254	ND	0.096		mg/Kg-dry	1	12/27/2016
Aroclor 1260	ND	0.096		mg/Kg-dry	1	12/27/2016
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Arsenic	2.6	1.1		mg/Kg-dry	10	12/28/2016
Barium	5.3	1.1		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.54		mg/Kg-dry	10	12/28/2016
Chromium	5.0	1.1		mg/Kg-dry	10	12/28/2016
Lead	6.0	0.54		mg/Kg-dry	10	12/28/2016
Selenium	ND	1.1		mg/Kg-dry	10	12/28/2016
Silver	ND	1.1		mg/Kg-dry	10	12/28/2016
Mercury						
	SW7471A		Prep Date: 12/27/2016		Analyst: LB	
Mercury	ND	0.022		mg/Kg-dry	1	12/28/2016
Percent Moisture						
	D2974		Prep Date: 12/22/2016		Analyst: RW	
Percent Moisture	17.3	0.2	*	wt%	1	12/23/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120690 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120690-010

Client Sample ID: RPM-SB-40-1
 Collection Date: 12/21/2016 10:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/21/2016		Analyst: PS
Acetone	ND	0.074		mg/Kg-dry	1	12/23/2016
Benzene	ND	0.0049		mg/Kg-dry	1	12/23/2016
Bromodichloromethane	ND	0.0049		mg/Kg-dry	1	12/23/2016
Bromoform	ND	0.0049		mg/Kg-dry	1	12/23/2016
Bromomethane	ND	0.0098		mg/Kg-dry	1	12/23/2016
2-Butanone	ND	0.074		mg/Kg-dry	1	12/23/2016
Carbon disulfide	ND	0.049		mg/Kg-dry	1	12/23/2016
Carbon tetrachloride	ND	0.0049		mg/Kg-dry	1	12/23/2016
Chlorobenzene	ND	0.0049		mg/Kg-dry	1	12/23/2016
Chloroethane	ND	0.0098		mg/Kg-dry	1	12/23/2016
Chloroform	ND	0.0049		mg/Kg-dry	1	12/23/2016
Chloromethane	ND	0.0098		mg/Kg-dry	1	12/23/2016
Dibromochloromethane	ND	0.0049		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethane	ND	0.0049		mg/Kg-dry	1	12/23/2016
1,2-Dichloroethane	ND	0.0049		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethene	ND	0.0049		mg/Kg-dry	1	12/23/2016
cis-1,2-Dichloroethene	ND	0.0049		mg/Kg-dry	1	12/23/2016
trans-1,2-Dichloroethene	ND	0.0049		mg/Kg-dry	1	12/23/2016
1,2-Dichloropropane	ND	0.0049		mg/Kg-dry	1	12/23/2016
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	12/23/2016
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	12/23/2016
Ethylbenzene	ND	0.0049		mg/Kg-dry	1	12/23/2016
2-Hexanone	ND	0.020		mg/Kg-dry	1	12/23/2016
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	12/23/2016
Methylene chloride	ND	0.0098		mg/Kg-dry	1	12/23/2016
Methyl tert-butyl ether	ND	0.0049		mg/Kg-dry	1	12/23/2016
Styrene	ND	0.0049		mg/Kg-dry	1	12/23/2016
1,1,2,2-Tetrachloroethane	ND	0.0049		mg/Kg-dry	1	12/23/2016
Tetrachloroethene	ND	0.0049		mg/Kg-dry	1	12/23/2016
Toluene	ND	0.0049		mg/Kg-dry	1	12/23/2016
1,1,1-Trichloroethane	ND	0.0049		mg/Kg-dry	1	12/23/2016
1,1,2-Trichloroethane	ND	0.0049		mg/Kg-dry	1	12/23/2016
Trichloroethene	ND	0.0049		mg/Kg-dry	1	12/23/2016
Vinyl chloride	ND	0.0049		mg/Kg-dry	1	12/23/2016
Xylenes, Total	ND	0.015		mg/Kg-dry	1	12/23/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Acenaphthene	ND	0.035		mg/Kg-dry	1	12/28/2016
Acenaphthylene	ND	0.035		mg/Kg-dry	1	12/28/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-010

Client Sample ID: RPM-SB-40-1
Collection Date: 12/21/2016 10:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS SW8270C (SW3550B) Prep Date: 12/27/2016 Analyst: DM						
Anthracene	0.051	0.035		mg/Kg-dry	1	12/28/2016
Benz(a)anthracene	0.24	0.035		mg/Kg-dry	1	12/28/2016
Benzo(a)pyrene	0.24	0.035		mg/Kg-dry	1	12/28/2016
Benzo(b)fluoranthene	0.28	0.035		mg/Kg-dry	1	12/28/2016
Benzo(g,h,i)perylene	0.18	0.035		mg/Kg-dry	1	12/28/2016
Benzo(k)fluoranthene	0.18	0.035		mg/Kg-dry	1	12/28/2016
Chrysene	0.33	0.035		mg/Kg-dry	1	12/28/2016
Dibenz(a,h)anthracene	0.071	0.035		mg/Kg-dry	1	12/28/2016
Fluoranthene	0.43	0.035		mg/Kg-dry	1	12/28/2016
Fluorene	ND	0.035		mg/Kg-dry	1	12/28/2016
Indeno(1,2,3-cd)pyrene	0.14	0.035		mg/Kg-dry	1	12/28/2016
Naphthalene	ND	0.035		mg/Kg-dry	1	12/28/2016
Phenanthrene	0.26	0.035		mg/Kg-dry	1	12/28/2016
Pyrene	0.41	0.035		mg/Kg-dry	1	12/28/2016
PCBs SW8082 (SW3550B) Prep Date: 12/27/2016 Analyst: GVC						
Aroclor 1016	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1221	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1232	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1242	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1248	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1254	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1260	ND	0.083		mg/Kg-dry	1	12/27/2016
Pesticides SW8081 (SW3550B) Prep Date: 12/27/2016 Analyst: GVC						
4,4'-DDD	ND	0.0017		mg/Kg-dry	1	12/27/2016
4,4'-DDE	ND	0.0017		mg/Kg-dry	1	12/27/2016
4,4'-DDT	ND	0.0017		mg/Kg-dry	1	12/27/2016
Aldrin	ND	0.0017		mg/Kg-dry	1	12/27/2016
alpha-BHC	ND	0.0017		mg/Kg-dry	1	12/27/2016
alpha-Chlordane	ND	0.0017		mg/Kg-dry	1	12/27/2016
beta-BHC	ND	0.0017		mg/Kg-dry	1	12/27/2016
Chlordane	ND	0.017		mg/Kg-dry	1	12/27/2016
delta-BHC	ND	0.0017		mg/Kg-dry	1	12/27/2016
Dieldrin	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endosulfan I	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endosulfan II	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endosulfan sulfate	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endrin	ND	0.0017		mg/Kg-dry	1	12/27/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-010

Client Sample ID: RPM-SB-40-1
Collection Date: 12/21/2016 10:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides						
	SW8081 (SW3550B)		Prep Date: 12/27/2016		Analyst: GVC	
Endrin aldehyde	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endrin ketone	ND	0.0017		mg/Kg-dry	1	12/27/2016
gamma-BHC	ND	0.0017		mg/Kg-dry	1	12/27/2016
gamma-Chlordane	ND	0.0017		mg/Kg-dry	1	12/27/2016
Heptachlor	ND	0.0017		mg/Kg-dry	1	12/27/2016
Heptachlor epoxide	ND	0.0017		mg/Kg-dry	1	12/27/2016
Methoxychlor	ND	0.0017		mg/Kg-dry	1	12/27/2016
Toxaphene	ND	0.034		mg/Kg-dry	1	12/27/2016
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Aluminum	3200	19		mg/Kg-dry	10	12/28/2016
Antimony	ND	3.8		mg/Kg-dry	10	12/28/2016
Arsenic	7.1	0.94		mg/Kg-dry	10	12/28/2016
Barium	130	0.94		mg/Kg-dry	10	12/28/2016
Beryllium	ND	0.47		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.47		mg/Kg-dry	10	12/28/2016
Calcium	27000	56		mg/Kg-dry	10	12/28/2016
Chromium	7.6	0.94		mg/Kg-dry	10	12/28/2016
Cobalt	4.4	0.94		mg/Kg-dry	10	12/28/2016
Copper	27	2.3		mg/Kg-dry	10	12/28/2016
Iron	8300	280		mg/Kg-dry	100	12/27/2016
Lead	69	0.47		mg/Kg-dry	10	12/28/2016
Magnesium	13000	28		mg/Kg-dry	10	12/28/2016
Manganese	230	0.94		mg/Kg-dry	10	12/28/2016
Nickel	9.1	0.94		mg/Kg-dry	10	12/28/2016
Potassium	330	28		mg/Kg-dry	10	12/28/2016
Selenium	ND	0.94		mg/Kg-dry	10	12/28/2016
Silver	ND	0.94		mg/Kg-dry	10	12/28/2016
Sodium	230	56		mg/Kg-dry	10	12/28/2016
Thallium	ND	0.94		mg/Kg-dry	10	12/28/2016
Vanadium	19	0.94		mg/Kg-dry	10	12/28/2016
Zinc	78	4.7		mg/Kg-dry	10	12/28/2016
Mercury						
	SW7471A		Prep Date: 12/27/2016		Analyst: LB	
Mercury	0.11	0.020		mg/Kg-dry	1	12/28/2016
Cyanide, Total						
	SW9012A		Prep Date: 12/23/2016		Analyst: MD	
Cyanide	ND	0.26		mg/Kg-dry	1	12/27/2016
pH (25 °C)						
	SW9045C		Prep Date: 12/22/2016		Analyst: PBG	

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ANALYTICAL RESULTS

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Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-010

Client Sample ID: RPM-SB-40-1
Collection Date: 12/21/2016 10:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C					
pH	9.6			pH Units	1	12/22/2016
Percent Moisture	D2974					
Percent Moisture	5.4	0.2	*	wt%	1	12/23/2016

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ANALYTICAL RESULTS

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Client: GSG Consultants, Inc.
 Work Order: 16120690 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120690-011

Client Sample ID: RPM-SB-40-2
 Collection Date: 12/21/2016 10:30:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/21/2016		Analyst: PS
Acetone	ND	0.085		mg/Kg-dry	1	12/23/2016
Benzene	ND	0.0056		mg/Kg-dry	1	12/23/2016
Bromodichloromethane	ND	0.0056		mg/Kg-dry	1	12/23/2016
Bromoform	ND	0.0056		mg/Kg-dry	1	12/23/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/23/2016
2-Butanone	ND	0.085		mg/Kg-dry	1	12/23/2016
Carbon disulfide	ND	0.056		mg/Kg-dry	1	12/23/2016
Carbon tetrachloride	ND	0.0056		mg/Kg-dry	1	12/23/2016
Chlorobenzene	ND	0.0056		mg/Kg-dry	1	12/23/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/23/2016
Chloroform	ND	0.0056		mg/Kg-dry	1	12/23/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/23/2016
Dibromochloromethane	ND	0.0056		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethane	ND	0.0056		mg/Kg-dry	1	12/23/2016
1,2-Dichloroethane	ND	0.0056		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/23/2016
cis-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/23/2016
trans-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/23/2016
1,2-Dichloropropane	ND	0.0056		mg/Kg-dry	1	12/23/2016
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/23/2016
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/23/2016
Ethylbenzene	ND	0.0056		mg/Kg-dry	1	12/23/2016
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/23/2016
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/23/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/23/2016
Methyl tert-butyl ether	ND	0.0056		mg/Kg-dry	1	12/23/2016
Styrene	ND	0.0056		mg/Kg-dry	1	12/23/2016
1,1,2,2-Tetrachloroethane	ND	0.0056		mg/Kg-dry	1	12/23/2016
Tetrachloroethene	ND	0.0056		mg/Kg-dry	1	12/23/2016
Toluene	ND	0.0056		mg/Kg-dry	1	12/23/2016
1,1,1-Trichloroethane	ND	0.0056		mg/Kg-dry	1	12/23/2016
1,1,2-Trichloroethane	ND	0.0056		mg/Kg-dry	1	12/23/2016
Trichloroethene	ND	0.0056		mg/Kg-dry	1	12/23/2016
Vinyl chloride	ND	0.0056		mg/Kg-dry	1	12/23/2016
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/23/2016
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Acenaphthene	ND	0.035		mg/Kg-dry	1	12/28/2016
Acenaphthylene	ND	0.035		mg/Kg-dry	1	12/28/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120690 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120690-011

Client Sample ID: RPM-SB-40-2
 Collection Date: 12/21/2016 10:30:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM	
Aniline	ND	0.35		mg/Kg-dry	1	12/28/2016
Anthracene	ND	0.035		mg/Kg-dry	1	12/28/2016
Benz(a)anthracene	ND	0.035		mg/Kg-dry	1	12/28/2016
Benzidine	ND	0.35		mg/Kg-dry	1	12/28/2016
Benzo(a)pyrene	ND	0.035		mg/Kg-dry	1	12/28/2016
Benzo(b)fluoranthene	ND	0.035		mg/Kg-dry	1	12/28/2016
Benzo(g,h,i)perylene	ND	0.035		mg/Kg-dry	1	12/28/2016
Benzo(k)fluoranthene	ND	0.035		mg/Kg-dry	1	12/28/2016
Benzoic acid	ND	0.87		mg/Kg-dry	1	12/28/2016
Benzyl alcohol	ND	0.18		mg/Kg-dry	1	12/28/2016
Bis(2-chloroethoxy)methane	ND	0.18		mg/Kg-dry	1	12/28/2016
Bis(2-chloroethyl)ether	ND	0.18		mg/Kg-dry	1	12/28/2016
Bis(2-ethylhexyl)phthalate	ND	0.87		mg/Kg-dry	1	12/28/2016
4-Bromophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	12/28/2016
Butyl benzyl phthalate	ND	0.18		mg/Kg-dry	1	12/28/2016
Carbazole	ND	0.18		mg/Kg-dry	1	12/28/2016
4-Chloroaniline	ND	0.18		mg/Kg-dry	1	12/28/2016
4-Chloro-3-methylphenol	ND	0.35		mg/Kg-dry	1	12/28/2016
2-Chloronaphthalene	ND	0.18		mg/Kg-dry	1	12/28/2016
2-Chlorophenol	ND	0.18		mg/Kg-dry	1	12/28/2016
4-Chlorophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	12/28/2016
Chrysene	ND	0.035		mg/Kg-dry	1	12/28/2016
Dibenz(a,h)anthracene	ND	0.035		mg/Kg-dry	1	12/28/2016
Dibenzofuran	ND	0.18		mg/Kg-dry	1	12/28/2016
1,2-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	12/28/2016
1,3-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	12/28/2016
1,4-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	12/28/2016
3,3'-Dichlorobenzidine	ND	0.18		mg/Kg-dry	1	12/28/2016
2,4-Dichlorophenol	ND	0.18		mg/Kg-dry	1	12/28/2016
Diethyl phthalate	ND	0.18		mg/Kg-dry	1	12/28/2016
2,4-Dimethylphenol	ND	0.18		mg/Kg-dry	1	12/28/2016
Dimethyl phthalate	ND	0.18		mg/Kg-dry	1	12/28/2016
4,6-Dinitro-2-methylphenol	ND	0.35		mg/Kg-dry	1	12/28/2016
2,4-Dinitrophenol	ND	0.87		mg/Kg-dry	1	12/28/2016
2,4-Dinitrotoluene	ND	0.035		mg/Kg-dry	1	12/28/2016
2,6-Dinitrotoluene	ND	0.035		mg/Kg-dry	1	12/28/2016
Di-n-butyl phthalate	ND	0.18		mg/Kg-dry	1	12/28/2016
Di-n-octyl phthalate	ND	0.18		mg/Kg-dry	1	12/28/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-011

Client Sample ID: RPM-SB-40-2
Collection Date: 12/21/2016 10:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Fluoranthene	ND	0.035		mg/Kg-dry	1	12/28/2016
Fluorene	ND	0.035		mg/Kg-dry	1	12/28/2016
Hexachlorobenzene	ND	0.18		mg/Kg-dry	1	12/28/2016
Hexachlorobutadiene	ND	0.18		mg/Kg-dry	1	12/28/2016
Hexachlorocyclopentadiene	ND	0.18		mg/Kg-dry	1	12/28/2016
Hexachloroethane	ND	0.18		mg/Kg-dry	1	12/28/2016
Indeno(1,2,3-cd)pyrene	ND	0.035		mg/Kg-dry	1	12/28/2016
Isophorone	ND	0.18		mg/Kg-dry	1	12/28/2016
2-Methylnaphthalene	ND	0.18		mg/Kg-dry	1	12/28/2016
2-Methylphenol	ND	0.18		mg/Kg-dry	1	12/28/2016
4-Methylphenol	ND	0.18		mg/Kg-dry	1	12/28/2016
Naphthalene	ND	0.035		mg/Kg-dry	1	12/28/2016
2-Nitroaniline	ND	0.18		mg/Kg-dry	1	12/28/2016
3-Nitroaniline	ND	0.18		mg/Kg-dry	1	12/28/2016
4-Nitroaniline	ND	0.18		mg/Kg-dry	1	12/28/2016
2-Nitrophenol	ND	0.18		mg/Kg-dry	1	12/28/2016
4-Nitrophenol	ND	0.35		mg/Kg-dry	1	12/28/2016
Nitrobenzene	ND	0.035		mg/Kg-dry	1	12/28/2016
N-Nitrosodi-n-propylamine	ND	0.035		mg/Kg-dry	1	12/28/2016
N-Nitrosodimethylamine	ND	0.18		mg/Kg-dry	1	12/28/2016
N-Nitrosodiphenylamine	ND	0.035		mg/Kg-dry	1	12/28/2016
2, 2'-oxybis(1-Chloropropane)	ND	0.18		mg/Kg-dry	1	12/28/2016
Pentachlorophenol	ND	0.035		mg/Kg-dry	1	12/28/2016
Phenanthrene	ND	0.035		mg/Kg-dry	1	12/28/2016
Phenol	ND	0.18		mg/Kg-dry	1	12/28/2016
Pyrene	ND	0.035		mg/Kg-dry	1	12/28/2016
Pyridine	ND	0.70		mg/Kg-dry	1	12/28/2016
1,2,4-Trichlorobenzene	ND	0.18		mg/Kg-dry	1	12/28/2016
2,4,5-Trichlorophenol	ND	0.18		mg/Kg-dry	1	12/28/2016
2,4,6-Trichlorophenol	ND	0.18		mg/Kg-dry	1	12/28/2016
PCBs		SW8082 (SW3550B)		Prep Date: 12/27/2016		Analyst: GVC
Aroclor 1016	ND	0.084		mg/Kg-dry	1	12/27/2016
Aroclor 1221	ND	0.084		mg/Kg-dry	1	12/27/2016
Aroclor 1232	ND	0.084		mg/Kg-dry	1	12/27/2016
Aroclor 1242	ND	0.084		mg/Kg-dry	1	12/27/2016
Aroclor 1248	ND	0.084		mg/Kg-dry	1	12/27/2016
Aroclor 1254	ND	0.084		mg/Kg-dry	1	12/27/2016
Aroclor 1260	ND	0.084		mg/Kg-dry	1	12/27/2016

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STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 11, 2017

ANALYTICAL RESULTS

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Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-011

Client Sample ID: RPM-SB-40-2
Collection Date: 12/21/2016 10:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides		SW8081 (SW3550B)		Prep Date: 12/27/2016		Analyst: GVC
4,4'-DDD	ND	0.0017		mg/Kg-dry	1	12/27/2016
4,4'-DDE	ND	0.0017		mg/Kg-dry	1	12/27/2016
4,4'-DDT	ND	0.0017		mg/Kg-dry	1	12/27/2016
Aldrin	ND	0.0017		mg/Kg-dry	1	12/27/2016
alpha-BHC	ND	0.0017		mg/Kg-dry	1	12/27/2016
alpha-Chlordane	ND	0.0017		mg/Kg-dry	1	12/27/2016
beta-BHC	ND	0.0017		mg/Kg-dry	1	12/27/2016
Chlordane	ND	0.017		mg/Kg-dry	1	12/27/2016
delta-BHC	ND	0.0017		mg/Kg-dry	1	12/27/2016
Dieldrin	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endosulfan I	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endosulfan II	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endosulfan sulfate	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endrin	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endrin aldehyde	ND	0.0017		mg/Kg-dry	1	12/27/2016
Endrin ketone	ND	0.0017		mg/Kg-dry	1	12/27/2016
gamma-BHC	ND	0.0017		mg/Kg-dry	1	12/27/2016
gamma-Chlordane	ND	0.0017		mg/Kg-dry	1	12/27/2016
Heptachlor	ND	0.0017		mg/Kg-dry	1	12/27/2016
Heptachlor epoxide	ND	0.0017		mg/Kg-dry	1	12/27/2016
Methoxychlor	ND	0.0017		mg/Kg-dry	1	12/27/2016
Toxaphene	ND	0.035		mg/Kg-dry	1	12/27/2016
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG
Aluminum	1800	19		mg/Kg-dry	10	12/28/2016
Antimony	ND	3.8		mg/Kg-dry	10	12/28/2016
Arsenic	1.0	0.95		mg/Kg-dry	10	12/28/2016
Barium	5.8	0.95		mg/Kg-dry	10	12/28/2016
Beryllium	ND	0.48		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.48		mg/Kg-dry	10	12/28/2016
Calcium	61000	570		mg/Kg-dry	100	12/27/2016
Chromium	6.1	0.95		mg/Kg-dry	10	12/28/2016
Cobalt	3.2	0.95		mg/Kg-dry	10	12/28/2016
Copper	2.9	2.4		mg/Kg-dry	10	12/28/2016
Iron	5000	290		mg/Kg-dry	100	12/27/2016
Lead	3.7	0.48		mg/Kg-dry	10	12/28/2016
Magnesium	40000	29		mg/Kg-dry	10	12/28/2016
Manganese	280	0.95		mg/Kg-dry	10	12/28/2016
Nickel	6.2	0.95		mg/Kg-dry	10	12/28/2016

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ANALYTICAL RESULTS

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Work Order: 16120690 Revision 1
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Lab ID: 16120690-011

Client Sample ID: RPM-SB-40-2
Collection Date: 12/21/2016 10:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Potassium	340	29		mg/Kg-dry	10	12/28/2016
Selenium	ND	0.95		mg/Kg-dry	10	12/28/2016
Silver	ND	0.95		mg/Kg-dry	10	12/28/2016
Sodium	120	57		mg/Kg-dry	10	12/28/2016
Thallium	ND	0.95		mg/Kg-dry	10	12/28/2016
Vanadium	8.2	0.95		mg/Kg-dry	10	12/28/2016
Zinc	18	4.8		mg/Kg-dry	10	12/28/2016
Mercury	SW7471A		Prep Date: 12/27/2016		Analyst: LB	
Mercury	ND	0.019		mg/Kg-dry	1	12/28/2016
Cyanide, Total	SW9012A		Prep Date: 12/23/2016		Analyst: MD	
Cyanide	ND	0.26		mg/Kg-dry	1	12/27/2016
pH (25 °C)	SW9045C		Prep Date: 12/22/2016		Analyst: PBG	
pH	8.8			pH Units	1	12/22/2016
Percent Moisture	D2974		Prep Date: 12/22/2016		Analyst: RW	
Percent Moisture	5.1	0.2	*	wt%	1	12/23/2016

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ANALYTICAL RESULTS

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Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-012

Client Sample ID: RPM-SB-40-3
Collection Date: 12/21/2016 10:40:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/21/2016		Analyst: RRS
Acetone	ND	0.075		mg/Kg-dry	1	12/23/2016
Benzene	ND	0.0050		mg/Kg-dry	1	12/23/2016
Bromodichloromethane	ND	0.0050		mg/Kg-dry	1	12/23/2016
Bromoform	ND	0.0050		mg/Kg-dry	1	12/23/2016
Bromomethane	ND	0.0099		mg/Kg-dry	1	12/23/2016
2-Butanone	ND	0.075		mg/Kg-dry	1	12/23/2016
Carbon disulfide	ND	0.050		mg/Kg-dry	1	12/23/2016
Carbon tetrachloride	ND	0.0050		mg/Kg-dry	1	12/23/2016
Chlorobenzene	ND	0.0050		mg/Kg-dry	1	12/23/2016
Chloroethane	ND	0.0099		mg/Kg-dry	1	12/23/2016
Chloroform	ND	0.0050		mg/Kg-dry	1	12/23/2016
Chloromethane	ND	0.0099		mg/Kg-dry	1	12/23/2016
Dibromochloromethane	ND	0.0050		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethane	ND	0.0050		mg/Kg-dry	1	12/23/2016
1,2-Dichloroethane	ND	0.0050		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethene	ND	0.0050		mg/Kg-dry	1	12/23/2016
cis-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	12/23/2016
trans-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	12/23/2016
1,2-Dichloropropane	ND	0.0050		mg/Kg-dry	1	12/23/2016
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	12/23/2016
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	12/23/2016
Ethylbenzene	ND	0.0050		mg/Kg-dry	1	12/23/2016
2-Hexanone	ND	0.020		mg/Kg-dry	1	12/23/2016
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	12/23/2016
Methylene chloride	ND	0.0099		mg/Kg-dry	1	12/23/2016
Methyl tert-butyl ether	ND	0.0050		mg/Kg-dry	1	12/23/2016
Styrene	ND	0.0050		mg/Kg-dry	1	12/23/2016
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/Kg-dry	1	12/23/2016
Tetrachloroethene	ND	0.0050		mg/Kg-dry	1	12/23/2016
Toluene	ND	0.0050		mg/Kg-dry	1	12/23/2016
1,1,1-Trichloroethane	ND	0.0050		mg/Kg-dry	1	12/23/2016
1,1,2-Trichloroethane	ND	0.0050		mg/Kg-dry	1	12/23/2016
Trichloroethene	ND	0.0050		mg/Kg-dry	1	12/23/2016
Vinyl chloride	ND	0.0050		mg/Kg-dry	1	12/23/2016
Xylenes, Total	ND	0.015		mg/Kg-dry	1	12/23/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	12/28/2016
Acenaphthylene	ND	0.038		mg/Kg-dry	1	12/28/2016

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Work Order: 16120690 Revision 1
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Lab ID: 16120690-012

Client Sample ID: RPM-SB-40-3
Collection Date: 12/21/2016 10:40:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)				Prep Date: 12/27/2016	Analyst: DM
Anthracene	ND	0.038		mg/Kg-dry	1	12/28/2016
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	12/28/2016
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	12/28/2016
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	12/28/2016
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	12/28/2016
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	12/28/2016
Chrysene	ND	0.038		mg/Kg-dry	1	12/28/2016
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	12/28/2016
Fluoranthene	ND	0.038		mg/Kg-dry	1	12/28/2016
Fluorene	ND	0.038		mg/Kg-dry	1	12/28/2016
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	12/28/2016
Naphthalene	ND	0.038		mg/Kg-dry	1	12/28/2016
Phenanthrene	ND	0.038		mg/Kg-dry	1	12/28/2016
Pyrene	ND	0.038		mg/Kg-dry	1	12/28/2016
PCBs						
	SW8082 (SW3550B)				Prep Date: 12/27/2016	Analyst: GVC
Aroclor 1016	ND	0.093		mg/Kg-dry	1	12/27/2016
Aroclor 1221	ND	0.093		mg/Kg-dry	1	12/27/2016
Aroclor 1232	ND	0.093		mg/Kg-dry	1	12/27/2016
Aroclor 1242	ND	0.093		mg/Kg-dry	1	12/27/2016
Aroclor 1248	ND	0.093		mg/Kg-dry	1	12/27/2016
Aroclor 1254	ND	0.093		mg/Kg-dry	1	12/27/2016
Aroclor 1260	ND	0.093		mg/Kg-dry	1	12/27/2016
Metals by ICP/MS						
	SW6020 (SW3050B)				Prep Date: 12/27/2016	Analyst: JG
Arsenic	1.7	1.0		mg/Kg-dry	10	12/28/2016
Barium	3.0	1.0		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.52		mg/Kg-dry	10	12/28/2016
Chromium	2.9	1.0		mg/Kg-dry	10	12/28/2016
Lead	3.4	0.52		mg/Kg-dry	10	12/28/2016
Selenium	ND	1.0		mg/Kg-dry	10	12/28/2016
Silver	ND	1.0		mg/Kg-dry	10	12/28/2016
Mercury						
	SW7471A				Prep Date: 12/27/2016	Analyst: LB
Mercury	ND	0.022		mg/Kg-dry	1	12/28/2016
Percent Moisture						
	D2974				Prep Date: 12/22/2016	Analyst: RW
Percent Moisture	14.7	0.2	*	wt%	1	12/23/2016

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Client: GSG Consultants, Inc.
 Work Order: 16120690 Revision 1
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 Lab ID: 16120690-013

Client Sample ID: RPM-SB-39-1
 Collection Date: 12/21/2016 10:45:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/21/2016		Analyst: RRS
Acetone	ND	0.11		mg/Kg-dry	1	12/23/2016
Benzene	ND	0.0071		mg/Kg-dry	1	12/23/2016
Bromodichloromethane	ND	0.0071		mg/Kg-dry	1	12/23/2016
Bromoform	ND	0.0071		mg/Kg-dry	1	12/23/2016
Bromomethane	ND	0.014		mg/Kg-dry	1	12/23/2016
2-Butanone	ND	0.11		mg/Kg-dry	1	12/23/2016
Carbon disulfide	ND	0.071		mg/Kg-dry	1	12/23/2016
Carbon tetrachloride	ND	0.0071		mg/Kg-dry	1	12/23/2016
Chlorobenzene	ND	0.0071		mg/Kg-dry	1	12/23/2016
Chloroethane	ND	0.014		mg/Kg-dry	1	12/23/2016
Chloroform	ND	0.0071		mg/Kg-dry	1	12/23/2016
Chloromethane	ND	0.014		mg/Kg-dry	1	12/23/2016
Dibromochloromethane	ND	0.0071		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethane	ND	0.0071		mg/Kg-dry	1	12/23/2016
1,2-Dichloroethane	ND	0.0071		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethene	ND	0.0071		mg/Kg-dry	1	12/23/2016
cis-1,2-Dichloroethene	ND	0.0071		mg/Kg-dry	1	12/23/2016
trans-1,2-Dichloroethene	ND	0.0071		mg/Kg-dry	1	12/23/2016
1,2-Dichloropropane	ND	0.0071		mg/Kg-dry	1	12/23/2016
cis-1,3-Dichloropropene	ND	0.0028		mg/Kg-dry	1	12/23/2016
trans-1,3-Dichloropropene	ND	0.0028		mg/Kg-dry	1	12/23/2016
Ethylbenzene	ND	0.0071		mg/Kg-dry	1	12/23/2016
2-Hexanone	ND	0.028		mg/Kg-dry	1	12/23/2016
4-Methyl-2-pentanone	ND	0.028		mg/Kg-dry	1	12/23/2016
Methylene chloride	ND	0.014		mg/Kg-dry	1	12/23/2016
Methyl tert-butyl ether	ND	0.0071		mg/Kg-dry	1	12/23/2016
Styrene	ND	0.0071		mg/Kg-dry	1	12/23/2016
1,1,2,2-Tetrachloroethane	ND	0.0071		mg/Kg-dry	1	12/23/2016
Tetrachloroethene	ND	0.0071		mg/Kg-dry	1	12/23/2016
Toluene	ND	0.0071		mg/Kg-dry	1	12/23/2016
1,1,1-Trichloroethane	ND	0.0071		mg/Kg-dry	1	12/23/2016
1,1,2-Trichloroethane	ND	0.0071		mg/Kg-dry	1	12/23/2016
Trichloroethene	ND	0.0071		mg/Kg-dry	1	12/23/2016
Vinyl chloride	ND	0.0071		mg/Kg-dry	1	12/23/2016
Xylenes, Total	ND	0.021		mg/Kg-dry	1	12/23/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Acenaphthene	0.099	0.042		mg/Kg-dry	1	12/28/2016
Acenaphthylene	0.059	0.042		mg/Kg-dry	1	12/28/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-013

Client Sample ID: RPM-SB-39-1
Collection Date: 12/21/2016 10:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS SW8270C (SW3550B) Prep Date: 12/27/2016 Analyst: DM						
Anthracene	0.50	0.042		mg/Kg-dry	1	12/28/2016
Benz(a)anthracene	1.7	0.042		mg/Kg-dry	1	12/28/2016
Benzo(a)pyrene	1.6	0.042		mg/Kg-dry	1	12/28/2016
Benzo(b)fluoranthene	1.6	0.042		mg/Kg-dry	1	12/28/2016
Benzo(g,h,i)perylene	1.1	0.042		mg/Kg-dry	1	12/28/2016
Benzo(k)fluoranthene	1.1	0.042		mg/Kg-dry	1	12/28/2016
Chrysene	1.8	0.042		mg/Kg-dry	1	12/28/2016
Dibenz(a,h)anthracene	0.35	0.042		mg/Kg-dry	1	12/28/2016
Fluoranthene	3.4	0.042		mg/Kg-dry	1	12/28/2016
Fluorene	0.088	0.042		mg/Kg-dry	1	12/28/2016
Indeno(1,2,3-cd)pyrene	0.89	0.042		mg/Kg-dry	1	12/28/2016
Naphthalene	0.072	0.042		mg/Kg-dry	1	12/28/2016
Phenanthrene	1.9	0.042		mg/Kg-dry	1	12/28/2016
Pyrene	3.0	0.042		mg/Kg-dry	1	12/28/2016
PCBs SW8082 (SW3550B) Prep Date: 12/27/2016 Analyst: GVC						
Aroclor 1016	ND	0.10		mg/Kg-dry	1	12/27/2016
Aroclor 1221	ND	0.10		mg/Kg-dry	1	12/27/2016
Aroclor 1232	ND	0.10		mg/Kg-dry	1	12/27/2016
Aroclor 1242	ND	0.10		mg/Kg-dry	1	12/27/2016
Aroclor 1248	ND	0.10		mg/Kg-dry	1	12/27/2016
Aroclor 1254	ND	0.10		mg/Kg-dry	1	12/27/2016
Aroclor 1260	ND	0.10		mg/Kg-dry	1	12/27/2016
Pesticides SW8081 (SW3550B) Prep Date: 12/27/2016 Analyst: GVC						
4,4'-DDD	ND	0.0020		mg/Kg-dry	1	12/27/2016
4,4'-DDE	ND	0.0020		mg/Kg-dry	1	12/27/2016
4,4'-DDT	ND	0.0020		mg/Kg-dry	1	12/27/2016
Aldrin	ND	0.0020		mg/Kg-dry	1	12/27/2016
alpha-BHC	ND	0.0020		mg/Kg-dry	1	12/27/2016
alpha-Chlordane	ND	0.0020		mg/Kg-dry	1	12/27/2016
beta-BHC	ND	0.0020		mg/Kg-dry	1	12/27/2016
Chlordane	ND	0.020		mg/Kg-dry	1	12/27/2016
delta-BHC	ND	0.0020		mg/Kg-dry	1	12/27/2016
Dieldrin	ND	0.0020		mg/Kg-dry	1	12/27/2016
Endosulfan I	ND	0.0020		mg/Kg-dry	1	12/27/2016
Endosulfan II	ND	0.0020		mg/Kg-dry	1	12/27/2016
Endosulfan sulfate	ND	0.0020		mg/Kg-dry	1	12/27/2016
Endrin	ND	0.0020		mg/Kg-dry	1	12/27/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-013

Client Sample ID: RPM-SB-39-1
Collection Date: 12/21/2016 10:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides						
	SW8081 (SW3550B)			Prep Date: 12/27/2016		Analyst: GVC
Endrin aldehyde	ND	0.0020		mg/Kg-dry	1	12/27/2016
Endrin ketone	ND	0.0020		mg/Kg-dry	1	12/27/2016
gamma-BHC	ND	0.0020		mg/Kg-dry	1	12/27/2016
gamma-Chlordane	ND	0.0020		mg/Kg-dry	1	12/27/2016
Heptachlor	ND	0.0020		mg/Kg-dry	1	12/27/2016
Heptachlor epoxide	ND	0.0020		mg/Kg-dry	1	12/27/2016
Methoxychlor	ND	0.0020		mg/Kg-dry	1	12/27/2016
Toxaphene	ND	0.042		mg/Kg-dry	1	12/27/2016
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 12/27/2016		Analyst: JG
Aluminum	6600	220		mg/Kg-dry	100	12/27/2016
Antimony	ND	4.4		mg/Kg-dry	10	12/28/2016
Arsenic	30	1.1		mg/Kg-dry	10	12/28/2016
Barium	700	1.1		mg/Kg-dry	10	12/28/2016
Beryllium	1.7	0.55		mg/Kg-dry	10	12/28/2016
Cadmium	1.3	0.55		mg/Kg-dry	10	12/28/2016
Calcium	32000	66		mg/Kg-dry	10	12/28/2016
Chromium	17	1.1		mg/Kg-dry	10	12/28/2016
Cobalt	8.0	1.1		mg/Kg-dry	10	12/28/2016
Copper	160	2.8		mg/Kg-dry	10	12/28/2016
Iron	12000	330		mg/Kg-dry	100	12/27/2016
Lead	1100	5.5		mg/Kg-dry	100	12/27/2016
Magnesium	10000	33		mg/Kg-dry	10	12/28/2016
Manganese	260	1.1		mg/Kg-dry	10	12/28/2016
Nickel	20	1.1		mg/Kg-dry	10	12/28/2016
Potassium	1200	33		mg/Kg-dry	10	12/28/2016
Selenium	1.7	1.1		mg/Kg-dry	10	12/28/2016
Silver	ND	1.1		mg/Kg-dry	10	12/28/2016
Sodium	960	66		mg/Kg-dry	10	12/28/2016
Thallium	ND	1.1		mg/Kg-dry	10	12/28/2016
Vanadium	29	1.1		mg/Kg-dry	10	12/28/2016
Zinc	390	5.5		mg/Kg-dry	10	12/28/2016
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 1/10/2017		Analyst: JG
Lead	0.12	0.0050		mg/L	5	1/10/2017
Mercury						
	SW7471A			Prep Date: 12/27/2016		Analyst: LB
Mercury	0.36	0.024		mg/Kg-dry	1	12/28/2016
Cyanide, Total						
	SW9012A			Prep Date: 12/23/2016		Analyst: MD

Qualifiers: ND - Not Detected at the Reporting Limit
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 HT - Sample received past holding time
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 R - RPD outside accepted recovery limits
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-013

Client Sample ID: RPM-SB-39-1
Collection Date: 12/21/2016 10:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Total	SW9012A				Prep Date: 12/23/2016	Analyst: MD
Cyanide	0.52	0.32		mg/Kg-dry	1	12/27/2016
pH (25 °C)	SW9045C				Prep Date: 12/22/2016	Analyst: PBG
pH	9.8			pH Units	1	12/22/2016
Percent Moisture	D2974				Prep Date: 12/22/2016	Analyst: RW
Percent Moisture	21.3	0.2	*	wt%	1	12/23/2016

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120690 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120690-014

Client Sample ID: RPM-SB-39-2
 Collection Date: 12/21/2016 10:55:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/21/2016		Analyst: RRS
Acetone	ND	0.092		mg/Kg-dry	1	12/23/2016
Benzene	ND	0.0061		mg/Kg-dry	1	12/23/2016
Bromodichloromethane	ND	0.0061		mg/Kg-dry	1	12/23/2016
Bromoform	ND	0.0061		mg/Kg-dry	1	12/23/2016
Bromomethane	ND	0.012		mg/Kg-dry	1	12/23/2016
2-Butanone	ND	0.092		mg/Kg-dry	1	12/23/2016
Carbon disulfide	ND	0.061		mg/Kg-dry	1	12/23/2016
Carbon tetrachloride	ND	0.0061		mg/Kg-dry	1	12/23/2016
Chlorobenzene	ND	0.0061		mg/Kg-dry	1	12/23/2016
Chloroethane	ND	0.012		mg/Kg-dry	1	12/23/2016
Chloroform	ND	0.0061		mg/Kg-dry	1	12/23/2016
Chloromethane	ND	0.012		mg/Kg-dry	1	12/23/2016
Dibromochloromethane	ND	0.0061		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethane	ND	0.0061		mg/Kg-dry	1	12/23/2016
1,2-Dichloroethane	ND	0.0061		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethene	ND	0.0061		mg/Kg-dry	1	12/23/2016
cis-1,2-Dichloroethene	ND	0.0061		mg/Kg-dry	1	12/23/2016
trans-1,2-Dichloroethene	ND	0.0061		mg/Kg-dry	1	12/23/2016
1,2-Dichloropropane	ND	0.0061		mg/Kg-dry	1	12/23/2016
cis-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	12/23/2016
trans-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	12/23/2016
Ethylbenzene	ND	0.0061		mg/Kg-dry	1	12/23/2016
2-Hexanone	ND	0.024		mg/Kg-dry	1	12/23/2016
4-Methyl-2-pentanone	ND	0.024		mg/Kg-dry	1	12/23/2016
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/23/2016
Methyl tert-butyl ether	ND	0.0061		mg/Kg-dry	1	12/23/2016
Styrene	ND	0.0061		mg/Kg-dry	1	12/23/2016
1,1,2,2-Tetrachloroethane	ND	0.0061		mg/Kg-dry	1	12/23/2016
Tetrachloroethene	ND	0.0061		mg/Kg-dry	1	12/23/2016
Toluene	ND	0.0061		mg/Kg-dry	1	12/23/2016
1,1,1-Trichloroethane	ND	0.0061		mg/Kg-dry	1	12/23/2016
1,1,2-Trichloroethane	ND	0.0061		mg/Kg-dry	1	12/23/2016
Trichloroethene	ND	0.0061		mg/Kg-dry	1	12/23/2016
Vinyl chloride	ND	0.0061		mg/Kg-dry	1	12/23/2016
Xylenes, Total	ND	0.018		mg/Kg-dry	1	12/23/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Acenaphthene	ND	0.034		mg/Kg-dry	1	12/28/2016
Acenaphthylene	ND	0.034		mg/Kg-dry	1	12/28/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-014

Client Sample ID: RPM-SB-39-2
Collection Date: 12/21/2016 10:55:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM	
Anthracene	ND	0.034		mg/Kg-dry	1	12/28/2016
Benz(a)anthracene	ND	0.034		mg/Kg-dry	1	12/28/2016
Benzo(a)pyrene	ND	0.034		mg/Kg-dry	1	12/28/2016
Benzo(b)fluoranthene	ND	0.034		mg/Kg-dry	1	12/28/2016
Benzo(g,h,i)perylene	ND	0.034		mg/Kg-dry	1	12/28/2016
Benzo(k)fluoranthene	ND	0.034		mg/Kg-dry	1	12/28/2016
Chrysene	ND	0.034		mg/Kg-dry	1	12/28/2016
Dibenz(a,h)anthracene	ND	0.034		mg/Kg-dry	1	12/28/2016
Fluoranthene	ND	0.034		mg/Kg-dry	1	12/28/2016
Fluorene	ND	0.034		mg/Kg-dry	1	12/28/2016
Indeno(1,2,3-cd)pyrene	ND	0.034		mg/Kg-dry	1	12/28/2016
Naphthalene	ND	0.034		mg/Kg-dry	1	12/28/2016
Phenanthrene	ND	0.034		mg/Kg-dry	1	12/28/2016
Pyrene	ND	0.034		mg/Kg-dry	1	12/28/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/27/2016		Analyst: GVC	
Aroclor 1016	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1221	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1232	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1242	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1248	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1254	ND	0.083		mg/Kg-dry	1	12/27/2016
Aroclor 1260	ND	0.083		mg/Kg-dry	1	12/27/2016
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Aluminum	1200	18		mg/Kg-dry	10	12/28/2016
Antimony	ND	3.6		mg/Kg-dry	10	12/28/2016
Arsenic	1.6	0.90		mg/Kg-dry	10	12/28/2016
Barium	5.7	0.90		mg/Kg-dry	10	12/28/2016
Beryllium	ND	0.45		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.45		mg/Kg-dry	10	12/28/2016
Calcium	41000	54		mg/Kg-dry	10	12/28/2016
Chromium	4.0	0.90		mg/Kg-dry	10	12/28/2016
Cobalt	2.6	0.90		mg/Kg-dry	10	12/28/2016
Copper	2.9	2.2		mg/Kg-dry	10	12/28/2016
Iron	3000	270		mg/Kg-dry	100	12/27/2016
Lead	3.5	0.45		mg/Kg-dry	10	12/28/2016
Magnesium	21000	27		mg/Kg-dry	10	12/28/2016
Manganese	190	0.90		mg/Kg-dry	10	12/28/2016

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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120690 Revision 1
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120690-014

Client Sample ID: RPM-SB-39-2
 Collection Date: 12/21/2016 10:55:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Nickel	4.1	0.90		mg/Kg-dry	10	12/28/2016
Potassium	220	27		mg/Kg-dry	10	12/28/2016
Selenium	ND	0.90		mg/Kg-dry	10	12/28/2016
Silver	ND	0.90		mg/Kg-dry	10	12/28/2016
Sodium	100	54		mg/Kg-dry	10	12/28/2016
Thallium	ND	0.90		mg/Kg-dry	10	12/28/2016
Vanadium	14	0.90		mg/Kg-dry	10	12/28/2016
Zinc	17	4.5		mg/Kg-dry	10	12/28/2016
Mercury	SW7471A		Prep Date: 12/27/2016		Analyst: LB	
Mercury	ND	0.019		mg/Kg-dry	1	12/28/2016
Cyanide, Total	SW9012A		Prep Date: 12/23/2016		Analyst: MD	
Cyanide	ND	0.26		mg/Kg-dry	1	12/27/2016
pH (25 °C)	SW9045C		Prep Date: 12/22/2016		Analyst: PBG	
pH	8.9			pH Units	1	12/22/2016
Percent Moisture	D2974		Prep Date: 12/22/2016		Analyst: RW	
Percent Moisture	4.4	0.2	*	wt%	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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RL - Reporting / Quantitation Limit for the analysis
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Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-015

Client Sample ID: RPM-SB-39-3
Collection Date: 12/21/2016 11:05:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/21/2016		Analyst: RRS
Acetone	ND	0.085		mg/Kg-dry	1	12/23/2016
Benzene	ND	0.0057		mg/Kg-dry	1	12/23/2016
Bromodichloromethane	ND	0.0057		mg/Kg-dry	1	12/23/2016
Bromoform	ND	0.0057		mg/Kg-dry	1	12/23/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/23/2016
2-Butanone	ND	0.085		mg/Kg-dry	1	12/23/2016
Carbon disulfide	ND	0.057		mg/Kg-dry	1	12/23/2016
Carbon tetrachloride	ND	0.0057		mg/Kg-dry	1	12/23/2016
Chlorobenzene	ND	0.0057		mg/Kg-dry	1	12/23/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/23/2016
Chloroform	ND	0.0057		mg/Kg-dry	1	12/23/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/23/2016
Dibromochloromethane	ND	0.0057		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/23/2016
1,2-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/23/2016
1,1-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/23/2016
cis-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/23/2016
trans-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/23/2016
1,2-Dichloropropane	ND	0.0057		mg/Kg-dry	1	12/23/2016
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/23/2016
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	12/23/2016
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	12/23/2016
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/23/2016
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/23/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/23/2016
Methyl tert-butyl ether	ND	0.0057		mg/Kg-dry	1	12/23/2016
Styrene	ND	0.0057		mg/Kg-dry	1	12/23/2016
1,1,2,2-Tetrachloroethane	ND	0.0057		mg/Kg-dry	1	12/23/2016
Tetrachloroethene	ND	0.0057		mg/Kg-dry	1	12/23/2016
Toluene	ND	0.0057		mg/Kg-dry	1	12/23/2016
1,1,1-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/23/2016
1,1,2-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/23/2016
Trichloroethene	ND	0.0057		mg/Kg-dry	1	12/23/2016
Vinyl chloride	ND	0.0057		mg/Kg-dry	1	12/23/2016
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/23/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	12/28/2016
Acenaphthylene	ND	0.039		mg/Kg-dry	1	12/28/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

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Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: January 11, 2017

ANALYTICAL RESULTS

Date Printed: January 11, 2017

Client: GSG Consultants, Inc.
Work Order: 16120690 Revision 1
Project: CTA RPM, Chicago, IL
Lab ID: 16120690-015

Client Sample ID: RPM-SB-39-3
Collection Date: 12/21/2016 11:05:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/27/2016		Analyst: DM	
Anthracene	ND	0.039		mg/Kg-dry	1	12/28/2016
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	12/28/2016
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	12/28/2016
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	12/28/2016
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	12/28/2016
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	12/28/2016
Chrysene	ND	0.039		mg/Kg-dry	1	12/28/2016
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	12/28/2016
Fluoranthene	ND	0.039		mg/Kg-dry	1	12/28/2016
Fluorene	ND	0.039		mg/Kg-dry	1	12/28/2016
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	12/28/2016
Naphthalene	ND	0.039		mg/Kg-dry	1	12/28/2016
Phenanthrene	ND	0.039		mg/Kg-dry	1	12/28/2016
Pyrene	ND	0.039		mg/Kg-dry	1	12/28/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/27/2016		Analyst: GVC	
Aroclor 1016	ND	0.095		mg/Kg-dry	1	12/27/2016
Aroclor 1221	ND	0.095		mg/Kg-dry	1	12/27/2016
Aroclor 1232	ND	0.095		mg/Kg-dry	1	12/27/2016
Aroclor 1242	ND	0.095		mg/Kg-dry	1	12/27/2016
Aroclor 1248	ND	0.095		mg/Kg-dry	1	12/27/2016
Aroclor 1254	ND	0.095		mg/Kg-dry	1	12/27/2016
Aroclor 1260	ND	0.095		mg/Kg-dry	1	12/27/2016
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 12/27/2016		Analyst: JG	
Arsenic	2.0	1.1		mg/Kg-dry	10	12/28/2016
Barium	3.9	1.1		mg/Kg-dry	10	12/28/2016
Cadmium	ND	0.54		mg/Kg-dry	10	12/28/2016
Chromium	3.2	1.1		mg/Kg-dry	10	12/28/2016
Lead	3.7	0.54		mg/Kg-dry	10	12/28/2016
Selenium	ND	1.1		mg/Kg-dry	10	12/28/2016
Silver	ND	1.1		mg/Kg-dry	10	12/28/2016
Mercury						
	SW7471A		Prep Date: 12/27/2016		Analyst: LB	
Mercury	ND	0.023		mg/Kg-dry	1	12/28/2016
Percent Moisture						
	D2974		Prep Date: 12/22/2016		Analyst: RW	
Percent Moisture	16.7	0.2	*	wt%	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

Company: GSG Consultants
 Project Number: Client Tracking No.:
 Project Name: CIA RPM
 Project Location: Chicago, IL
 Sampler(s): Nicole Wahlborg
 Report To: Scott Letzel Phone: (312) 733-6262
 QC Level: 1 2 3 4
 Fax:
 e-mail: Letzel@GSG-consultants.com

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers
RPM-SB-43-1	12/21/16	910	S	X	X		4
RPM-SB-43-2		920					
RPM-SB-43-3		930					
RPM-SB-42-1		935					
RPM-SB-42-2		945					
RPM-SB-42-3		950					
RPM-SB-41-1		955					
RPM-SB-41-2		1005					
RPM-SB-41-3		1015					
RPM-SB-40-1		1020					
RPM-SB-40-2		1030					
RPM-SB-40-3		1040					
RPM-SB-39-1		1045					
RPM-SB-39-2		1055					
RPM-SB-39-3		1105					

Additional Information:	Lab No.:
	100
	101
	102
	103
	104
	105
	106
	107
	108
	109
	110
	111
	112
	113
	114
	115

Turn Around Time (Days):	Results Needed:
1	10
2	
3	
4	
5-7	

Quote No.:
 P.O. No.:
 Turn Around Time (Days): 5-7 10
 Results Needed:
 Additional Information: / / am/pm
 Lab No.:

Relinquished by: (Signature) [Signature] Date/Time: 12/21/16 1600
 Received by: (Signature) [Signature] Date/Time: 12/21/16 1600
 Relinquished by: (Signature) [Signature] Date/Time:
 Received by: (Signature) [Signature] Date/Time:
 Relinquished by: (Signature) [Signature] Date/Time:
 Received by: (Signature) [Signature] Date/Time:

Comments:
 Laboratory Work Order No.: 16120690
 Received on Ice: Yes No
 Temperature: On Ice °C

Preservation Code: A = None B = HNO₃ C = NaOH
 D = H₂SO₄ E = HCl F = 5035/EnCore G = Other

Sample Receipt Checklist

Client Name **GSG**
 Work Order Number **16120690**

Date and Time Received: **12/21/2016 4:00:00 PM**
 Received by: **JDR**

Checklist completed by:  _____
Signature Date: **12/21/16**

Reviewed by:  _____
Initials Date: **12/22/16**

Matrix: _____ Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature On Ice °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Chain of custody signed when relinquished and received? _____

Chain of custody agrees with sample labels/containers? _____

Comments: _____

Samples in proper container/bottle? _____

Sample containers intact? _____

Sufficient sample volume for indicated test? _____

All samples received within holding time? _____

Container or Temp Blank temperature in compliance? _____

Water - VOA vials have zero headspace? _____

Water - Samples pH checked? _____

Water - Samples properly preserved? _____

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

Any No response must be detailed in the comments section below.

Chain of custody signed when relinquished and received? _____

Chain of custody agrees with sample labels/containers? _____

Comments: _____

Samples in proper container/bottle? _____

Sample containers intact? _____

Sufficient sample volume for indicated test? _____

All samples received within holding time? _____

Container or Temp Blank temperature in compliance? _____

Water - VOA vials have zero headspace? _____

CTA RPM, Edgewater 16120531

Craig Chawla

From: Thaddeus Cagney [tcagney@gsg-consultants.com]
Sent: Monday, January 09, 2017 8:32 AM
To: Craig Chawla; Scott Letzel
Subject: RE: CTA RPM, Chicago, IL 16120690

Craig

We need TCLP lead run on the following samples:

SB-39-1 (STAT WO# 16120690)
SB-52-1 (STAT WO# 16120599)

Ted Cagney, LPG

GSG CONSULTANTS, INC.

312-733-6262 office
312-880-8941 cell

STAT Analysis Corporation

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January 04, 2017

GSG Consultants, Inc.
855 W. Adams
Chicago, IL 60607

Telephone: (312) 733-6262
Fax: (312) 733-5612

Analytical Report for STAT Work Order: 16120729 Revision 0

RE: CTA RPM, Chicago, IL

Dear Scott Letzel:

STAT Analysis received 3 samples for the referenced project on 12/22/2016 12:45:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,


Justice Kwateng
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: GSG Consultants, Inc.
Project: CTA RPM, Chicago, IL
Work Order: 16120729 Revision 0

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
16120729-001A	RPM-SB-38-1		12/22/2016 9:10:00 AM	12/22/2016
16120729-001B	RPM-SB-38-1		12/22/2016 9:10:00 AM	12/22/2016
16120729-002A	RPM-SB-38-2		12/22/2016 9:20:00 AM	12/22/2016
16120729-002B	RPM-SB-38-2		12/22/2016 9:20:00 AM	12/22/2016
16120729-003A	RPM-SB-38-3		12/22/2016 9:30:00 AM	12/22/2016
16120729-003B	RPM-SB-38-3		12/22/2016 9:30:00 AM	12/22/2016

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120729 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120729-001

Client Sample ID: RPM-SB-38-1
 Collection Date: 12/22/2016 9:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/22/2016		Analyst: PS
Acetone	ND	0.083		mg/Kg-dry	1	12/26/2016
Benzene	ND	0.0055		mg/Kg-dry	1	12/26/2016
Bromodichloromethane	ND	0.0055		mg/Kg-dry	1	12/26/2016
Bromoform	ND	0.0055		mg/Kg-dry	1	12/26/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/26/2016
2-Butanone	ND	0.083		mg/Kg-dry	1	12/26/2016
Carbon disulfide	ND	0.055		mg/Kg-dry	1	12/26/2016
Carbon tetrachloride	ND	0.0055		mg/Kg-dry	1	12/26/2016
Chlorobenzene	ND	0.0055		mg/Kg-dry	1	12/26/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/26/2016
Chloroform	ND	0.0055		mg/Kg-dry	1	12/26/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/26/2016
Dibromochloromethane	ND	0.0055		mg/Kg-dry	1	12/26/2016
1,1-Dichloroethane	ND	0.0055		mg/Kg-dry	1	12/26/2016
1,2-Dichloroethane	ND	0.0055		mg/Kg-dry	1	12/26/2016
1,1-Dichloroethene	ND	0.0055		mg/Kg-dry	1	12/26/2016
cis-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	12/26/2016
trans-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	12/26/2016
1,2-Dichloropropane	ND	0.0055		mg/Kg-dry	1	12/26/2016
cis-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	12/26/2016
trans-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	12/26/2016
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	12/26/2016
2-Hexanone	ND	0.022		mg/Kg-dry	1	12/26/2016
4-Methyl-2-pentanone	ND	0.022		mg/Kg-dry	1	12/26/2016
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/26/2016
Methyl tert-butyl ether	ND	0.0055		mg/Kg-dry	1	12/26/2016
Styrene	ND	0.0055		mg/Kg-dry	1	12/26/2016
1,1,2,2-Tetrachloroethane	ND	0.0055		mg/Kg-dry	1	12/26/2016
Tetrachloroethene	ND	0.0055		mg/Kg-dry	1	12/26/2016
Toluene	ND	0.0055		mg/Kg-dry	1	12/26/2016
1,1,1-Trichloroethane	ND	0.0055		mg/Kg-dry	1	12/26/2016
1,1,2-Trichloroethane	ND	0.0055		mg/Kg-dry	1	12/26/2016
Trichloroethene	ND	0.0055		mg/Kg-dry	1	12/26/2016
Vinyl chloride	ND	0.0055		mg/Kg-dry	1	12/26/2016
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/26/2016
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/28/2016		Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	12/29/2016
Acenaphthylene	ND	0.037		mg/Kg-dry	1	12/29/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120729 Revision 0
Project: CTA RPM, Chicago, IL
Lab ID: 16120729-001

Client Sample ID: RPM-SB-38-1
Collection Date: 12/22/2016 9:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/28/2016		Analyst: DM
Aniline	ND	0.38		mg/Kg-dry	1	12/29/2016
Anthracene	0.13	0.037		mg/Kg-dry	1	12/29/2016
Benz(a)anthracene	0.50	0.037		mg/Kg-dry	1	12/29/2016
Benzo(a)pyrene	0.47	0.037		mg/Kg-dry	1	12/29/2016
Benzo(b)fluoranthene	0.48	0.037		mg/Kg-dry	1	12/29/2016
Benzo(g,h,i)perylene	0.29	0.037		mg/Kg-dry	1	12/29/2016
Benzo(k)fluoranthene	0.39	0.037		mg/Kg-dry	1	12/29/2016
Benzoic acid	ND	0.94		mg/Kg-dry	1	12/29/2016
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	12/29/2016
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	12/29/2016
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	12/29/2016
Bis(2-ethylhexyl)phthalate	ND	0.94		mg/Kg-dry	1	12/29/2016
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	12/29/2016
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	12/29/2016
Carbazole	ND	0.19		mg/Kg-dry	1	12/29/2016
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	12/29/2016
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	12/29/2016
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	12/29/2016
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	12/29/2016
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	12/29/2016
Chrysene	0.58	0.037		mg/Kg-dry	1	12/29/2016
Dibenz(a,h)anthracene	0.16	0.037		mg/Kg-dry	1	12/29/2016
Dibenzofuran	ND	0.19		mg/Kg-dry	1	12/29/2016
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	12/29/2016
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	12/29/2016
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	12/29/2016
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	12/29/2016
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	12/29/2016
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	12/29/2016
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	12/29/2016
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	12/29/2016
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	12/29/2016
2,4-Dinitrophenol	ND	0.94		mg/Kg-dry	1	12/29/2016
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	12/29/2016
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	12/29/2016
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	12/29/2016
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	12/29/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120729 Revision 0
Project: CTA RPM, Chicago, IL
Lab ID: 16120729-001

Client Sample ID: RPM-SB-38-1
Collection Date: 12/22/2016 9:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 12/28/2016		Analyst: DM
Fluoranthene	0.89	0.037		mg/Kg-dry	1	12/29/2016
Fluorene	ND	0.037		mg/Kg-dry	1	12/29/2016
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	12/29/2016
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	12/29/2016
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	12/29/2016
Hexachloroethane	ND	0.19		mg/Kg-dry	1	12/29/2016
Indeno(1,2,3-cd)pyrene	0.25	0.037		mg/Kg-dry	1	12/29/2016
Isophorone	ND	0.19		mg/Kg-dry	1	12/29/2016
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	12/29/2016
2-Methylphenol	ND	0.19		mg/Kg-dry	1	12/29/2016
4-Methylphenol	ND	0.19		mg/Kg-dry	1	12/29/2016
Naphthalene	ND	0.037		mg/Kg-dry	1	12/29/2016
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	12/29/2016
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	12/29/2016
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	12/29/2016
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	12/29/2016
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	12/29/2016
Nitrobenzene	ND	0.037		mg/Kg-dry	1	12/29/2016
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	12/29/2016
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	12/29/2016
N-Nitrosodiphenylamine	ND	0.037		mg/Kg-dry	1	12/29/2016
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	12/29/2016
Pentachlorophenol	ND	0.037		mg/Kg-dry	1	12/29/2016
Phenanthrene	0.54	0.037		mg/Kg-dry	1	12/29/2016
Phenol	ND	0.19		mg/Kg-dry	1	12/29/2016
Pyrene	0.85	0.037		mg/Kg-dry	1	12/29/2016
Pyridine	ND	0.76		mg/Kg-dry	1	12/29/2016
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	12/29/2016
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	12/29/2016
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	12/29/2016
PCBs		SW8082 (SW3550B)		Prep Date: 12/28/2016		Analyst: GVC
Aroclor 1016	ND	0.091		mg/Kg-dry	1	12/28/2016
Aroclor 1221	ND	0.091		mg/Kg-dry	1	12/28/2016
Aroclor 1232	ND	0.091		mg/Kg-dry	1	12/28/2016
Aroclor 1242	ND	0.091		mg/Kg-dry	1	12/28/2016
Aroclor 1248	ND	0.091		mg/Kg-dry	1	12/28/2016
Aroclor 1254	ND	0.091		mg/Kg-dry	1	12/28/2016
Aroclor 1260	ND	0.091		mg/Kg-dry	1	12/28/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120729 Revision 0
Project: CTA RPM, Chicago, IL
Lab ID: 16120729-001

Client Sample ID: RPM-SB-38-1
Collection Date: 12/22/2016 9:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides		SW8081 (SW3550B)		Prep Date: 12/28/2016		Analyst: GVC
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	12/28/2016
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	12/28/2016
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	12/28/2016
Aldrin	ND	0.0018		mg/Kg-dry	1	12/28/2016
alpha-BHC	ND	0.0018		mg/Kg-dry	1	12/28/2016
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	12/28/2016
beta-BHC	ND	0.0018		mg/Kg-dry	1	12/28/2016
Chlordane	ND	0.018		mg/Kg-dry	1	12/28/2016
delta-BHC	ND	0.0018		mg/Kg-dry	1	12/28/2016
Dieldrin	ND	0.0018		mg/Kg-dry	1	12/28/2016
Endosulfan I	ND	0.0018		mg/Kg-dry	1	12/28/2016
Endosulfan II	ND	0.0018		mg/Kg-dry	1	12/28/2016
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	12/28/2016
Endrin	ND	0.0018		mg/Kg-dry	1	12/28/2016
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	12/28/2016
Endrin ketone	ND	0.0018		mg/Kg-dry	1	12/28/2016
gamma-BHC	ND	0.0018		mg/Kg-dry	1	12/28/2016
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	12/28/2016
Heptachlor	ND	0.0018		mg/Kg-dry	1	12/28/2016
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	12/28/2016
Methoxychlor	ND	0.0018		mg/Kg-dry	1	12/28/2016
Toxaphene	ND	0.038		mg/Kg-dry	1	12/28/2016
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 12/29/2016		Analyst: JG
Aluminum	5500	20		mg/Kg-dry	10	12/31/2016
Antimony	ND	2.0		mg/Kg-dry	10	12/31/2016
Arsenic	7.4	1.0		mg/Kg-dry	10	12/31/2016
Barium	210	1.0		mg/Kg-dry	10	12/31/2016
Beryllium	0.59	0.51		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.51		mg/Kg-dry	10	12/31/2016
Calcium	48000	61		mg/Kg-dry	10	12/31/2016
Chromium	7.7	1.0		mg/Kg-dry	10	12/31/2016
Cobalt	3.7	1.0		mg/Kg-dry	10	12/31/2016
Copper	49	2.6		mg/Kg-dry	10	12/31/2016
Iron	7900	31		mg/Kg-dry	10	12/31/2016
Lead	200	0.51		mg/Kg-dry	10	12/31/2016
Magnesium	22000	31		mg/Kg-dry	10	12/31/2016
Manganese	320	1.0		mg/Kg-dry	10	12/31/2016
Nickel	8.3	1.0		mg/Kg-dry	10	12/31/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120729 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120729-001

Client Sample ID: RPM-SB-38-1
 Collection Date: 12/22/2016 9:10:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/29/2016		Analyst: JG	
Potassium	640	31		mg/Kg-dry	10	12/31/2016
Selenium	1.2	1.0		mg/Kg-dry	10	12/31/2016
Silver	ND	1.0		mg/Kg-dry	10	12/31/2016
Sodium	420	61		mg/Kg-dry	10	12/31/2016
Thallium	ND	1.0		mg/Kg-dry	10	12/31/2016
Vanadium	14	1.0		mg/Kg-dry	10	12/31/2016
Zinc	90	5.1		mg/Kg-dry	10	12/31/2016
Mercury	SW7471A		Prep Date: 12/27/2016		Analyst: LB	
Mercury	0.092	0.021		mg/Kg-dry	1	12/28/2016
Cyanide, Total	SW9012A		Prep Date: 12/23/2016		Analyst: MD	
Cyanide	ND	0.29		mg/Kg-dry	1	12/27/2016
pH (25 °C)	SW9045C		Prep Date: 12/23/2016		Analyst: PBG	
pH	8.2			pH Units	1	12/23/2016
Percent Moisture	D2974		Prep Date: 12/23/2016		Analyst: GH	
Percent Moisture	12.3	0.2	*	wt%	1	12/24/2016

Qualifiers:
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120729 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120729-002

Client Sample ID: RPM-SB-38-2
 Collection Date: 12/22/2016 9:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/22/2016		Analyst: PS
Acetone	ND	0.093		mg/Kg-dry	1	12/26/2016
Benzene	ND	0.0062		mg/Kg-dry	1	12/26/2016
Bromodichloromethane	ND	0.0062		mg/Kg-dry	1	12/26/2016
Bromoform	ND	0.0062		mg/Kg-dry	1	12/26/2016
Bromomethane	ND	0.012		mg/Kg-dry	1	12/26/2016
2-Butanone	ND	0.093		mg/Kg-dry	1	12/26/2016
Carbon disulfide	ND	0.062		mg/Kg-dry	1	12/26/2016
Carbon tetrachloride	ND	0.0062		mg/Kg-dry	1	12/26/2016
Chlorobenzene	ND	0.0062		mg/Kg-dry	1	12/26/2016
Chloroethane	ND	0.012		mg/Kg-dry	1	12/26/2016
Chloroform	ND	0.0062		mg/Kg-dry	1	12/26/2016
Chloromethane	ND	0.012		mg/Kg-dry	1	12/26/2016
Dibromochloromethane	ND	0.0062		mg/Kg-dry	1	12/26/2016
1,1-Dichloroethane	ND	0.0062		mg/Kg-dry	1	12/26/2016
1,2-Dichloroethane	ND	0.0062		mg/Kg-dry	1	12/26/2016
1,1-Dichloroethene	ND	0.0062		mg/Kg-dry	1	12/26/2016
cis-1,2-Dichloroethene	ND	0.0062		mg/Kg-dry	1	12/26/2016
trans-1,2-Dichloroethene	ND	0.0062		mg/Kg-dry	1	12/26/2016
1,2-Dichloropropane	ND	0.0062		mg/Kg-dry	1	12/26/2016
cis-1,3-Dichloropropene	ND	0.0025		mg/Kg-dry	1	12/26/2016
trans-1,3-Dichloropropene	ND	0.0025		mg/Kg-dry	1	12/26/2016
Ethylbenzene	ND	0.0062		mg/Kg-dry	1	12/26/2016
2-Hexanone	ND	0.025		mg/Kg-dry	1	12/26/2016
4-Methyl-2-pentanone	ND	0.025		mg/Kg-dry	1	12/26/2016
Methylene chloride	ND	0.014		mg/Kg-dry	1	12/26/2016
Methyl tert-butyl ether	ND	0.0062		mg/Kg-dry	1	12/26/2016
Styrene	ND	0.0062		mg/Kg-dry	1	12/26/2016
1,1,2,2-Tetrachloroethane	ND	0.0062		mg/Kg-dry	1	12/26/2016
Tetrachloroethene	ND	0.0062		mg/Kg-dry	1	12/26/2016
Toluene	ND	0.0062		mg/Kg-dry	1	12/26/2016
1,1,1-Trichloroethane	ND	0.0062		mg/Kg-dry	1	12/26/2016
1,1,2-Trichloroethane	ND	0.0062		mg/Kg-dry	1	12/26/2016
Trichloroethene	ND	0.0062		mg/Kg-dry	1	12/26/2016
Vinyl chloride	ND	0.0062		mg/Kg-dry	1	12/26/2016
Xylenes, Total	ND	0.019		mg/Kg-dry	1	12/26/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/28/2016		Analyst: DM
Acenaphthene	ND	0.034		mg/Kg-dry	1	12/29/2016
Acenaphthylene	ND	0.034		mg/Kg-dry	1	12/29/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120729 Revision 0
Project: CTA RPM, Chicago, IL
Lab ID: 16120729-002

Client Sample ID: RPM-SB-38-2
Collection Date: 12/22/2016 9:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/28/2016		Analyst: DM	
Anthracene	ND	0.034		mg/Kg-dry	1	12/29/2016
Benz(a)anthracene	ND	0.034		mg/Kg-dry	1	12/29/2016
Benzo(a)pyrene	ND	0.034		mg/Kg-dry	1	12/29/2016
Benzo(b)fluoranthene	ND	0.034		mg/Kg-dry	1	12/29/2016
Benzo(g,h,i)perylene	ND	0.034		mg/Kg-dry	1	12/29/2016
Benzo(k)fluoranthene	ND	0.034		mg/Kg-dry	1	12/29/2016
Chrysene	ND	0.034		mg/Kg-dry	1	12/29/2016
Dibenz(a,h)anthracene	ND	0.034		mg/Kg-dry	1	12/29/2016
Fluoranthene	ND	0.034		mg/Kg-dry	1	12/29/2016
Fluorene	ND	0.034		mg/Kg-dry	1	12/29/2016
Indeno(1,2,3-cd)pyrene	ND	0.034		mg/Kg-dry	1	12/29/2016
Naphthalene	ND	0.034		mg/Kg-dry	1	12/29/2016
Phenanthrene	ND	0.034		mg/Kg-dry	1	12/29/2016
Pyrene	ND	0.034		mg/Kg-dry	1	12/29/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/28/2016		Analyst: GVC	
Aroclor 1016	ND	0.083		mg/Kg-dry	1	12/28/2016
Aroclor 1221	ND	0.083		mg/Kg-dry	1	12/28/2016
Aroclor 1232	ND	0.083		mg/Kg-dry	1	12/28/2016
Aroclor 1242	ND	0.083		mg/Kg-dry	1	12/28/2016
Aroclor 1248	ND	0.083		mg/Kg-dry	1	12/28/2016
Aroclor 1254	ND	0.083		mg/Kg-dry	1	12/28/2016
Aroclor 1260	ND	0.083		mg/Kg-dry	1	12/28/2016
Pesticides						
	SW8081 (SW3550B)		Prep Date: 12/28/2016		Analyst: GVC	
4,4'-DDD	ND	0.0017		mg/Kg-dry	1	12/28/2016
4,4'-DDE	ND	0.0017		mg/Kg-dry	1	12/28/2016
4,4'-DDT	ND	0.0017		mg/Kg-dry	1	12/28/2016
Aldrin	ND	0.0017		mg/Kg-dry	1	12/28/2016
alpha-BHC	ND	0.0017		mg/Kg-dry	1	12/28/2016
alpha-Chlordane	ND	0.0017		mg/Kg-dry	1	12/28/2016
beta-BHC	ND	0.0017		mg/Kg-dry	1	12/28/2016
Chlordane	ND	0.017		mg/Kg-dry	1	12/28/2016
delta-BHC	ND	0.0017		mg/Kg-dry	1	12/28/2016
Dieldrin	ND	0.0017		mg/Kg-dry	1	12/28/2016
Endosulfan I	ND	0.0017		mg/Kg-dry	1	12/28/2016
Endosulfan II	ND	0.0017		mg/Kg-dry	1	12/28/2016
Endosulfan sulfate	ND	0.0017		mg/Kg-dry	1	12/28/2016
Endrin	ND	0.0017		mg/Kg-dry	1	12/28/2016

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120729 Revision 0
Project: CTA RPM, Chicago, IL
Lab ID: 16120729-002

Client Sample ID: RPM-SB-38-2
Collection Date: 12/22/2016 9:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)		Prep Date: 12/28/2016		Analyst: GVC	
Endrin aldehyde	ND	0.0017		mg/Kg-dry	1	12/28/2016
Endrin ketone	ND	0.0017		mg/Kg-dry	1	12/28/2016
gamma-BHC	ND	0.0017		mg/Kg-dry	1	12/28/2016
gamma-Chlordane	ND	0.0017		mg/Kg-dry	1	12/28/2016
Heptachlor	ND	0.0017		mg/Kg-dry	1	12/28/2016
Heptachlor epoxide	ND	0.0017		mg/Kg-dry	1	12/28/2016
Methoxychlor	ND	0.0017		mg/Kg-dry	1	12/28/2016
Toxaphene	ND	0.034		mg/Kg-dry	1	12/28/2016
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/29/2016		Analyst: JG	
Aluminum	1400	18		mg/Kg-dry	10	12/31/2016
Antimony	ND	1.8		mg/Kg-dry	10	12/31/2016
Arsenic	5.9	0.91		mg/Kg-dry	10	12/31/2016
Barium	3.4	0.91		mg/Kg-dry	10	12/31/2016
Beryllium	ND	0.46		mg/Kg-dry	10	12/31/2016
Cadmium	ND	0.46		mg/Kg-dry	10	12/31/2016
Calcium	42000	55		mg/Kg-dry	10	12/31/2016
Chromium	3.5	0.91		mg/Kg-dry	10	12/31/2016
Cobalt	3.6	0.91		mg/Kg-dry	10	12/31/2016
Copper	4.5	2.3		mg/Kg-dry	10	12/31/2016
Iron	5700	27		mg/Kg-dry	10	12/31/2016
Lead	3.3	0.46		mg/Kg-dry	10	12/31/2016
Magnesium	24000	27		mg/Kg-dry	10	12/31/2016
Manganese	270	0.91		mg/Kg-dry	10	12/31/2016
Nickel	5.3	0.91		mg/Kg-dry	10	12/31/2016
Potassium	270	27		mg/Kg-dry	10	12/31/2016
Selenium	ND	0.91		mg/Kg-dry	10	12/31/2016
Silver	ND	0.91		mg/Kg-dry	10	12/31/2016
Sodium	120	55		mg/Kg-dry	10	12/31/2016
Thallium	ND	0.91		mg/Kg-dry	10	12/31/2016
Vanadium	5.6	0.91		mg/Kg-dry	10	12/31/2016
Zinc	16	4.6		mg/Kg-dry	10	12/31/2016
Mercury	SW7471A		Prep Date: 12/27/2016		Analyst: LB	
Mercury	ND	0.020		mg/Kg-dry	1	12/28/2016
Cyanide, Total	SW9012A		Prep Date: 12/23/2016		Analyst: MD	
Cyanide	ND	0.26		mg/Kg-dry	1	12/27/2016
pH (25 °C)	SW9045C		Prep Date: 12/23/2016		Analyst: PBG	

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120729 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120729-002

Client Sample ID: RPM-SB-38-2
 Collection Date: 12/22/2016 9:20:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH (25 °C)	SW9045C				Prep Date: 12/23/2016	Analyst: PBG
pH	8.6			pH Units	1	12/23/2016
Percent Moisture	D2974				Prep Date: 12/23/2016	Analyst: GH
Percent Moisture	5.0	0.2	*	wt%	1	12/24/2016

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120729 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120729-003

Client Sample ID: RPM-SB-38-3
 Collection Date: 12/22/2016 9:30:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 12/22/2016		Analyst: PS
Acetone	ND	0.080		mg/Kg-dry	1	12/26/2016
Benzene	ND	0.0053		mg/Kg-dry	1	12/26/2016
Bromodichloromethane	ND	0.0053		mg/Kg-dry	1	12/26/2016
Bromoform	ND	0.0053		mg/Kg-dry	1	12/26/2016
Bromomethane	ND	0.011		mg/Kg-dry	1	12/26/2016
2-Butanone	ND	0.080		mg/Kg-dry	1	12/26/2016
Carbon disulfide	ND	0.053		mg/Kg-dry	1	12/26/2016
Carbon tetrachloride	ND	0.0053		mg/Kg-dry	1	12/26/2016
Chlorobenzene	ND	0.0053		mg/Kg-dry	1	12/26/2016
Chloroethane	ND	0.011		mg/Kg-dry	1	12/26/2016
Chloroform	ND	0.0053		mg/Kg-dry	1	12/26/2016
Chloromethane	ND	0.011		mg/Kg-dry	1	12/26/2016
Dibromochloromethane	ND	0.0053		mg/Kg-dry	1	12/26/2016
1,1-Dichloroethane	ND	0.0053		mg/Kg-dry	1	12/26/2016
1,2-Dichloroethane	ND	0.0053		mg/Kg-dry	1	12/26/2016
1,1-Dichloroethene	ND	0.0053		mg/Kg-dry	1	12/26/2016
cis-1,2-Dichloroethene	ND	0.0053		mg/Kg-dry	1	12/26/2016
trans-1,2-Dichloroethene	ND	0.0053		mg/Kg-dry	1	12/26/2016
1,2-Dichloropropane	ND	0.0053		mg/Kg-dry	1	12/26/2016
cis-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	12/26/2016
trans-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	12/26/2016
Ethylbenzene	ND	0.0053		mg/Kg-dry	1	12/26/2016
2-Hexanone	ND	0.021		mg/Kg-dry	1	12/26/2016
4-Methyl-2-pentanone	ND	0.021		mg/Kg-dry	1	12/26/2016
Methylene chloride	ND	0.016		mg/Kg-dry	1	12/26/2016
Methyl tert-butyl ether	ND	0.0053		mg/Kg-dry	1	12/26/2016
Styrene	ND	0.0053		mg/Kg-dry	1	12/26/2016
1,1,2,2-Tetrachloroethane	ND	0.0053		mg/Kg-dry	1	12/26/2016
Tetrachloroethene	ND	0.0053		mg/Kg-dry	1	12/26/2016
Toluene	ND	0.0053		mg/Kg-dry	1	12/26/2016
1,1,1-Trichloroethane	ND	0.0053		mg/Kg-dry	1	12/26/2016
1,1,2-Trichloroethane	ND	0.0053		mg/Kg-dry	1	12/26/2016
Trichloroethene	ND	0.0053		mg/Kg-dry	1	12/26/2016
Vinyl chloride	ND	0.0053		mg/Kg-dry	1	12/26/2016
Xylenes, Total	ND	0.016		mg/Kg-dry	1	12/26/2016
Polynuclear Aromatic Hydrocarbons by GC/MS		SW8270C (SW3550B)		Prep Date: 12/28/2016		Analyst: DM
Acenaphthene	ND	0.036		mg/Kg-dry	1	12/29/2016
Acenaphthylene	ND	0.036		mg/Kg-dry	1	12/29/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 04, 2017

ANALYTICAL RESULTS

Date Printed: January 04, 2017

Client: GSG Consultants, Inc.
Work Order: 16120729 Revision 0
Project: CTA RPM, Chicago, IL
Lab ID: 16120729-003

Client Sample ID: RPM-SB-38-3
Collection Date: 12/22/2016 9:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS						
	SW8270C (SW3550B)		Prep Date: 12/28/2016		Analyst: DM	
Anthracene	ND	0.036		mg/Kg-dry	1	12/29/2016
Benz(a)anthracene	ND	0.036		mg/Kg-dry	1	12/29/2016
Benzo(a)pyrene	ND	0.036		mg/Kg-dry	1	12/29/2016
Benzo(b)fluoranthene	ND	0.036		mg/Kg-dry	1	12/29/2016
Benzo(g,h,i)perylene	ND	0.036		mg/Kg-dry	1	12/29/2016
Benzo(k)fluoranthene	ND	0.036		mg/Kg-dry	1	12/29/2016
Chrysene	ND	0.036		mg/Kg-dry	1	12/29/2016
Dibenz(a,h)anthracene	ND	0.036		mg/Kg-dry	1	12/29/2016
Fluoranthene	ND	0.036		mg/Kg-dry	1	12/29/2016
Fluorene	ND	0.036		mg/Kg-dry	1	12/29/2016
Indeno(1,2,3-cd)pyrene	ND	0.036		mg/Kg-dry	1	12/29/2016
Naphthalene	ND	0.036		mg/Kg-dry	1	12/29/2016
Phenanthrene	ND	0.036		mg/Kg-dry	1	12/29/2016
Pyrene	ND	0.036		mg/Kg-dry	1	12/29/2016
PCBs						
	SW8082 (SW3550B)		Prep Date: 12/27/2016		Analyst: GVC	
Aroclor 1016	ND	0.087		mg/Kg-dry	1	12/27/2016
Aroclor 1221	ND	0.087		mg/Kg-dry	1	12/27/2016
Aroclor 1232	ND	0.087		mg/Kg-dry	1	12/27/2016
Aroclor 1242	ND	0.087		mg/Kg-dry	1	12/27/2016
Aroclor 1248	ND	0.087		mg/Kg-dry	1	12/27/2016
Aroclor 1254	ND	0.087		mg/Kg-dry	1	12/27/2016
Aroclor 1260	ND	0.087		mg/Kg-dry	1	12/27/2016
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 12/29/2016		Analyst: JG	
Arsenic	2.0	0.97		mg/Kg-dry	10	1/1/2017
Barium	3.5	0.97		mg/Kg-dry	10	1/1/2017
Cadmium	ND	0.49		mg/Kg-dry	10	1/1/2017
Chromium	4.2	0.97		mg/Kg-dry	10	1/1/2017
Lead	3.7	0.49		mg/Kg-dry	10	1/1/2017
Selenium	ND	0.97		mg/Kg-dry	10	1/1/2017
Silver	ND	0.97		mg/Kg-dry	10	1/1/2017
Mercury						
	SW7471A		Prep Date: 12/27/2016		Analyst: LB	
Mercury	ND	0.020		mg/Kg-dry	1	12/28/2016
Percent Moisture						
	D2974		Prep Date: 12/23/2016		Analyst: GH	
Percent Moisture	8.7	0.2	*	wt%	1	12/24/2016

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

CHAIN OF CUSTODY RECORD

Company: GSC Consultants Client Tracking No.: _____
 Project Name: CIA RPM
 Project Location: Chicago, IL
 Sampler(s): Nicole Wahlberg
 Report To: Scott Letzel Phone: (312) 733-6161
 QC Level: 1 2 3 4

e-mail: statinfo@gsc-consultants.com

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers
RPM-SB-38-1	10/17/2016	910	S	X	X		4
RPM-SB-38-2	↓	920	↓	↓	↓		↓
RPM-SB-38-3	↓	930	↓				

Quote No.:	P.O. No.:	Turn Around Time (Days):	Results Needed:	Additional Information:	Lab No.:
		1 2 3 4 <u>5-7</u> 10			<u>001</u> <u>002</u> <u>003</u>

	TCL	VOCS	PNAS	TAL Metals	PCBs	Pesticides	RCRA Metals
	X	X	X	X	X	X	X
		X	X	X	X	X	X
		X	X	X	X	X	X

Comments: _____

Relinquished by: (Signature) [Signature] Date/Time: 11/22/16 12:45
 Received by: (Signature) [Signature] Date/Time: 11/24/16 12:45
 Relinquished by: (Signature) _____ Date/Time: _____
 Received by: (Signature) _____ Date/Time: _____
 Relinquished by: (Signature) _____ Date/Time: _____
 Received by: (Signature) _____ Date/Time: _____

Laboratory Work Order No.: 16120729
 Received on Ice: Yes No
 Temperature: On Ice

Preservation Code: A = None B = HNO₃ C = NaOH
 D = H₂SO₄ E = HCl F = 5035/EnCore G = Other

Sample Receipt Checklist

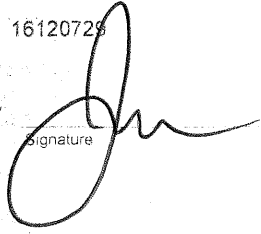
Client Name GSG

Date and Time Received: 12/22/2016 12:45:00 PM

Work Order Number 16120729

Received by: JDR

Checklist completed by



Date

12/22/16

Reviewed by:



Initials

12/23/16

Date

Matrix:

Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature On Ice °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Chain of custody signed when

Chain of custody agrees with

Comments:

Shipping container/cooler in good condition

Custody seals intact on shipping container/cooler

Custody seals intact on sample bottles

Chain of custody present

Chain of custody signed when

Chain of custody agrees with

Client / Person contacted:

Date contacted:

Contacted by:

Response:

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December 27, 2016

GSG Consultants, Inc.
855 W. Adams
Chicago, IL 60607

Telephone: (312) 733-6262
Fax: (312) 733-5612

Analytical Report for STAT Work Order: 16120605 Revision 0

RE: CTA RPM, Chicago, IL

Dear Scott Letzel:

STAT Analysis received 2 samples for the referenced project on 12/19/2016 5:15:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: GSG Consultants, Inc.
Project: CTA RPM, Chicago, IL
Work Order: 16120605 Revision 0

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
16120605-001A	RPM-WC-1A		12/19/2016 11:45:00 AM	12/19/2016
16120605-001B	RPM-WC-1A		12/19/2016 11:45:00 AM	12/19/2016
16120605-002A	RPM-WC-1B		12/19/2016 11:50:00 AM	12/19/2016
16120605-002B	RPM-WC-1B		12/19/2016 11:50:00 AM	12/19/2016

CLIENT: GSG Consultants, Inc.
Project: CTA RPM, Chicago, IL
Work Order: 16120605 Revision 0

CASE NARRATIVE

The following parameters apply to sample number RPM-WC-1A (16120605-001)

Reactivity with Water: None

Reactivity with Base: None

Reactivity with Acid: Sample effervesced with no temperature change

Odor: None

Physical Description: Black and brown soil with rocks

The following parameters apply to sample number RPM-WC-1B (16120605-002)

Reactivity with Water: None

Reactivity with Base: None

Reactivity with Acid: Sample effervesced with no temperature change

Odor: Slight

Physical Description: Black and brown soil with rocks

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 27, 2016

ANALYTICAL RESULTS

Date Printed: December 27, 2016

Client: GSG Consultants, Inc.
 Work Order: 16120605 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120605-001

Client Sample ID: RPM-WC-1A
 Collection Date: 12/19/2016 11:45:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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F-Listed Volatile Compounds SW8260B Prep Date: 12/19/2016 Analyst: PS

1,1,1-Trichloroethane	ND	0.0060		mg/Kg	1	12/22/2016
1,1,2-Trichloroethane	ND	0.0060		mg/Kg	1	12/22/2016
1,2-Dichlorobenzene	ND	0.0060		mg/Kg	1	12/22/2016
1-Butanol	ND	0.48		mg/Kg	1	12/22/2016
2-Butanone	ND	0.090		mg/Kg	1	12/22/2016
2-Nitropropane	ND	0.060		mg/Kg	1	12/22/2016
4-Methyl-2-pentanone	ND	0.012		mg/Kg	1	12/22/2016
Acetone	ND	0.090		mg/Kg	1	12/22/2016
Benzene	ND	0.0060		mg/Kg	1	12/22/2016
Carbon disulfide	ND	0.0060		mg/Kg	1	12/22/2016
Carbon tetrachloride	ND	0.0060		mg/Kg	1	12/22/2016
Chlorobenzene	ND	0.0060		mg/Kg	1	12/22/2016
Ethyl acetate	ND	0.060		mg/Kg	1	12/22/2016
Ethyl Ether	ND	0.060		mg/Kg	1	12/22/2016
Ethylbenzene	ND	0.0060		mg/Kg	1	12/22/2016
Freon-113	ND	0.0060	*	mg/Kg	1	12/22/2016
Isobutyl Alcohol	ND	0.48		mg/Kg	1	12/22/2016
Methanol	ND	1.1	*	mg/Kg	1	12/22/2016
Methylene chloride	ND	0.012		mg/Kg	1	12/22/2016
Tetrachloroethene	ND	0.0060		mg/Kg	1	12/22/2016
Toluene	ND	0.0060		mg/Kg	1	12/22/2016
Trichloroethene	ND	0.0060		mg/Kg	1	12/22/2016
Trichlorofluoromethane	ND	0.0060		mg/Kg	1	12/22/2016
Xylenes, Total	ND	0.018		mg/Kg	1	12/22/2016

TCLP Volatile Organic Compounds by GC/MS SW1311/8260B (SW5030B) Prep Date: 12/20/2016 Analyst: JNM

Benzene	ND	0.050		mg/L	10	12/22/2016
2-Butanone	ND	0.20		mg/L	10	12/22/2016
Carbon tetrachloride	ND	0.050		mg/L	10	12/22/2016
Chlorobenzene	ND	0.050		mg/L	10	12/22/2016
Chloroform	ND	0.050		mg/L	10	12/22/2016
1,2-Dichloroethane	ND	0.050		mg/L	10	12/22/2016
1,1-Dichloroethene	ND	0.050		mg/L	10	12/22/2016
Tetrachloroethene	ND	0.050		mg/L	10	12/22/2016
Trichloroethene	ND	0.050		mg/L	10	12/22/2016
Vinyl chloride	ND	0.050		mg/L	10	12/22/2016

F-Listed Semivolatile Compounds SW8270C (SW3550B) Prep Date: 12/21/2016 Analyst: ERP

2-Ethoxyethanol	ND	0.33	*	mg/Kg	1	12/21/2016
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Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
 * - Non-accredited parameter H - Holding time exceeded

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Date Reported: December 27, 2016

ANALYTICAL RESULTS

Date Printed: December 27, 2016

Client: GSG Consultants, Inc.
 Work Order: 16120605 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120605-001

Client Sample ID: RPM-WC-1A
 Collection Date: 12/19/2016 11:45:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
F-Listed Semivolatile Compounds						
	SW8270C (SW3550B)			Prep Date: 12/21/2016		Analyst: ERP
2-Methylphenol	ND	0.33		mg/Kg	1	12/21/2016
3- & 4-Methylphenol	ND	0.33		mg/Kg	1	12/21/2016
Cyclohexanone	ND	0.33	*	mg/Kg	1	12/21/2016
Nitrobenzene	ND	0.33		mg/Kg	1	12/21/2016
Pyridine	ND	0.33		mg/Kg	1	12/21/2016
TCLP Semivolatile Organic Compounds						
	SW1311/8270C (SW3510C)			Prep Date: 12/21/2016		Analyst: DM
1,4-Dichlorobenzene	ND	0.010		mg/L	1	12/22/2016
2,4-Dinitrotoluene	ND	0.010		mg/L	1	12/22/2016
Hexachlorobenzene	ND	0.010		mg/L	1	12/22/2016
Hexachlorobutadiene	ND	0.010		mg/L	1	12/22/2016
Hexachloroethane	ND	0.010		mg/L	1	12/22/2016
Nitrobenzene	ND	0.010		mg/L	1	12/22/2016
2-methylphenol	ND	0.010		mg/L	1	12/22/2016
3- & 4-Methylphenol	ND	0.010		mg/L	1	12/22/2016
Pentachlorophenol	ND	0.050		mg/L	1	12/22/2016
Pyridine	ND	0.010		mg/L	1	12/22/2016
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	12/22/2016
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	12/22/2016
PCBs						
	SW8082 (SW3550B)			Prep Date: 12/20/2016		Analyst: GVC
Aroclor 1016	ND	0.079		mg/Kg	1	12/20/2016
Aroclor 1221	ND	0.079		mg/Kg	1	12/20/2016
Aroclor 1232	ND	0.079		mg/Kg	1	12/20/2016
Aroclor 1242	ND	0.079		mg/Kg	1	12/20/2016
Aroclor 1248	ND	0.079		mg/Kg	1	12/20/2016
Aroclor 1254	ND	0.079		mg/Kg	1	12/20/2016
Aroclor 1260	ND	0.079		mg/Kg	1	12/20/2016
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 12/21/2016		Analyst: JG
Arsenic	ND	0.010		mg/L	5	12/21/2016
Barium	0.64	0.050		mg/L	5	12/21/2016
Cadmium	ND	0.0050		mg/L	5	12/21/2016
Chromium	ND	0.010		mg/L	5	12/21/2016
Copper	ND	0.10		mg/L	5	12/21/2016
Lead	0.17	0.0050		mg/L	5	12/21/2016
Nickel	ND	0.020		mg/L	5	12/21/2016
Selenium	ND	0.010		mg/L	5	12/21/2016
Silver	ND	0.010		mg/L	5	12/21/2016
Zinc	0.50	0.050		mg/L	5	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter
 RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: December 27, 2016

ANALYTICAL RESULTS

Date Printed: December 27, 2016

Client: GSG Consultants, Inc.
 Work Order: 16120605 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120605-001

Client Sample ID: RPM-WC-1A
 Collection Date: 12/19/2016 11:45:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury	SW1311/7470A					Prep Date: 12/21/2016 Analyst: LB
Mercury	ND	0.00020		mg/L	1	12/21/2016
Cyanide, Total	SW9012A					Prep Date: 12/20/2016 Analyst: MD
Cyanide	ND	0.25		mg/Kg	1	12/22/2016
Sulfide, Reactive	SW7.3.4.2					Prep Date: 12/20/2016 Analyst: MD
Reactive Sulfide	ND	10		mg/Kg	1	12/20/2016
Phenolics	SW9066 (SW9065)					Prep Date: 12/22/2016 Analyst: MD
Phenolics, Total Recoverable	ND	0.25		mg/Kg	1	12/23/2016
pH (1:10, 25 °C)	SW9045C					Prep Date: 12/20/2016 Analyst: PBG
pH	9.9			pH Units	1	12/20/2016
Flash Point (Open-Cup)	SW1010(M)					Prep Date: 12/20/2016 Analyst: RW
Flashpoint	No flash up to 212		*	°F	1	12/20/2016
Ash Content	E160.4					Prep Date: 12/20/2016 Analyst: GH
Ash Content	93.4	0.01	*	wt%	1	12/21/2016
Solids, Total	D2974					Prep Date: 12/20/2016 Analyst: GH
Total Solid	86.1	0.2	*	wt%	1	12/21/2016
Paint Filter	SW9095A					Prep Date: 12/20/2016 Analyst: RW
Paint Filter	Pass			Pass/Fail	1	12/20/2016

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: December 27, 2016

ANALYTICAL RESULTS

Date Printed: December 27, 2016

Client: GSG Consultants, Inc.
 Work Order: 16120605 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120605-002

Client Sample ID: RPM-WC-1B
 Collection Date: 12/19/2016 11:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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F-Listed Volatile Compounds**SW8260B**

Prep Date: 12/19/2016 Analyst: PS

1,1,1-Trichloroethane	ND	0.0047		mg/Kg	1	12/22/2016
1,1,2-Trichloroethane	ND	0.0047		mg/Kg	1	12/22/2016
1,2-Dichlorobenzene	ND	0.0047		mg/Kg	1	12/22/2016
1-Butanol	ND	0.38		mg/Kg	1	12/22/2016
2-Butanone	ND	0.071		mg/Kg	1	12/22/2016
2-Nitropropane	ND	0.047		mg/Kg	1	12/22/2016
4-Methyl-2-pentanone	ND	0.0094		mg/Kg	1	12/22/2016
Acetone	ND	0.071		mg/Kg	1	12/22/2016
Benzene	ND	0.0047		mg/Kg	1	12/22/2016
Carbon disulfide	ND	0.0047		mg/Kg	1	12/22/2016
Carbon tetrachloride	ND	0.0047		mg/Kg	1	12/22/2016
Chlorobenzene	ND	0.0047		mg/Kg	1	12/22/2016
Ethyl acetate	ND	0.047		mg/Kg	1	12/22/2016
Ethyl Ether	ND	0.047		mg/Kg	1	12/22/2016
Ethylbenzene	ND	0.0047		mg/Kg	1	12/22/2016
Freon-113	ND	0.0047	*	mg/Kg	1	12/22/2016
Isobutyl Alcohol	ND	0.38		mg/Kg	1	12/22/2016
Methanol	ND	0.96	*	mg/Kg	1	12/22/2016
Methylene chloride	ND	0.0094		mg/Kg	1	12/22/2016
Tetrachloroethene	ND	0.0047		mg/Kg	1	12/22/2016
Toluene	ND	0.0047		mg/Kg	1	12/22/2016
Trichloroethene	ND	0.0047		mg/Kg	1	12/22/2016
Trichlorofluoromethane	ND	0.0047		mg/Kg	1	12/22/2016
Xylenes, Total	ND	0.014		mg/Kg	1	12/22/2016

TCLP Volatile Organic Compounds by GC/MS**SW1311/8260B (SW5030B)**

Prep Date: 12/20/2016 Analyst: JNM

Benzene	ND	0.050		mg/L	10	12/22/2016
2-Butanone	ND	0.20		mg/L	10	12/22/2016
Carbon tetrachloride	ND	0.050		mg/L	10	12/22/2016
Chlorobenzene	ND	0.050		mg/L	10	12/22/2016
Chloroform	ND	0.050		mg/L	10	12/22/2016
1,2-Dichloroethane	ND	0.050		mg/L	10	12/22/2016
1,1-Dichloroethene	ND	0.050		mg/L	10	12/22/2016
Tetrachloroethene	ND	0.050		mg/L	10	12/22/2016
Trichloroethene	ND	0.050		mg/L	10	12/22/2016
Vinyl chloride	ND	0.050		mg/L	10	12/22/2016

F-Listed Semivolatile Compounds**SW8270C (SW3550B)**

Prep Date: 12/21/2016 Analyst: ERP

2-Ethoxyethanol	ND	0.33	*	mg/Kg	1	12/21/2016
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Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits
 HT - Sample received past holding time E - Value above quantitation range
 * - Non-accredited parameter H - Holding time exceeded

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 27, 2016

ANALYTICAL RESULTS

Date Printed: December 27, 2016

Client: GSG Consultants, Inc.
 Work Order: 16120605 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120605-002

Client Sample ID: RPM-WC-1B
 Collection Date: 12/19/2016 11:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
F-Listed Semivolatile Compounds		SW8270C (SW3550B)		Prep Date: 12/21/2016		Analyst: ERP
2-Methylphenol	ND	0.33		mg/Kg	1	12/21/2016
3- & 4-Methylphenol	ND	0.33		mg/Kg	1	12/21/2016
Cyclohexanone	ND	0.33	*	mg/Kg	1	12/21/2016
Nitrobenzene	ND	0.33		mg/Kg	1	12/21/2016
Pyridine	ND	0.33		mg/Kg	1	12/21/2016
TCLP Semivolatile Organic Compounds		SW1311/8270C (SW3510C)		Prep Date: 12/21/2016		Analyst: DM
1,4-Dichlorobenzene	ND	0.010		mg/L	1	12/22/2016
2,4-Dinitrotoluene	ND	0.010		mg/L	1	12/22/2016
Hexachlorobenzene	ND	0.010		mg/L	1	12/22/2016
Hexachlorobutadiene	ND	0.010		mg/L	1	12/22/2016
Hexachloroethane	ND	0.010		mg/L	1	12/22/2016
Nitrobenzene	ND	0.010		mg/L	1	12/22/2016
2-methylphenol	ND	0.010		mg/L	1	12/22/2016
3- & 4-Methylphenol	ND	0.010		mg/L	1	12/22/2016
Pentachlorophenol	ND	0.050		mg/L	1	12/22/2016
Pyridine	ND	0.010		mg/L	1	12/22/2016
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	12/22/2016
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	12/22/2016
PCBs		SW8082 (SW3550B)		Prep Date: 12/20/2016		Analyst: GVC
Aroclor 1016	ND	0.079		mg/Kg	1	12/20/2016
Aroclor 1221	ND	0.079		mg/Kg	1	12/20/2016
Aroclor 1232	ND	0.079		mg/Kg	1	12/20/2016
Aroclor 1242	ND	0.079		mg/Kg	1	12/20/2016
Aroclor 1248	ND	0.079		mg/Kg	1	12/20/2016
Aroclor 1254	ND	0.079		mg/Kg	1	12/20/2016
Aroclor 1260	ND	0.079		mg/Kg	1	12/20/2016
TCLP Metals by ICP/MS		SW1311/6020 (SW3005A)		Prep Date: 12/21/2016		Analyst: JG
Arsenic	ND	0.010		mg/L	5	12/21/2016
Barium	0.072	0.050		mg/L	5	12/21/2016
Cadmium	ND	0.0050		mg/L	5	12/21/2016
Chromium	ND	0.010		mg/L	5	12/21/2016
Copper	ND	0.10		mg/L	5	12/21/2016
Lead	ND	0.0050		mg/L	5	12/21/2016
Nickel	0.032	0.020		mg/L	5	12/21/2016
Selenium	ND	0.010		mg/L	5	12/21/2016
Silver	ND	0.010		mg/L	5	12/21/2016
Zinc	0.071	0.050		mg/L	5	12/21/2016

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
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Date Reported: December 27, 2016

ANALYTICAL RESULTS

Date Printed: December 27, 2016

Client: GSG Consultants, Inc.
 Work Order: 16120605 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120605-002

Client Sample ID: RPM-WC-1B
 Collection Date: 12/19/2016 11:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury	SW1311/7470A					Prep Date: 12/21/2016 Analyst: LB
Mercury	ND	0.00020		mg/L	1	12/21/2016
Cyanide, Total	SW9012A					Prep Date: 12/20/2016 Analyst: MD
Cyanide	ND	0.25		mg/Kg	1	12/22/2016
Sulfide, Reactive	SW7.3.4.2					Prep Date: 12/20/2016 Analyst: MD
Reactive Sulfide	ND	10		mg/Kg	1	12/20/2016
Phenolics	SW9066 (SW9065)					Prep Date: 12/22/2016 Analyst: MD
Phenolics, Total Recoverable	ND	0.25		mg/Kg	1	12/23/2016
pH (1:10, 25 °C)	SW9045C					Prep Date: 12/20/2016 Analyst: PBG
pH	9.6			pH Units	1	12/20/2016
Flash Point (Open-Cup)	SW1010(M)					Prep Date: 12/20/2016 Analyst: RW
Flashpoint	No flash up to 212		*	°F	1	12/20/2016
Ash Content	E160.4					Prep Date: 12/20/2016 Analyst: GH
Ash Content	99.7	0.01	*	wt%	1	12/21/2016
Solids, Total	D2974					Prep Date: 12/20/2016 Analyst: GH
Total Solid	86.7	0.2	*	wt%	1	12/21/2016
Paint Filter	SW9095A					Prep Date: 12/20/2016 Analyst: RW
Paint Filter	Pass			Pass/Fail	1	12/20/2016

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

Sample Receipt Checklist

Client Name **GSG**

Date and Time Received: **12/19/2016 5:15:00 PM**

Work Order Number **16120605**

Received by: **JOK**

Checklist completed by: *[Signature]* 12/19/16
Signature Date

Reviewed by: *[Signature]* 12/20/16
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature **4.1 °C**
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: _____

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

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December 28, 2016

GSG Consultants, Inc.
855 W. Adams
Chicago, IL 60607

Telephone: (312) 733-6262
Fax: (312) 733-5612

Analytical Report for STAT Work Order: 16120642 Revision 0

RE: CTA RPM, Chicago, IL

Dear Scott Letzel:

STAT Analysis received 2 samples for the referenced project on 12/20/2016 4:15:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Frank Capoccia
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: GSG Consultants, Inc.
Project: CTA RPM, Chicago, IL
Work Order: 16120642 Revision 0

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
16120642-001A	RPM-WC-2A		12/20/2016 11:45:00 AM	12/20/2016
16120642-001B	RPM-WC-2A		12/20/2016 11:45:00 AM	12/20/2016
16120642-002A	RPM-WC-2B		12/20/2016 11:50:00 AM	12/20/2016
16120642-002B	RPM-WC-2B		12/20/2016 11:50:00 AM	12/20/2016

CLIENT: GSG Consultants, Inc.
Project: CTA RPM, Chicago, IL
Work Order: 16120642 Revision 0

CASE NARRATIVE

The following parameters apply to sample number RPM-WC-2A (16120642-001):

Reactivity with Water: None

Reactivity with Base: None

Reactivity with Acid: Sample effervesced with no temperature change

Odor: None

Physical Description: Black and brown soil with rocks

The following parameters apply to sample number RPM-WC-2AB(16120642-002):

Reactivity with Water: None

Reactivity with Base: None

Reactivity with Acid: Sample effervesced with no temperature change

Odor: None

Physical Description: Gray and brown soil with rocks

Due to sample matrix, the SVOC extract for sample RPM-WC-2A (16120642-001) was concentrated to a final volume of 10mL, resulting in a 10 fold increase in reporting limits.

Sample RPM-WC-2A (16120642-001) had recovery for TCLP SVOC surrogate 2,4,6-Tribromophenol outside of control limits (132.6% recovery, QC Limits 10-123%). Recoveries for all other surrogates were within control limits.

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Date Reported: December 28, 2016

ANALYTICAL RESULTS

Date Printed: December 28, 2016

Client: GSG Consultants, Inc.
 Work Order: 16120642 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120642-001

Client Sample ID: RPM-WC-2A
 Collection Date: 12/20/2016 11:45:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
F-Listed Volatile Compounds		SW8260B		Prep Date: 12/20/2016		Analyst: RRS
1,1,1-Trichloroethane	ND	0.0056		mg/Kg	1	12/21/2016
1,1,2-Trichloroethane	ND	0.0056		mg/Kg	1	12/21/2016
1,2-Dichlorobenzene	ND	0.0056		mg/Kg	1	12/21/2016
1-Butanol	ND	0.44		mg/Kg	1	12/21/2016
2-Butanone	ND	0.083		mg/Kg	1	12/21/2016
2-Nitropropane	ND	0.056		mg/Kg	1	12/21/2016
4-Methyl-2-pentanone	ND	0.011		mg/Kg	1	12/21/2016
Acetone	ND	0.083		mg/Kg	1	12/21/2016
Benzene	ND	0.0056		mg/Kg	1	12/21/2016
Carbon disulfide	ND	0.0056		mg/Kg	1	12/21/2016
Carbon tetrachloride	ND	0.0056		mg/Kg	1	12/21/2016
Chlorobenzene	ND	0.0056		mg/Kg	1	12/21/2016
Ethyl acetate	ND	0.056		mg/Kg	1	12/21/2016
Ethyl Ether	ND	0.056		mg/Kg	1	12/21/2016
Ethylbenzene	ND	0.0056		mg/Kg	1	12/21/2016
Freon-113	ND	0.0056	*	mg/Kg	1	12/21/2016
Isobutyl Alcohol	ND	0.44		mg/Kg	1	12/21/2016
Methanol	ND	1.4	*	mg/Kg	1	12/22/2016
Methylene chloride	ND	0.011		mg/Kg	1	12/21/2016
Tetrachloroethene	0.032	0.0056		mg/Kg	1	12/21/2016
Toluene	ND	0.0056		mg/Kg	1	12/21/2016
Trichloroethene	ND	0.0056		mg/Kg	1	12/21/2016
Trichlorofluoromethane	ND	0.0056		mg/Kg	1	12/21/2016
Xylenes, Total	ND	0.017		mg/Kg	1	12/21/2016
TCLP Volatile Organic Compounds by GC/MS		SW1311/8260B (SW5030B)		Prep Date: 12/20/2016		Analyst: JNM
Benzene	ND	0.050		mg/L	10	12/22/2016
2-Butanone	ND	0.20		mg/L	10	12/22/2016
Carbon tetrachloride	ND	0.050		mg/L	10	12/22/2016
Chlorobenzene	ND	0.050		mg/L	10	12/22/2016
Chloroform	ND	0.050		mg/L	10	12/22/2016
1,2-Dichloroethane	ND	0.050		mg/L	10	12/22/2016
1,1-Dichloroethene	ND	0.050		mg/L	10	12/22/2016
Tetrachloroethene	ND	0.050		mg/L	10	12/22/2016
Trichloroethene	ND	0.050		mg/L	10	12/22/2016
Vinyl chloride	ND	0.050		mg/L	10	12/22/2016
F-Listed Semivolatile Compounds		SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM
2-Ethoxyethanol	ND	3.2	*	mg/Kg	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Date Reported: December 28, 2016

ANALYTICAL RESULTS

Date Printed: December 28, 2016

Client: GSG Consultants, Inc.
Work Order: 16120642 Revision 0
Project: CTA RPM, Chicago, IL
Lab ID: 16120642-001

Client Sample ID: RPM-WC-2A
Collection Date: 12/20/2016 11:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
F-Listed Semivolatile Compounds		SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM
2-Methylphenol	ND	3.2		mg/Kg	1	12/23/2016
3- & 4-Methylphenol	ND	3.2		mg/Kg	1	12/23/2016
Cyclohexanone	ND	3.2	*	mg/Kg	1	12/23/2016
Nitrobenzene	ND	3.2		mg/Kg	1	12/23/2016
Pyridine	ND	3.2		mg/Kg	1	12/23/2016
TCLP Semivolatile Organic Compounds		SW1311/8270C (SW3510C)		Prep Date: 12/22/2016		Analyst: ERP
1,4-Dichlorobenzene	ND	0.010		mg/L	1	12/23/2016
2,4-Dinitrotoluene	ND	0.010		mg/L	1	12/23/2016
Hexachlorobenzene	ND	0.010		mg/L	1	12/23/2016
Hexachlorobutadiene	ND	0.010		mg/L	1	12/23/2016
Hexachloroethane	ND	0.010		mg/L	1	12/23/2016
Nitrobenzene	ND	0.010		mg/L	1	12/23/2016
2-methylphenol	ND	0.010		mg/L	1	12/23/2016
3- & 4-Methylphenol	ND	0.010		mg/L	1	12/23/2016
Pentachlorophenol	ND	0.050		mg/L	1	12/23/2016
Pyridine	ND	0.010		mg/L	1	12/23/2016
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	12/23/2016
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	12/23/2016
PCBs		SW8082 (SW3550B)		Prep Date: 12/22/2016		Analyst: GVC
Aroclor 1016	ND	0.079		mg/Kg	1	12/23/2016
Aroclor 1221	ND	0.079		mg/Kg	1	12/23/2016
Aroclor 1232	ND	0.079		mg/Kg	1	12/23/2016
Aroclor 1242	ND	0.079		mg/Kg	1	12/23/2016
Aroclor 1248	ND	0.079		mg/Kg	1	12/23/2016
Aroclor 1254	ND	0.079		mg/Kg	1	12/23/2016
Aroclor 1260	ND	0.079		mg/Kg	1	12/23/2016
TCLP Metals by ICP/MS		SW1311/6020 (SW3005A)		Prep Date: 12/22/2016		Analyst: JG
Arsenic	ND	0.010		mg/L	5	12/22/2016
Barium	0.62	0.050		mg/L	5	12/22/2016
Cadmium	ND	0.0050		mg/L	5	12/22/2016
Chromium	ND	0.010		mg/L	5	12/22/2016
Copper	ND	0.10		mg/L	5	12/22/2016
Lead	0.069	0.0050		mg/L	5	12/22/2016
Nickel	0.034	0.020		mg/L	5	12/22/2016
Selenium	ND	0.010		mg/L	5	12/22/2016
Silver	ND	0.010		mg/L	5	12/22/2016
Zinc	0.80	0.050		mg/L	5	12/22/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Date Reported: December 28, 2016

ANALYTICAL RESULTS

Date Printed: December 28, 2016

Client: GSG Consultants, Inc.
Work Order: 16120642 Revision 0
Project: CTA RPM, Chicago, IL
Lab ID: 16120642-001

Client Sample ID: RPM-WC-2A
Collection Date: 12/20/2016 11:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 12/22/2016 Analyst: LB 12/22/2016
Cyanide, Total Cyanide	SW9012A ND	0.25		mg/Kg	1	Prep Date: 12/21/2016 Analyst: MD 12/22/2016
Sulfide, Reactive Reactive Sulfide	SW7.3.4.2 ND	10		mg/Kg	1	Prep Date: 12/23/2016 Analyst: MD 12/23/2016
Phenolics Phenolics, Total Recoverable	SW9066 (SW9065) ND	0.25		mg/Kg	1	Prep Date: 12/22/2016 Analyst: MD 12/23/2016
pH (1:10, 25 °C) pH	SW9045C 9.8			pH Units	1	Prep Date: 12/21/2016 Analyst: PBG 12/21/2016
Flash Point (Open-Cup) Flashpoint	SW1010(M) No flash up to 212		*	°F	1	Prep Date: 12/20/2016 Analyst: RW 12/20/2016
Ash Content Ash Content	E160.4 94.0	0.01	*	wt%	1	Prep Date: 12/20/2016 Analyst: RW 12/21/2016
Solids, Total Total Solid	D2974 85.9	0.2	*	wt%	1	Prep Date: 12/20/2016 Analyst: RW 12/21/2016
Paint Filter Paint Filter	SW9095A Pass			Pass/Fail	1	Prep Date: 12/20/2016 Analyst: RW 12/20/2016

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 28, 2016

ANALYTICAL RESULTS

Date Printed: December 28, 2016

Client: GSG Consultants, Inc.
 Work Order: 16120642 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120642-002

Client Sample ID: RPM-WC-2B
 Collection Date: 12/20/2016 11:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
F-Listed Volatile Compounds		SW8260B		Prep Date: 12/20/2016		Analyst: RRS
1,1,1-Trichloroethane	ND	0.0044		mg/Kg	1	12/21/2016
1,1,2-Trichloroethane	ND	0.0044		mg/Kg	1	12/21/2016
1,2-Dichlorobenzene	ND	0.0044		mg/Kg	1	12/21/2016
1-Butanol	ND	0.35		mg/Kg	1	12/21/2016
2-Butanone	ND	0.066		mg/Kg	1	12/21/2016
2-Nitropropane	ND	0.044		mg/Kg	1	12/21/2016
4-Methyl-2-pentanone	ND	0.0088		mg/Kg	1	12/21/2016
Acetone	ND	0.066		mg/Kg	1	12/21/2016
Benzene	ND	0.0044		mg/Kg	1	12/21/2016
Carbon disulfide	ND	0.0044		mg/Kg	1	12/21/2016
Carbon tetrachloride	ND	0.0044		mg/Kg	1	12/21/2016
Chlorobenzene	ND	0.0044		mg/Kg	1	12/21/2016
Ethyl acetate	ND	0.044		mg/Kg	1	12/21/2016
Ethyl Ether	ND	0.044		mg/Kg	1	12/21/2016
Ethylbenzene	ND	0.0044		mg/Kg	1	12/21/2016
Freon-113	ND	0.0044	*	mg/Kg	1	12/21/2016
Isobutyl Alcohol	ND	0.35		mg/Kg	1	12/21/2016
Methanol	ND	1.5	*	mg/Kg	1	12/22/2016
Methylene chloride	ND	0.0088		mg/Kg	1	12/21/2016
Tetrachloroethene	ND	0.0044		mg/Kg	1	12/21/2016
Toluene	ND	0.0044		mg/Kg	1	12/21/2016
Trichloroethene	ND	0.0044		mg/Kg	1	12/21/2016
Trichlorofluoromethane	ND	0.0044		mg/Kg	1	12/21/2016
Xylenes, Total	ND	0.013		mg/Kg	1	12/21/2016
TCLP Volatile Organic Compounds by GC/MS		SW1311/8260B (SW5030B)		Prep Date: 12/20/2016		Analyst: JNM
Benzene	ND	0.050		mg/L	10	12/22/2016
2-Butanone	ND	0.20		mg/L	10	12/22/2016
Carbon tetrachloride	ND	0.050		mg/L	10	12/22/2016
Chlorobenzene	ND	0.050		mg/L	10	12/22/2016
Chloroform	ND	0.050		mg/L	10	12/22/2016
1,2-Dichloroethane	ND	0.050		mg/L	10	12/22/2016
1,1-Dichloroethene	ND	0.050		mg/L	10	12/22/2016
Tetrachloroethene	ND	0.050		mg/L	10	12/22/2016
Trichloroethene	ND	0.050		mg/L	10	12/22/2016
Vinyl chloride	ND	0.050		mg/L	10	12/22/2016
F-Listed Semivolatile Compounds		SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM
2-Ethoxyethanol	ND	0.33	*	mg/Kg	1	12/23/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 28, 2016

ANALYTICAL RESULTS

Date Printed: December 28, 2016

Client: GSG Consultants, Inc.
 Work Order: 16120642 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120642-002

Client Sample ID: RPM-WC-2B
 Collection Date: 12/20/2016 11:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
F-Listed Semivolatile Compounds		SW8270C (SW3550B)		Prep Date: 12/23/2016		Analyst: DM
2-Methylphenol	ND	0.33		mg/Kg	1	12/23/2016
3- & 4-Methylphenol	ND	0.33		mg/Kg	1	12/23/2016
Cyclohexanone	ND	0.33	*	mg/Kg	1	12/23/2016
Nitrobenzene	ND	0.33		mg/Kg	1	12/23/2016
Pyridine	ND	0.33		mg/Kg	1	12/23/2016
TCLP Semivolatile Organic Compounds		SW1311/8270C (SW3510C)		Prep Date: 12/22/2016		Analyst: ERP
1,4-Dichlorobenzene	ND	0.010		mg/L	1	12/23/2016
2,4-Dinitrotoluene	ND	0.010		mg/L	1	12/23/2016
Hexachlorobenzene	ND	0.010		mg/L	1	12/23/2016
Hexachlorobutadiene	ND	0.010		mg/L	1	12/23/2016
Hexachloroethane	ND	0.010		mg/L	1	12/23/2016
Nitrobenzene	ND	0.010		mg/L	1	12/23/2016
2-methylphenol	ND	0.010		mg/L	1	12/23/2016
3- & 4-Methylphenol	ND	0.010		mg/L	1	12/23/2016
Pentachlorophenol	ND	0.050		mg/L	1	12/23/2016
Pyridine	ND	0.010		mg/L	1	12/23/2016
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	12/23/2016
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	12/23/2016
PCBs		SW8082 (SW3550B)		Prep Date: 12/22/2016		Analyst: GVC
Aroclor 1016	ND	0.079		mg/Kg	1	12/23/2016
Aroclor 1221	ND	0.079		mg/Kg	1	12/23/2016
Aroclor 1232	ND	0.079		mg/Kg	1	12/23/2016
Aroclor 1242	ND	0.079		mg/Kg	1	12/23/2016
Aroclor 1248	ND	0.079		mg/Kg	1	12/23/2016
Aroclor 1254	ND	0.079		mg/Kg	1	12/23/2016
Aroclor 1260	ND	0.079		mg/Kg	1	12/23/2016
TCLP Metals by ICP/MS		SW1311/6020 (SW3005A)		Prep Date: 12/22/2016		Analyst: JG
Arsenic	ND	0.010		mg/L	5	12/26/2016
Barium	0.082	0.050		mg/L	5	12/26/2016
Cadmium	ND	0.0050		mg/L	5	12/26/2016
Chromium	ND	0.010		mg/L	5	12/27/2016
Copper	ND	0.10		mg/L	5	12/27/2016
Lead	ND	0.0050		mg/L	5	12/26/2016
Nickel	0.038	0.020		mg/L	5	12/27/2016
Selenium	ND	0.010		mg/L	5	12/26/2016
Silver	ND	0.010		mg/L	5	12/26/2016
Zinc	0.057	0.050		mg/L	5	12/27/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: December 28, 2016

ANALYTICAL RESULTS

Date Printed: December 28, 2016

Client: GSG Consultants, Inc.
 Work Order: 16120642 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120642-002

Client Sample ID: RPM-WC-2B
 Collection Date: 12/20/2016 11:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 12/22/2016 Analyst: LB 12/22/2016
Cyanide, Total Cyanide	SW9012A ND	0.25		mg/Kg	1	Prep Date: 12/21/2016 Analyst: MD 12/22/2016
Sulfide, Reactive Reactive Sulfide	SW7.3.4.2 ND	10		mg/Kg	1	Prep Date: 12/23/2016 Analyst: MD 12/23/2016
Phenolics Phenolics, Total Recoverable	SW9066 (SW9065) ND	0.25		mg/Kg	1	Prep Date: 12/22/2016 Analyst: MD 12/23/2016
pH (1:10, 25 °C) pH	SW9045C 9.6			pH Units	1	Prep Date: 12/21/2016 Analyst: PBG 12/21/2016
Flash Point (Open-Cup) Flashpoint	SW1010(M) No flash up to 212		*	°F	1	Prep Date: 12/20/2016 Analyst: RW 12/20/2016
Ash Content Ash Content	E160.4 99.7	0.01	*	wt%	1	Prep Date: 12/20/2016 Analyst: RW 12/21/2016
Solids, Total Total Solid	D2974 84.2	0.2	*	wt%	1	Prep Date: 12/20/2016 Analyst: RW 12/21/2016
Paint Filter Paint Filter	SW9095A Pass			Pass/Fail	1	Prep Date: 12/20/2016 Analyst: RW 12/20/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

Sample Receipt Checklist

Client Name GSG Date and Time Received: 12/20/2016 4:15:00 PM

Work Order Number 16120642 Received by: JDR

Checklist completed by: [Signature] Date: 12/20/16 Reviewed by: FZ Initials: FZ Date: 12/21/16

Matrix: _____ Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature 4.1 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

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January 03, 2017

GSG Consultants, Inc.
855 W. Adams
Chicago, IL 60607

Telephone: (312) 733-6262
Fax: (312) 733-5612

Analytical Report for STAT Work Order: 16120728 Revision 0

RE: CTA RPM, Chicago, IL

Dear Scott Letzel:

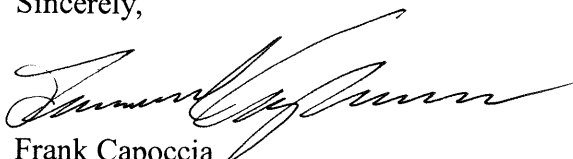
STAT Analysis received 2 samples for the referenced project on 12/22/2016 12:45:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Frank Capoccia
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: GSG Consultants, Inc.
Project: CTA RPM, Chicago, IL
Work Order: 16120728 Revision 0

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
16120728-001A	RPM-WC-3A		12/22/2016 9:40:00 AM	12/22/2016
16120728-001B	RPM-WC-3A		12/22/2016 9:40:00 AM	12/22/2016
16120728-002A	RPM-WC-3B		12/22/2016 9:50:00 AM	12/22/2016
16120728-002B	RPM-WC-3B		12/22/2016 9:50:00 AM	12/22/2016

CLIENT: GSG Consultants, Inc.
Project: CTA RPM, Chicago, IL
Work Order: 16120728 Revision 0

CASE NARRATIVE

The following parameters apply to sample number RPM-WC-3A (16120728-001):

Reactivity with Water: None

Reactivity with Base: None

Reactivity with Acid: Sample effervesced with no temperature change

Odor: Slight

Physical Description: Black and brown soil with rocks

The following parameters apply to sample number RPM-WC-3B (16120728-002):

Reactivity with Water: None

Reactivity with Base: None

Reactivity with Acid: Sample effervesced with no temperature change

Odor: None

Physical Description: Black and brown soil with rocks

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Date Reported: January 03, 2017

ANALYTICAL RESULTS

Date Printed: January 03, 2017

Client: GSG Consultants, Inc.
Work Order: 16120728 Revision 0
Project: CTA RPM, Chicago, IL
Lab ID: 16120728-001

Client Sample ID: RPM-WC-3A
Collection Date: 12/22/2016 9:40:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
F-Listed Volatile Compounds		SW8260B		Prep Date: 12/22/2016		Analyst: PS
1,1,1-Trichloroethane	ND	0.0057		mg/Kg	1	12/26/2016
1,1,2-Trichloroethane	ND	0.0057		mg/Kg	1	12/26/2016
1,2-Dichlorobenzene	ND	0.0057		mg/Kg	1	12/26/2016
1-Butanol	ND	0.45		mg/Kg	1	12/26/2016
2-Butanone	ND	0.085		mg/Kg	1	12/26/2016
2-Nitropropane	ND	0.057		mg/Kg	1	12/26/2016
4-Methyl-2-pentanone	ND	0.011		mg/Kg	1	12/26/2016
Acetone	ND	0.085		mg/Kg	1	12/26/2016
Benzene	ND	0.0057		mg/Kg	1	12/26/2016
Carbon disulfide	ND	0.0057		mg/Kg	1	12/26/2016
Carbon tetrachloride	ND	0.0057		mg/Kg	1	12/26/2016
Chlorobenzene	ND	0.0057		mg/Kg	1	12/26/2016
Ethyl acetate	ND	0.057		mg/Kg	1	12/26/2016
Ethyl Ether	ND	0.057		mg/Kg	1	12/26/2016
Ethylbenzene	ND	0.0057		mg/Kg	1	12/26/2016
Freon-113	ND	0.0057	*	mg/Kg	1	12/26/2016
Isobutyl Alcohol	ND	0.45		mg/Kg	1	12/26/2016
Methanol	ND	1.0	*	mg/Kg	1	12/22/2016
Methylene chloride	ND	0.011		mg/Kg	1	12/26/2016
Tetrachloroethene	ND	0.0057		mg/Kg	1	12/26/2016
Toluene	ND	0.0057		mg/Kg	1	12/26/2016
Trichloroethene	ND	0.0057		mg/Kg	1	12/26/2016
Trichlorofluoromethane	ND	0.0057		mg/Kg	1	12/26/2016
Xylenes, Total	ND	0.017		mg/Kg	1	12/26/2016
TCLP Volatile Organic Compounds by GC/MS		SW1311/8260B (SW5030B)		Prep Date: 12/22/2016		Analyst: JNM
Benzene	ND	0.050		mg/L	10	12/27/2016
2-Butanone	ND	0.20		mg/L	10	12/27/2016
Carbon tetrachloride	ND	0.050		mg/L	10	12/27/2016
Chlorobenzene	ND	0.050		mg/L	10	12/27/2016
Chloroform	ND	0.050		mg/L	10	12/27/2016
1,2-Dichloroethane	ND	0.050		mg/L	10	12/27/2016
1,1-Dichloroethene	ND	0.050		mg/L	10	12/27/2016
Tetrachloroethene	ND	0.050		mg/L	10	12/27/2016
Trichloroethene	ND	0.050		mg/L	10	12/27/2016
Vinyl chloride	ND	0.050		mg/L	10	12/27/2016
F-Listed Semivolatile Compounds		SW8270C (SW3550B)		Prep Date: 12/28/2016		Analyst: DM
2-Ethoxyethanol	ND	0.33	*	mg/Kg	1	12/29/2016

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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Date Reported: January 03, 2017

ANALYTICAL RESULTS

Date Printed: January 03, 2017

Client: GSG Consultants, Inc.
Work Order: 16120728 Revision 0
Project: CTA RPM, Chicago, IL
Lab ID: 16120728-001

Client Sample ID: RPM-WC-3A
Collection Date: 12/22/2016 9:40:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
F-Listed Semivolatile Compounds		SW8270C (SW3550B)		Prep Date: 12/28/2016		Analyst: DM
2-Methylphenol	ND	0.33		mg/Kg	1	12/29/2016
3- & 4-Methylphenol	ND	0.33		mg/Kg	1	12/29/2016
Cyclohexanone	ND	0.33	*	mg/Kg	1	12/29/2016
Nitrobenzene	ND	0.33		mg/Kg	1	12/29/2016
Pyridine	ND	0.33		mg/Kg	1	12/29/2016
TCLP Semivolatile Organic Compounds		SW1311/8270C (SW3510C)		Prep Date: 12/23/2016		Analyst: DM
1,4-Dichlorobenzene	ND	0.010		mg/L	1	12/28/2016
2,4-Dinitrotoluene	ND	0.010		mg/L	1	12/28/2016
Hexachlorobenzene	ND	0.010		mg/L	1	12/28/2016
Hexachlorobutadiene	ND	0.010		mg/L	1	12/28/2016
Hexachloroethane	ND	0.010		mg/L	1	12/28/2016
Nitrobenzene	ND	0.010		mg/L	1	12/28/2016
2-methylphenol	ND	0.010		mg/L	1	12/28/2016
3- & 4-Methylphenol	ND	0.010		mg/L	1	12/28/2016
Pentachlorophenol	ND	0.050		mg/L	1	12/28/2016
Pyridine	ND	0.010		mg/L	1	12/28/2016
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	12/28/2016
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	12/28/2016
PCBs		SW8082 (SW3550B)		Prep Date: 12/27/2016		Analyst: GVC
Aroclor 1016	ND	0.080		mg/Kg	1	12/27/2016
Aroclor 1221	ND	0.080		mg/Kg	1	12/27/2016
Aroclor 1232	ND	0.080		mg/Kg	1	12/27/2016
Aroclor 1242	ND	0.080		mg/Kg	1	12/27/2016
Aroclor 1248	ND	0.080		mg/Kg	1	12/27/2016
Aroclor 1254	ND	0.080		mg/Kg	1	12/27/2016
Aroclor 1260	ND	0.080		mg/Kg	1	12/27/2016
TCLP Metals by ICP/MS		SW1311/6020 (SW3005A)		Prep Date: 12/23/2016		Analyst: JG
Arsenic	ND	0.010		mg/L	5	12/26/2016
Barium	0.75	0.050		mg/L	5	12/26/2016
Cadmium	ND	0.0050		mg/L	5	12/26/2016
Chromium	ND	0.010		mg/L	5	12/27/2016
Copper	ND	0.10		mg/L	5	12/27/2016
Lead	0.30	0.0050		mg/L	5	12/26/2016
Nickel	ND	0.020		mg/L	5	12/27/2016
Selenium	ND	0.010		mg/L	5	12/26/2016
Silver	ND	0.010		mg/L	5	12/26/2016
Zinc	0.47	0.050		mg/L	5	12/27/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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Date Reported: January 03, 2017

ANALYTICAL RESULTS

Date Printed: January 03, 2017

Client: GSG Consultants, Inc.
Work Order: 16120728 Revision 0
Project: CTA RPM, Chicago, IL
Lab ID: 16120728-001

Client Sample ID: RPM-WC-3A
Collection Date: 12/22/2016 9:40:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 12/23/2016 Analyst: LB 12/23/2016
Cyanide, Total Cyanide	SW9012A ND	0.25		mg/Kg	1	Prep Date: 12/23/2016 Analyst: MD 12/27/2016
Sulfide, Reactive Reactive Sulfide	SW7.3.4.2 ND	10		mg/Kg	1	Prep Date: 12/23/2016 Analyst: MD 12/23/2016
Phenolics Phenolics, Total Recoverable	SW9066 (SW9065) ND	0.25		mg/Kg	1	Prep Date: 12/22/2016 Analyst: MD 12/23/2016
pH (1:10, 25 °C) pH	SW9045C 10.7			pH Units	1	Prep Date: 12/22/2016 Analyst: RW 12/22/2016
Flash Point (Open-Cup) Flashpoint	SW1010(M) No flash up to 212		*	°F	1	Prep Date: 12/22/2016 Analyst: RW 12/22/2016
Ash Content Ash Content	E160.4 95.5	0.01	*	wt%	1	Prep Date: 12/22/2016 Analyst: GH 12/23/2016
Solids, Total Total Solid	D2974 87.1	0.2	*	wt%	1	Prep Date: 12/22/2016 Analyst: GH 12/23/2016
Paint Filter Paint Filter	SW9095A Pass			Pass/Fail	1	Prep Date: 12/22/2016 Analyst: RW 12/22/2016

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 03, 2017

ANALYTICAL RESULTS

Date Printed: January 03, 2017

Client: GSG Consultants, Inc.
 Work Order: 16120728 Revision 0
 Project: CTA RPM, Chicago, IL
 Lab ID: 16120728-002

Client Sample ID: RPM-WC-3B
 Collection Date: 12/22/2016 9:50:00 AM
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
F-Listed Volatile Compounds		SW8260B		Prep Date: 12/22/2016		Analyst: PS
1,1,1-Trichloroethane	ND	0.0049		mg/Kg	1	12/26/2016
1,1,2-Trichloroethane	ND	0.0049		mg/Kg	1	12/26/2016
1,2-Dichlorobenzene	ND	0.0049		mg/Kg	1	12/26/2016
1-Butanol	ND	0.39		mg/Kg	1	12/26/2016
2-Butanone	ND	0.073		mg/Kg	1	12/26/2016
2-Nitropropane	ND	0.049		mg/Kg	1	12/26/2016
4-Methyl-2-pentanone	ND	0.0098		mg/Kg	1	12/26/2016
Acetone	ND	0.073		mg/Kg	1	12/26/2016
Benzene	ND	0.0049		mg/Kg	1	12/26/2016
Carbon disulfide	ND	0.0049		mg/Kg	1	12/26/2016
Carbon tetrachloride	ND	0.0049		mg/Kg	1	12/26/2016
Chlorobenzene	ND	0.0049		mg/Kg	1	12/26/2016
Ethyl acetate	ND	0.049		mg/Kg	1	12/26/2016
Ethyl Ether	ND	0.049		mg/Kg	1	12/26/2016
Ethylbenzene	ND	0.0049		mg/Kg	1	12/26/2016
Freon-113	ND	0.0049	*	mg/Kg	1	12/26/2016
Isobutyl Alcohol	ND	0.39		mg/Kg	1	12/26/2016
Methanol	ND	0.97	*	mg/Kg	1	12/22/2016
Methylene chloride	ND	0.0098		mg/Kg	1	12/26/2016
Tetrachloroethene	ND	0.0049		mg/Kg	1	12/26/2016
Toluene	ND	0.0049		mg/Kg	1	12/26/2016
Trichloroethene	ND	0.0049		mg/Kg	1	12/26/2016
Trichlorofluoromethane	ND	0.0049		mg/Kg	1	12/26/2016
Xylenes, Total	ND	0.015		mg/Kg	1	12/26/2016
TCLP Volatile Organic Compounds by GC/MS		SW1311/8260B (SW5030B)		Prep Date: 12/22/2016		Analyst: JNM
Benzene	ND	0.050		mg/L	10	12/27/2016
2-Butanone	ND	0.20		mg/L	10	12/27/2016
Carbon tetrachloride	ND	0.050		mg/L	10	12/27/2016
Chlorobenzene	ND	0.050		mg/L	10	12/27/2016
Chloroform	ND	0.050		mg/L	10	12/27/2016
1,2-Dichloroethane	ND	0.050		mg/L	10	12/27/2016
1,1-Dichloroethene	ND	0.050		mg/L	10	12/27/2016
Tetrachloroethene	ND	0.050		mg/L	10	12/27/2016
Trichloroethene	ND	0.050		mg/L	10	12/27/2016
Vinyl chloride	ND	0.050		mg/L	10	12/27/2016
F-Listed Semivolatile Compounds		SW8270C (SW3550B)		Prep Date: 12/28/2016		Analyst: DM
2-Ethoxyethanol	ND	0.33	*	mg/Kg	1	12/29/2016

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Date Reported: January 03, 2017

ANALYTICAL RESULTS

Date Printed: January 03, 2017

Client: GSG Consultants, Inc.
Work Order: 16120728 Revision 0
Project: CTA RPM, Chicago, IL
Lab ID: 16120728-002

Client Sample ID: RPM-WC-3B
Collection Date: 12/22/2016 9:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
F-Listed Semivolatile Compounds		SW8270C (SW3550B)		Prep Date: 12/28/2016		Analyst: DM
2-Methylphenol	ND	0.33		mg/Kg	1	12/29/2016
3- & 4-Methylphenol	ND	0.33		mg/Kg	1	12/29/2016
Cyclohexanone	ND	0.33	*	mg/Kg	1	12/29/2016
Nitrobenzene	ND	0.33		mg/Kg	1	12/29/2016
Pyridine	ND	0.33		mg/Kg	1	12/29/2016
TCLP Semivolatile Organic Compounds		SW1311/8270C (SW3510C)		Prep Date: 12/23/2016		Analyst: DM
1,4-Dichlorobenzene	ND	0.010		mg/L	1	12/28/2016
2,4-Dinitrotoluene	ND	0.010		mg/L	1	12/28/2016
Hexachlorobenzene	ND	0.010		mg/L	1	12/28/2016
Hexachlorobutadiene	ND	0.010		mg/L	1	12/28/2016
Hexachloroethane	ND	0.010		mg/L	1	12/28/2016
Nitrobenzene	ND	0.010		mg/L	1	12/28/2016
2-methylphenol	ND	0.010		mg/L	1	12/28/2016
3- & 4-Methylphenol	ND	0.010		mg/L	1	12/28/2016
Pentachlorophenol	ND	0.050		mg/L	1	12/28/2016
Pyridine	ND	0.010		mg/L	1	12/28/2016
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	12/28/2016
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	12/28/2016
PCBs		SW8082 (SW3550B)		Prep Date: 12/27/2016		Analyst: GVC
Aroclor 1016	ND	0.079		mg/Kg	1	12/27/2016
Aroclor 1221	ND	0.079		mg/Kg	1	12/27/2016
Aroclor 1232	ND	0.079		mg/Kg	1	12/27/2016
Aroclor 1242	ND	0.079		mg/Kg	1	12/27/2016
Aroclor 1248	ND	0.079		mg/Kg	1	12/27/2016
Aroclor 1254	ND	0.079		mg/Kg	1	12/27/2016
Aroclor 1260	ND	0.079		mg/Kg	1	12/27/2016
TCLP Metals by ICP/MS		SW1311/6020 (SW3005A)		Prep Date: 12/23/2016		Analyst: JG
Arsenic	ND	0.010		mg/L	5	12/26/2016
Barium	ND	0.050		mg/L	5	12/26/2016
Cadmium	ND	0.0050		mg/L	5	12/26/2016
Chromium	ND	0.010		mg/L	5	12/27/2016
Copper	ND	0.10		mg/L	5	12/27/2016
Lead	ND	0.0050		mg/L	5	12/26/2016
Nickel	ND	0.020		mg/L	5	12/27/2016
Selenium	ND	0.010		mg/L	5	12/26/2016
Silver	ND	0.010		mg/L	5	12/26/2016
Zinc	0.051	0.050		mg/L	5	12/27/2016

Qualifiers: ND - Not Detected at the Reporting Limit
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RL - Reporting / Quantitation Limit for the analysis
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Date Reported: January 03, 2017

ANALYTICAL RESULTS

Date Printed: January 03, 2017

Client: GSG Consultants, Inc.
Work Order: 16120728 Revision 0
Project: CTA RPM, Chicago, IL
Lab ID: 16120728-002

Client Sample ID: RPM-WC-3B
Collection Date: 12/22/2016 9:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 12/23/2016 Analyst: LB 12/23/2016
Cyanide, Total Cyanide	SW9012A ND	0.25		mg/Kg	1	Prep Date: 12/23/2016 Analyst: MD 12/27/2016
Sulfide, Reactive Reactive Sulfide	SW7.3.4.2 ND	10		mg/Kg	1	Prep Date: 12/23/2016 Analyst: MD 12/23/2016
Phenolics Phenolics, Total Recoverable	SW9066 (SW9065) ND	0.25		mg/Kg	1	Prep Date: 12/22/2016 Analyst: MD 12/23/2016
pH (1:10, 25 °C) pH	SW9045C 9.2			pH Units	1	Prep Date: 12/22/2016 Analyst: RW 12/22/2016
Flash Point (Open-Cup) Flashpoint	SW1010(M) No flash up to 212		*	°F	1	Prep Date: 12/22/2016 Analyst: RW 12/22/2016
Ash Content Ash Content	E160.4 99.7	0.01	*	wt%	1	Prep Date: 12/22/2016 Analyst: GH 12/23/2016
Solids, Total Total Solid	D2974 91.9	0.2	*	wt%	1	Prep Date: 12/22/2016 Analyst: GH 12/23/2016
Paint Filter Paint Filter	SW9095A Pass			Pass/Fail	1	Prep Date: 12/22/2016 Analyst: RW 12/22/2016

Qualifiers:
 ND - Not Detected at the Reporting Limit
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RL - Reporting / Quantitation Limit for the analysis
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 H - Holding time exceeded

Sample Receipt Checklist

Client Name GSG Date and Time Received: 12/22/2016 12:45:00 PM

Work Order Number 16120728 Received by: JDR

Checklist completed by: [Signature] Date: 12/22/16 Reviewed by: [Initials] Date: 12/23/16

Matrix: _____ Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature On Ice °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: _____

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____



pH Test Results

Soil Sample Name/ Number	Sample Matrix	Sample Type	Temp F	pH Test Result
Customer Name:	TY LIN/CTA		Date Collected:	12/16/2016
Project Name:	RPM #1		Date Tested:	12/16/2016
Project Location:	Alleyway adjacent to Red/Purple CTA line			
Sample Location:	Various			
Test Performed By:	Nicole Wahlborg			
Instrument Used:	Hanna HI98129 ph Meter			
Comments:				
RPM-SB-53-1	Soil	Grab	75.0	8.09
RPM-SB-53-2	Soil	Grab	74.0	7.62
RPM-SB-54-1	Soil	Grab	75.5	7.30
RPM-SB-54-2	Soil	Grab	76.0	7.73
RPM-SB-54-3	Soil	Grab	73.9	7.96
RPM-SB-55-1	Soil	Grab	74.2	7.35
RPM-SB-55-2	Soil	Grab	77.0	7.66
RPM-SB-55-3	Soil	Grab	74.1	7.83



GSG CONSULTANTS, INC.

Engineers, Scientists & Construction Managers

855 West Adams Street, Suite 200
Chicago, IL 60607
Tel: 312.733.6262

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pH Test Results

Customer Name:		Date Collected:	12/19/2016
Project Name:	RPM #1	Date Tested:	12/19/2016
Project Location:	Alleyway adjacent to Red/Purple CTA line		
Sample Location:			
Test Performed By:	Nicole Wahlborg		
Instrument Used:	Hanna HI98129 ph Meter		
Comments:			

Soil Sample Name/ Number	Sample Matrix	Sample Type	Temp F	pH Test Result
RPM-SB-49-1	Soil	Grab	72.9	7.78
RPM-SB-49-2	Soil	Grab	72.3	7.88
RPM-SB-49-3	Soil	Grab	72.0	7.52
RPM-SB-50-1	Soil	Grab	73.0	7.47
RPM-SB-50-2	Soil	Grab	70.1	7.71
RPM-SB-50-3	Soil	Grab	71.6	7.52
RPM-SB-51-1	Soil	Grab	69.6	7.41
RPM-SB-51-2	Soil	Grab	69.0	7.57
RPM-SB-51-3	Soil	Grab	69.9	7.82
RPM-SB-52-1	Soil	Grab	69.8	7.49
RPM-SB-52-2	Soil	Grab	69.7	8.31
RPM-SB-52-3	Soil	Grab	70.0	8.04
RPM-SB-53-3	Soil	Grab	65.0	8.20



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pH Test Results

Customer Name:		Date Collected:	12/20/2016
Project Name:	RPM #1	Date Tested:	12/20/2016
Project Location:	Alleyway adjacent to Red/Purple CTA line		
Sample Location:			
Test Performed By:	Nicole Wahlborg		
Instrument Used:	Hanna HI98129 ph Meter		
Comments:			

Soil Sample Name/ Number	Sample Matrix	Sample Type	Temp F	pH Test Result
RPM-SB-44-1	Soil	Grab	70.5	8.68
RPM-SB-44-2	Soil	Grab	71.2	8.74
RPM-SB-44-3	Soil	Grab	70.5	8.10
RPM-SB-45-1	Soil	Grab	70.9	7.91
RPM-SB-45-2	Soil	Grab	71.5	7.70
RPM-SB-45-3	Soil	Grab	71.0	7.72
RPM-SB-46-1	Soil	Grab	70.8	8.66
RPM-SB-46-2	Soil	Grab	70.9	7.85
RPM-SB-46-3	Soil	Grab	73.1	7.80
RPM-SB-47-1	Soil	Grab	73.5	7.83
RPM-SB-47-2	Soil	Grab	72.9	7.80
RPM-SB-47-3	Soil	Grab	74.3	7.86
RPM-SB-48-1	Soil	Grab	71.1	7.79
RPM-SB-48-2	Soil	Grab	71.7	8.20
RPM-SB-48-3	Soil	Grab	72.2	8.10



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pH Test Results

Customer Name:		Date Collected:	12/21/2016
Project Name:	RPM #1	Date Tested:	12/21/2016
Project Location:	Alleyway adjacent to Red/Purple CTA line		
Sample Location:			
Test Performed By:	Nicole Wahlborg		
Instrument Used:	Hanna HI98129 ph Meter		
Comments:			

Soil Sample Name/ Number	Sample Matrix	Sample Type	Temp F	pH Test Result
RPM-SB-39-1	Soil	Grab	68.9	8.82
RPM-SB-39-2	Soil	Grab	70.1	8.79
RPM-SB-39-3	Soil	Grab	69.2	8.01
RPM-SB-40-1	Soil	Grab	70.0	7.85
RPM-SB-40-2	Soil	Grab	70.2	8.18
RPM-SB-40-3	Soil	Grab	69.8	7.67
RPM-SB-41-1	Soil	Grab	70.0	8.43
RPM-SB-41-2	Soil	Grab	70.7	8.41
RPM-SB-41-3	Soil	Grab	70.4	8.23
RPM-SB-42-1	Soil	Grab	70.9	7.79
RPM-SB-42-2	Soil	Grab	71.3	8.12
RPM-SB-42-3	Soil	Grab	71.1	7.85
RPM-SB-43-1	Soil	Grab	71.1	7.56
RPM-SB-43-2	Soil	Grab	70.1	7.88
RPM-SB-43-3	Soil	Grab	70.4	7.89



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pH Test Results

Customer Name:		Date Collected:	12/22/2016
Project Name:	RPM #1	Date Tested:	12/22/2016
Project Location:	Alleyway adjacent to Red/Purple CTA line		
Sample Location:			
Test Performed By:	Nicole Wahlborg		
Instrument Used:	Hanna HI98129 ph Meter		
Comments:			

Soil Sample Name/ Number	Sample Matrix	Sample Type	Temp F	pH Test Result
RPM-SB-38-1	Soil	Grab	74.9	7.82
RPM-SB-38-2	Soil	Grab	74.5	8.16
RPM-SB-38-3	Soil	Grab	74.7	8.10

ATTACHMENT C

**UNCONTAMINATED SOIL CERTIFICATION, K-PLUS ENGINEERING SERVICES
AUGUST 6, 2021**



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: CTA Redline Project Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

CTA Eastern Elevated Tracks running between Ardmore Avenue to Lawrence Avenue

City: Chicago State: IL Zip Code: 60660

County: Cook Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.5913 Longitude: -87.3931
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

to south 41.5808 -87.3930

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Chicago Transit Authority

Name: Same

Street Address: 567 W. Lake Street

Street Address: _____

PO Box: _____

PO Box: _____

City: Chicago State: IL

City: _____ State: _____

Zip Code: 60661 Phone: 888-965-7282

Zip Code: _____ Phone: _____

Contact: _____

Contact: _____

Email, if available: _____

Email, if available: _____

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: CTA Redline Project

Latitude: 41.5913 Longitude: -87.3931

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

See Attached Statement

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

Attached: Suburban Lab and Stat Analysis data tables, boring logs, site figures, and CCDD summary tables

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Daniel M. Caplice (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: K-Plus Engineering Services, LLC

Street Address: 15 Salt Creek Lane, Suite 410

City: Hinsdale State: IL Zip Code: 60521

Phone: 312-207-1600

Daniel M. Caplice

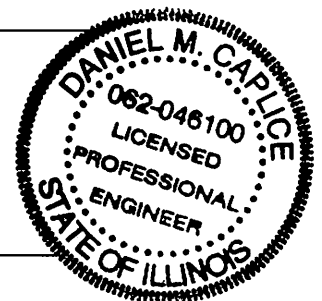
Printed Name:

Daniel M. Caplice

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

August 6, 2021

Date:



P.E. or L.P.G. Seal:

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in s CCDD or Uncontaminated Fill Operation (LPC-663)

Uncontaminated Site Certification

III Basis for Certification and Attachments

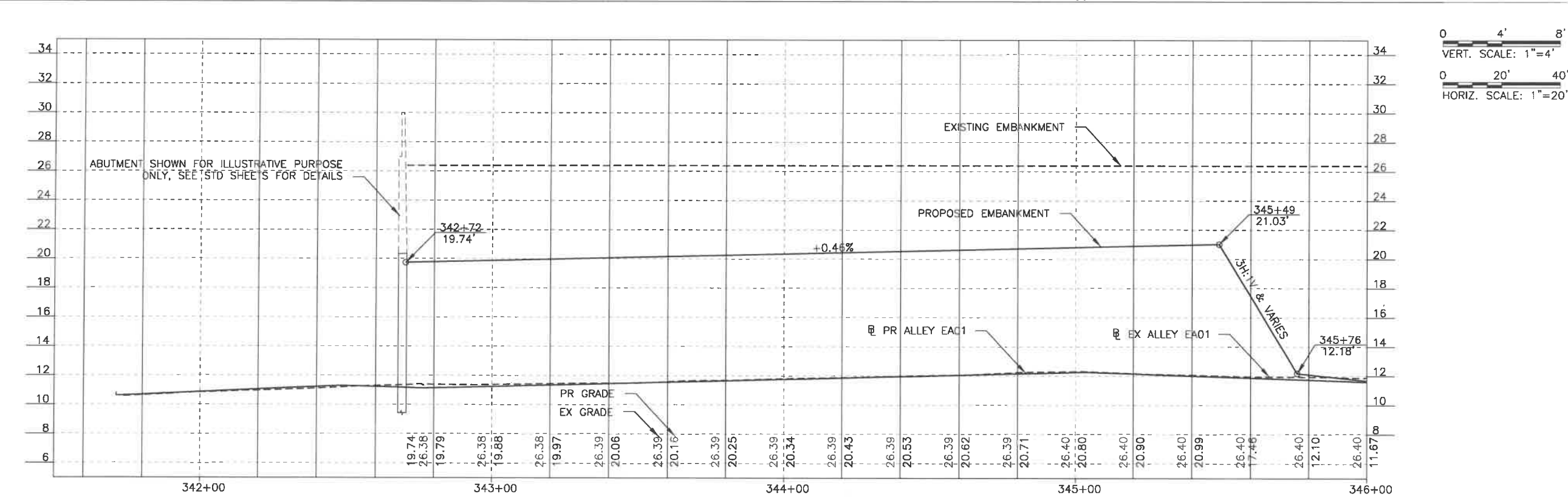
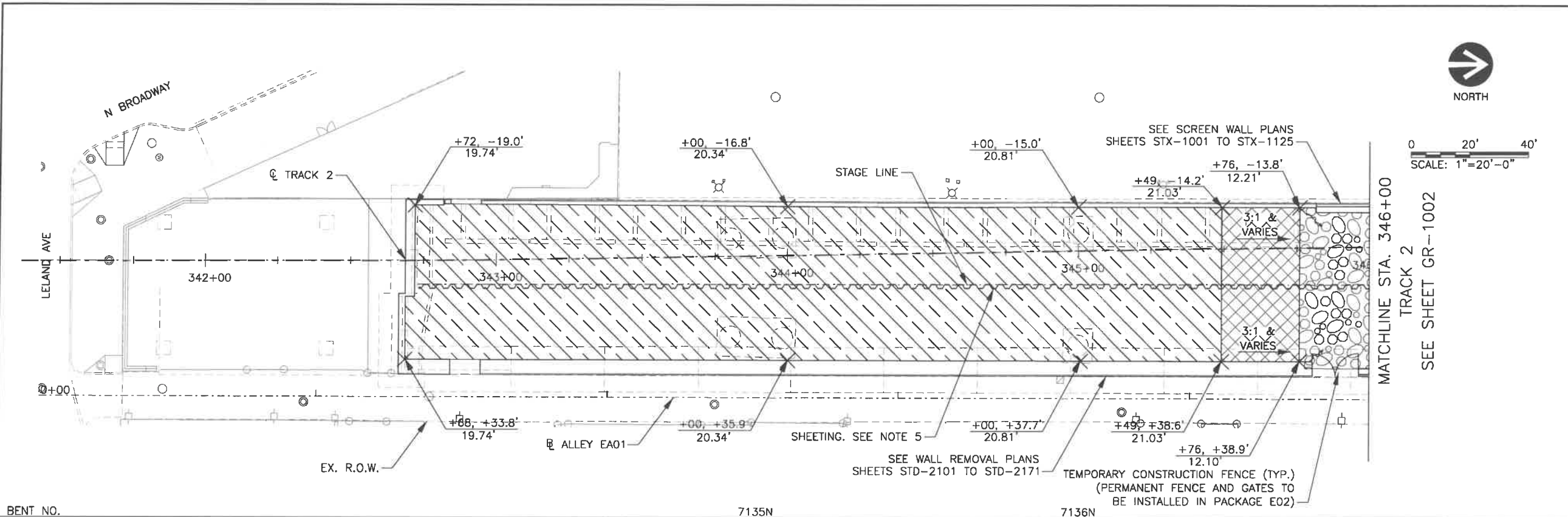
- a. A description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 IAC 1100.610(a)]:

K-Plus Engineering completed borings along the entire length of the project (from Ardmore to Lawrence) in the embankment along the east side. All borings encountered approximately 4 to 5 feet of FILL at the surface. Specifically, the borings identified about 3 feet of stone bedding for the tracks underlain by about 1 to 2 feet of fill which consists of cinders, decayed wood, other non-natural organic material, etc. and which was generally very dark to black in color. None of this FILL meets CCDD criteria and all must be disposed off-site in a licensed Subtitle D Landfill.

The remainder of the soil in the embankment is sand and clay. Composite samples of the sand and clay were tested and all samples except KP11 meet IEPA criteria for disposal as CCDD soil. This LPC-663 Form has been prepared to certify that once the top 4-5 feet of FILL in the embankment is removed and disposed off-site as a nonhazardous waste, all remaining soil meets CCDD requirements except for that soil located between Project Stations 377-50 thru 381+00.

APPENDIX A

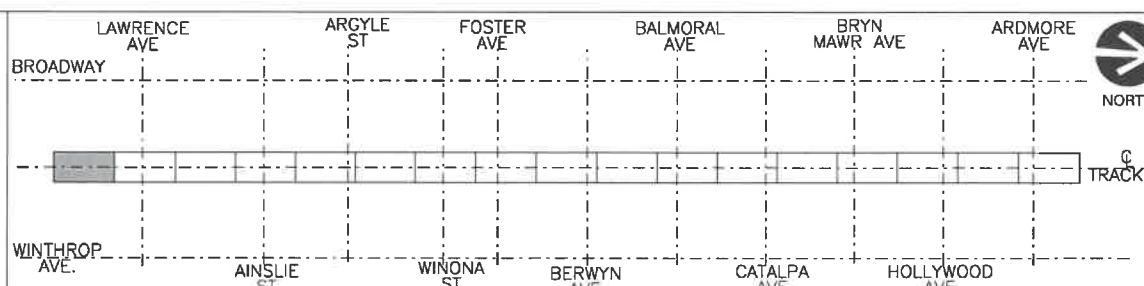
DETAILED SITE FIGURES



- NOTES:**
1. ALL STATIONS, OFFSETS, AND PROFILES ARE BASED OFF OF PROPOSED ϕ TRACK 2
 2. ALL EMBANKMENT MATERIAL MUST SLOPE AWAY FROM STATION AND SCREEN WALLS
 3. ELEVATIONS SHOWN ARE TOP OF DRAINAGE LAYER. SEE TABLE ON SHEET DR-6009 FOR VARYING DRAINAGE LAYER THICKNESS
 4. ALL POTENTIAL SPOIL AREAS MUST BE SLOPED AWAY FROM SCREEN WALLS AND REMOVED PRIOR TO CONSTRUCTION OF STATION DRILLED SHAFTS AND STAIRS
 5. FOR SHEETING DETAILS SEE STX SHEETS. IF SHEETING LEFT IN PLACE, SHEETING WILL BE CUT A MINIMUM OF 2' BELOW FINAL GRADE.
 6. HORIZONTAL DATUM IS NAD83 (2011) ILLINOIS EAST ZONE 1201. VERTICAL DATUM IS CHICAGO CITY DATUM (CCD). DETERMINED BY DIRECT CONNECTION TO PUBLISHED CITY OF CHICAGO BENCHMARKS. (NOTE THAT CCD IS APPROXIMATELY EQUIVALENT TO NAVD88-579.19')

LEGEND

	ALLEY GRADE		RAMPED EMBANKMENT
	FULL HEIGHT EMBANKMENT		FINAL GRADE CA-6 SURFACE
(FOR MATERIAL DETAILS, SEE TYPICAL SECTIONS)			
	FLOW ARROW		TYPICAL CALLOUT
	SHEETING		STA., OFFSET ELEVATION



ISSUED FOR CONSTRUCTION

WALSH FLUOR
DESIGN-BUILD TEAM

Stantec

TranSmart/EJM

CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1526. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A NEED TO KNOW AS DEFINED IN 49 CFR PARTS 15 AND 1526. EXCEPT IN THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS CONTROLLED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1526.

DRAWING SCALE IS NOT GUARANTEED. CTA ASSUMES NO RISK OF LIABILITY FOR ERRORS CAUSED, DIRECTLY OR INDIRECTLY, BY SCALING OF THIS DRAWING.

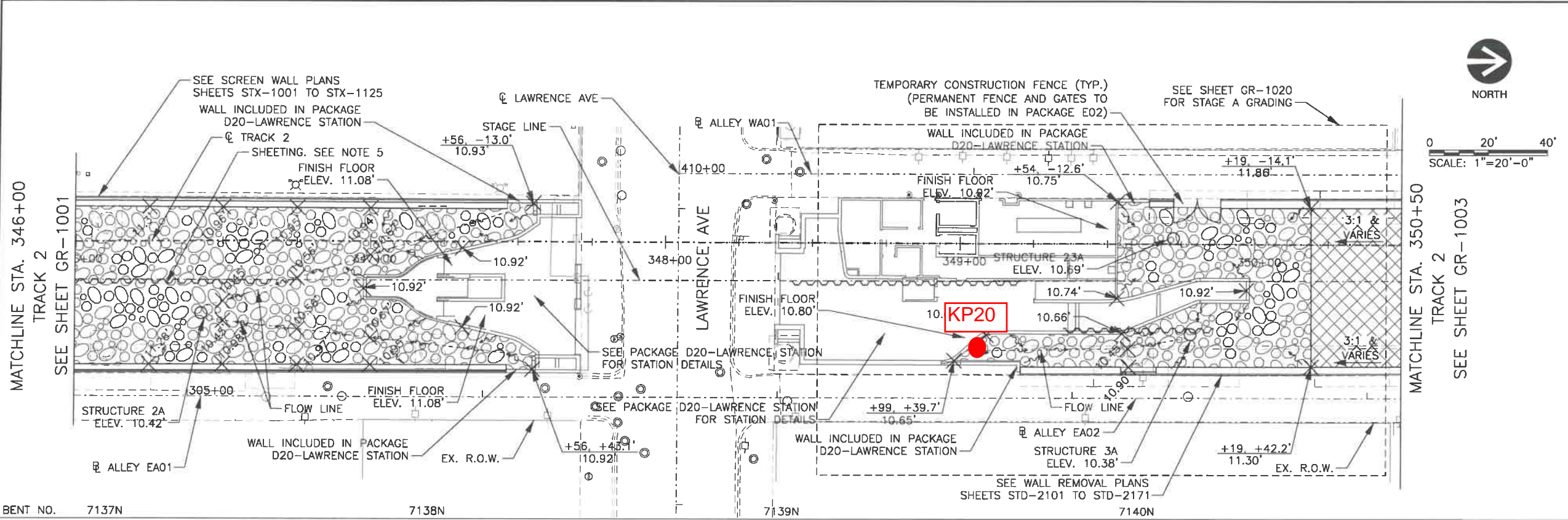
RED AND PURPLE MODERNIZATION (RPM)
PHASE ONE DESIGN-BUILD
CHICAGO, ILLINOIS

PROJECT NO:	2014-0017.06
IN CHARGE:	T. HANSSON
APPROVED BY:	S. CAIN
CHECKED BY:	S. CAIN
DESIGNED BY:	D. BRUSICH
DRAWN BY:	D. BRUSICH

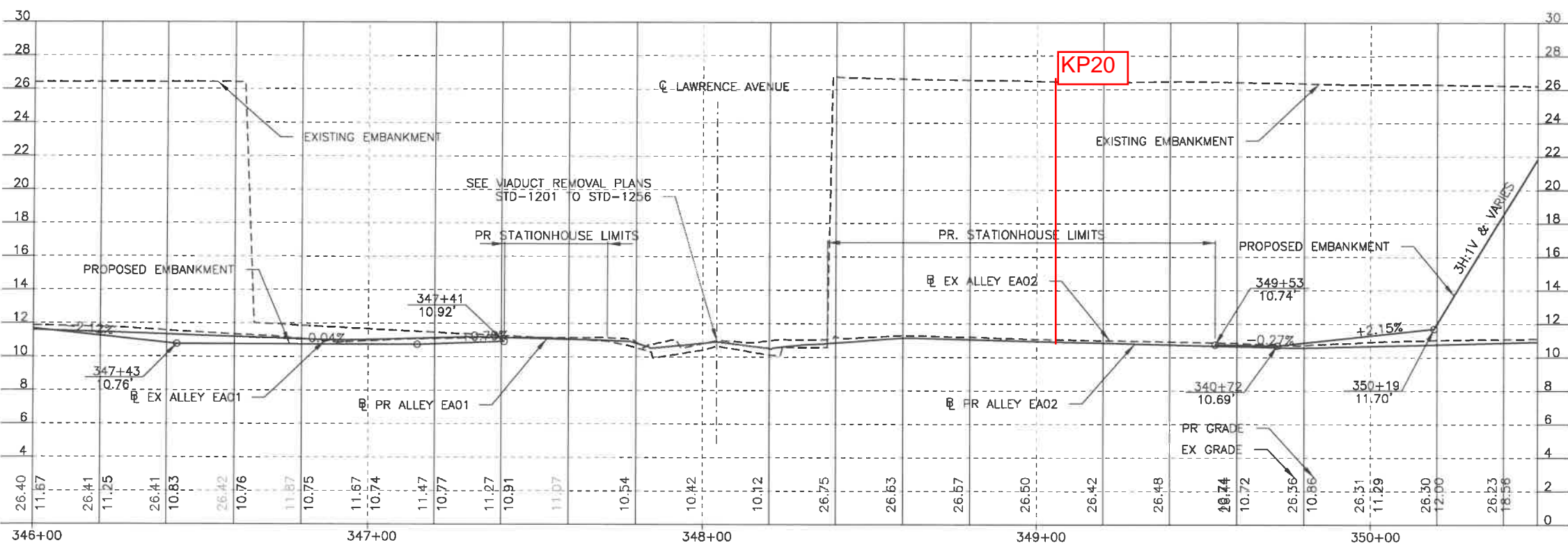
MARK	DATE	DESCRIPTION
0	05/07/2021	ISSUED FOR CONSTRUCTION

**PLAN AND PROFILE
LELAND AVE. TO
LAWRENCE AVE.**

Plotted: 5/5/2021 1:52:28 PM
 Design File: 2014-0017-GR-1001-GR-1001.dgn



BENT NO. 7137N 7138N 7139N 7140N

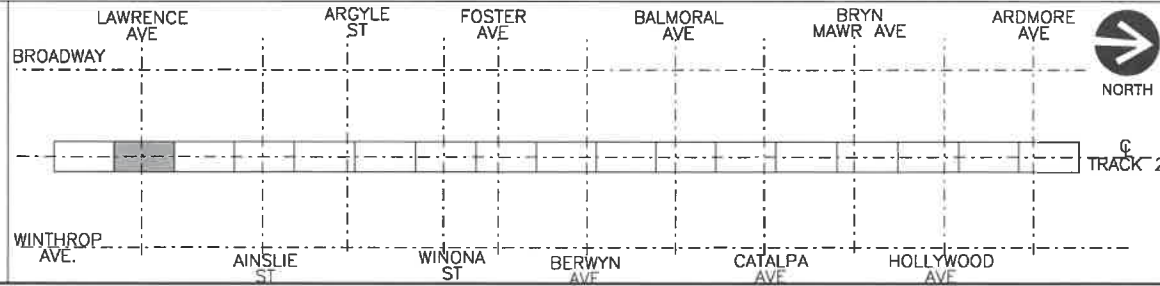


0 4' 8'
VERT. SCALE: 1"=4'
0 20' 40'
HORIZ. SCALE: 1"=20'

- NOTES:**
1. ALL STATIONS, OFFSETS, AND PROFILES ARE BASED OFF OF PROPOSED C TRACK 2
 2. ALL EMBANKMENT MATERIAL MUST SLOPE AWAY FROM STATION AND SCREEN WALLS
 3. ELEVATIONS SHOWN ARE TOP OF DRAINAGE LAYER. SEE TABLE ON SHEET DR-6009 FOR VARYING DRAINAGE LAYER THICKNESS
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LEGEND

	ALLEY GRADE		RAMPED EMBANKMENT
	FULL HEIGHT EMBANKMENT		FINAL GRADE CA-6 SURFACE
(FOR MATERIAL DETAILS, SEE TYPICAL SECTIONS)			
	FLOW ARROW		TYPICAL CALLOUT
	SHEETING		STA., OFFSET ELEVATION



ISSUED FOR CONSTRUCTION

WALSH FLUOR
DESIGN-BUILD TEAM
★★★★

Stantec

TranSmart/EJM

CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 152C. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A NEED TO KNOW AS DEFINED IN 49 CFR PARTS 15 AND 152C, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION, FOR U.S. GOVERNMENT AGENCIES. PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 152C.

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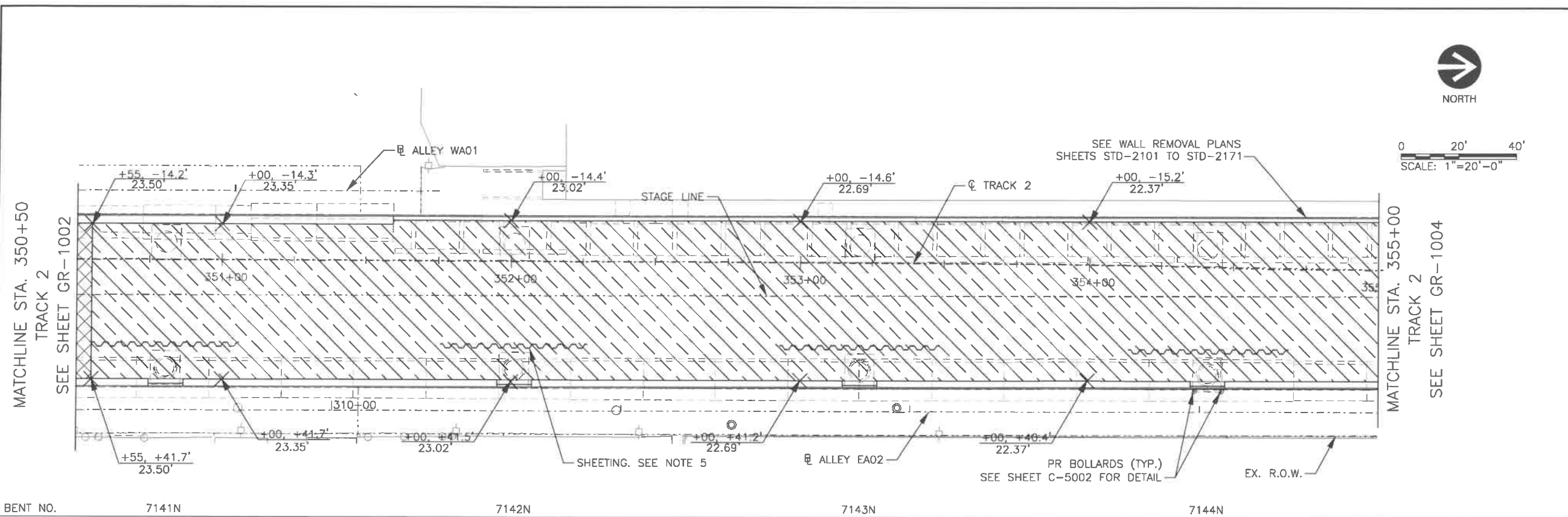
RED AND PURPLE
MODERNIZATION (RPM)
PHASE ONE DESIGN-BUILD
CHICAGO, ILLINOIS

PROJECT NO:	2014-0017.06
IN CHARGE:	T. HANSSON
APPROVED BY:	S. CAIN
CHECKED BY:	S. CAIN
DESIGNED BY:	D. BRUSICH
DRAWN BY:	D. BRUSICH

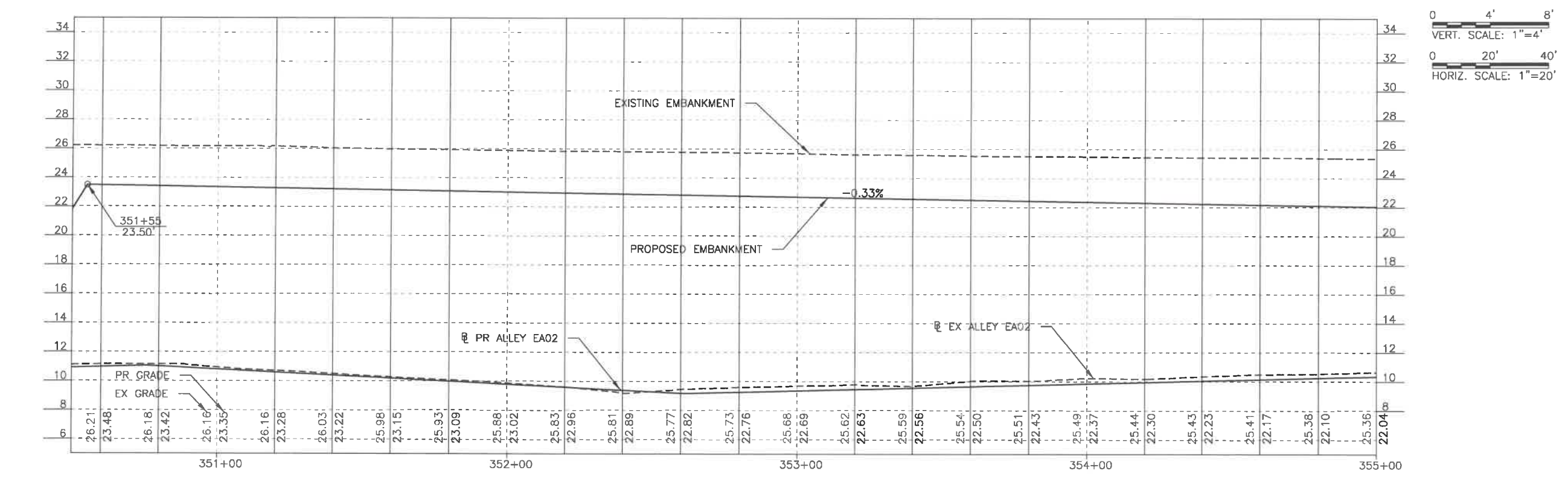
MARK	DATE	DESCRIPTION
0	05/07/2021	ISSUED FOR CONSTRUCTION

PLAN AND PROFILE LAWRENCE AVENUE

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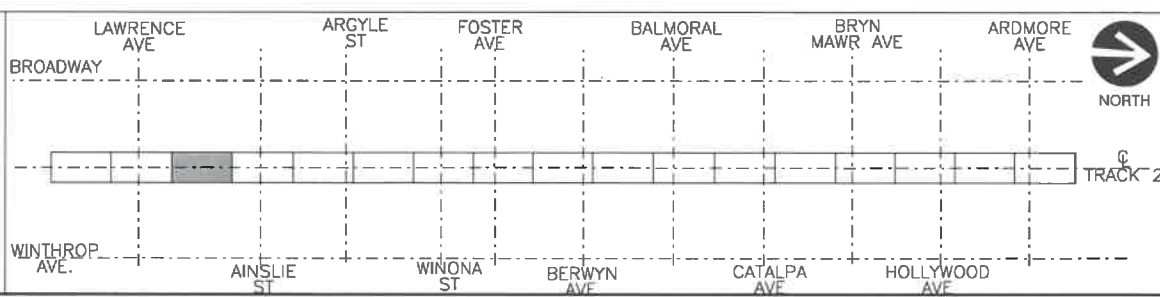
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- NOTES:**
1. ALL STATIONS, OFFSETS, AND PROFILES ARE BASED OFF OF PROPOSED ϕ TRACK 2
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LEGEND

	ALLEY GRADE		RAMPED EMBANKMENT
	FULL HEIGHT EMBANKMENT		FINAL GRADE
	FLOW ARROW		CA-6 SURFACE
	SHEETING	(FOR MATERIAL DETAILS, SEE TYPICAL SECTIONS)	
	TYPICAL CALLOUT		STA., OFFSET ELEVATION



ISSUED FOR CONSTRUCTION

WALSH FLUOR
DESIGN-BUILD TEAM

Stantec

TranSmart/EJM

cta CHICAGO TRANSIT AUTHORITY ENGINEERING

SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A NEED TO KNOW AS DERIVED IN 49 CFR PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

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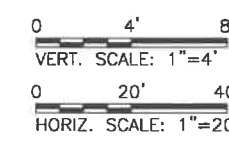
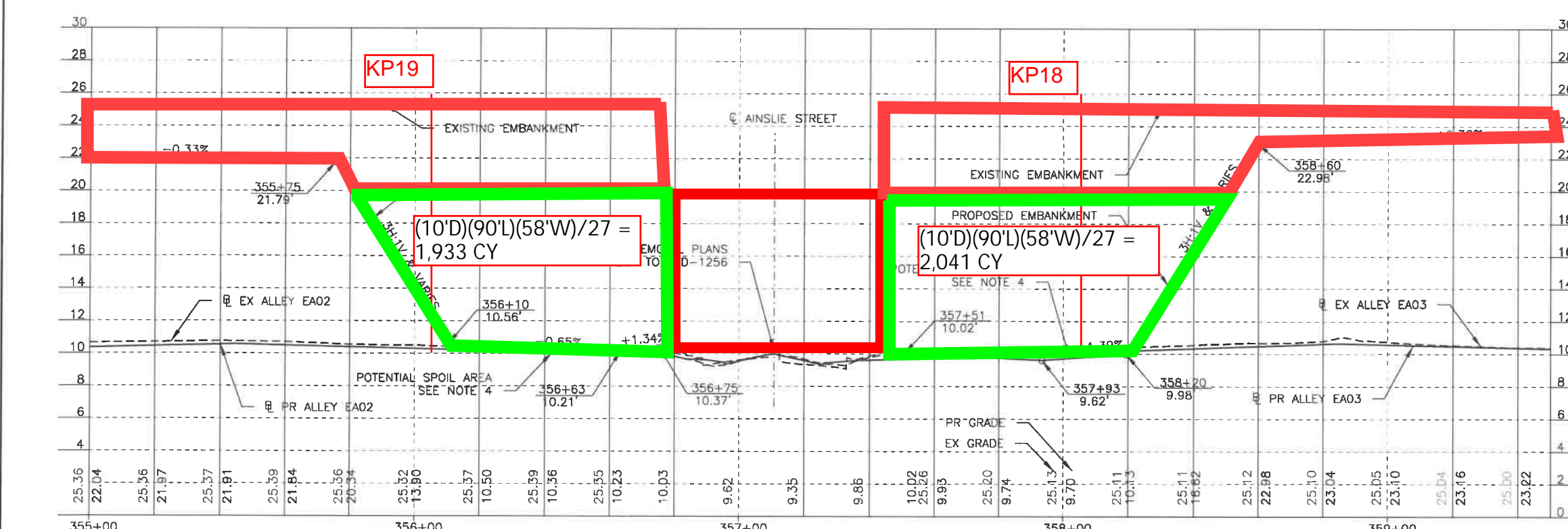
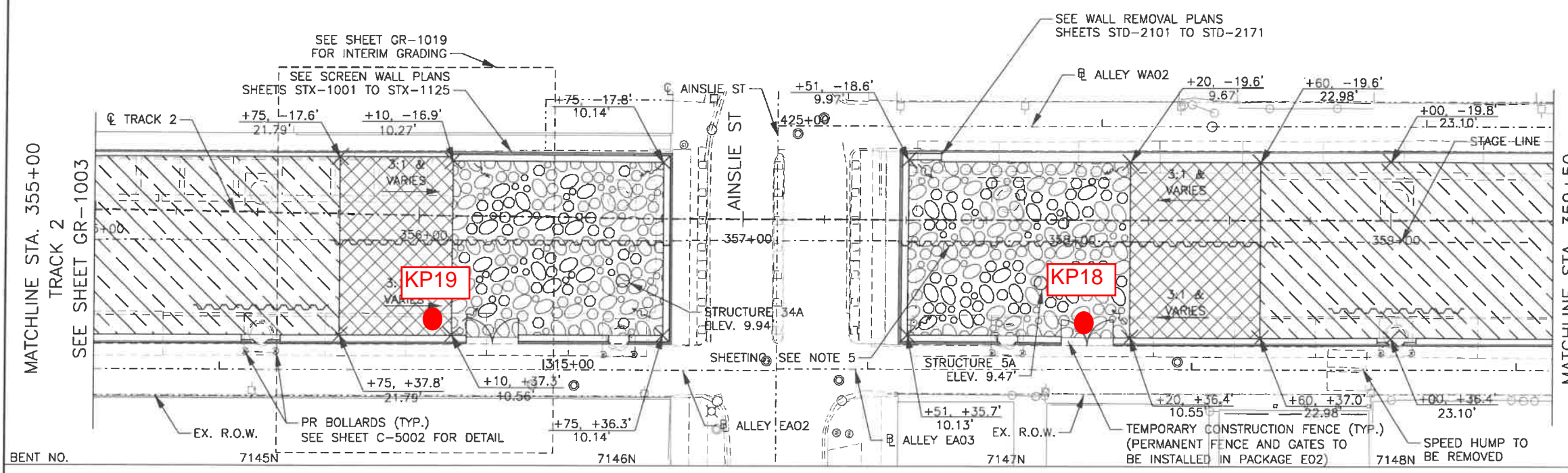
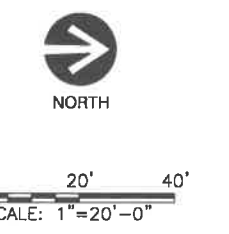
RED AND PURPLE MODERNIZATION (RPM)
PHASE ONE DESIGN-BUILD
CHICAGO, ILLINOIS

PROJECT NO:	2014-0017.06
IN CHARGE:	T. HANSSON
APPROVED BY:	S. CAIN
CHECKED BY:	S. CAIN
DESIGNED BY:	D. BRUSICH
DRAWN BY:	D. BRUSICH

MARK	DATE	DESCRIPTION
0	05/07/2021	ISSUED FOR CONSTRUCTION

PLAN AND PROFILE LAWRENCE AVE. TO AINSLIE ST.

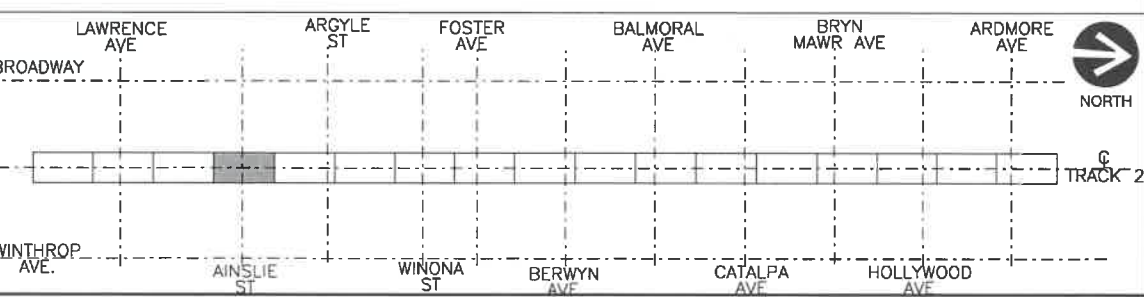
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- NOTES:**
1. ALL STATIONS, OFFSETS, AND PROFILES ARE BASED OFF OF PROPOSED \O TRACK 2
 2. ALL EMBANKMENT MATERIAL MUST SLOPE AWAY FROM STATION AND SCREEN WALLS
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LEGEND

	ALLEY GRADE		RAMPED EMBANKMENT
	FULL HEIGHT EMBANKMENT		FINAL GRADE CA-6 SURFACE
(FOR MATERIAL DETAILS, SEE TYPICAL SECTIONS)			
	FLOW ARROW		TYPICAL CALLOUT
	SHEETING		STA., OFFSET ELEVATION



ISSUED FOR CONSTRUCTION

WALSH FLUOR
DESIGN-BUILD TEAM

Stantec

TranSmart/EJM

CHICAGO TRANSIT AUTHORITY ENGINEERING

SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1502. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A NEED TO KNOW AS OBTAINED BY 49 CFR PARTS 15 AND 1502. EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1502.

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RED AND PURPLE MODERNIZATION (RPM)
PHASE ONE DESIGN-BUILD
CHICAGO, ILLINOIS

PROJECT NO:	2014-0017.06
IN CHARGE:	T. HANSSON
APPROVED BY:	S. CAIN
CHECKED BY:	S. CAIN
DESIGNED BY:	D. BRUSICH
DRAWN BY:	D. BRUSICH

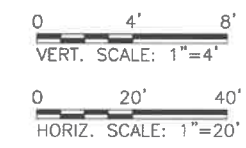
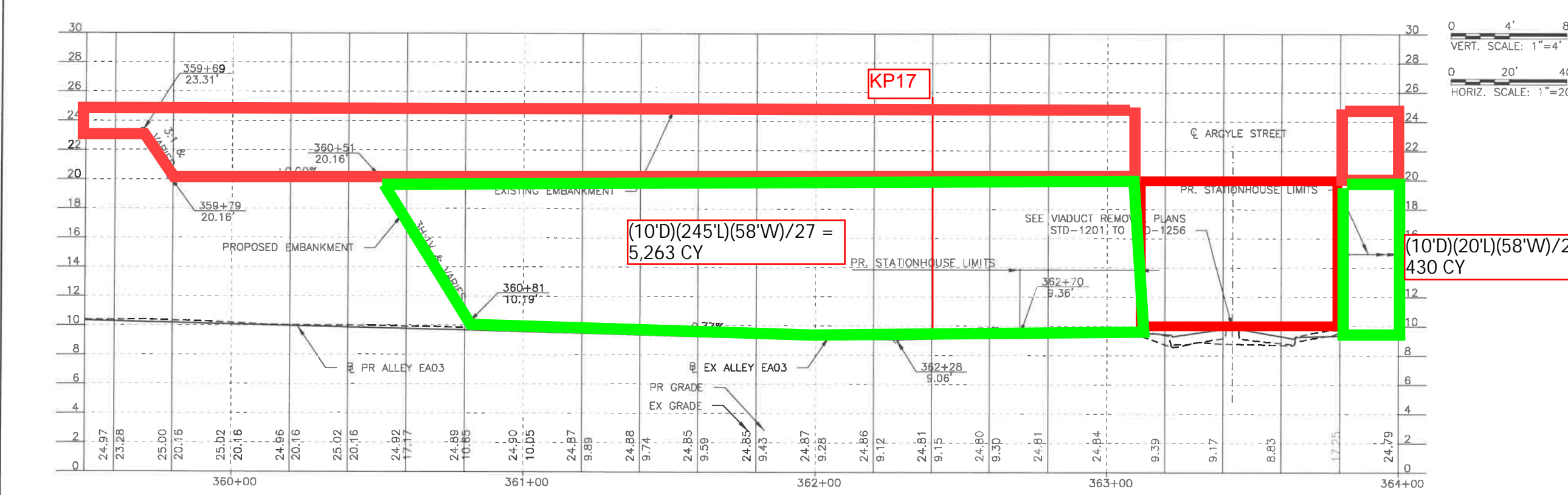
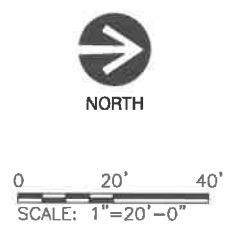
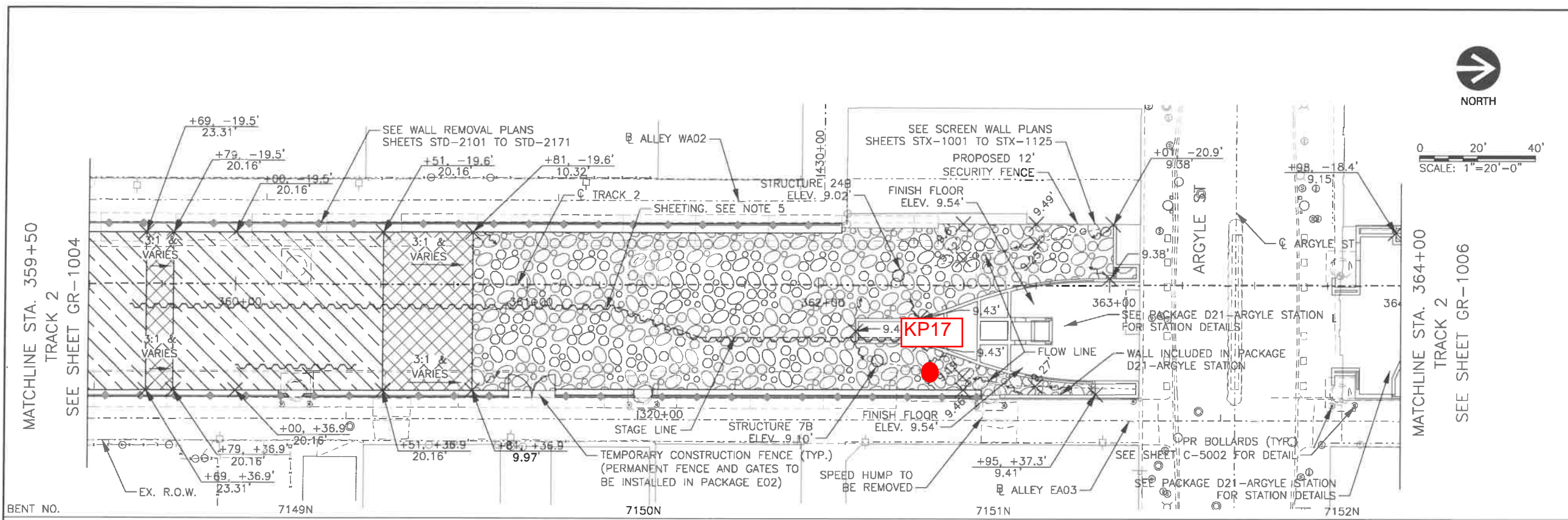
0	05/07/2021	ISSUED FOR CONSTRUCTION
MARK	DATE	DESCRIPTION

PLAN AND PROFILE AINSLIE STREET

D18 GR-1004

VOLUME: 1 OF 1 PAGE: 223 OF 524

Plotted: 5/23/2021 5:55:27 PM
 Design File: 2014-0017-06-EJM-D18-0501-GR-1004.dgn

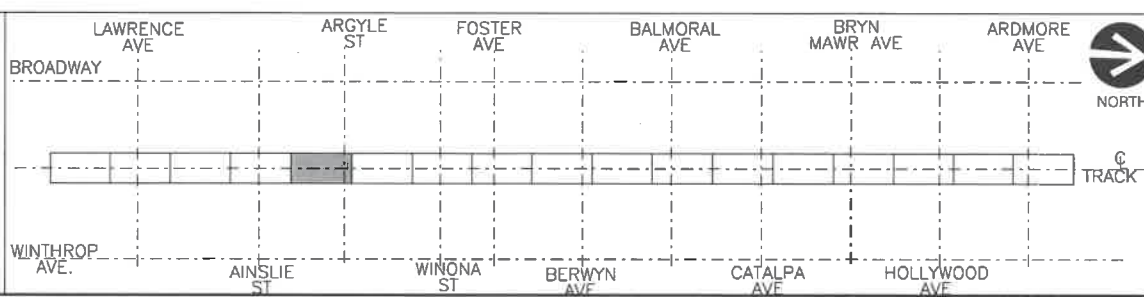


- NOTES:**
1. ALL STATIONS, OFFSETS, AND PROFILES ARE BASED OFF OF PROPOSED © TRACK 2
 2. ALL EMBANKMENT MATERIAL MUST SLOPE AWAY FROM STATION AND SCREEN WALLS
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LEGEND

	ALLEY GRADE		RAMPED EMBANKMENT
	FULL HEIGHT EMBANKMENT		FINAL GRADE
	FLOW ARROW		CA-6 SURFACE
	SHEETING		TYPICAL CALLOUT
	STA., OFFSET ELEVATION		

(FOR MATERIAL DETAILS, SEE TYPICAL SECTIONS)



ISSUED FOR CONSTRUCTION

WALSH FLUOR
DESIGN-BUILD TEAM

Stantec

TranSmart/EJM

cta CHICAGO TRANSIT AUTHORITY ENGINEERING

SENSITIVE SECURITY INFORMATION

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RED AND PURPLE MODERNIZATION (RPM)
PHASE ONE DESIGN-BUILD
CHICAGO, ILLINOIS

PROJECT NO:	2014-0017.06
IN CHARGE:	T. HANSSON
APPROVED BY:	S. CAIN
CHECKED BY:	S. CAIN
DESIGNED BY:	D. BRUSICH
DRAWN BY:	D. BRUSICH

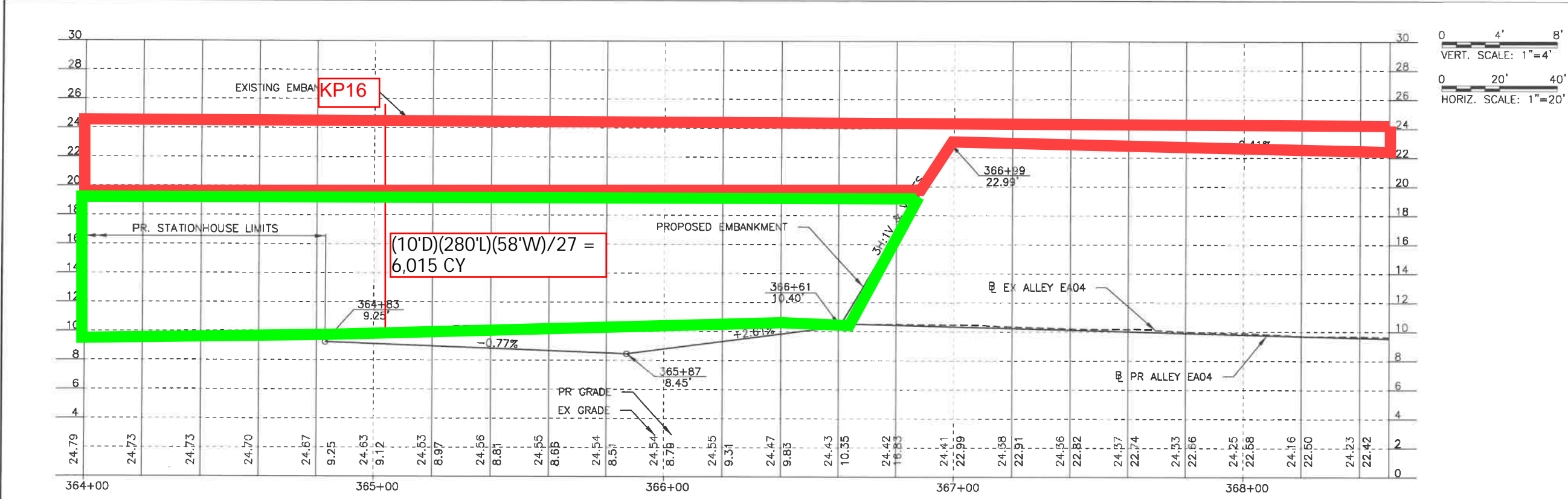
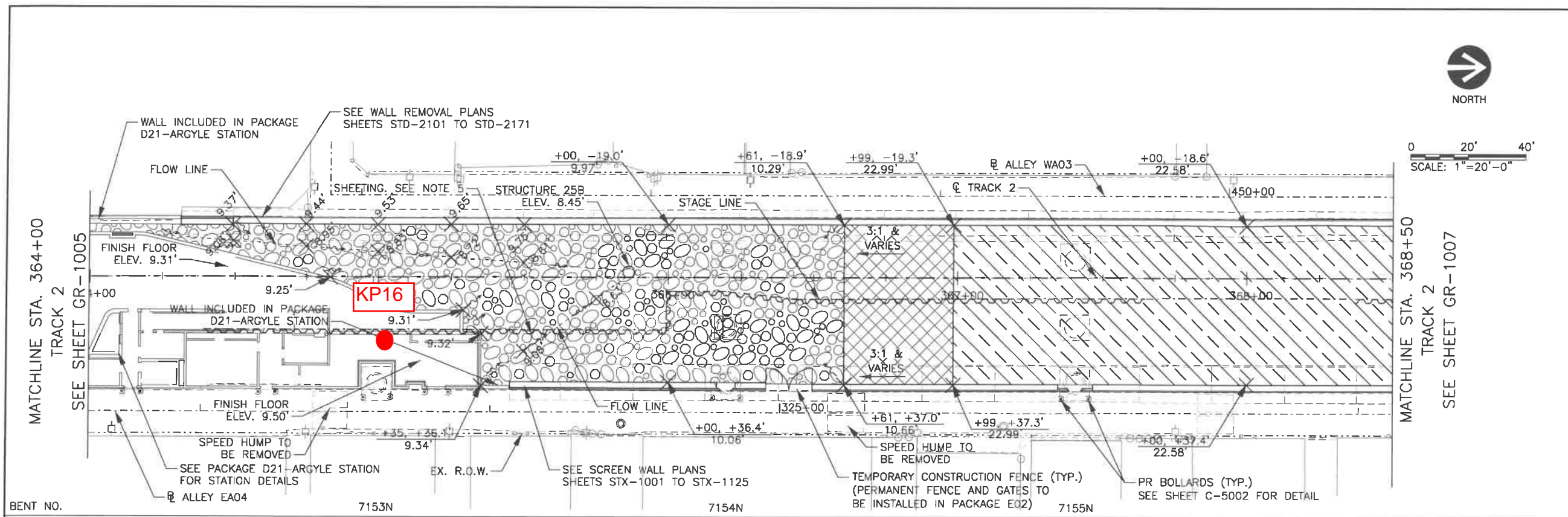
MARK	DATE	DESCRIPTION
0	05/07/2021	ISSUED FOR CONSTRUCTION

PLAN AND PROFILE AINSLIE ST. TO ARGYLE ST.

D18 GR-1005

VOLUME: 1 OF 1 PAGE: 224 OF 524

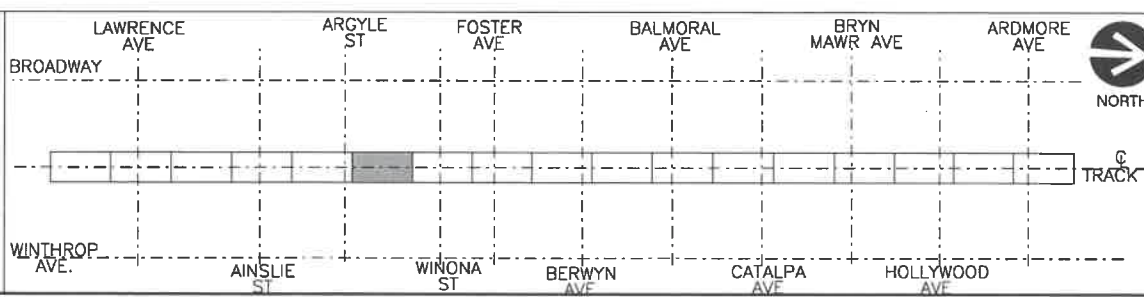
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- NOTES:**
1. ALL STATIONS, OFFSETS, AND PROFILES ARE BASED OFF OF PROPOSED C TRACK 2
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LEGEND

	ALLEY GRADE		RAMPED EMBANKMENT
	FULL HEIGHT EMBANKMENT		FINAL GRADE CA-6 SURFACE
(FOR MATERIAL DETAILS, SEE TYPICAL SECTIONS)			
	FLOW ARROW		TYPICAL CALLOUT
	SHEETING		STA., OFFSET ELEVATION



ISSUED FOR CONSTRUCTION

WALSH FLUOR
DESIGN-BUILD TEAM

Stantec

TranSmart/EJM

cta CHICAGO TRANSIT AUTHORITY ENGINEERING

SENSITIVE SECURITY INFORMATION

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DRAWING SCALE IS NOT GUARANTEED. CTA ASSUMES NO RISK OF LIABILITY FOR ERRORS CAUSED, DIRECTLY OR INDIRECTLY, BY SCALING OF THIS DRAWING.

RED AND PURPLE MODERNIZATION (RPM) PHASE ONE DESIGN-BUILD

CHICAGO, ILLINOIS

PROJECT NO:	2014-0017.06
IN CHARGE:	T. HANSSON
APPROVED BY:	S. CAIN
CHECKED BY:	S. CAIN
DESIGNED BY:	D. BRUSICH
DRAWN BY:	D. BRUSICH

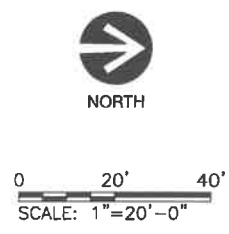
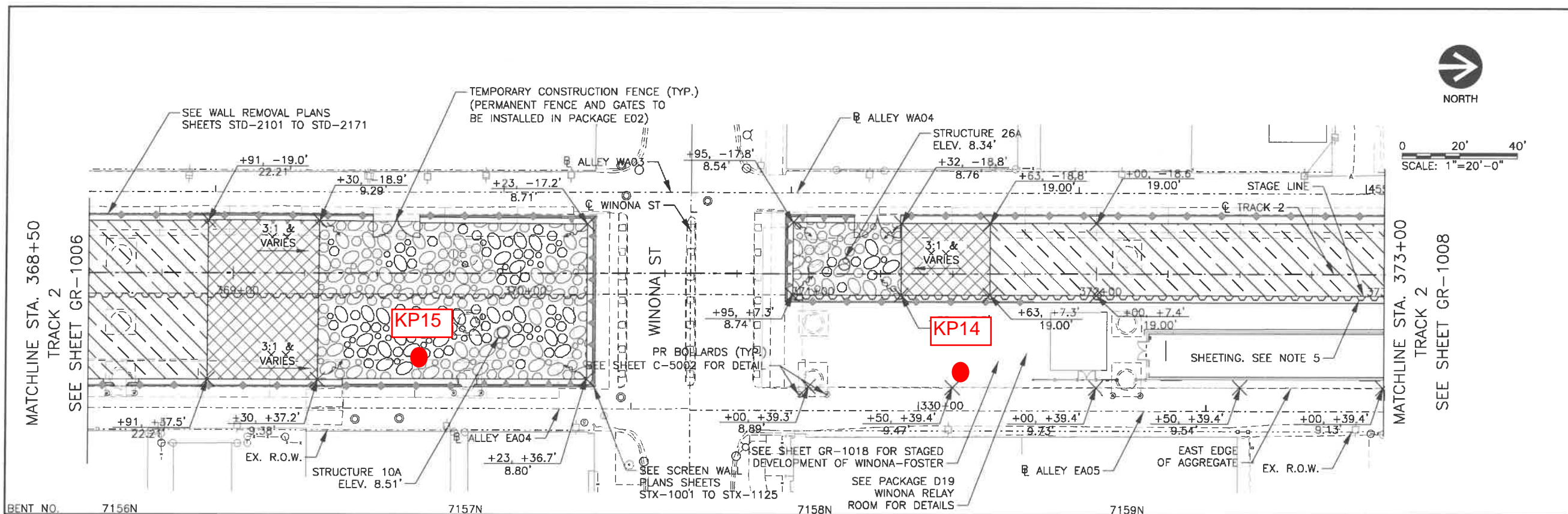
MARK	DATE	DESCRIPTION
0	05/07/2021	ISSUED FOR CONSTRUCTION

PLAN AND PROFILE ARGYLE ST. TO WINONA ST.

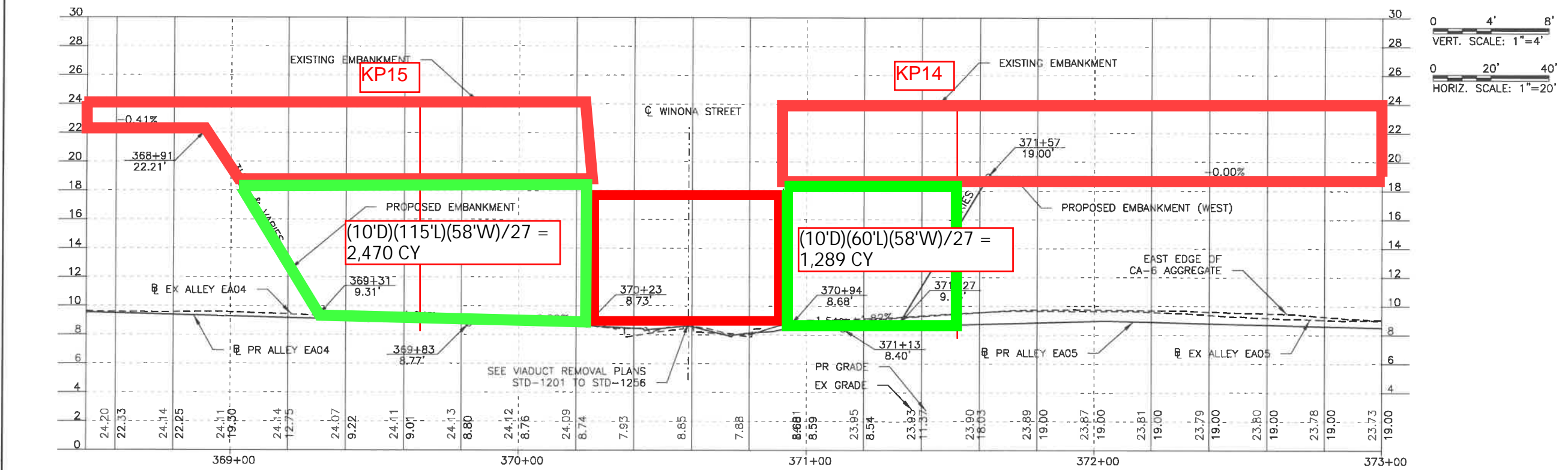
D18 GR-1006

VOLUME: 1 OF 1 PAGE: 225 OF 524

Plotted: 5/22/2021 5:22:45 PM
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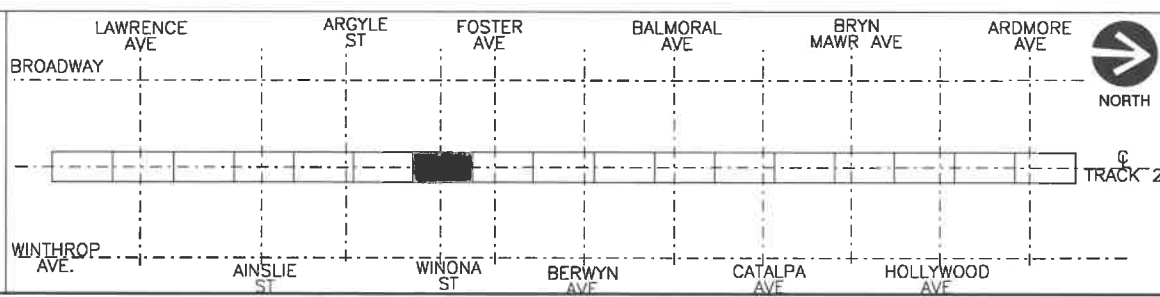


- NOTES:**
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LEGEND

	ALLEY GRADE		RAMPED EMBANKMENT
	FULL HEIGHT EMBANKMENT		FINAL GRADE
	FLOW ARROW		CA-6 SURFACE
	SHEETING		TYPICAL CALLOUT

(FOR MATERIAL DETAILS, SEE TYPICAL SECTIONS)



ISSUED FOR CONSTRUCTION

CHICAGO TRANSIT AUTHORITY
 ENGINEERING

SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1620. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A NEED TO KNOW AS DEFINED IN 49 CFR PARTS 15 AND 1620, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT ADDRESSES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1620.

DRAWING SCALE IS NOT GUARANTEED. CTA ASSUMES NO RISK OF LIABILITY FOR ERRORS CAUSED, DIRECTLY OR INDIRECTLY, BY SCALING OF THIS DRAWING.

RED AND PURPLE
 MODERNIZATION (RPM)
PHASE ONE DESIGN-BUILD
 CHICAGO, ILLINOIS

PROJECT NO:	2014-0017.06
IN CHARGE:	T. HANSSON
APPROVED BY:	S. CAIN
CHECKED BY:	S. CAIN
DESIGNED BY:	D. BRUSICH
DRAWN BY:	D. BRUSICH

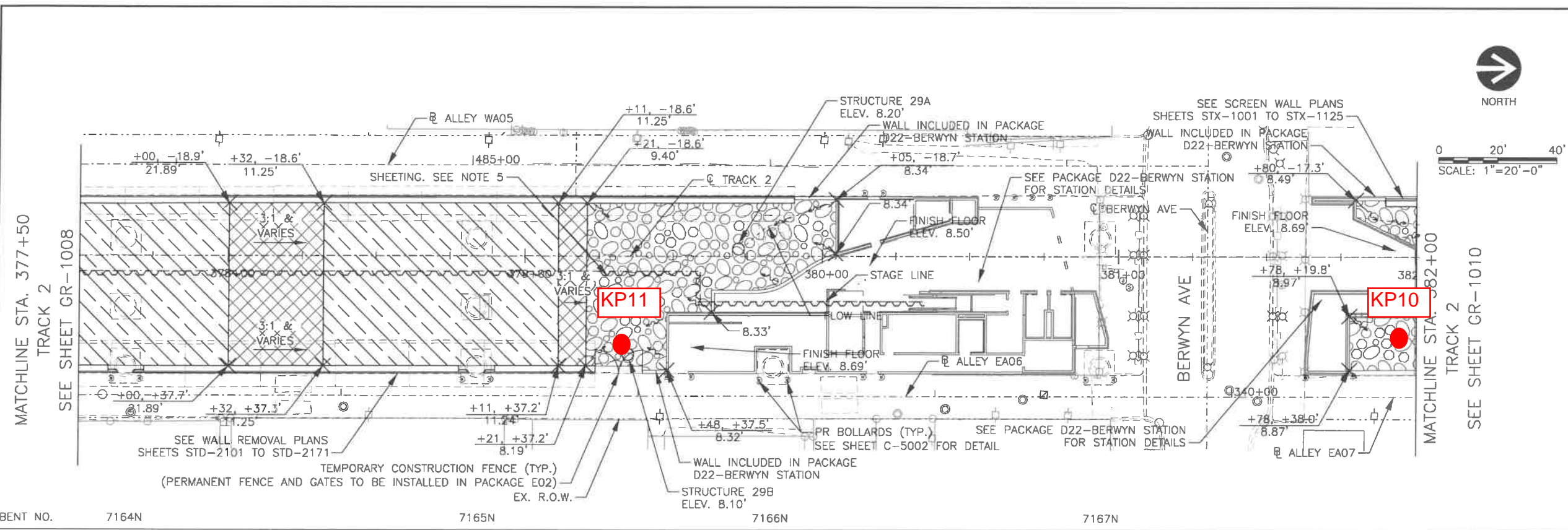
MARK	DATE	DESCRIPTION
0	05/07/2021	ISSUED FOR CONSTRUCTION

PLAN AND PROFILE WINONA STREET

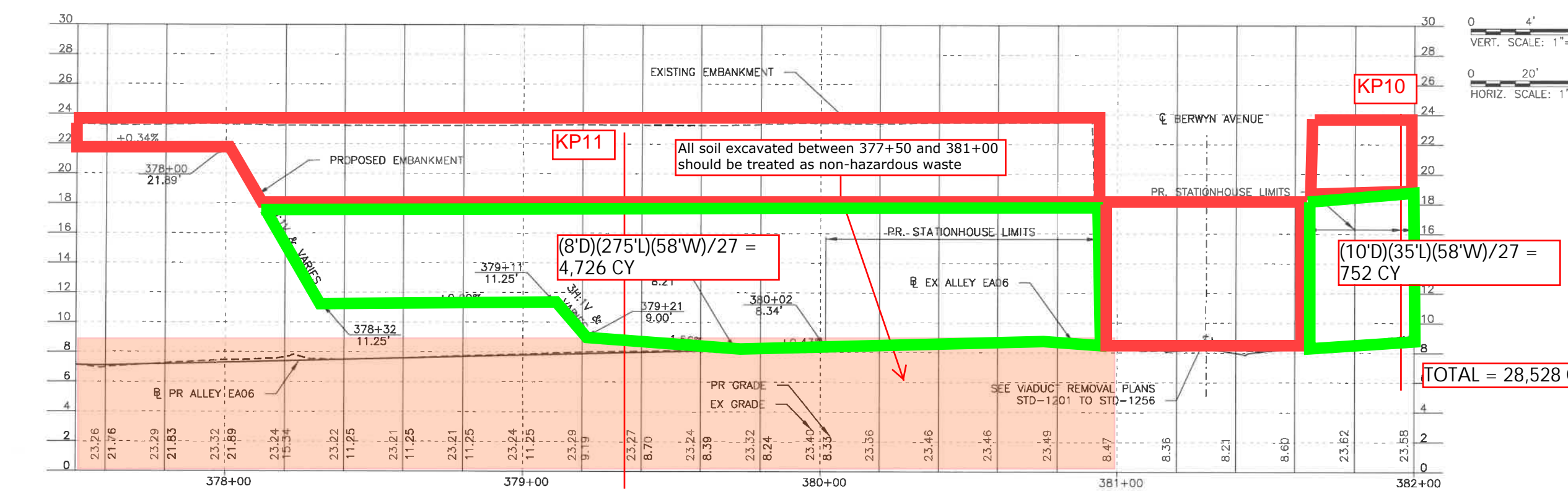
D18
GR-1007

VOLUME: 1 OF 1 PAGE: 226 OF 524

Plotted: 5/3/2021 4:43:57 PM
 Design File: 2014-0017.06-EJM_D18-ds011-gr-1007.dgn



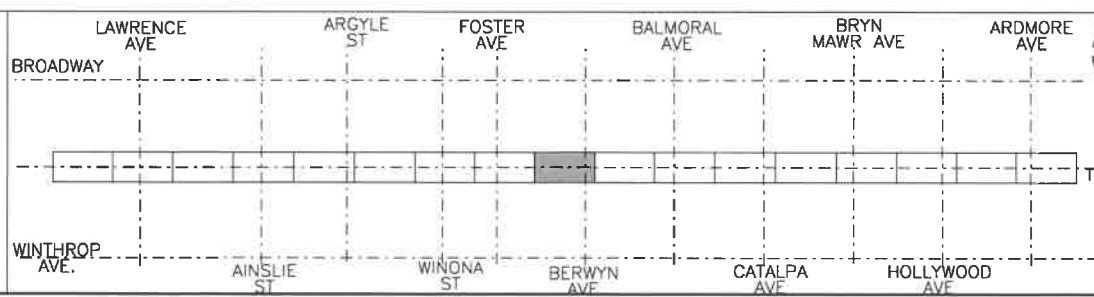
BENT NO. 7164N 7165N 7166N 7167N



- NOTES:**
1. ALL STATIONS, OFFSETS, AND PROFILES ARE BASED OFF OF PROPOSED $\text{\textcircled{C}}$ TRACK 2
 2. ALL EMBANKMENT MATERIAL MUST SLOPE AWAY FROM STATION AND SCREEN WALLS
 3. ELEVATIONS SHOWN ARE TOP OF DRAINAGE LAYER. SEE TABLE ON SHEET DR-6009 FOR VARYING DRAINAGE LAYER THICKNESS
 4. ALL POTENTIAL SPOIL AREAS MUST BE SLOPED AWAY FROM SCREEN WALLS AND REMOVED PRIOR TO CONSTRUCTION OF STATION DRILLED SHAFTS AND STAIRS
 5. FOR SHEETING DETAILS SEE STX SHEETS. IF SHEETING LEFT IN PLACE, SHEETING WILL BE CUT A MINIMUM OF 2' BELOW FINAL GRADE.
 6. HORIZONTAL DATUM IS NAD83 (2011) ILLINOIS EAST ZONE 1201. VERTICAL DATUM IS CHICAGO CITY DATUM (CCD). DETERMINED BY DIRECT CONNECTION TO PUBLISHED CITY OF CHICAGO BENCHMARKS. (NOTE THAT CCD IS APPROXIMATELY EQUIVALENT TO NAVD88-579.19')

LEGEND

	ALLEY GRADE		RAMPED EMBANKMENT
	FULL HEIGHT EMBANKMENT		FINAL GRADE CA-6 SURFACE
(FOR MATERIAL DETAILS, SEE TYPICAL SECTIONS)			
	FLOW ARROW		TYPICAL CALLOUT
	SHEETING		STA., OFFSET ELEVATION



ISSUED FOR CONSTRUCTION

WALSH FLUOR
DESIGN-BUILD TEAM

Stantec

TranSmart/EJM

CHICAGO TRANSIT AUTHORITY ENGINEERING

SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1502. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A NEED TO KNOW AS DEFINED IN 49 CFR PARTS 15 AND 1502. EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT EMPLOYEES, PUBLIC DISCLOSURE IS COVERED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1502.

DRAWING SCALE IS NOT GUARANTEED. CTA ASSUMES NO RISK OF LIABILITY FOR ERRORS CAUSED, DIRECTLY OR INDIRECTLY, BY SCALING OF THIS DRAWING.

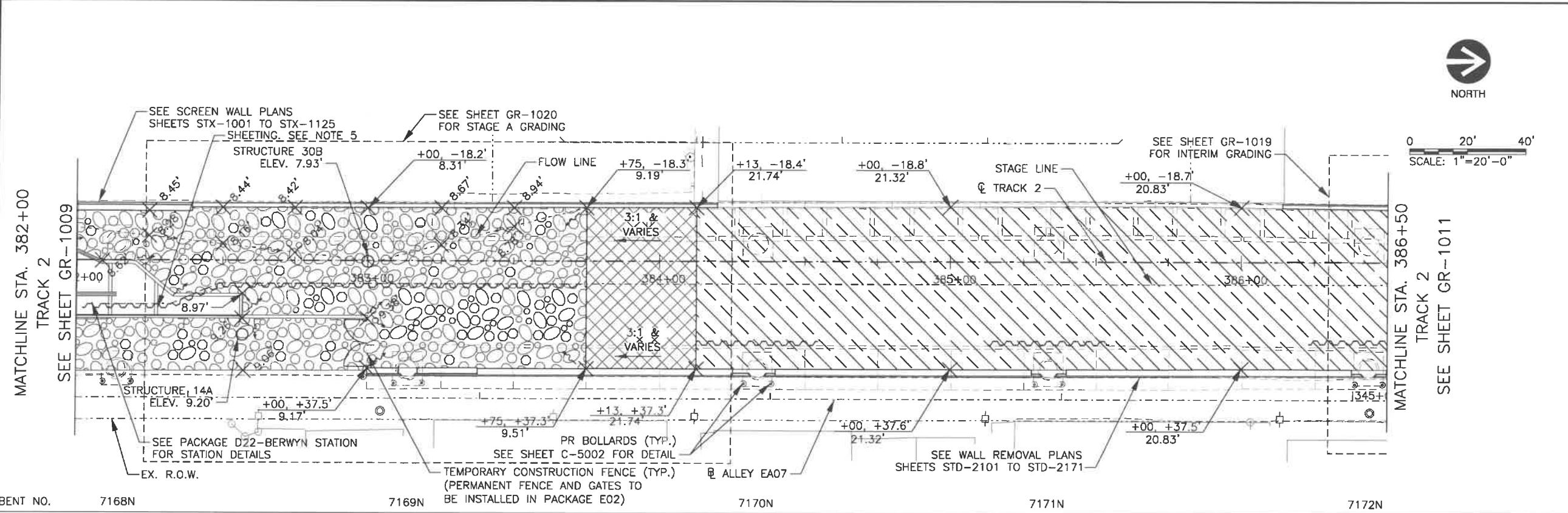
RED AND PURPLE MODERNIZATION (RPM)
PHASE ONE DESIGN-BUILD
CHICAGO, ILLINOIS

PROJECT NO:	2014-0017.06
IN CHARGE:	T. HANSSON
APPROVED BY:	S. CAIN
CHECKED BY:	S. CAIN
DESIGNED BY:	D. BRUSICH
DRAWN BY:	D. BRUSICH

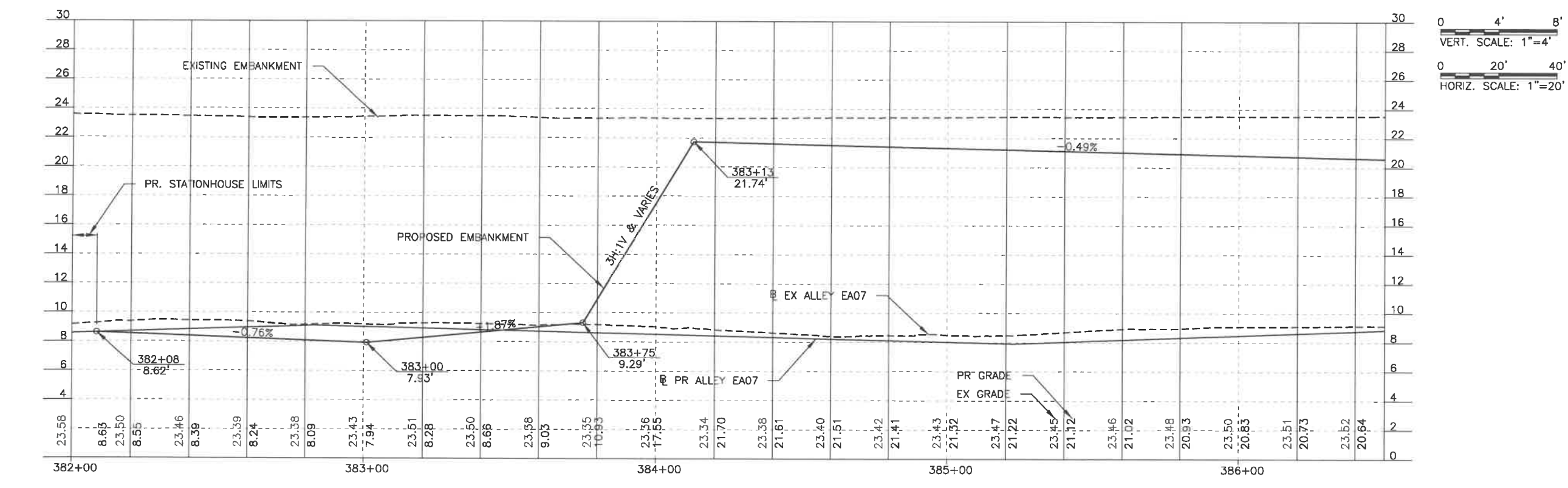
MARK	DATE	DESCRIPTION
0	05/07/2021	ISSUED FOR CONSTRUCTION

PLAN AND PROFILE FOSTER AVE. TO BERWYN AVE.

Plotted: 5/3/2021 4:43:58 PM
 Design File: 2014-0017.06-EJM D18-050.11-GR-1009.dgn



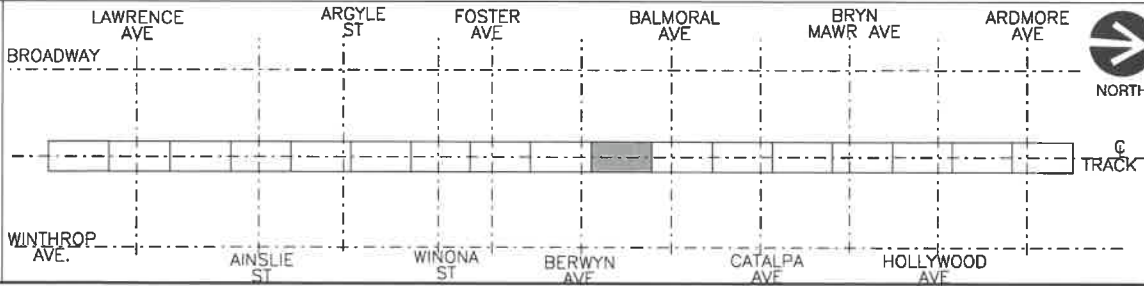
BENT NO. 7168N 7169N 7170N 7171N 7172N



- NOTES:**
1. ALL STATIONS, OFFSETS, AND PROFILES ARE BASED OFF OF PROPOSED C TRACK 2
 2. ALL EMBANKMENT MATERIAL MUST SLOPE AWAY FROM STATION AND SCREEN WALLS
 3. ELEVATIONS SHOWN ARE TOP OF DRAINAGE LAYER. SEE TABLE ON SHEET DR-6009 FOR VARYING DRAINAGE LAYER THICKNESS
 4. ALL POTENTIAL SPOIL AREAS MUST BE SLOPED AWAY FROM SCREEN WALLS AND REMOVED PRIOR TO CONSTRUCTION OF STATION DRILLED SHAFTS AND STAIRS
 5. FOR SHEETING DETAILS SEE STX SHEETS, IF SHEETING LEFT IN PLACE, SHEETING WILL BE CUT A MINIMUM OF 2' BELOW FINAL GRADE.
 6. HORIZONTAL DATUM IS NAD83 (2011) ILLINOIS EAST ZONE 1201. VERTICAL DATUM IS CHICAGO CITY DATUM (CCD). DETERMINED BY DIRECT CONNECTION TO PUBLISHED CITY OF CHICAGO BENCHMARKS. (NOTE THAT CCD IS APPROXIMATELY EQUIVALENT TO NAVD88-579.19')

LEGEND

	ALLEY GRADE		RAMPED EMBANKMENT
	FULL HEIGHT EMBANKMENT		FINAL GRADE CA-6 SURFACE
(FOR MATERIAL DETAILS, SEE TYPICAL SECTIONS)			
	FLOW ARROW		TYPICAL CALLOUT
	SHEETING		STA., OFFSET ELEVATION



ISSUED FOR CONSTRUCTION

WALSH FLUOR
DESIGN-BUILD TEAM

Stantec

TranSmart/EJM

CHICAGO TRANSIT AUTHORITY ENGINEERING

SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A NEED TO KNOW AS DEFINED IN 49 CFR PARTS 15 AND 1520. EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OF THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

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RED AND PURPLE MODERNIZATION (RPM)
PHASE ONE DESIGN-BUILD
CHICAGO, ILLINOIS

PROJECT NO:	2014-0017.06
IN CHARGE:	T. HANSSON
APPROVED BY:	S. CAIN
CHECKED BY:	S. CAIN
DESIGNED BY:	D. BRUSICH
DRAWN BY:	D. BRUSICH

0	05/07/2021	ISSUED FOR CONSTRUCTION
MARK	DATE	DESCRIPTION

PLAN AND PROFILE BERWYN AVE. TO BALMORAL AVE.

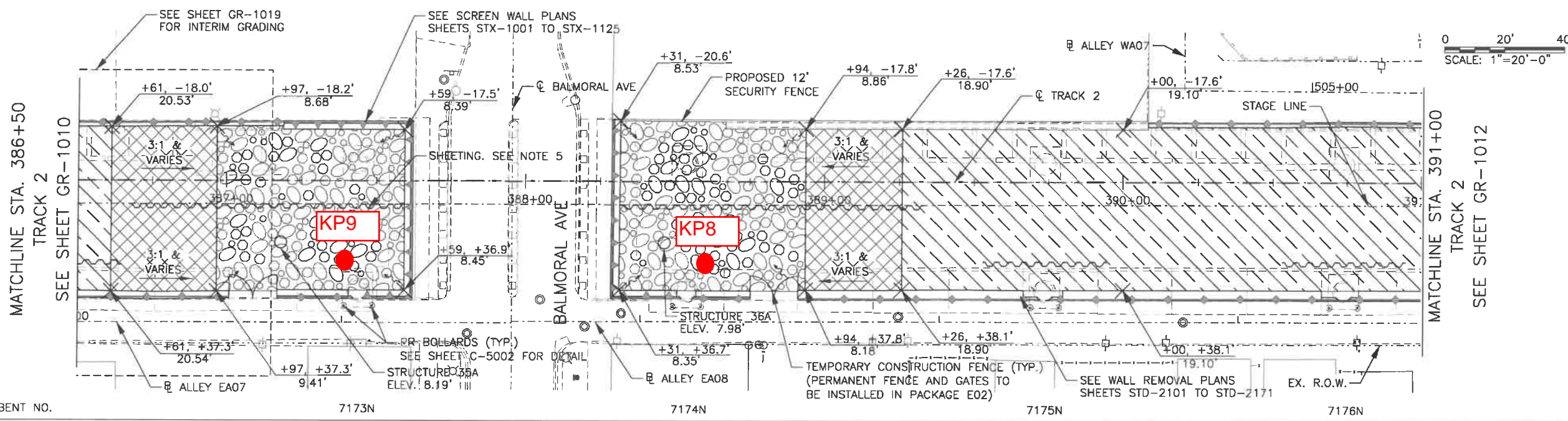
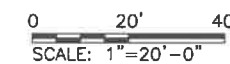
D18 GR-1010

VOLUME: 1 OF 1 PAGE: 229 OF 524

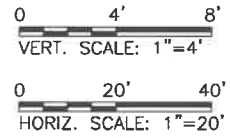
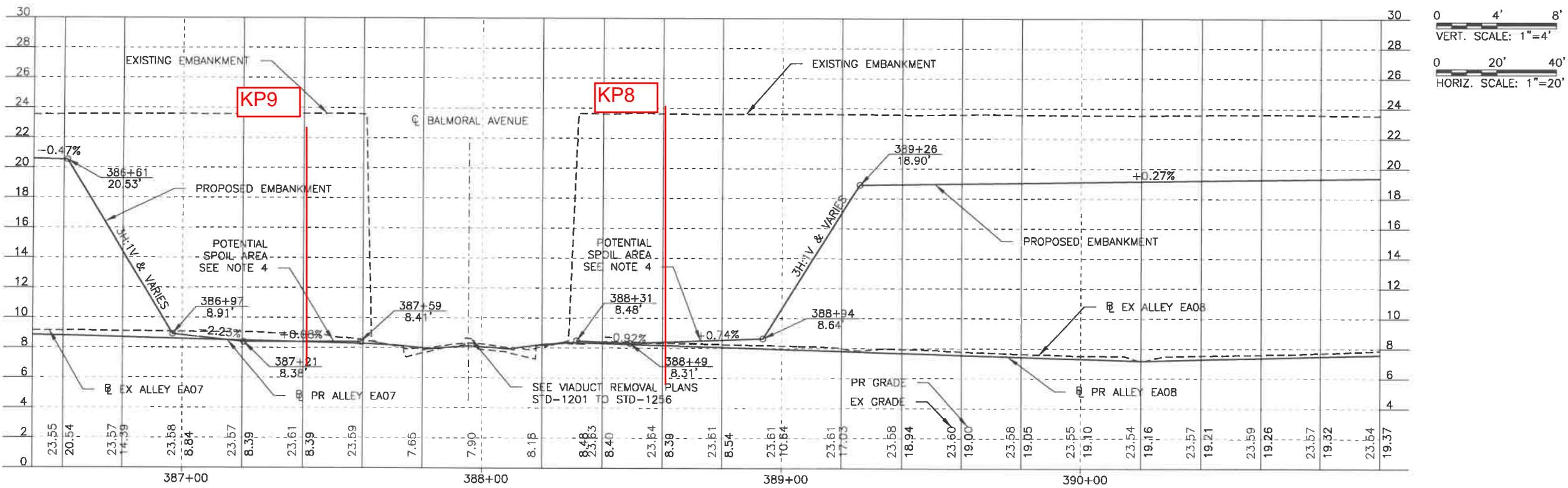
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NORTH



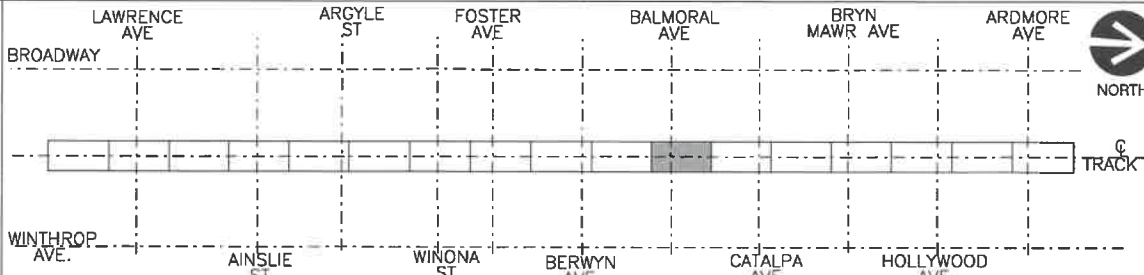
BENT NO. 7173N 7174N 7175N 7176N



- NOTES:**
1. ALL STATIONS, OFFSETS, AND PROFILES ARE BASED OFF OF PROPOSED ϕ TRACK 2
 2. ALL EMBANKMENT MATERIAL MUST SLOPE AWAY FROM STATION AND SCREEN WALLS
 3. ELEVATIONS SHOWN ARE TOP OF DRAINAGE LAYER. SEE TABLE ON SHEET DR-6009 FOR VARYING DRAINAGE LAYER THICKNESS
 4. ALL POTENTIAL SPOIL AREAS MUST BE SLOPED AWAY FROM SCREEN WALLS AND REMOVED PRIOR TO CONSTRUCTION OF STATION DRILLED SHAFTS AND STAIRS
 5. FOR SHEETING DETAILS SEE STX SHEETS. IF SHEETING LEFT IN PLACE, SHEETING WILL BE CUT A MINIMUM OF 2' BELOW FINAL GRADE.
 6. HORIZONTAL DATUM IS NAD83 (2011) ILLINOIS EAST ZONE 1201. VERTICAL DATUM IS CHICAGO CITY DATUM (CCD). DETERMINED BY DIRECT CONNECTION TO PUBLISHED CITY OF CHICAGO BENCHMARKS. (NOTE THAT CCD IS APPROXIMATELY EQUIVALENT TO NAVD88-579.19')

LEGEND

	ALLEY GRADE		RAMPED EMBANKMENT
	FULL HEIGHT EMBANKMENT		FINAL GRADE CA-6 SURFACE
(FOR MATERIAL DETAILS, SEE TYPICAL SECTIONS)			
	FLOW ARROW		TYPICAL CALLOUT
	SHEETING		STA., OFFSET ELEVATION



ISSUED FOR CONSTRUCTION



SENSITIVE SECURITY INFORMATION
WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A NEED TO KNOW AS DEFINED BY 49 CFR PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

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RED AND PURPLE MODERNIZATION (RPM) PHASE ONE DESIGN-BUILD
CHICAGO, ILLINOIS

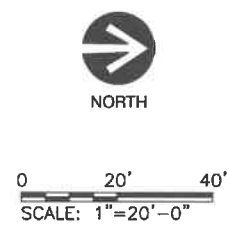
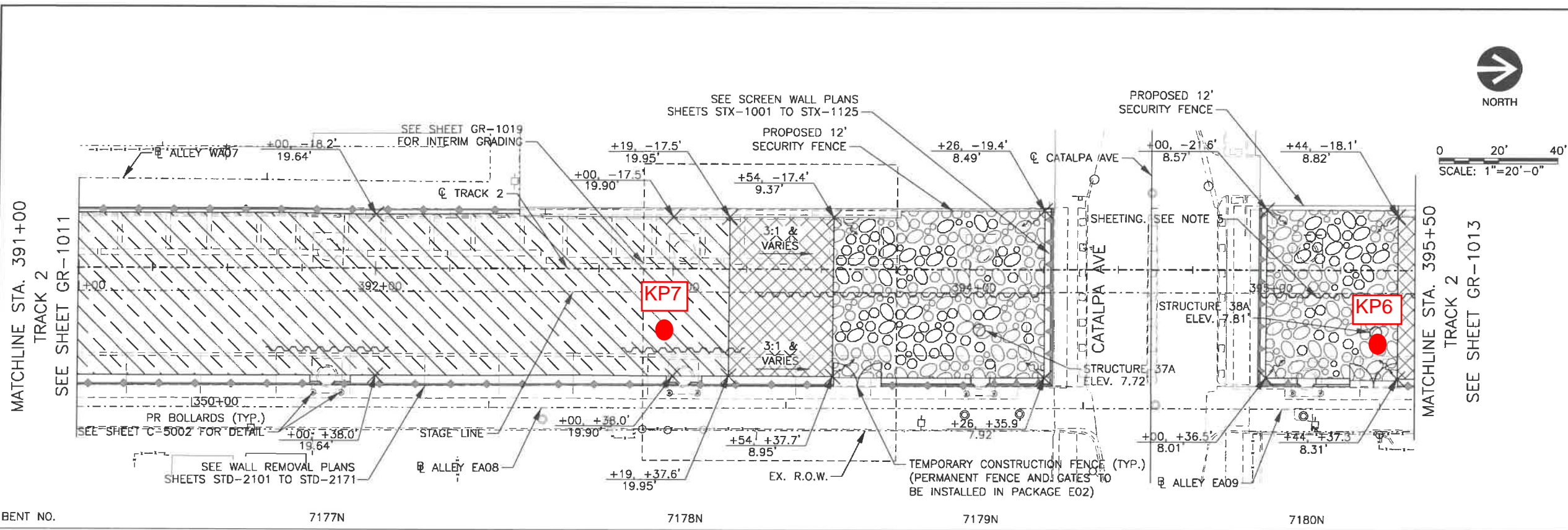
PROJECT NO:	2014-0017.06
IN CHARGE:	T. HANSSON
APPROVED BY:	S. CAIN
CHECKED BY:	S. CAIN
DESIGNED BY:	D. BRUSICH
DRAWN BY:	D. BRUSICH

0	05/07/2021	ISSUED FOR CONSTRUCTION
MARK	DATE	DESCRIPTION

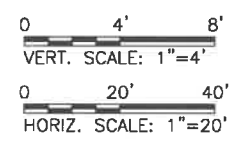
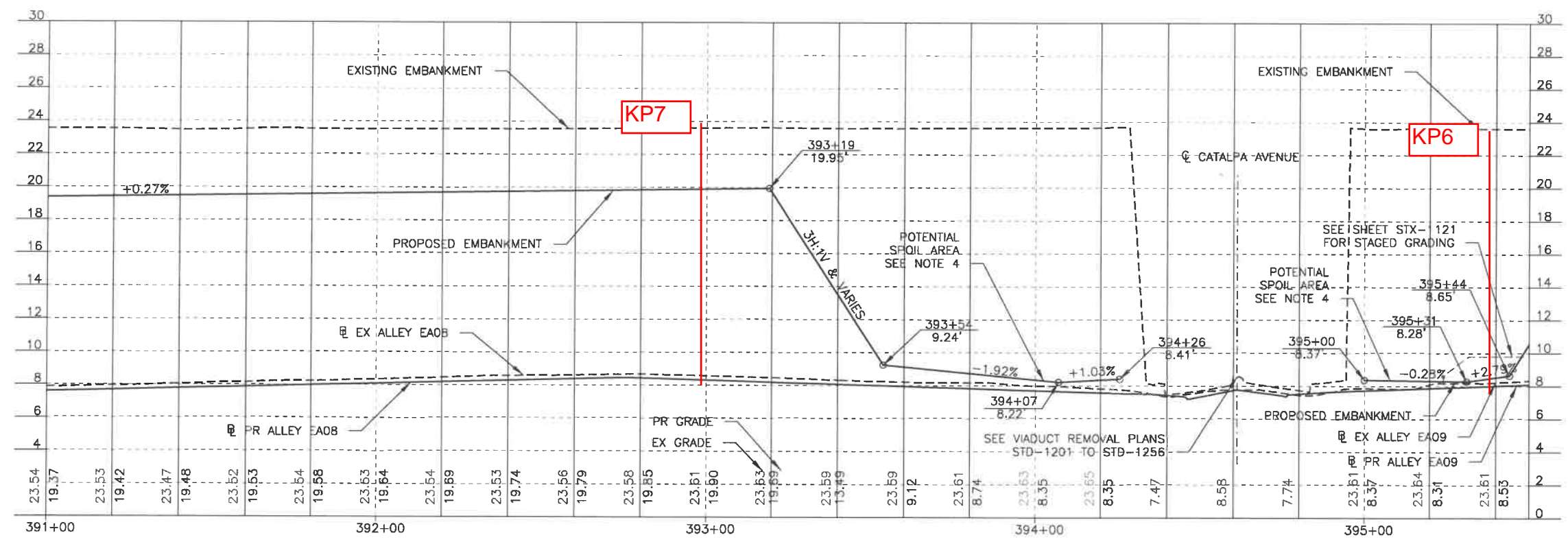
PLAN AND PROFILE BALMORAL AVENUE

D18 GR-1011
VOLUME: 1 OF 1 PAGE: 230 OF 524

Plotfile: 5/3/2021 4:15:53 PM
Design File: 2014-0017.06-EJM_D18-050.11-GR-1011.dgn



BENT NO. 7177N 7178N 7179N 7180N

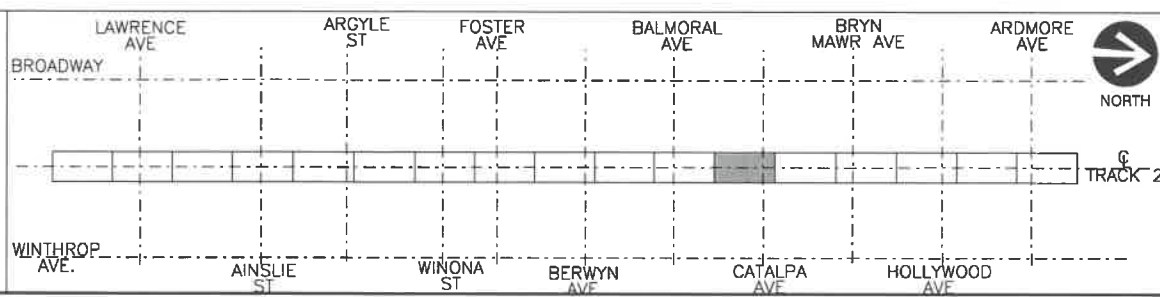


- NOTES:**
1. ALL STATIONS, OFFSETS, AND PROFILES ARE BASED OFF OF PROPOSED C TRACK 2
 2. ALL EMBANKMENT MATERIAL MUST SLOPE AWAY FROM STATION AND SCREEN WALLS
 3. ELEVATIONS SHOWN ARE TOP OF DRAINAGE LAYER. SEE TABLE ON SHEET DR-6009 FOR VARYING DRAINAGE LAYER THICKNESS
 4. ALL POTENTIAL SPOIL AREAS MUST BE SLOPED AWAY FROM SCREEN WALLS AND REMOVED PRIOR TO CONSTRUCTION OF STATION DRILLED SHAFTS AND STAIRS
 5. FOR SHEETING DETAILS SEE STX SHEETS. IF SHEETING LEFT IN PLACE, SHEETING WILL BE CUT A MINIMUM OF 2' BELOW FINAL GRADE.
 6. HORIZONTAL DATUM IS NAD83 (2011) ILLINOIS EAST ZONE 1201. VERTICAL DATUM IS CHICAGO CITY DATUM (CCD). DETERMINED BY DIRECT CONNECTION TO PUBLISHED CITY OF CHICAGO BENCHMARKS. (NOTE THAT CCD IS APPROXIMATELY EQUIVALENT TO NAVD88-579.19')

LEGEND

	ALLEY GRADE		RAMPED EMBANKMENT
	FULL HEIGHT EMBANKMENT		FINAL GRADE
	FLOW ARROW		CA-6 SURFACE
	SHEETING		TYPICAL CALLOUT
	STA., OFFSET ELEVATION		

(FOR MATERIAL DETAILS, SEE TYPICAL SECTIONS)



ISSUED FOR CONSTRUCTION

WALSH FLUOR
DESIGN-BUILD TEAM

Stantec

TranSmart/EJM

cta CHICAGO TRANSIT AUTHORITY ENGINEERING

SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1620. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW" AS DEFINED IN 49 CFR PARTS 15 AND 1620. EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION FOR U.S. GOVERNMENT AGENCIES. PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1620.

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RED AND PURPLE MODERNIZATION (RPM) PHASE ONE DESIGN-BUILD
CHICAGO, ILLINOIS

PROJECT NO:	2014-0017.06
IN CHARGE:	T. HANSSON
APPROVED BY:	S. CAIN
CHECKED BY:	S. CAIN
DESIGNED BY:	D. BRUSICH
DRAWN BY:	D. BRUSICH

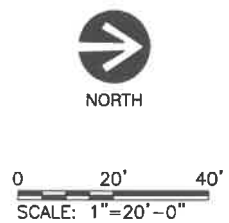
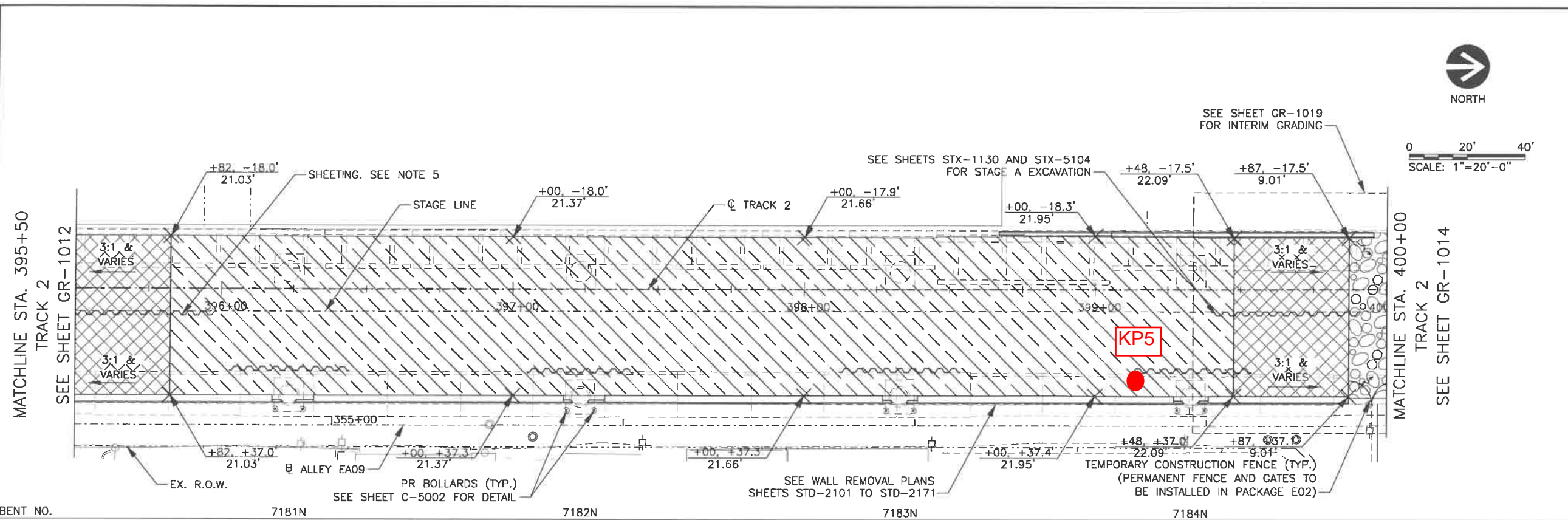
MARK	DATE	DESCRIPTION
0	05/07/2021	ISSUED FOR CONSTRUCTION

PLAN AND PROFILE CATALPA AVENUE

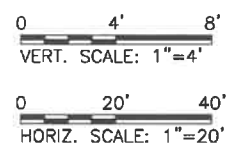
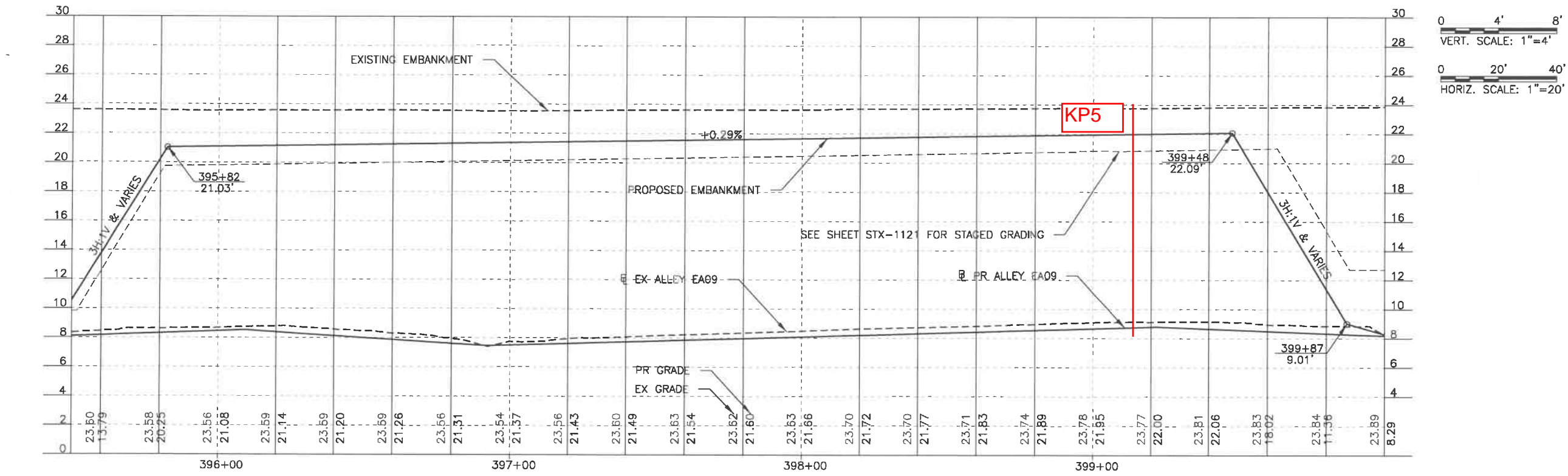
D18 GR-1012

VOLUME: 1 OF 1 PAGE: 231 OF 524

Plotted: 5/3/2021 5:02:18 PM
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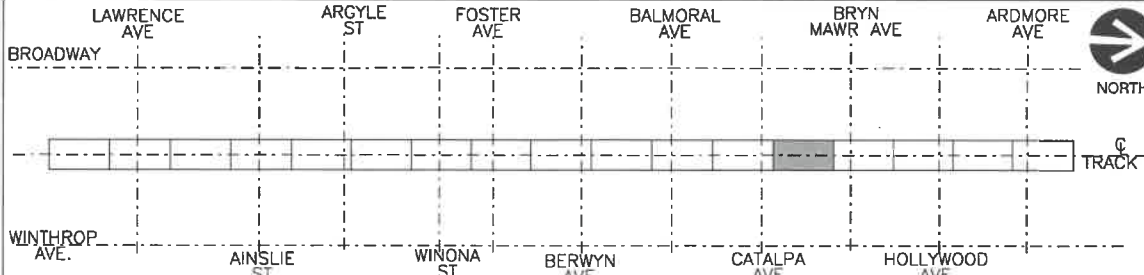
BENT NO. 7181N 7182N 7183N 7184N



- NOTES:**
1. ALL STATIONS, OFFSETS, AND PROFILES ARE BASED OFF OF PROPOSED $\text{\textcircled{C}}$ TRACK 2
 2. ALL EMBANKMENT MATERIAL MUST SLOPE AWAY FROM STATION AND SCREEN WALLS
 3. ELEVATIONS SHOWN ARE TOP OF DRAINAGE LAYER. SEE TABLE ON SHEET DR-6009 FOR VARYING DRAINAGE LAYER THICKNESS
 4. ALL POTENTIAL SPOIL AREAS MUST BE SLOPED AWAY FROM SCREEN WALLS AND REMOVED PRIOR TO CONSTRUCTION OF STATION DRILLED SHAFTS AND STAIRS
 5. FOR SHEETING DETAILS SEE STX SHEETS. IF SHEETING LEFT IN PLACE, SHEETING WILL BE CUT A MINIMUM OF 2' BELOW FINAL GRADE.
 6. HORIZONTAL DATUM IS NAD83 (2011) ILLINOIS EAST ZONE 1201. VERTICAL DATUM IS CHICAGO CITY DATUM (CCD), DETERMINED BY DIRECT CONNECTION TO PUBLISHED CITY OF CHICAGO BENCHMARKS. (NOTE THAT CCD IS APPROXIMATELY EQUIVALENT TO NAVD88-579.19')

LEGEND

	ALLEY GRADE		RAMPED EMBANKMENT
	FULL HEIGHT EMBANKMENT		FINAL GRADE CA-6 SURFACE
(FOR MATERIAL DETAILS, SEE TYPICAL SECTIONS)			
	FLOW ARROW		TYPICAL CALLOUT
	SHEETING		STA., OFFSET ELEVATION



ISSUED FOR CONSTRUCTION

WALSH FLUOR
DESIGN BUILD TEAM

Stantec

TranSmart/EJM

CHICAGO TRANSIT AUTHORITY ENGINEERING

SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A NEED TO KNOW AS DERIVED BY 49 CFR PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

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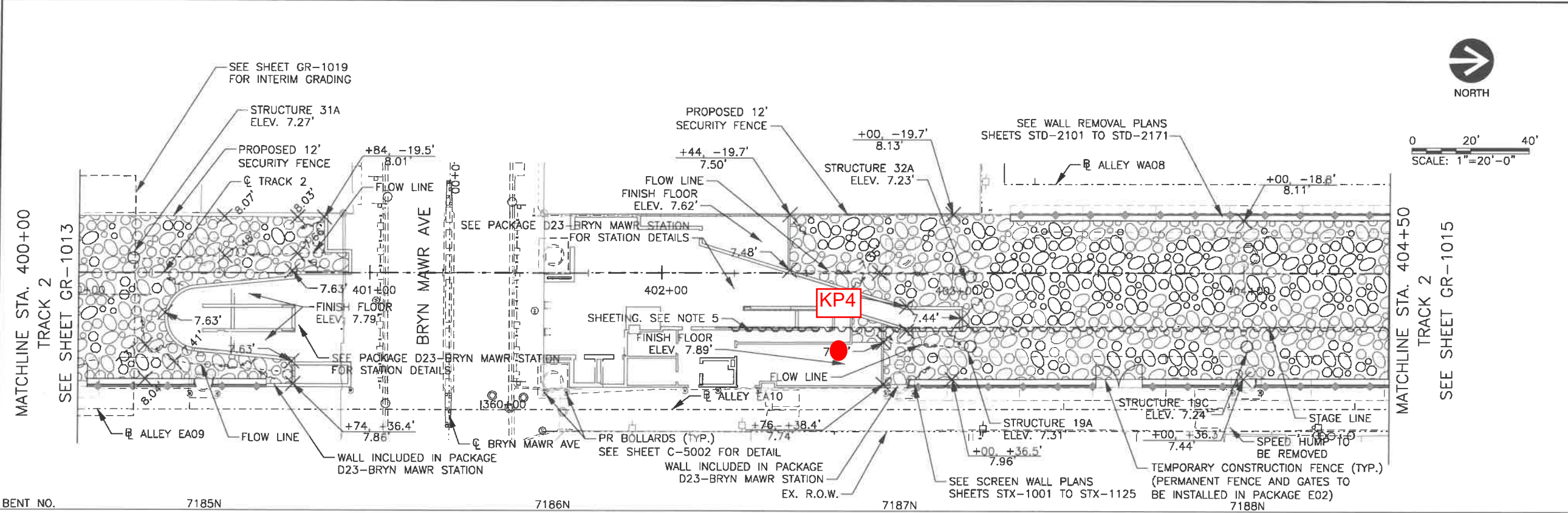
RED AND PURPLE MODERNIZATION (RPM)
PHASE ONE DESIGN-BUILD
CHICAGO, ILLINOIS

PROJECT NO:	2014-0017.06
IN CHARGE:	T. HANSSON
APPROVED BY:	S. CAIN
CHECKED BY:	S. CAIN
DESIGNED BY:	D. BRUSICH
DRAWN BY:	D. BRUSICH

0	05/07/2021	ISSUED FOR CONSTRUCTION
MARK	DATE	DESCRIPTION

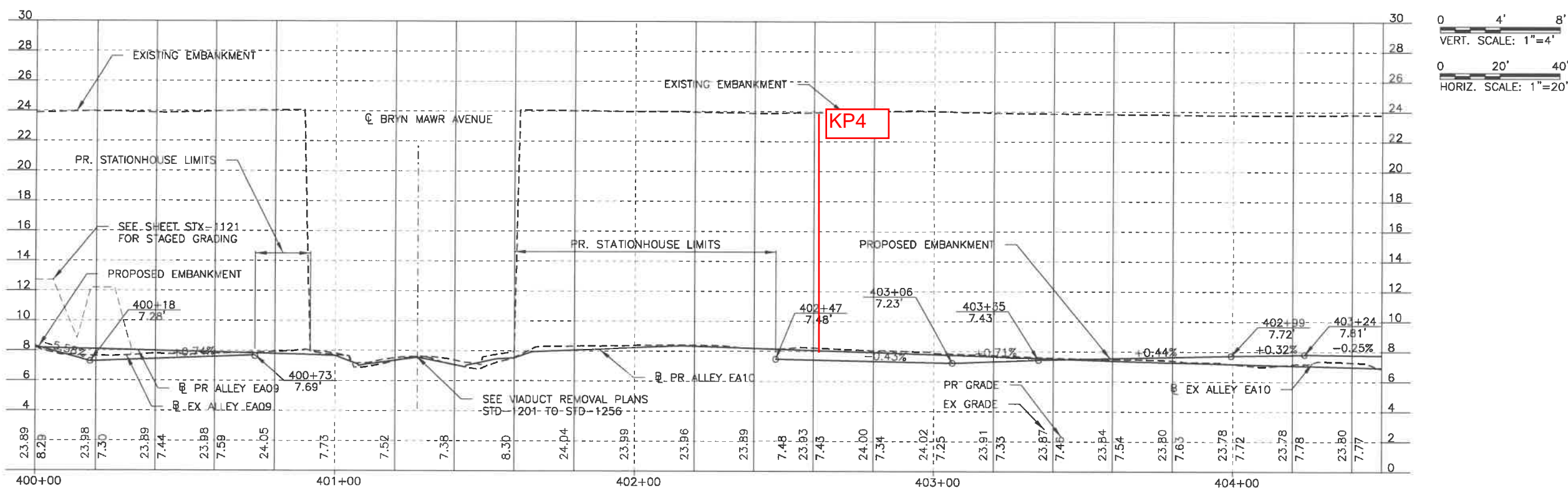
PLAN AND PROFILE CATALPA AVE. TO BRYN MAWR AVE.

Plotted: 5/3/2021 4:45:26 PM
 Design File: 2014-0017.06-EJM D18-d60.11-GR-1013.dgn



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SCALE: 1"=20'-0"

BENT NO. 7185N 7186N 7187N 7188N

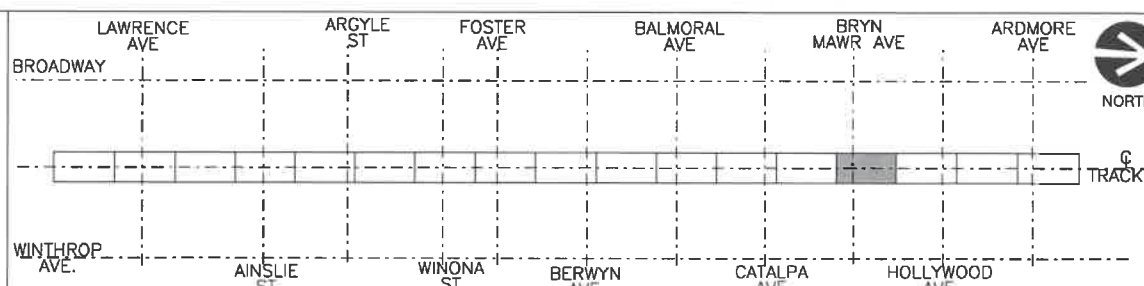


0 4' 8'
VERT. SCALE: 1"=4'
0 20' 40'
HORIZ. SCALE: 1"=20'

- NOTES:**
1. ALL STATIONS, OFFSETS, AND PROFILES ARE BASED OFF OF PROPOSED © TRACK 2
 2. ALL EMBANKMENT MATERIAL MUST SLOPE AWAY FROM STATION AND SCREEN WALLS
 3. ELEVATIONS SHOWN ARE TOP OF DRAINAGE LAYER. SEE TABLE ON SHEET DR-6009 FOR VARYING DRAINAGE LAYER THICKNESS
 4. ALL POTENTIAL SPOIL AREAS MUST BE SLOPED AWAY FROM SCREEN WALLS AND REMOVED PRIOR TO CONSTRUCTION OF STATION DRILLED SHAFTS AND STAIRS FOR SHEETING DETAILS SEE STX SHEETS. IF SHEETING LEFT IN PLACE, SHEETING WILL BE CUT A MINIMUM OF 2' BELOW FINAL GRADE.
 5. HORIZONTAL DATUM IS NAD83 (2011) ILLINOIS EAST ZONE 1201. VERTICAL DATUM IS CHICAGO CITY DATUM (CCD). DETERMINED BY DIRECT CONNECTION TO PUBLISHED CITY OF CHICAGO BENCHMARKS. (NOTE THAT CCD IS APPROXIMATELY EQUIVALENT TO NAVD88-579.19')

LEGEND

	ALLEY GRADE		RAMPED EMBANKMENT
	FULL HEIGHT EMBANKMENT		FINAL GRADE CA-6 SURFACE
(FOR MATERIAL DETAILS, SEE TYPICAL SECTIONS)			
	FLOW ARROW		TYPICAL CALLOUT
	SHEETING		STA., OFFSET ELEVATION



ISSUED FOR CONSTRUCTION



SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 48 CFR PARTS 15 AND 1201. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW" AS DEFINED BY 48 CFR PARTS 15 AND 1201. EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION, FOR U.S. GOVERNMENT AGENCIES. PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1201.

DRAWING SCALE IS NOT GUARANTEED. CTA ASSUMES NO RISK OF LIABILITY FOR ERRORS CAUSED, DIRECTLY OR INDIRECTLY, BY SCALING OF THIS DRAWING.

RED AND PURPLE MODERNIZATION (RPM)
PHASE ONE DESIGN-BUILD
CHICAGO, ILLINOIS

PROJECT NO:	2014-0017.06
IN CHARGE:	T. HANSSON
APPROVED BY:	S. CAIN
CHECKED BY:	S. CAIN
DESIGNED BY:	D. BRUSICH
DRAWN BY:	D. BRUSICH

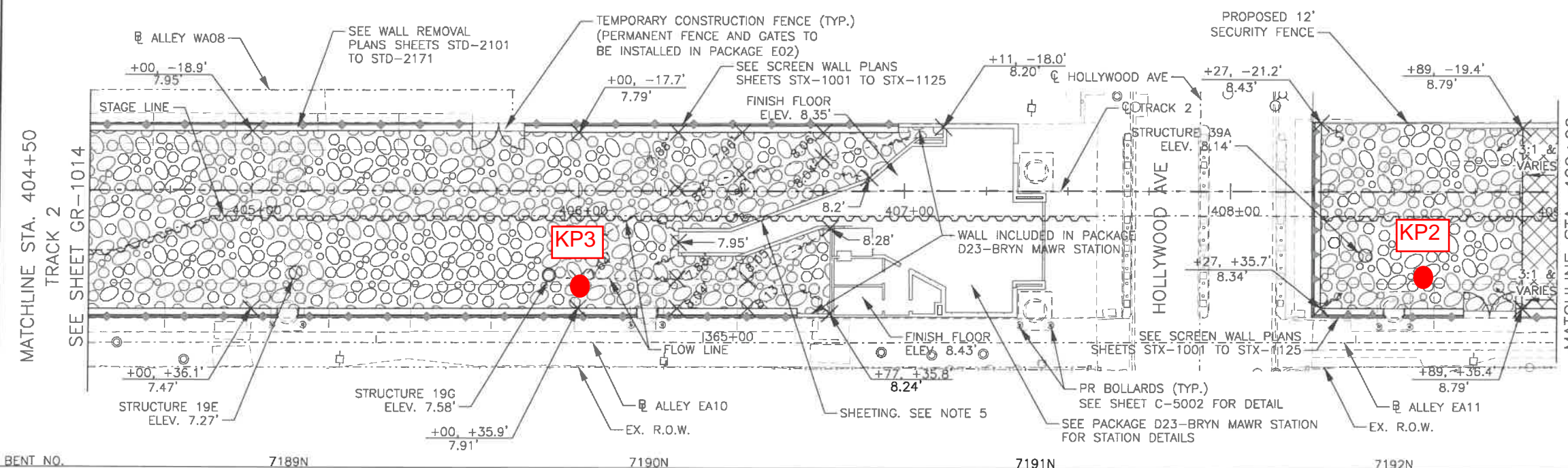
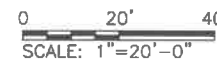
MARK	DATE	DESCRIPTION
0	05/07/2021	ISSUED FOR CONSTRUCTION

PLAN AND PROFILE BRYN MAWR AVENUE

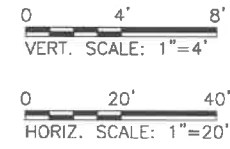
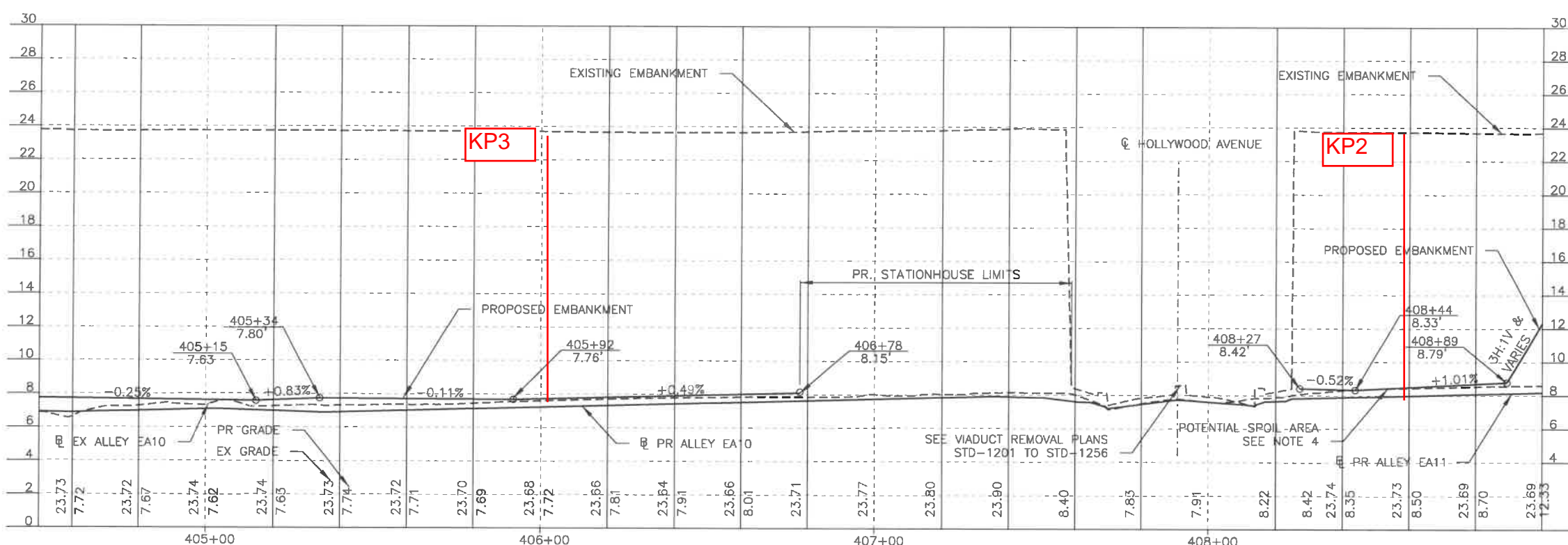
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NORTH



BENT NO. 7189N 7190N 7191N 7192N

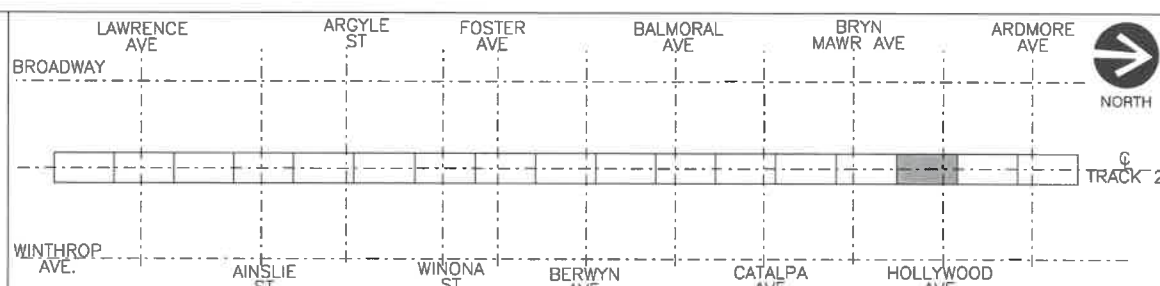


- NOTES:**
1. ALL STATIONS, OFFSETS, AND PROFILES ARE BASED OFF OF PROPOSED C TRACK 2
 2. ALL EMBANKMENT MATERIAL MUST SLOPE AWAY FROM STATION AND SCREEN WALLS
 3. ELEVATIONS SHOWN ARE TOP OF DRAINAGE LAYER. SEE TABLE ON SHEET DR-6009 FOR VARYING DRAINAGE LAYER THICKNESS
 4. ALL POTENTIAL SPOIL AREAS MUST BE SLOPED AWAY FROM SCREEN WALLS AND REMOVED PRIOR TO CONSTRUCTION OF STATION DRILLED SHAFTS AND STAIRS
 5. FOR SHEETING DETAILS SEE STX SHEETS. IF SHEETING LEFT IN PLACE, SHEETING WILL BE CUT A MINIMUM OF 2' BELOW FINAL GRADE.
 6. HORIZONTAL DATUM IS NAD83 (2011) ILLINOIS EAST ZONE 1201. VERTICAL DATUM IS CHICAGO CITY DATUM (CCD). DETERMINED BY DIRECT CONNECTION TO PUBLISHED CITY OF CHICAGO BENCHMARKS. (NOTE THAT CCD IS APPROXIMATELY EQUIVALENT TO NAVD88-579.19')

LEGEND

	ALLEY GRADE		RAMPED EMBANKMENT
	FULL HEIGHT EMBANKMENT		FINAL GRADE
	FLOW ARROW		CA-6 SURFACE
	SHEETING		TYPICAL CALLOUT
	STA., OFFSET		ELEVATION

(FOR MATERIAL DETAILS, SEE TYPICAL SECTIONS)



ISSUED FOR CONSTRUCTION

WALSH FLUOR
DESIGN-BUILD TEAM

Stantec

TranSmart/EJM

cta CHICAGO TRANSIT AUTHORITY ENGINEERING

SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 158C. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW" AS DEFINED IN 49 CFR PARTS 15 AND 158C. EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OF THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN FINE, PENALTY OR OTHER ACTION, FOR U.S. GOVERNMENT AGENCIES. PUBLIC DISCLOSURE IS PROHIBITED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 158C.

DRAWING SCALE IS NOT GUARANTEED. CTA ASSUMES NO RISK OF LIABILITY FOR ERRORS CAUSED, DIRECTLY OR INDIRECTLY, BY SCALING OF THIS DRAWING.

RED AND PURPLE MODERNIZATION (RPM)
PHASE ONE DESIGN-BUILD
CHICAGO, ILLINOIS

PROJECT NO:	2014-0017.06
IN CHARGE:	T. HANSSON
APPROVED BY:	S. CAIN
CHECKED BY:	S. CAIN
DESIGNED BY:	D. BRUSICH
DRAWN BY:	D. BRUSICH

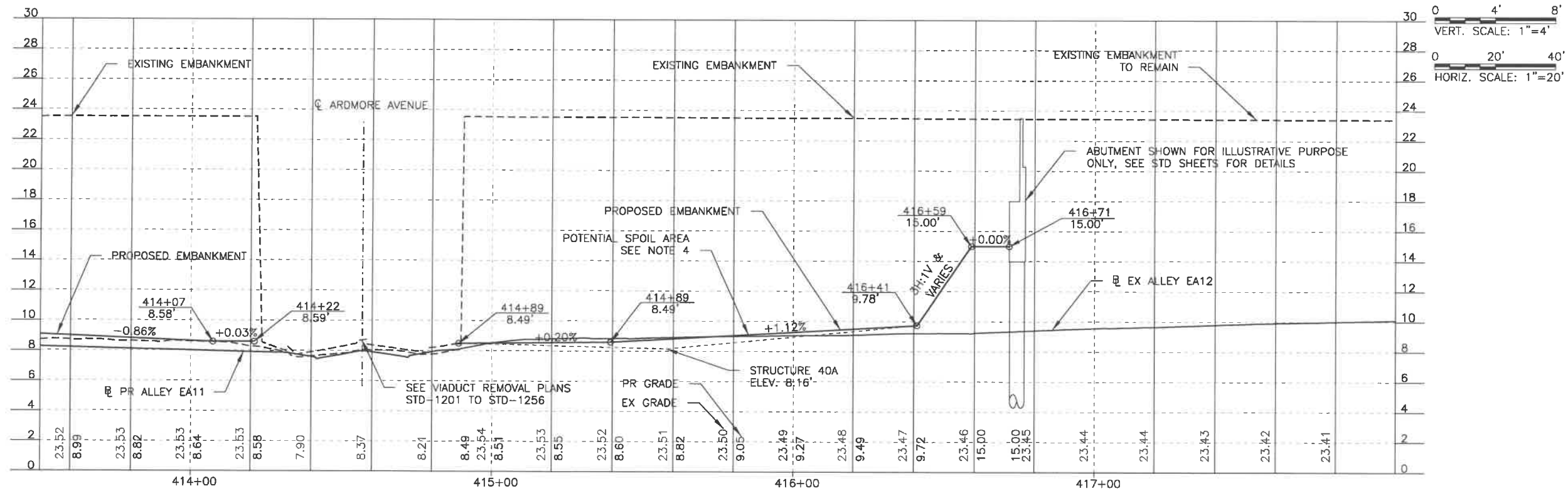
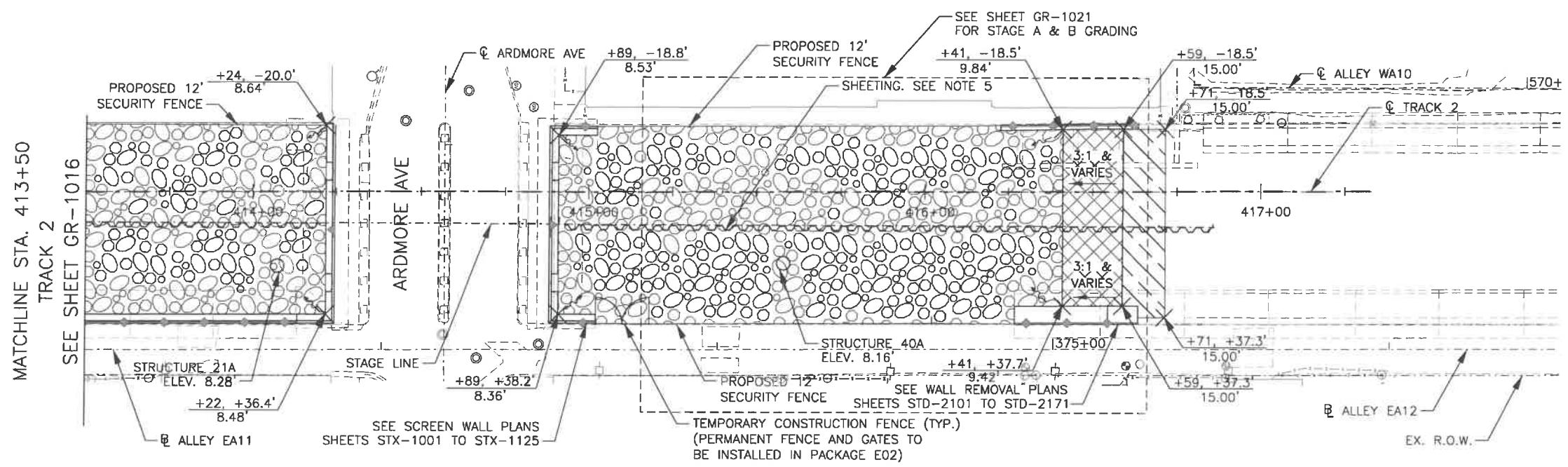
MARK	DATE	DESCRIPTION
0	05/07/2021	ISSUED FOR CONSTRUCTION

PLAN AND PROFILE HOLLYWOOD AVENUE

Plotted: 5/3/2021 4:34:32 PM
Design File: 2014-0017-06-EJM_D18-05011-GR-1015.dgn



0 20' 40'
SCALE: 1"=20'-0"

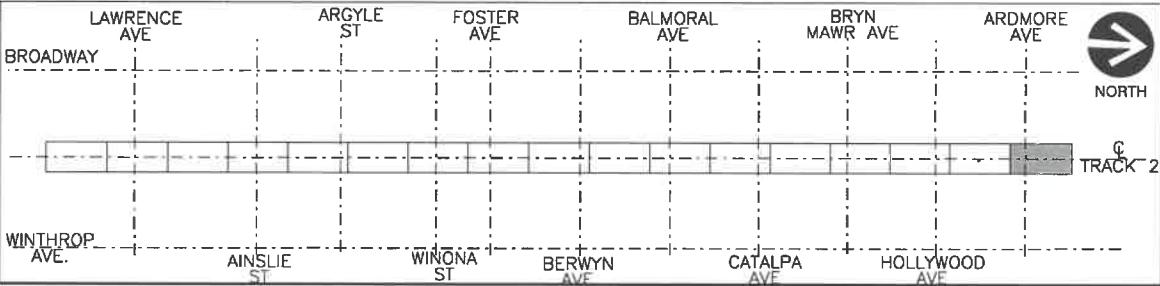


- NOTES:**
1. ALL STATIONS, OFFSETS, AND PROFILES ARE BASED OFF OF PROPOSED C TRACK 2
 2. ALL EMBANKMENT MATERIAL MUST SLOPE AWAY FROM STATION AND SCREEN WALLS
 3. ELEVATIONS SHOWN ARE TOP OF DRAINAGE LAYER. SEE TABLE ON SHEET DR-6009 FOR VARYING DRAINAGE LAYER THICKNESS
 4. ALL POTENTIAL SPOIL AREAS MUST BE SLOPED AWAY FROM SCREEN WALLS AND REMOVED PRIOR TO CONSTRUCTION OF STATION DRILLED SHAFTS AND STAIRS
 5. FOR SHEETING DETAILS SEE STX SHEETS. IF SHEETING LEFT IN PLACE, SHEETING WILL BE CUT A MINIMUM OF 2' BELOW FINAL GRADE.
 6. HORIZONTAL DATUM IS NAD83 (2011) ILLINOIS EAST ZONE 1201. VERTICAL DATUM IS CHICAGO CITY DATUM (CCD). DETERMINED BY DIRECT CONNECTION TO PUBLISHED CITY OF CHICAGO BENCHMARKS. (NOTE THAT CCD IS APPROXIMATELY EQUIVALENT TO NAVD88-579.19')

LEGEND

	ALLEY GRADE		RAMPED EMBANKMENT
	FULL HEIGHT EMBANKMENT		FINAL GRADE CA-6 SURFACE
	FLOW ARROW		TYPICAL CALLOUT
	SHEETING		STA., OFFSET ELEVATION

(FOR MATERIAL DETAILS, SEE TYPICAL SECTIONS)



ISSUED FOR CONSTRUCTION



SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW" AS OBTAINED IN 49 CFR PARTS 15 AND 1520 EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CRIMINAL PENALTY OF OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

DRAWING SCALE IS NOT GUARANTEED. CTA ASSUMES NO RISK OF LIABILITY FOR ERRORS CAUSED, DIRECTLY OR INDIRECTLY, BY SCALING OF THIS DRAWING.

RED AND PURPLE MODERNIZATION (RPM) PHASE ONE DESIGN-BUILD CHICAGO, ILLINOIS

PROJECT NO:	2014-0017.06
IN CHARGE:	T. HANSSON
APPROVED BY:	S. CAIN
CHECKED BY:	S. CAIN
DESIGNED BY:	D. BRUSICH
DRAWN BY:	D. BRUSICH

MARK	DATE	DESCRIPTION
0	05/07/2021	ISSUED FOR CONSTRUCTION

PLAN AND PROFILE ARDMORE AVENUE

Plotted: 5/3/2021 4:16:53 PM
Design File: 2014-0017.06-EJM_D18-050.11-GR-1017.dgn

APPENDIX B
BORING LOGS



TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP1		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 413	
PROJECT NUMBER 31034		GEOLOGIST Susan Iskowich and Jessica Madsen		DRILLING CONTRACTOR Enviro-Dynamics	
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves	
WELL INSTALLED? no		SCREEN: _____		START - FINISH DATE 6/2/2021-6/2/2021	
ELEVATION OF: (FT. ABOVE M.S.L.)		TOP OF WELL CASING _____		DATE _____	

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty SAND, dry		
6						brown sandy silty CLAY, dry		
8								
10						brown coarse SAND, dry		
12								
14						EOB @ 16 ft. bgs		
16								
18								
20								





TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP2		PROJECT NUMBER 31034		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 409	
GEOLOGIST Susan Iskowich and Jessica Madsen				DRILLING CONTRACTOR Enviro-Dynamics			
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves		START - FINISH DATE 6/2/2021-6/2/2021	
WELL INSTALLED? no	CASING MAT. / DIAMETER	SCREEN:	TYPE	MATERIAL	LENGTH	DIAMETER	SLOT SIZE
ELEVATION OF: (FT. ABOVE M.S.L.)		GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM OF SCREEN		GW SURFACE	DATE

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty SAND, dry		
6								
8						brown sandy silty CLAY, dry		
10								
12								
14						brown coarse SAND, dry		
16								
18						EOB @ 16 ft. bgs		
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
	CLAY	WATER DEPTH



TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP3		PROJECT NUMBER 31034		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 406	
GEOLOGIST Susan Iskowich and Jessica Madsen				DRILLING CONTRACTOR Enviro-Dynamics			
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 3 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves		START - FINISH DATE 6/2/2021-6/2/2021	
WELL INSTALLED? no	CASING MAT. / DIAMETER	SCREEN:	TYPE	MATERIAL	LENGTH	DIAMETER	SLOT SIZE
ELEVATION OF: (FT. ABOVE M.S.L.)		GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM OF SCREEN		GW SURFACE	DATE

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty SAND, dry		
6								
8						brown sandy silty CLAY, dry		
10								
12								
14						brown coarse SAND, dry		
16								
18						EOB @ 17 ft. bgs due to refusal - hit wood		
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
	CLAY	WATER DEPTH



TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP4		PROJECT NUMBER 31034		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 403	
GEOLOGIST Susan Iskowich and Jessica Madsen				DRILLING CONTRACTOR Enviro-Dynamics			
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves		START - FINISH DATE 6/4/2021-6/4/2021	
WELL INSTALLED? no	CASING MAT. / DIAMETER	SCREEN:	TYPE	MATERIAL	LENGTH	DIAMETER	SLOT SIZE
ELEVATION OF: (FT. ABOVE M.S.L.)		GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM OF SCREEN		GW SURFACE	DATE

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty SAND, dry		
6								
8						brown sandy silty CLAY, dry		
10								
12								
14						brown coarse SAND, dry		
16								
18						EOB @ 16 ft. bgs		
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
CLAY	WATER DEPTH	



TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP5		PROJECT NUMBER 31034		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 399	
GEOLOGIST Susan Iskowich and Jessica Madsen				DRILLING CONTRACTOR Enviro-Dynamics			
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves		START - FINISH DATE 6/4/2021-6/4/2021	
WELL INSTALLED? no	CASING MAT. / DIAMETER	SCREEN:	TYPE	MATERIAL	LENGTH	DIAMETER	SLOT SIZE
ELEVATION OF: GROUND SURFACE		TOP OF WELL CASING		TOP & BOTTOM OF SCREEN		GW SURFACE	DATE

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty SAND, dry		
6								
8						brown sandy silty CLAY, dry		
10								
12								
14						brown coarse SAND, dry		
16								
18						EOB @ 16 ft. bgs		
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
CLAY	WATER DEPTH	



WATER DEPTH
TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP6		PROJECT NUMBER 31034		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 395+5	
GEOLOGIST Susan Iskovich and Jessica Madsen				DRILLING CONTRACTOR Enviro-Dynamics			
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves		START - FINISH DATE 6/4/2021-6/4/2021	
WELL INSTALLED? no	CASING MAT. / DIAMETER	SCREEN:	TYPE	MATERIAL	LENGTH	DIAMETER	SLOT SIZE
ELEVATION OF: GROUND SURFACE		TOP OF WELL CASING		TOP & BOTTOM OF SCREEN		GW SURFACE	DATE
(FT. ABOVE M.S.L.)							

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty SAND, dry		
6								
8						brown sandy silty CLAY, dry		
10								
12								
14						brown coarse SAND, dry		
16								
18						EOB @ 16 ft. bgs		
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
	CLAY	WATER DEPTH



WATER DEPTH
TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP7		PROJECT NUMBER 31034		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 393	
GEOLOGIST Susan Iskovich and Jessica Madsen				DRILLING CONTRACTOR Enviro-Dynamics			
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves		START - FINISH DATE 6/4/2021-6/4/2021	
WELL INSTALLED? no	CASING MAT. / DIAMETER	SCREEN:	TYPE	MATERIAL	LENGTH	DIAMETER	SLOT SIZE
ELEVATION OF: GROUND SURFACE		TOP OF WELL CASING		TOP & BOTTOM OF SCREEN		GW SURFACE	DATE

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty SAND, dry		
6								
8						brown sandy silty CLAY, dry		
10								
12								
14						brown coarse SAND, dry		
16								
18						EOB @ 16 ft. bgs		
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
	CLAY	WATER DEPTH



WATER DEPTH
TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP8		PROJECT NUMBER 31034		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 388+5	
GEOLOGIST Susan Iskovich and Jessica Madsen				DRILLING CONTRACTOR Enviro-Dynamics			
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves		START - FINISH DATE 6/4/2021-6/4/2021	
WELL INSTALLED? no	CASING MAT. / DIAMETER	SCREEN:	TYPE	MATERIAL	LENGTH	DIAMETER	SLOT SIZE
ELEVATION OF: GROUND SURFACE		TOP OF WELL CASING		TOP & BOTTOM OF SCREEN		GW SURFACE	DATE

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty SAND, dry		
6								
8						brown sandy silty CLAY, dry		
10								
12								
14						brown coarse SAND, dry		
16								
18						EOB @ 16 ft. bgs		
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
	CLAY	WATER DEPTH



WATER DEPTH
TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP9		PROJECT NUMBER 31034		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 387+5	
GEOLOGIST Susan Iskowich and Jessica Madsen				DRILLING CONTRACTOR Enviro-Dynamics			
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push			SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves		START - FINISH DATE 6/24/2021-6/24/2021
WELL INSTALLED? no	CASING MAT. / DIAMETER	SCREEN:	TYPE	MATERIAL	LENGTH	DIAMETER	SLOT SIZE
ELEVATION OF: (FT. ABOVE M.S.L.)		GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM OF SCREEN	GW SURFACE	DATE	

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty SAND, dry		
6						brown sandy silty CLAY, dry		
8								
10						brown coarse SAND, dry		
12								
14						EOB @ 16 ft. bgs		
16								
18								
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
CLAY	WATER DEPTH	



WATER DEPTH
TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP10		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 382	
PROJECT NUMBER 31034		GEOLOGIST Susan Iskowich and Jessica Madsen		DRILLING CONTRACTOR Enviro-Dynamics	
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves	
WELL INSTALLED? no		CASING MAT. / DIAMETER		START - FINISH DATE 6/24/2021-6/24/2021	
ELEVATION OF: (FT. ABOVE M.S.L.)		GROUND SURFACE		TOP & BOTTOM OF SCREEN	
		TOP OF WELL CASING		GW SURFACE	
				DATE	

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty SAND, dry		
6						brown sandy silty CLAY, dry		
8								
10						brown coarse SAND, dry		
12								
14						EOB @ 16 ft. bgs		
16								
18								
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
	CLAY	WATER DEPTH



WATER DEPTH
TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP11		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 380	
PROJECT NUMBER 31034		GEOLOGIST Susan Iskovich and Jessica Madsen		DRILLING CONTRACTOR Enviro-Dynamics	
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves	
WELL INSTALLED? no		SCREEN: TYPE		START - FINISH DATE 6/24/2021-6/24/2021	
ELEVATION OF: (FT. ABOVE M.S.L.)		GROUND SURFACE		TOP & BOTTOM OF SCREEN	
		TOP OF WELL CASING		GW SURFACE	
				DATE	

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty SAND, dry		
6						brown sandy silty CLAY, dry		
8								
10						brown coarse SAND, dry		
12								
14						brown coarse gravelly SAND		
16								
18						large pieces of wood encountered		
20								
22						EOB @ 27 ft. bgs		
24								
26								
28								
30								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
CLAY	WATER DEPTH	



TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP12		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 375+5	
PROJECT NUMBER 31034		GEOLOGIST Susan Iskowich and Jessica Madsen		DRILLING CONTRACTOR Enviro-Dynamics	
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves	
WELL INSTALLED? no		SCREEN: _____		START - FINISH DATE 6/24/2021-6/24/2021	
ELEVATION OF: (FT. ABOVE M.S.L.)		GROUND SURFACE		TOP & BOTTOM OF SCREEN	
		TOP OF WELL CASING		GW SURFACE	
				DATE	

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty SAND, dry		
6								
8						brown sandy silty CLAY, dry		
10								
12								
14						brown coarse SAND, dry		
16						wood dark soil/cinder		
18						EOB @ 16 ft. bgs		
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
	CLAY	WATER DEPTH



WATER DEPTH
TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP13		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 374	
PROJECT NUMBER 31034		GEOLOGIST Susan Iskowich and Jessica Madsen		DRILLING CONTRACTOR Enviro-Dynamics	
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves	
WELL INSTALLED? no		CASING MAT. / DIAMETER		START - FINISH DATE 6/24/2021-6/24/2021	
ELEVATION OF: (FT. ABOVE M.S.L.)		GROUND SURFACE		TOP & BOTTOM OF SCREEN	
		TOP OF WELL CASING		GW SURFACE	
				DATE	

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty SAND, dry		
6						brown sandy silty CLAY, dry		
8								
10						brown coarse SAND, dry		
12								
14						EOB @ 16 ft. bgs		
16								
18								
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
CLAY	WATER DEPTH	



WATER DEPTH
TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP14		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 371+5	
PROJECT NUMBER 31034		GEOLOGIST Susan Iskowich and Jessica Madsen		DRILLING CONTRACTOR Enviro-Dynamics	
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves	
WELL INSTALLED? no		CASING MAT. / DIAMETER		START - FINISH DATE 6/24/2021-6/24/2021	
ELEVATION OF: (FT. ABOVE M.S.L.)		GROUND SURFACE		TOP & BOTTOM OF SCREEN	
		TOP OF WELL CASING		GW SURFACE	
				DATE	

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty SAND, dry		
6								
8						brown sandy silty CLAY, dry		
10								
12								
14						brown coarse SAND, dry		
16						cinders/staining		
18						EOB @ 16 ft. bgs		
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
	CLAY	WATER DEPTH



WATER DEPTH
TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP15		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 369+5	
PROJECT NUMBER 31034		GEOLOGIST Susan Iskovich and Jessica Madsen		DRILLING CONTRACTOR Enviro-Dynamics	
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves	
WELL INSTALLED? no		SCREEN:		START - FINISH DATE 6/24/2021-6/24/2021	
ELEVATION OF: (FT. ABOVE M.S.L.)		GROUND SURFACE		TOP & BOTTOM OF SCREEN	
		TOP OF WELL CASING		GW SURFACE	
				DATE	

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black gravely SAND, dry		
6								
8						brown sandy silty CLAY, dry		
10								
12								
14						brown coarse SAND, dry		
16								
18						EOB @ 16 ft. bgs		
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
CLAY	WATER DEPTH	



WATER DEPTH
TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP16		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 365	
PROJECT NUMBER 31034		GEOLOGIST Susan Iskowich and Jessica Madsen		DRILLING CONTRACTOR Enviro-Dynamics	
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves	
WELL INSTALLED? no		SCREEN:		START - FINISH DATE 7/6/2021-7/6/2021	
ELEVATION OF: (FT. ABOVE M.S.L.)		GROUND SURFACE		TOP OF WELL CASING	
				TOP & BOTTOM OF SCREEN	
				GW SURFACE	
				DATE	

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty gravelly CLAY, dry		
6								
8								
10								
12						brown coarse SAND, dry		
14								
16								
18						EOB @ 16 ft. bgs		
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
	CLAY	WATER DEPTH



TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP17		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 362+5	
PROJECT NUMBER 31034		GEOLOGIST Susan Iskowich and Jessica Madsen		DRILLING CONTRACTOR Enviro-Dynamics	
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves	
WELL INSTALLED? no		SCREEN:		START - FINISH DATE 7/6/2021-7/6/2021	
ELEVATION OF: (FT. ABOVE M.S.L.)		GROUND SURFACE		TOP & BOTTOM OF SCREEN	
		TOP OF WELL CASING		GW SURFACE	
				DATE	

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty gravelly CLAY, dry		
6								
8								
10								
12						brown coarse SAND, dry		
14								
16								
18						EOB @ 16 ft. bgs		
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
	CLAY	WATER DEPTH



TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP18		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 358	
PROJECT NUMBER 31034		GEOLOGIST Susan Iskowich and Jessica Madsen		DRILLING CONTRACTOR Enviro-Dynamics	
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves	
WELL INSTALLED? no		SCREEN:		START - FINISH DATE 7/6/2021-7/6/2021	
ELEVATION OF: (FT. ABOVE M.S.L.)		GROUND SURFACE		TOP & BOTTOM OF SCREEN	
		TOP OF WELL CASING		GW SURFACE	
				DATE	

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock) Brown/black silty gravelly CLAY, dry		
4								
6								
8								
10								
12								
14						brown coarse SAND, dry		
16						crushed brick and concrete at bottom		
18						EOB @ 16 ft. bgs		
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
CLAY	WATER DEPTH	



WATER DEPTH
TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP19		PROJECT NAME CTA Red Purple Modernization Project		PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 356+5	
PROJECT NUMBER 31034		GEOLOGIST Susan Iskowich and Jessica Madsen		DRILLING CONTRACTOR Enviro-Dynamics	
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push		SIZE / TYPE OF BIT 2 1/4"		SAMPLING METHOD Dual Tube barrels with plastic sleeves	
WELL INSTALLED? no		SCREEN:		START - FINISH DATE 6/4/2021-6/4/2021	
ELEVATION OF: (FT. ABOVE M.S.L.)		GROUND SURFACE		TOP & BOTTOM OF SCREEN	
		TOP OF WELL CASING		GW SURFACE	
				DATE	

DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty SAND, dry		
6						brown sandy silty CLAY, dry		
8								
10								
12								
14		0				no soil recovery from 12-16 ft. bgs		
16								
18						EOB @ 16 ft. bgs		
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
	CLAY	WATER DEPTH



WATER DEPTH
TEST BORING LOG

Suite 410
15 Salt Creek Lane
Hinsdale, Illinois 60521
312.207.1600

BORING / WELL NUMBER KP20	
PROJECT NUMBER 31034	PROJECT NAME CTA Red Purple Modernization Project
PROJECT LOCATION Embankment from Lawrence to Bryn Mawr - Station 349	
GEOLOGIST Susan Iskovich and Jessica Madsen	
DRILLING CONTRACTOR Enviro-Dynamics	
DRILLING EQUIPMENT / METHOD Geoprobe / Direct Push	SIZE / TYPE OF BIT 2 1/4"
SAMPLING METHOD Dual Tube barrels with plastic sleeves	START - FINISH DATE 6/4/2021-6/4/2021
WELL INSTALLED? no	CASING MAT. / DIAMETER no
SCREEN:	TYPE
MATERIAL	LENGTH
DIAMETER	SLOT SIZE

ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM OF SCREEN	GW SURFACE	DATE
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DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION	GEO.	WELL CONST.
2				No odor / no staining		Ballast Stone (crushed white rock)		
4						Brown/black silty SAND, dry		
6								
8						brown sandy silty CLAY, moisture encountered at 6 ft bgs		
10								
12								
14						brown clay SILT		
16								
18						EOB @ 16 ft. bgs		
20								

CONCRETE	SAND	RISER
FILL	SILT	SCREEN
	CLAY	WATER DEPTH

APPENDIX C

ANALYTICAL RESULT TABLES

TACO_Results__VOC_Soil

Analyte	Unit	MACC	KP1 Sta.413.0	KP2 Sta.409.0	KP3 Sta.406.0	KP4 Sta.403.0	KP5 Sta.399.0
1,1,1-Trichloroethane	mg/Kg-dry	2	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
1,1,2,2-Tetrachloroethane	mg/Kg-dry	0.02	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
1,1,2-Trichloroethane	mg/Kg-dry	0.02	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
1,1-Dichloroethane	mg/Kg-dry	23	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
1,1-Dichloroethene	mg/Kg-dry	0.06	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
1,2-Dichloroethane	mg/Kg-dry	0.02	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
1,2-Dichloropropane	mg/Kg-dry	0.03	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
1,3-Dichlorobenzene	mg/Kg-dry	0.005	<0.317	<0.286	<0.293	<0.287	<0.286
2-Butanone	mg/Kg-dry		<0.0100	<0.00870	<0.00826	<0.00847	<0.00866
2-Hexanone	mg/Kg-dry		<0.0251	<0.0218	<0.0206	<0.0212	<0.0216
4-Methyl-2-pentanone	mg/Kg-dry		<0.0251	<0.0218	<0.0206	<0.0212	<0.0216
Acetone	mg/Kg-dry	25	<0.0251	<0.0218	<0.0206	<0.0212	<0.0216
Benzene	mg/Kg-dry	0.03	<0.000251	<0.000218	<0.000206	<0.000212	<0.000216
Bromodichloromethane	mg/Kg-dry		<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
Bromoform	mg/Kg-dry	0.8	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
Bromomethane	mg/Kg-dry		<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
Carbon disulfide	mg/Kg-dry	9	<0.00227	<0.00128	<0.00109	<0.00115	<0.00106
Carbon tetrachloride	mg/Kg-dry	0.07	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
Chlorobenzene	mg/Kg-dry	1	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
Chloroethane	mg/Kg-dry		<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
Chloroform	mg/Kg-dry	0.3	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
Chloromethane	mg/Kg-dry		<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
cis-1,2-Dichloroethene	mg/Kg-dry	0.4	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
cis-1,3-Dichloropropene	mg/Kg-dry		<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
Dibromochloromethane	mg/Kg-dry	0.6	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
Ethylbenzene	mg/Kg-dry	13	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
Methyl tert-butyl ether	mg/Kg-dry	0.32	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
Methylene chloride	mg/Kg-dry	0.02	<0.00501	<0.00435	<0.00413	<0.00424	<0.00433
Styrene	mg/Kg-dry	4	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
Tetrachloroethene	mg/Kg-dry	0.06	<0.00201	<0.00174	<0.00165	<0.00169	<0.00173
Toluene	mg/Kg-dry	12	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
Total Xylenes	mg/Kg-dry	5.6	<0.00201	<0.00174	<0.00165	<0.00169	<0.00173
trans-1,2-Dichloroethene	mg/Kg-dry	0.7	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
trans-1,3-Dichloropropene	mg/Kg-dry	0.005	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
Trichloroethene	mg/Kg-dry	0.06	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866
Vinyl chloride	mg/Kg-dry	550	<0.00100	<0.000870	<0.000826	<0.000847	<0.000866

TACO_Results__VOC_Soil

Analyte	Unit	MACC	KP6	KP7	KP8	KP9	KP10
			Sta. 395.5	Sta.393.0	Sta.388.5	Sta.387.5	Sta.382.0
1,1,1-Trichloroethane	mg/Kg-dry	2	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
1,1,2,2-Tetrachloroethane	mg/Kg-dry	0.02	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
1,1,2-Trichloroethane	mg/Kg-dry	0.02	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
1,1-Dichloroethane	mg/Kg-dry	23	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
1,1-Dichloroethene	mg/Kg-dry	0.06	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
1,2-Dichloroethane	mg/Kg-dry	0.02	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
1,2-Dichloropropane	mg/Kg-dry	0.03	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
1,3-Dichlorobenzene	mg/Kg-dry	0.005	<0.282	<0.292	<0.289	<0.288	<0.284
2-Butanone	mg/Kg-dry		<0.00788	<0.00861	<0.00891	<0.00787	<0.00937
2-Hexanone	mg/Kg-dry		<0.0197	<0.0215	<0.0223	<0.0197	<0.0234
4-Methyl-2-pentanone	mg/Kg-dry		<0.0197	<0.0215	<0.0223	<0.0197	<0.0234
Acetone	mg/Kg-dry	25	<0.0197	0.0279	<0.0223	<0.0197	<0.0234
Benzene	mg/Kg-dry	0.03	<0.000197	<0.000215	<0.000223	<0.000197	<0.000234
Bromodichloromethane	mg/Kg-dry		<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
Bromoform	mg/Kg-dry	0.8	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
Bromomethane	mg/Kg-dry		<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
Carbon disulfide	mg/Kg-dry	9	<0.000788	<0.00274	<0.000891	<0.00126	<0.00123
Carbon tetrachloride	mg/Kg-dry	0.07	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
Chlorobenzene	mg/Kg-dry	1	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
Chloroethane	mg/Kg-dry		<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
Chloroform	mg/Kg-dry	0.3	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
Chloromethane	mg/Kg-dry		<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
cis-1,2-Dichloroethene	mg/Kg-dry	0.4	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
cis-1,3-Dichloropropene	mg/Kg-dry		<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
Dibromochloromethane	mg/Kg-dry	0.6	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
Ethylbenzene	mg/Kg-dry	13	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
Methyl tert-butyl ether	mg/Kg-dry	0.32	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
Methylene chloride	mg/Kg-dry	0.02	<0.00394	<0.00431	<0.00446	<0.00394	<0.00468
Styrene	mg/Kg-dry	4	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
Tetrachloroethene	mg/Kg-dry	0.06	<0.00158	<0.00172	<0.00178	<0.00157	<0.00187
Toluene	mg/Kg-dry	12	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
Total Xylenes	mg/Kg-dry	5.6	<0.00158	<0.00172	<0.00178	<0.00157	<0.00187
trans-1,2-Dichloroethene	mg/Kg-dry	0.7	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
trans-1,3-Dichloropropene	mg/Kg-dry	0.005	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
Trichloroethene	mg/Kg-dry	0.06	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937
Vinyl chloride	mg/Kg-dry	550	<0.000788	<0.000861	<0.000891	<0.000787	<0.000937

TACO_Results__VOC_Soil

Analyte	Unit	MACC	KP11 Sta.379.5	KP11 deep	KP12 Sta.375.5	KP13 Sta.374.0	KP14 Sta.371.5
1,1,1-Trichloroethane	mg/Kg-dry	2	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
1,1,2,2-Tetrachloroethane	mg/Kg-dry	0.02	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
1,1,2-Trichloroethane	mg/Kg-dry	0.02	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
1,1-Dichloroethane	mg/Kg-dry	23	<0.000887	0.00126	<0.00103	<0.00220	<0.00102
1,1-Dichloroethene	mg/Kg-dry	0.06	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
1,2-Dichloroethane	mg/Kg-dry	0.02	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
1,2-Dichloropropane	mg/Kg-dry	0.03	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
1,3-Dichlorobenzene	mg/Kg-dry	0.005	<0.292	<0.294	<0.312	<0.280	<0.322
2-Butanone	mg/Kg-dry		<0.00887	<0.0102	<0.0103	<0.0220	<0.0102
2-Hexanone	mg/Kg-dry		<0.0222	<0.0254	<0.0257	<0.0550	<0.0255
4-Methyl-2-pentanone	mg/Kg-dry		<0.0222	<0.0254	<0.0257	<0.0550	<0.0255
Acetone	mg/Kg-dry	25	<0.0222	<0.0254	<0.0257	<0.0550	<0.0255
Benzene	mg/Kg-dry	0.03	<0.000222	<0.000254	<0.000257	<0.000550	<0.000255
Bromodichloromethane	mg/Kg-dry		<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
Bromoform	mg/Kg-dry	0.8	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
Bromomethane	mg/Kg-dry		<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
Carbon disulfide	mg/Kg-dry	9	<0.00142	<0.00335	<0.00125	<0.0110	<0.00163
Carbon tetrachloride	mg/Kg-dry	0.07	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
Chlorobenzene	mg/Kg-dry	1	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
Chloroethane	mg/Kg-dry		<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
Chloroform	mg/Kg-dry	0.3	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
Chloromethane	mg/Kg-dry		<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
cis-1,2-Dichloroethene	mg/Kg-dry	0.4	<0.000887	0.00237	<0.00103	<0.00220	<0.00102
cis-1,3-Dichloropropene	mg/Kg-dry		<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
Dibromochloromethane	mg/Kg-dry	0.6	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
Ethylbenzene	mg/Kg-dry	13	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
Methyl tert-butyl ether	mg/Kg-dry	0.32	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
Methylene chloride	mg/Kg-dry	0.02	<0.00444	<0.00508	<0.00514	<0.0110	<0.00510
Styrene	mg/Kg-dry	4	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
Tetrachloroethene	mg/Kg-dry	0.06	<0.00177	<0.00203	<0.00206	<0.00440	<0.00204
Toluene	mg/Kg-dry	12	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
Total Xylenes	mg/Kg-dry	5.6	<0.00177	<0.00203	<0.00206	<0.00440	<0.00204
trans-1,2-Dichloroethene	mg/Kg-dry	0.7	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
trans-1,3-Dichloropropene	mg/Kg-dry	0.005	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
Trichloroethene	mg/Kg-dry	0.06	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102
Vinyl chloride	mg/Kg-dry	550	<0.000887	<0.00102	<0.00103	<0.00220	<0.00102

TACO_Results__VOC_Soil

Analyte	Unit	MACC	KP15 Sta.369.5	KP16 Sta.365.0	KP17 Sta.362.5	KP18 Sta.358.0	KP19 Sta.356.5
1,1,1-Trichloroethane	mg/Kg-dry	2	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
1,1,2,2-Tetrachloroethane	mg/Kg-dry	0.02	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
1,1,2-Trichloroethane	mg/Kg-dry	0.02	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
1,1-Dichloroethane	mg/Kg-dry	23	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
1,1-Dichloroethene	mg/Kg-dry	0.06	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
1,2-Dichloroethane	mg/Kg-dry	0.02	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
1,2-Dichloropropane	mg/Kg-dry	0.03	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
1,3-Dichlorobenzene	mg/Kg-dry	0.005	<0.285	<0.287	<0.297	<0.285	<0.287
2-Butanone	mg/Kg-dry		<0.0228	<0.0108	<0.0241	<0.00778	<0.0232
2-Hexanone	mg/Kg-dry		<0.0571	<0.0269	<0.0603	<0.0195	<0.0581
4-Methyl-2-pentanone	mg/Kg-dry		<0.0571	<0.0269	<0.0603	<0.0195	<0.0581
Acetone	mg/Kg-dry	25	<0.0571	<0.0269	<0.0603	<0.0195	<0.0581
Benzene	mg/Kg-dry	0.03	<0.000571	<0.000269	<0.000603	<0.000195	<0.000581
Bromodichloromethane	mg/Kg-dry		<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Bromoform	mg/Kg-dry	0.8	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Bromomethane	mg/Kg-dry		<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Carbon disulfide	mg/Kg-dry	9	<0.0114	<0.00108	<0.00241	<0.000778	<0.00232
Carbon tetrachloride	mg/Kg-dry	0.07	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Chlorobenzene	mg/Kg-dry	1	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Chloroethane	mg/Kg-dry		<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Chloroform	mg/Kg-dry	0.3	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Chloromethane	mg/Kg-dry		<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
cis-1,2-Dichloroethene	mg/Kg-dry	0.4	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
cis-1,3-Dichloropropene	mg/Kg-dry		<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Dibromochloromethane	mg/Kg-dry	0.6	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Ethylbenzene	mg/Kg-dry	13	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Methyl tert-butyl ether	mg/Kg-dry	0.32	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Methylene chloride	mg/Kg-dry	0.02	<0.0114	<0.00538	<0.0121	<0.00389	<0.0116
Styrene	mg/Kg-dry	4	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Tetrachloroethene	mg/Kg-dry	0.06	<0.00457	0.00274	<0.00483	0.00271	<0.00465
Toluene	mg/Kg-dry	12	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Total Xylenes	mg/Kg-dry	5.6	<0.00457	<0.00215	<0.00483	<0.00156	<0.00465
trans-1,2-Dichloroethene	mg/Kg-dry	0.7	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
trans-1,3-Dichloropropene	mg/Kg-dry	0.005	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Trichloroethene	mg/Kg-dry	0.06	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232
Vinyl chloride	mg/Kg-dry	550	<0.00228	<0.00108	<0.00241	<0.000778	<0.00232

TACO_Results__VOC_Soil

Analyte	Unit	MACC	KP20 Sta.349.0
1,1,1-Trichloroethane	mg/Kg-dry	2	<0.00123
1,1,2,2-Tetrachloroethane	mg/Kg-dry	0.02	<0.00123
1,1,2-Trichloroethane	mg/Kg-dry	0.02	<0.00123
1,1-Dichloroethane	mg/Kg-dry	23	<0.00123
1,1-Dichloroethene	mg/Kg-dry	0.06	<0.00123
1,2-Dichloroethane	mg/Kg-dry	0.02	<0.00123
1,2-Dichloropropane	mg/Kg-dry	0.03	<0.00123
1,3-Dichlorobenzene	mg/Kg-dry	0.005	<0.313
2-Butanone	mg/Kg-dry		<0.0123
2-Hexanone	mg/Kg-dry		<0.0308
4-Methyl-2-pentanone	mg/Kg-dry		<0.0308
Acetone	mg/Kg-dry	25	<0.0308
Benzene	mg/Kg-dry	0.03	<0.000308
Bromodichloromethane	mg/Kg-dry		<0.00123
Bromoform	mg/Kg-dry	0.8	<0.00123
Bromomethane	mg/Kg-dry		<0.00123
Carbon disulfide	mg/Kg-dry	9	0.00158
Carbon tetrachloride	mg/Kg-dry	0.07	<0.00123
Chlorobenzene	mg/Kg-dry	1	<0.00123
Chloroethane	mg/Kg-dry		<0.00123
Chloroform	mg/Kg-dry	0.3	<0.00123
Chloromethane	mg/Kg-dry		<0.00123
cis-1,2-Dichloroethene	mg/Kg-dry	0.4	<0.00123
cis-1,3-Dichloropropene	mg/Kg-dry		<0.00123
Dibromochloromethane	mg/Kg-dry	0.6	<0.00123
Ethylbenzene	mg/Kg-dry	13	<0.00123
Methyl tert-butyl ether	mg/Kg-dry	0.32	<0.00123
Methylene chloride	mg/Kg-dry	0.02	<0.00616
Styrene	mg/Kg-dry	4	<0.00123
Tetrachloroethene	mg/Kg-dry	0.06	0.00603
Toluene	mg/Kg-dry	12	<0.00123
Total Xylenes	mg/Kg-dry	5.6	<0.00246
trans-1,2-Dichloroethene	mg/Kg-dry	0.7	<0.00123
trans-1,3-Dichloropropene	mg/Kg-dry	0.005	<0.00123
Trichloroethene	mg/Kg-dry	0.06	<0.00123
Vinyl chloride	mg/Kg-dry	550	<0.00123

TACO_Results__SVOC_Soil

Analyte	Unit	MACC	KP1 Sta.413.0	KP2 Sta.409.0	KP3 Sta.406.0	KP4 Sta.403.0	KP5 Sta.399.0
1,2,4-Trichlorobenzene	mg/Kg-dry	5	<0.317	<0.286	<0.293	<0.287	<0.286
1,2-Dichlorobenzene	mg/Kg-dry	17	<0.317	<0.286	<0.293	<0.287	<0.286
1,4-Dichlorobenzene	mg/Kg-dry	2	<0.317	<0.286	<0.293	<0.287	<0.286
2,4,5-Trichlorophenol	mg/Kg-dry	26	<0.317	<0.286	<0.293	<0.287	<0.286
2,4,6-Trichlorophenol	mg/Kg-dry	0.66	<0.317	<0.286	<0.293	<0.287	<0.286
2,4-Dichlorophenol	mg/Kg-dry	0.48	<0.317	<0.286	<0.293	<0.287	<0.286
2,4-Dimethylphenol	mg/Kg-dry	9	<0.317	<0.286	<0.293	<0.287	<0.286
2,4-Dinitrophenol	mg/Kg-dry	3.3	<0.317	<0.286	<0.293	<0.287	<0.286
2,4-Dinitrotoluene	mg/Kg-dry	0.25	<0.317	<0.286	<0.293	<0.287	<0.286
2,6-Dinitrotoluene	mg/Kg-dry	0.26	<0.317	<0.286	<0.293	<0.287	<0.286
2-Chloronaphthalene	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
2-Chlorophenol	mg/Kg-dry	1.5	<0.317	<0.286	<0.293	<0.287	<0.286
2-Methylnaphthalene	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
2-Methylphenol	mg/Kg-dry	15	<0.317	<0.286	<0.293	<0.287	<0.286
2-Nitroaniline	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
2-Nitrophenol	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
3,3'-Dichlorobenzidine	mg/Kg-dry	1.3	<0.317	<0.286	<0.293	<0.287	<0.286
3,4-Methylphenol	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
3-Nitroaniline	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
4,6-Dinitro-2-methylphenol	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
4-Bromophenyl phenyl ether	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
4-Chloro-3-methylphenol	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
4-Chloroaniline	mg/Kg-dry	0.7	<0.317	<0.286	<0.293	<0.287	<0.286
4-Chlorophenyl phenyl ether	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
4-Nitroaniline	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
4-Nitrophenol	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
Bis(2-chloroethoxy)methane	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
Bis(2-chloroethyl)ether	mg/Kg-dry	22	<0.317	<0.286	<0.293	<0.287	<0.286
Bis(2-chloroisopropyl)ether	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
Bis(2-ethylhexyl)phthalate	mg/Kg-dry	46	<0.317	<0.286	<0.293	<0.287	<0.286
Butyl benzyl phthalate	mg/Kg-dry	930	<0.317	<0.286	<0.293	<0.287	<0.286
Carbazole	mg/Kg-dry	0.6	<0.317	<0.286	<0.293	<0.287	<0.286
Dibenzofuran	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
Diethyl phthalate	mg/Kg-dry	470	<0.317	<0.286	<0.293	<0.287	<0.286
Dimethyl phthalate	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
Di-n-butyl phthalate	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
Di-n-octyl phthalate	mg/Kg-dry	1600	<0.317	<0.286	<0.293	<0.287	<0.286
Hexachlorobenzene	mg/Kg-dry	0.4	<0.317	<0.286	<0.293	<0.287	<0.286
Hexachlorobutadiene	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
Hexachlorocyclopentadiene	mg/Kg-dry	1.1	<0.317	<0.286	<0.293	<0.287	<0.286
Hexachloroethane	mg/Kg-dry		<0.317	<0.286	<0.293	<0.287	<0.286
Isophorone	mg/Kg-dry	8	<0.317	<0.286	<0.293	<0.287	<0.286
Nitrobenzene	mg/Kg-dry	0.26	<0.317	<0.286	<0.293	<0.287	<0.286
N-Nitroso-di-n-propylamine	mg/Kg-dry	1	<0.317	<0.286	<0.293	<0.287	<0.286
N-Nitrosodiphenylamine	mg/Kg-dry	0.0018	<0.317	<0.286	<0.293	<0.287	<0.286
Pentachlorophenol	mg/Kg-dry	0.02	<0.317	<0.286	<0.293	<0.287	<0.286
Phenol	mg/Kg-dry	100	<0.317	<0.286	<0.293	<0.287	<0.286

TACO_Results__SVOC_Soil

Analyte	Unit	MACC	KP6	KP7	KP8	KP9	KP10
			Sta. 395.5	Sta.393.0	Sta.388.5	Sta.387.5	Sta.382.0
1,2,4-Trichlorobenzene	mg/Kg-dry	5	<0.282	<0.292	<0.289	<0.288	<0.284
1,2-Dichlorobenzene	mg/Kg-dry	17	<0.282	<0.292	<0.289	<0.288	<0.284
1,4-Dichlorobenzene	mg/Kg-dry	2	<0.282	<0.292	<0.289	<0.288	<0.284
2,4,5-Trichlorophenol	mg/Kg-dry	26	<0.282	<0.292	<0.289	<0.288	<0.284
2,4,6-Trichlorophenol	mg/Kg-dry	0.66	<0.282	<0.292	<0.289	<0.288	<0.284
2,4-Dichlorophenol	mg/Kg-dry	0.48	<0.282	<0.292	<0.289	<0.288	<0.284
2,4-Dimethylphenol	mg/Kg-dry	9	<0.282	<0.292	<0.289	<0.288	<0.284
2,4-Dinitrophenol	mg/Kg-dry	3.3	<0.282	<0.292	<0.289	<0.288	<0.284
2,4-Dinitrotoluene	mg/Kg-dry	0.25	<0.282	<0.292	<0.289	<0.288	<0.284
2,6-Dinitrotoluene	mg/Kg-dry	0.26	<0.282	<0.292	<0.289	<0.288	<0.284
2-Chloronaphthalene	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
2-Chlorophenol	mg/Kg-dry	1.5	<0.282	<0.292	<0.289	<0.288	<0.284
2-Methylnaphthalene	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
2-Methylphenol	mg/Kg-dry	15	<0.282	<0.292	<0.289	<0.288	<0.284
2-Nitroaniline	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
2-Nitrophenol	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
3,3'-Dichlorobenzidine	mg/Kg-dry	1.3	<0.282	<0.292	<0.289	<0.288	<0.284
3,4-Methylphenol	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
3-Nitroaniline	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
4,6-Dinitro-2-methylphenol	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
4-Bromophenyl phenyl ether	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
4-Chloro-3-methylphenol	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
4-Chloroaniline	mg/Kg-dry	0.7	<0.282	<0.292	<0.289	<0.288	<0.284
4-Chlorophenyl phenyl ether	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
4-Nitroaniline	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
4-Nitrophenol	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
Bis(2-chloroethoxy)methane	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
Bis(2-chloroethyl)ether	mg/Kg-dry	22	<0.282	<0.292	<0.289	<0.288	<0.284
Bis(2-chloroisopropyl)ether	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
Bis(2-ethylhexyl)phthalate	mg/Kg-dry	46	<0.282	<0.292	<0.289	<0.288	<0.284
Butyl benzyl phthalate	mg/Kg-dry	930	<0.282	<0.292	<0.289	<0.288	<0.284
Carbazole	mg/Kg-dry	0.6	<0.282	<0.292	<0.289	<0.288	<0.284
Dibenzofuran	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
Diethyl phthalate	mg/Kg-dry	470	<0.282	<0.292	<0.289	<0.288	<0.284
Dimethyl phthalate	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
Di-n-butyl phthalate	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
Di-n-octyl phthalate	mg/Kg-dry	1600	<0.282	<0.292	<0.289	<0.288	<0.284
Hexachlorobenzene	mg/Kg-dry	0.4	<0.282	<0.292	<0.289	<0.288	<0.284
Hexachlorobutadiene	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
Hexachlorocyclopentadiene	mg/Kg-dry	1.1	<0.282	<0.292	<0.289	<0.288	<0.284
Hexachloroethane	mg/Kg-dry		<0.282	<0.292	<0.289	<0.288	<0.284
Isophorone	mg/Kg-dry	8	<0.282	<0.292	<0.289	<0.288	<0.284
Nitrobenzene	mg/Kg-dry	0.26	<0.282	<0.292	<0.289	<0.288	<0.284
N-Nitroso-di-n-propylamine	mg/Kg-dry	1	<0.282	<0.292	<0.289	<0.288	<0.284
N-Nitrosodiphenylamine	mg/Kg-dry	0.0018	<0.282	<0.292	<0.289	<0.288	<0.284
Pentachlorophenol	mg/Kg-dry	0.02	<0.282	<0.292	<0.289	<0.288	<0.284
Phenol	mg/Kg-dry	100	<0.282	<0.292	<0.289	<0.288	<0.284

TACO_Results__SVOC_Soil

Analyte	Unit	MACC	KP11 Sta.379.5	KP11 deep	KP12 Sta.375.5	KP13 Sta.374.0	KP14 Sta.371.5
1,2,4-Trichlorobenzene	mg/Kg-dry	5	<0.292	<0.294	<0.312	<0.280	<0.322
1,2-Dichlorobenzene	mg/Kg-dry	17	<0.292	<0.294	<0.312	<0.280	<0.322
1,4-Dichlorobenzene	mg/Kg-dry	2	<0.292	<0.294	<0.312	<0.280	<0.322
2,4,5-Trichlorophenol	mg/Kg-dry	26	<0.292	<0.294	<0.312	<0.280	<0.322
2,4,6-Trichlorophenol	mg/Kg-dry	0.66	<0.292	<0.294	<0.312	<0.280	<0.322
2,4-Dichlorophenol	mg/Kg-dry	0.48	<0.292	<0.294	<0.312	<0.280	<0.322
2,4-Dimethylphenol	mg/Kg-dry	9	<0.292	<0.294	<0.312	<0.280	<0.322
2,4-Dinitrophenol	mg/Kg-dry	3.3	<0.292	<0.294	<0.312	<0.280	<0.322
2,4-Dinitrotoluene	mg/Kg-dry	0.25	<0.292	<0.294	<0.312	<0.280	<0.322
2,6-Dinitrotoluene	mg/Kg-dry	0.26	<0.292	<0.294	<0.312	<0.280	<0.322
2-Chloronaphthalene	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
2-Chlorophenol	mg/Kg-dry	1.5	<0.292	<0.294	<0.312	<0.280	<0.322
2-Methylnaphthalene	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
2-Methylphenol	mg/Kg-dry	15	<0.292	<0.294	<0.312	<0.280	<0.322
2-Nitroaniline	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
2-Nitrophenol	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
3,3'-Dichlorobenzidine	mg/Kg-dry	1.3	<0.292	<0.294	<0.312	<0.280	<0.322
3,4-Methylphenol	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
3-Nitroaniline	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
4,6-Dinitro-2-methylphenol	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
4-Bromophenyl phenyl ether	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
4-Chloro-3-methylphenol	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
4-Chloroaniline	mg/Kg-dry	0.7	<0.292	<0.294	<0.312	<0.280	<0.322
4-Chlorophenyl phenyl ether	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
4-Nitroaniline	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
4-Nitrophenol	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
Bis(2-chloroethoxy)methane	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
Bis(2-chloroethyl)ether	mg/Kg-dry	22	<0.292	<0.294	<0.312	<0.280	<0.322
Bis(2-chloroisopropyl)ether	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
Bis(2-ethylhexyl)phthalate	mg/Kg-dry	46	<0.292	<0.294	<0.312	<0.280	<0.322
Butyl benzyl phthalate	mg/Kg-dry	930	<0.292	<0.294	<0.312	<0.280	<0.322
Carbazole	mg/Kg-dry	0.6	<0.292	<0.294	<0.312	<0.280	<0.322
Dibenzofuran	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
Diethyl phthalate	mg/Kg-dry	470	<0.292	<0.294	<0.312	<0.280	<0.322
Dimethyl phthalate	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
Di-n-butyl phthalate	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
Di-n-octyl phthalate	mg/Kg-dry	1600	<0.292	<0.294	<0.312	<0.280	<0.322
Hexachlorobenzene	mg/Kg-dry	0.4	<0.292	<0.294	<0.312	<0.280	<0.322
Hexachlorobutadiene	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
Hexachlorocyclopentadiene	mg/Kg-dry	1.1	<0.292	<0.294	<0.312	<0.280	<0.322
Hexachloroethane	mg/Kg-dry		<0.292	<0.294	<0.312	<0.280	<0.322
Isophorone	mg/Kg-dry	8	<0.292	<0.294	<0.312	<0.280	<0.322
Nitrobenzene	mg/Kg-dry	0.26	<0.292	<0.294	<0.312	<0.280	<0.322
N-Nitroso-di-n-propylamine	mg/Kg-dry	1	<0.292	<0.294	<0.312	<0.280	<0.322
N-Nitrosodiphenylamine	mg/Kg-dry	0.0018	<0.292	<0.294	<0.312	<0.280	<0.322
Pentachlorophenol	mg/Kg-dry	0.02	<0.292	<0.294	<0.312	<0.280	<0.322
Phenol	mg/Kg-dry	100	<0.292	<0.294	<0.312	<0.280	<0.322

TACO_Results__SVOC_Soil

Analyte	Unit	MACC	KP15 Sta.369.5	KP16 Sta.365.0	KP17 Sta.362.5	KP18 Sta.358.0	KP19 Sta.356.5
1,2,4-Trichlorobenzene	mg/Kg-dry	5	<0.285	<0.287	<0.297	<0.285	<0.287
1,2-Dichlorobenzene	mg/Kg-dry	17	<0.285	<0.287	<0.297	<0.285	<0.287
1,4-Dichlorobenzene	mg/Kg-dry	2	<0.285	<0.287	<0.297	<0.285	<0.287
2,4,5-Trichlorophenol	mg/Kg-dry	26	<0.285	<0.287	<0.297	<0.285	<0.287
2,4,6-Trichlorophenol	mg/Kg-dry	0.66	<0.285	<0.287	<0.297	<0.285	<0.287
2,4-Dichlorophenol	mg/Kg-dry	0.48	<0.285	<0.287	<0.297	<0.285	<0.287
2,4-Dimethylphenol	mg/Kg-dry	9	<0.285	<0.287	<0.297	<0.285	<0.287
2,4-Dinitrophenol	mg/Kg-dry	3.3	<0.285	<0.287	<0.297	<0.285	<0.287
2,4-Dinitrotoluene	mg/Kg-dry	0.25	<0.285	<0.287	<0.297	<0.285	<0.287
2,6-Dinitrotoluene	mg/Kg-dry	0.26	<0.285	<0.287	<0.297	<0.285	<0.287
2-Chloronaphthalene	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
2-Chlorophenol	mg/Kg-dry	1.5	<0.285	<0.287	<0.297	<0.285	<0.287
2-Methylnaphthalene	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
2-Methylphenol	mg/Kg-dry	15	<0.285	<0.287	<0.297	<0.285	<0.287
2-Nitroaniline	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
2-Nitrophenol	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
3,3'-Dichlorobenzidine	mg/Kg-dry	1.3	<0.285	<0.287	<0.297	<0.285	<0.287
3,4-Methylphenol	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
3-Nitroaniline	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
4,6-Dinitro-2-methylphenol	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
4-Bromophenyl phenyl ether	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
4-Chloro-3-methylphenol	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
4-Chloroaniline	mg/Kg-dry	0.7	<0.285	<0.287	<0.297	<0.285	<0.287
4-Chlorophenyl phenyl ether	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
4-Nitroaniline	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
4-Nitrophenol	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
Bis(2-chloroethoxy)methane	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
Bis(2-chloroethyl)ether	mg/Kg-dry	22	<0.285	<0.287	<0.297	<0.285	<0.287
Bis(2-chloroisopropyl)ether	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
Bis(2-ethylhexyl)phthalate	mg/Kg-dry	46	<0.285	<0.287	<0.297	<0.285	<0.287
Butyl benzyl phthalate	mg/Kg-dry	930	<0.285	<0.287	<0.297	<0.285	<0.287
Carbazole	mg/Kg-dry	0.6	<0.285	<0.287	<0.297	<0.285	<0.287
Dibenzofuran	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
Diethyl phthalate	mg/Kg-dry	470	<0.285	<0.287	<0.297	<0.285	<0.287
Dimethyl phthalate	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
Di-n-butyl phthalate	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
Di-n-octyl phthalate	mg/Kg-dry	1600	<0.285	<0.287	<0.297	<0.285	<0.287
Hexachlorobenzene	mg/Kg-dry	0.4	<0.285	<0.287	<0.297	<0.285	<0.287
Hexachlorobutadiene	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
Hexachlorocyclopentadiene	mg/Kg-dry	1.1	<0.285	<0.287	<0.297	<0.285	<0.287
Hexachloroethane	mg/Kg-dry		<0.285	<0.287	<0.297	<0.285	<0.287
Isophorone	mg/Kg-dry	8	<0.285	<0.287	<0.297	<0.285	<0.287
Nitrobenzene	mg/Kg-dry	0.26	<0.285	<0.287	<0.297	<0.285	<0.287
N-Nitroso-di-n-propylamine	mg/Kg-dry	1	<0.285	<0.287	<0.297	<0.285	<0.287
N-Nitrosodiphenylamine	mg/Kg-dry	0.0018	<0.285	<0.287	<0.297	<0.285	<0.287
Pentachlorophenol	mg/Kg-dry	0.02	<0.285	<0.287	<0.297	<0.285	<0.287
Phenol	mg/Kg-dry	100	<0.285	<0.287	<0.297	<0.285	<0.287

TACO_Results__SVOC_Soil

Analyte	Unit	MACC	KP20 Sta.349.0
1,2,4-Trichlorobenzene	mg/Kg-dry	5	<0.313
1,2-Dichlorobenzene	mg/Kg-dry	17	<0.313
1,4-Dichlorobenzene	mg/Kg-dry	2	<0.313
2,4,5-Trichlorophenol	mg/Kg-dry	26	<0.313
2,4,6-Trichlorophenol	mg/Kg-dry	0.66	<0.313
2,4-Dichlorophenol	mg/Kg-dry	0.48	<0.313
2,4-Dimethylphenol	mg/Kg-dry	9	<0.313
2,4-Dinitrophenol	mg/Kg-dry	3.3	<0.313
2,4-Dinitrotoluene	mg/Kg-dry	0.25	<0.313
2,6-Dinitrotoluene	mg/Kg-dry	0.26	<0.313
2-Chloronaphthalene	mg/Kg-dry		<0.313
2-Chlorophenol	mg/Kg-dry	1.5	<0.313
2-Methylnaphthalene	mg/Kg-dry		<0.313
2-Methylphenol	mg/Kg-dry	15	<0.313
2-Nitroaniline	mg/Kg-dry		<0.313
2-Nitrophenol	mg/Kg-dry		<0.313
3,3'-Dichlorobenzidine	mg/Kg-dry	1.3	<0.313
3,4-Methylphenol	mg/Kg-dry		<0.313
3-Nitroaniline	mg/Kg-dry		<0.313
4,6-Dinitro-2-methylphenol	mg/Kg-dry		<0.313
4-Bromophenyl phenyl ether	mg/Kg-dry		<0.313
4-Chloro-3-methylphenol	mg/Kg-dry		<0.313
4-Chloroaniline	mg/Kg-dry	0.7	<0.313
4-Chlorophenyl phenyl ether	mg/Kg-dry		<0.313
4-Nitroaniline	mg/Kg-dry		<0.313
4-Nitrophenol	mg/Kg-dry		<0.313
Bis(2-chloroethoxy)methane	mg/Kg-dry		<0.313
Bis(2-chloroethyl)ether	mg/Kg-dry	22	<0.313
Bis(2-chloroisopropyl)ether	mg/Kg-dry		<0.313
Bis(2-ethylhexyl)phthalate	mg/Kg-dry	46	<0.313
Butyl benzyl phthalate	mg/Kg-dry	930	<0.313
Carbazole	mg/Kg-dry	0.6	<0.313
Dibenzofuran	mg/Kg-dry		<0.313
Diethyl phthalate	mg/Kg-dry	470	<0.313
Dimethyl phthalate	mg/Kg-dry		<0.313
Di-n-butyl phthalate	mg/Kg-dry		<0.313
Di-n-octyl phthalate	mg/Kg-dry	1600	<0.313
Hexachlorobenzene	mg/Kg-dry	0.4	<0.313
Hexachlorobutadiene	mg/Kg-dry		<0.313
Hexachlorocyclopentadiene	mg/Kg-dry	1.1	<0.313
Hexachloroethane	mg/Kg-dry		<0.313
Isophorone	mg/Kg-dry	8	<0.313
Nitrobenzene	mg/Kg-dry	0.26	<0.313
N-Nitroso-di-n-propylamine	mg/Kg-dry	1	<0.313
N-Nitrosodiphenylamine	mg/Kg-dry	0.0018	<0.313
Pentachlorophenol	mg/Kg-dry	0.02	<0.313
Phenol	mg/Kg-dry	100	<0.313

TACO_Results_PNA_Soil

Analyte	Unit	MACC	KP1 Sta.413.0	KP2 Sta.409.0	KP3 Sta.406.0	KP4 Sta.403.0	KP5 Sta.399.0	KP6 Sta. 395.5	KP7 Sta.393.0	KP8 Sta.388.5	KP9 Sta.387.5
Acenaphthene	mg/Kg-dry	570	<0.0634	<0.0572	<0.0585	<0.0574	<0.0573	<0.0564	<0.0583	<0.0579	<0.0577
Acenaphthylene	mg/Kg-dry		<0.0634	<0.0572	<0.0585	<0.0574	<0.0573	<0.0564	<0.0583	<0.0579	<0.0577
Anthracene	mg/Kg-dry	1200	<0.0634	<0.0572	<0.0585	<0.0574	<0.0573	<0.0564	<0.0583	<0.0579	<0.0577
Benzo(a)anthracene	mg/Kg-dry	1.1	<0.0634	<0.0572	<0.0585	<0.0574	<0.0573	<0.0564	<0.0583	<0.0579	<0.0577
Benzo(a)pyrene	mg/Kg-dry	1.3	<0.0634	<0.0572	<0.0585	<0.0574	<0.0573	<0.0564	<0.0583	<0.0579	<0.0577
Benzo(b)fluoranthene	mg/Kg-dry	1.5	<0.0634	<0.0572	<0.0585	<0.0574	<0.0573	<0.0564	<0.0583	<0.0579	<0.0577
Benzo(g,h,i)perylene	mg/Kg-dry		<0.0634	<0.0572	<0.0585	<0.0574	<0.0573	<0.0564	<0.0583	<0.0579	<0.0577
Benzo(k)fluoranthene	mg/Kg-dry	9	<0.0634	<0.0572	<0.0585	<0.0574	<0.0573	<0.0564	<0.0583	<0.0579	<0.0577
Chrysene	mg/Kg-dry	88	<0.0634	<0.0572	<0.0585	<0.0574	<0.0573	<0.0564	<0.0583	<0.0579	<0.0577
Dibenzo(a,h)anthracene	mg/Kg-dry	0.2	<0.0634	<0.0572	<0.0585	<0.0574	<0.0573	<0.0564	<0.0583	<0.0579	<0.0577
Fluoranthene	mg/Kg-dry	3100	<0.0634	<0.0572	<0.0585	<0.0574	<0.0573	<0.0564	<0.0583	<0.0579	<0.0577
Fluorene	mg/Kg-dry	560	<0.0634	<0.0572	<0.0585	<0.0574	<0.0573	<0.0564	<0.0583	<0.0579	<0.0577
Indeno(1,2,3-cd)pyrene	mg/Kg-dry	0.009	<0.0634	<0.0572	<0.0585	<0.0574	<0.0573	<0.0564	<0.0583	<0.0579	<0.0577
Naphthalene	mg/Kg-dry	1.8	<0.0634	<0.0572	<0.0585	<0.0574	<0.0573	<0.0564	<0.0583	<0.0579	<0.0577
Phenanthrene	mg/Kg-dry		<0.0634	<0.0572	<0.0585	<0.0574	<0.0573	<0.0564	<0.0583	<0.0579	<0.0577
Pyrene	mg/Kg-dry	2300	<0.0634	<0.0572	<0.0585	<0.0574	<0.0573	<0.0564	<0.0583	<0.0579	<0.0577

TACO_Results_PNA_Soil

Analyte	Unit	MACC	KP10 Sta.382.0	KP11 Sta.379.5	KP11 deep	KP12 Sta.375.5	KP13 Sta.374.0	KP14 Sta.371.5	KP15 Sta.369.5	KP16 Sta.365.0	KP17 Sta.362.5
Acenaphthene	mg/Kg-dry	570	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594
Acenaphthylene	mg/Kg-dry		<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594
Anthracene	mg/Kg-dry	1200	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594
Benzo(a)anthracene	mg/Kg-dry	1.1	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594
Benzo(a)pyrene	mg/Kg-dry	1.3	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594
Benzo(b)fluoranthene	mg/Kg-dry	1.5	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594
Benzo(g,h,i)perylene	mg/Kg-dry		<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594
Benzo(k)fluoranthene	mg/Kg-dry	9	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594
Chrysene	mg/Kg-dry	88	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594
Dibenzo(a,h)anthracene	mg/Kg-dry	0.2	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594
Fluoranthene	mg/Kg-dry	3100	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	0.0782	<0.0575	<0.0594
Fluorene	mg/Kg-dry	560	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594
Indeno(1,2,3-cd)pyrene	mg/Kg-dry	0.009	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594
Naphthalene	mg/Kg-dry	1.8	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	<0.0569	<0.0575	<0.0594
Phenanthrene	mg/Kg-dry		<0.0569	<0.0584	<0.0588	<0.0623	0.0566	<0.0644	0.0763	<0.0575	<0.0594
Pyrene	mg/Kg-dry	2300	<0.0569	<0.0584	<0.0588	<0.0623	<0.0559	<0.0644	0.0653	<0.0575	<0.0594

TACO_Results_PNA_Soil

Analyte	Unit	MACC	KP18 Sta.358.0	KP19 Sta.356.5	KP20 Sta.349.0
Acenaphthene	mg/Kg-dry	570	<0.0570	<0.0574	<0.0626
Acenaphthylene	mg/Kg-dry		<0.0570	<0.0574	<0.0626
Anthracene	mg/Kg-dry	1200	<0.0570	<0.0574	<0.0626
Benzo(a)anthracene	mg/Kg-dry	1.1	<0.0570	0.154	<0.0626
Benzo(a)pyrene	mg/Kg-dry	1.3	<0.0570	0.142	<0.0626
Benzo(b)fluoranthene	mg/Kg-dry	1.5	<0.0570	0.202	<0.0626
Benzo(g,h,i)perylene	mg/Kg-dry		<0.0570	0.134	<0.0626
Benzo(k)fluoranthene	mg/Kg-dry	9	<0.0570	0.0708	<0.0626
Chrysene	mg/Kg-dry	88	<0.0570	0.171	<0.0626
Dibenzo(a,h)anthracene	mg/Kg-dry	0.2	<0.0570	<0.0574	<0.0626
Fluoranthene	mg/Kg-dry	3100	<0.0570	0.276	<0.0626
Fluorene	mg/Kg-dry	560	<0.0570	<0.0574	<0.0626
Indeno(1,2,3-cd)pyrene	mg/Kg-dry	0.009	<0.0570	0.113	<0.0626
Naphthalene	mg/Kg-dry	1.8	<0.0570	<0.0574	<0.0626
Phenanthrene	mg/Kg-dry		<0.0570	0.156	<0.0626
Pyrene	mg/Kg-dry	2300	<0.0570	0.264	<0.0626

TACO_Results__RCRA_Soil

Analyte	Unit	MACC	KP1 Sta.413.0	KP2 Sta.409.0	KP3 Sta.406.0	KP4 Sta.403.0	KP5 Sta.399.0	KP6 Sta. 395.5	KP7 Sta.393.0	KP8 Sta.388.5	KP9 Sta.387.5	KP10 Sta.382.0
Arsenic	mg/Kg-dry	13	<1.14	2.92	1.71	1.73	4.96	2.60	<1.14	1.92	9.83	8.51
Barium	mg/Kg-dry	1500	103	80.8	75.2	60.0	35.0	55.1	87.9	50.4	57.8	60.9
Cadmium	mg/Kg-dry	5.2	0.183	0.202	0.138	0.197	0.270	0.167	0.226	0.161	0.268	0.228
Chromium	mg/Kg-dry	21	12.3	8.55	9.73	8.48	6.29	7.12	10.2	6.83	9.12	9.99
Lead	mg/Kg-dry	107	10.4	16.1	9.40	7.22	6.77	7.25	10.6	6.99	7.5	6.37
Mercury	mg/Kg-dry	0.1	<0.0201	0.0320	<0.0186	<0.0187	0.0275	0.0239	0.0202	0.0204	<0.0188	<0.0180
Selenium	mg/Kg-dry	1.3	<1.29	<1.29	<1.29	<1.26	<1.30	<1.26	<1.29	<1.30	<1.27	<1.27
Silver	mg/Kg-dry	4.4	<0.0594	<0.0594	<0.0594	<0.0583	<0.0600	<0.0583	<0.0594	<0.0600	1.29	1.17

TACO_Results__RCRA_Soil

KP11 Sta.379.5	KP11 deep	KP12 Sta.375.5	KP13 Sta.374.0	KP14 Sta.371.5	KP15 Sta.369.5	KP16 Sta.365.0	KP17 Sta.362.5	KP18 Sta.358.0	KP19 Sta.356.5	KP20 Sta.349.0
17.2	2.26	8.86	8.82	10	6.9	4.11	7.18	9.34	7.02	8.76
93.3	6.95	99.5	41.7	148	58.9	41.9	79	76.8	62.9	112
0.397	0.0962	0.25	0.23	0.317	0.205	0.193	0.321	0.302	0.399	0.379
13.7	2.77	12.5	8.77	16.5	9.66	7.3	10.3	12.2	9.18	14.9
15.3	3.38	7.38	12.2	8.99	9.75	6.45	7.09	7.2	19.6	8.34
<0.0192	<0.0191	<0.0209	<0.0173	<0.0212	0.0204	0.0266	0.0384	0.0783	0.0314	0.0339
<1.27	<1.25	<1.25	<1.30	<1.27	<1.29	<1.26	<1.25	<1.25	<1.30	<1.26
1.74	0.392	1.22	1.09	1.74	1.19	0.571	0.916	1.19	1.06	1.14

TACO_Results__pH

Analyte	KP1 Sta.413.0	KP2 Sta.409.0	KP3 Sta.406.0	KP4 Sta.403.0	KP5 Sta.399.0	KP6 Sta. 395.5	KP7 Sta.393.0	KP8 Sta.388.5	KP9 Sta.387.5	KP10 Sta.382.0	KP11 Sta.379.5	KP11 deep	KP12 Sta.375.5
pH	7.53	7.86	7.73	8.51	7.91	7.81	7.65	7.78	7.51	7.75	7.65	9.43	7.75

TACO_Results__pH

KP13 Sta.374.0	KP14 Sta.371.5	KP15 Sta.369.5	KP16 Sta.365.0	KP17 Sta.362.5	KP18 Sta.358.0	KP19 Sta.356.5	KP20 Sta.349.0
7.88	7.73	7.93	7.52	7.53	7.51	7.91	7.35

APPENDIX D

LABORATORY DATA SHEETS

SUBURBAN LABORATORIES, Inc.



1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

June 09, 2021

Jessica Madsen
K-Plus Engineering Services
15 Salt Creek Lane - Suite 410
Hinsdale, IL 60521

Workorder: 2106286

TEL: (312) 207-1600

FAX:

RE: 31034

Dear Jessica Madsen:

Suburban Laboratories, Inc. received 4 sample(s) on 6/2/2021 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Keith Sinon
Project Manager
708-544-3260 ext 212
keith@suburbanlabs.com





Client: K-Plus Engineering Services

Date: June 09, 2021

Project: 31034

PO #:

WorkOrder: 2106286

QC Level:

Temperature of samples upon receipt at SLI: 2 C

Chain of Custody #:

General Comments:

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:

- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:

For a complete list of method references please contact us.

- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 09, 2021

Project Name: 31034

Workorder: 2106286

Client Sample ID: KP1

Matrix: SOIL

Lab ID: 2106286-001

Date Received: 06/02/2021 4:15 PM

Collection Date: 06/01/2021 12:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	ND	1.14		mg/Kg-dry	1	06/08/2021 11:41 AM	74190
Barium	103	0.124		mg/Kg-dry	1	06/09/2021 10:07 AM	74190
Cadmium	0.183	0.0743	J	mg/Kg-dry	1	06/08/2021 11:41 AM	74190
Chromium	12.3	0.0594		mg/Kg-dry	1	06/08/2021 11:41 AM	74190
Lead	10.4	0.594		mg/Kg-dry	1	06/08/2021 11:41 AM	74190
Selenium	ND	1.29		mg/Kg-dry	1	06/08/2021 11:41 AM	74190
Silver	ND	0.0594		mg/Kg-dry	1	06/08/2021 11:41 AM	74190
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Total 1,3-Dichloropropene	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
1,1,1-Trichloroethane	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
1,1,2,2-Tetrachloroethane	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
1,1,2-Trichloroethane	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
1,1-Dichloroethane	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
1,1-Dichloroethene	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
1,2-Dichloroethane	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
1,2-Dichloropropane	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
2-Butanone	ND	0.0100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
2-Hexanone	ND	0.0251		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
4-Methyl-2-pentanone	ND	0.0251		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Acetone	ND	0.0251		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Benzene	ND	0.000251		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Bromodichloromethane	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Bromoform	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Bromomethane	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Carbon disulfide	ND	0.00227		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Carbon tetrachloride	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Chlorobenzene	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Chloroethane	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Chloroform	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Chloromethane	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
cis-1,2-Dichloroethene	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
cis-1,3-Dichloropropene	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Dibromochloromethane	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Ethylbenzene	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
m,p-Xylene	ND	0.00201		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Methyl tert-butyl ether	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 09, 2021

Project Name: 31034

Workorder: 2106286

Client Sample ID: KP1

Matrix: SOIL

Lab ID: 2106286-001

Date Received: 06/02/2021 4:15 PM

Collection Date: 06/01/2021 12:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Methylene chloride	ND	0.00501		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
o-Xylene	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Total Xylenes	ND	0.00201		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Styrene	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Tetrachloroethene	ND	0.00201		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Toluene	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
trans-1,2-Dichloroethene	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
trans-1,3-Dichloropropene	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Trichloroethene	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
Vinyl chloride	ND	0.00100		mg/Kg-dry	0.7874264	06/03/2021 7:00 PM	R134247
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	94.8	80-130		%Rec	0.7874264	06/03/2021 7:00 PM	R134247
SS: Dibromofluoromethane	94.8	76.1-120		%Rec	0.7874264	06/03/2021 7:00 PM	R134247
SS: Toluene-d8	99.2	85-115		%Rec	0.7874264	06/03/2021 7:00 PM	R134247
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
1,2,4-Trichlorobenzene	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
1,2-Dichlorobenzene	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
1,3-Dichlorobenzene	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
1,4-Dichlorobenzene	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
2,4,5-Trichlorophenol	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
2,4,6-Trichlorophenol	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
2,4-Dichlorophenol	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
2,4-Dimethylphenol	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
2,4-Dinitrophenol	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
2,4-Dinitrotoluene	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
2,6-Dinitrotoluene	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
2-Chloronaphthalene	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
2-Chlorophenol	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
2-Methylnaphthalene	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
2-Nitroaniline	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
2-Nitrophenol	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
3,3-Dichlorobenzidine	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
3-Nitroaniline	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
4,6-Dinitro-2-methylphenol	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
4-Bromophenyl phenyl ether	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
4-Chloro-3-methylphenol	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
4-Chloroaniline	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 09, 2021

Project Name: 31034

Workorder: 2106286

Client Sample ID: KP1

Matrix: SOIL

Lab ID: 2106286-001

Date Received: 06/02/2021 4:15 PM

Collection Date: 06/01/2021 12:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
4-Chlorophenyl phenyl ether	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
4-Nitroaniline	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
4-Nitrophenol	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Acenaphthene	ND	0.0634		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Acenaphthylene	ND	0.0634		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Anthracene	ND	0.0634		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Benzo(a)anthracene	ND	0.0634		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Benzo(a)pyrene	ND	0.0634		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Benzo(b)fluoranthene	ND	0.0634		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Benzo(g,h,i)perylene	ND	0.0634		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Benzo(k)fluoranthene	ND	0.0634		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Bis(2-chloroethoxy)methane	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Bis(2-chloroethyl)ether	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Bis(2-chloroisopropyl)ether	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Bis(2-ethylhexyl)phthalate	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Butyl benzyl phthalate	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Carbazole	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Chrysene	ND	0.0634		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Dibenzo(a,h)anthracene	ND	0.0634		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Dibenzofuran	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Diethyl phthalate	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Dimethyl phthalate	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Di-n-butyl phthalate	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Di-n-octyl phthalate	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Fluoranthene	ND	0.0634		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Fluorene	ND	0.0634		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Hexachlorobenzene	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Hexachlorobutadiene	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Hexachlorocyclopentadiene	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Hexachloroethane	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Indeno(1,2,3-cd)pyrene	ND	0.0634		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Isophorone	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
m,p-Cresol	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Naphthalene	ND	0.0634		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Nitrobenzene	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
N-Nitroso-di-n-propylamine	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
N-Nitrosodiphenylamine	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
o-Cresol	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Pentachlorophenol	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 09, 2021

Project Name: 31034

Workorder: 2106286

Client Sample ID: KP1

Matrix: SOIL

Lab ID: 2106286-001

Date Received: 06/02/2021 4:15 PM

Collection Date: 06/01/2021 12:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
Phenanthrene	ND	0.0634		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Phenol	ND	0.317		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
Pyrene	ND	0.0634		mg/Kg-dry	1	06/04/2021 7:02 PM	74146
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	99.2	0.1-136		%Rec	1	06/04/2021 7:02 PM	74146
SS: 2-Fluorobiphenyl	91.9	16.3-118		%Rec	1	06/04/2021 7:02 PM	74146
SS: 2-Fluorophenol	109	4.2-97	S	%Rec	1	06/04/2021 7:02 PM	74146
SS: 4-Terphenyl-d14	67.8	0.1-147		%Rec	1	06/04/2021 7:02 PM	74146
SS: Nitrobenzene-d5	98.8	0.1-119		%Rec	1	06/04/2021 7:02 PM	74146
SS: Phenol-d6	104	9.82-111		%Rec	1	06/04/2021 7:02 PM	74146
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	ND	0.0201		mg/Kg-dry	1	06/03/2021 1:33 PM	74110
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.53	1.00		pH Units	1	06/03/2021 4:23 PM	R134241
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	21	1.0	c	wt%	1	06/04/2021 4:18 PM	R134281



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 09, 2021

Project Name: 31034

Workorder: 2106286

Client Sample ID: KP2

Matrix: SOIL

Lab ID: 2106286-002

Date Received: 06/02/2021 4:15 PM

Collection Date: 06/01/2021 12:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	2.92	1.14	J	mg/Kg-dry	1	06/08/2021 11:45 AM	74190
Barium	80.8	0.124		mg/Kg-dry	1	06/09/2021 10:11 AM	74190
Cadmium	0.202	0.0743	J	mg/Kg-dry	1	06/08/2021 11:45 AM	74190
Chromium	8.55	0.0594		mg/Kg-dry	1	06/08/2021 11:45 AM	74190
Lead	16.1	0.594		mg/Kg-dry	1	06/08/2021 11:45 AM	74190
Selenium	ND	1.29		mg/Kg-dry	1	06/08/2021 11:45 AM	74190
Silver	ND	0.0594		mg/Kg-dry	1	06/08/2021 11:45 AM	74190
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Total 1,3-Dichloropropene	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
1,1,1-Trichloroethane	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
1,1,2,2-Tetrachloroethane	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
1,1,2-Trichloroethane	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
1,1-Dichloroethane	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
1,1-Dichloroethene	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
1,2-Dichloroethane	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
1,2-Dichloropropane	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
2-Butanone	ND	0.00870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
2-Hexanone	ND	0.0218		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
4-Methyl-2-pentanone	ND	0.0218		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Acetone	ND	0.0218		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Benzene	ND	0.000218		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Bromodichloromethane	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Bromoform	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Bromomethane	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Carbon disulfide	ND	0.00128		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Carbon tetrachloride	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Chlorobenzene	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Chloroethane	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Chloroform	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Chloromethane	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
cis-1,2-Dichloroethene	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
cis-1,3-Dichloropropene	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Dibromochloromethane	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Ethylbenzene	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
m,p-Xylene	ND	0.00174		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Methyl tert-butyl ether	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 09, 2021

Project Name: 31034

Workorder: 2106286

Client Sample ID: KP2

Matrix: SOIL

Lab ID: 2106286-002

Date Received: 06/02/2021 4:15 PM

Collection Date: 06/01/2021 12:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Methylene chloride	ND	0.00435		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
o-Xylene	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Total Xylenes	ND	0.00174		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Styrene	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Tetrachloroethene	ND	0.00174		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Toluene	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
trans-1,2-Dichloroethene	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
trans-1,3-Dichloropropene	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Trichloroethene	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
Vinyl chloride	ND	0.000870		mg/Kg-dry	0.7542502	06/03/2021 7:34 PM	R134247
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	93.3	80-130		%Rec	0.7542502	06/03/2021 7:34 PM	R134247
SS: Dibromofluoromethane	95.6	76.1-120		%Rec	0.7542502	06/03/2021 7:34 PM	R134247
SS: Toluene-d8	98.8	85-115		%Rec	0.7542502	06/03/2021 7:34 PM	R134247
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
1,2,4-Trichlorobenzene	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
1,2-Dichlorobenzene	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
1,3-Dichlorobenzene	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
1,4-Dichlorobenzene	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
2,4,5-Trichlorophenol	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
2,4,6-Trichlorophenol	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
2,4-Dichlorophenol	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
2,4-Dimethylphenol	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
2,4-Dinitrophenol	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
2,4-Dinitrotoluene	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
2,6-Dinitrotoluene	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
2-Chloronaphthalene	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
2-Chlorophenol	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
2-Methylnaphthalene	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
2-Nitroaniline	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
2-Nitrophenol	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
3,3-Dichlorobenzidine	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
3-Nitroaniline	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
4,6-Dinitro-2-methylphenol	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
4-Bromophenyl phenyl ether	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
4-Chloro-3-methylphenol	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
4-Chloroaniline	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 09, 2021

Project Name: 31034

Workorder: 2106286

Client Sample ID: KP2

Matrix: SOIL

Lab ID: 2106286-002

Date Received: 06/02/2021 4:15 PM

Collection Date: 06/01/2021 12:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
4-Chlorophenyl phenyl ether	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
4-Nitroaniline	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
4-Nitrophenol	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Acenaphthene	ND	0.0572		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Acenaphthylene	ND	0.0572		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Anthracene	ND	0.0572		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Benzo(a)anthracene	ND	0.0572		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Benzo(a)pyrene	ND	0.0572		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Benzo(b)fluoranthene	ND	0.0572		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Benzo(g,h,i)perylene	ND	0.0572		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Benzo(k)fluoranthene	ND	0.0572		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Bis(2-chloroethoxy)methane	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Bis(2-chloroethyl)ether	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Bis(2-chloroisopropyl)ether	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Bis(2-ethylhexyl)phthalate	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Butyl benzyl phthalate	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Carbazole	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Chrysene	ND	0.0572		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Dibenzo(a,h)anthracene	ND	0.0572		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Dibenzofuran	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Diethyl phthalate	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Dimethyl phthalate	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Di-n-butyl phthalate	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Di-n-octyl phthalate	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Fluoranthene	ND	0.0572		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Fluorene	ND	0.0572		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Hexachlorobenzene	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Hexachlorobutadiene	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Hexachlorocyclopentadiene	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Hexachloroethane	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Indeno(1,2,3-cd)pyrene	ND	0.0572		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Isophorone	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
m,p-Cresol	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Naphthalene	ND	0.0572		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Nitrobenzene	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
N-Nitroso-di-n-propylamine	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
N-Nitrosodiphenylamine	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
o-Cresol	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Pentachlorophenol	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 09, 2021

Project Name: 31034

Workorder: 2106286

Client Sample ID: KP2

Matrix: SOIL

Lab ID: 2106286-002

Date Received: 06/02/2021 4:15 PM

Collection Date: 06/01/2021 12:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
Phenanthrene	ND	0.0572		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Phenol	ND	0.286		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
Pyrene	ND	0.0572		mg/Kg-dry	1	06/04/2021 7:39 PM	74146
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	85.7	0.1-136		%Rec	1	06/04/2021 7:39 PM	74146
SS: 2-Fluorobiphenyl	93.0	16.3-118		%Rec	1	06/04/2021 7:39 PM	74146
SS: 2-Fluorophenol	102	4.2-97	S	%Rec	1	06/04/2021 7:39 PM	74146
SS: 4-Terphenyl-d14	56.9	0.1-147		%Rec	1	06/04/2021 7:39 PM	74146
SS: Nitrobenzene-d5	98.6	0.1-119		%Rec	1	06/04/2021 7:39 PM	74146
SS: Phenol-d6	99.5	9.82-111		%Rec	1	06/04/2021 7:39 PM	74146
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	0.0320	0.0187	J	mg/Kg-dry	1	06/03/2021 1:43 PM	74110
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.86	1.00		pH Units	1	06/03/2021 4:24 PM	R134241
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	13	1.0	c	wt%	1	06/07/2021 12:30 PM	R134315



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 09, 2021

Project Name: 31034

Workorder: 2106286

Client Sample ID: KP3

Matrix: SOIL

Lab ID: 2106286-003

Date Received: 06/02/2021 4:15 PM

Collection Date: 06/01/2021 1:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	1.71	1.14	J	mg/Kg-dry	1	06/08/2021 11:48 AM	74190
Barium	75.2	0.124		mg/Kg-dry	1	06/09/2021 10:14 AM	74190
Cadmium	0.138	0.0743	J	mg/Kg-dry	1	06/08/2021 11:48 AM	74190
Chromium	9.73	0.0594		mg/Kg-dry	1	06/08/2021 11:48 AM	74190
Lead	9.40	0.594		mg/Kg-dry	1	06/08/2021 11:48 AM	74190
Selenium	ND	1.29		mg/Kg-dry	1	06/08/2021 11:48 AM	74190
Silver	ND	0.0594		mg/Kg-dry	1	06/08/2021 11:48 AM	74190
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Total 1,3-Dichloropropene	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
1,1,1-Trichloroethane	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
1,1,2,2-Tetrachloroethane	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
1,1,2-Trichloroethane	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
1,1-Dichloroethane	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
1,1-Dichloroethene	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
1,2-Dichloroethane	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
1,2-Dichloropropane	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
2-Butanone	ND	0.00826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
2-Hexanone	ND	0.0206		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
4-Methyl-2-pentanone	ND	0.0206		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Acetone	ND	0.0206		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Benzene	ND	0.000206		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Bromodichloromethane	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Bromoform	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Bromomethane	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Carbon disulfide	ND	0.00109		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Carbon tetrachloride	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Chlorobenzene	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Chloroethane	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Chloroform	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Chloromethane	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
cis-1,2-Dichloroethene	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
cis-1,3-Dichloropropene	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Dibromochloromethane	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Ethylbenzene	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
m,p-Xylene	ND	0.00165		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Methyl tert-butyl ether	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 09, 2021

Project Name: 31034

Workorder: 2106286

Client Sample ID: KP3

Matrix: SOIL

Lab ID: 2106286-003

Date Received: 06/02/2021 4:15 PM

Collection Date: 06/01/2021 1:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Methylene chloride	ND	0.00413		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
o-Xylene	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Total Xylenes	ND	0.00165		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Styrene	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Tetrachloroethene	ND	0.00165		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Toluene	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
trans-1,2-Dichloroethene	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
trans-1,3-Dichloropropene	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Trichloroethene	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
Vinyl chloride	ND	0.000826		mg/Kg-dry	0.7022669	06/03/2021 8:08 PM	R134247
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	98.0	80-130		%Rec	0.7022669	06/03/2021 8:08 PM	R134247
SS: Dibromofluoromethane	95.1	76.1-120		%Rec	0.7022669	06/03/2021 8:08 PM	R134247
SS: Toluene-d8	101	85-115		%Rec	0.7022669	06/03/2021 8:08 PM	R134247
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
1,2,4-Trichlorobenzene	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
1,2-Dichlorobenzene	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
1,3-Dichlorobenzene	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
1,4-Dichlorobenzene	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
2,4,5-Trichlorophenol	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
2,4,6-Trichlorophenol	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
2,4-Dichlorophenol	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
2,4-Dimethylphenol	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
2,4-Dinitrophenol	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
2,4-Dinitrotoluene	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
2,6-Dinitrotoluene	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
2-Chloronaphthalene	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
2-Chlorophenol	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
2-Methylnaphthalene	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
2-Nitroaniline	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
2-Nitrophenol	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
3,3-Dichlorobenzidine	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
3-Nitroaniline	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
4,6-Dinitro-2-methylphenol	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
4-Bromophenyl phenyl ether	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
4-Chloro-3-methylphenol	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
4-Chloroaniline	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 09, 2021

Project Name: 31034

Workorder: 2106286

Client Sample ID: KP3

Matrix: SOIL

Lab ID: 2106286-003

Date Received: 06/02/2021 4:15 PM

Collection Date: 06/01/2021 1:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
4-Chlorophenyl phenyl ether	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
4-Nitroaniline	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
4-Nitrophenol	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Acenaphthene	ND	0.0585		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Acenaphthylene	ND	0.0585		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Anthracene	ND	0.0585		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Benzo(a)anthracene	ND	0.0585		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Benzo(a)pyrene	ND	0.0585		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Benzo(b)fluoranthene	ND	0.0585		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Benzo(g,h,i)perylene	ND	0.0585		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Benzo(k)fluoranthene	ND	0.0585		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Bis(2-chloroethoxy)methane	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Bis(2-chloroethyl)ether	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Bis(2-chloroisopropyl)ether	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Bis(2-ethylhexyl)phthalate	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Butyl benzyl phthalate	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Carbazole	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Chrysene	ND	0.0585		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Dibenzo(a,h)anthracene	ND	0.0585		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Dibenzofuran	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Diethyl phthalate	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Dimethyl phthalate	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Di-n-butyl phthalate	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Di-n-octyl phthalate	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Fluoranthene	ND	0.0585		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Fluorene	ND	0.0585		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Hexachlorobenzene	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Hexachlorobutadiene	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Hexachlorocyclopentadiene	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Hexachloroethane	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Indeno(1,2,3-cd)pyrene	ND	0.0585		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Isophorone	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
m,p-Cresol	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Naphthalene	ND	0.0585		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Nitrobenzene	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
N-Nitroso-di-n-propylamine	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
N-Nitrosodiphenylamine	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
o-Cresol	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Pentachlorophenol	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 09, 2021

Project Name: 31034

Workorder: 2106286

Client Sample ID: KP3

Matrix: SOIL

Lab ID: 2106286-003

Date Received: 06/02/2021 4:15 PM

Collection Date: 06/01/2021 1:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96		Analyst: ES			
Phenanthrene	ND	0.0585		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Phenol	ND	0.293		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
Pyrene	ND	0.0585		mg/Kg-dry	1	06/04/2021 8:15 PM	74146
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	99.3	0.1-136		%Rec	1	06/04/2021 8:15 PM	74146
SS: 2-Fluorobiphenyl	92.1	16.3-118		%Rec	1	06/04/2021 8:15 PM	74146
SS: 2-Fluorophenol	105	4.2-97	S	%Rec	1	06/04/2021 8:15 PM	74146
SS: 4-Terphenyl-d14	68.4	0.1-147		%Rec	1	06/04/2021 8:15 PM	74146
SS: Nitrobenzene-d5	99.5	0.1-119		%Rec	1	06/04/2021 8:15 PM	74146
SS: Phenol-d6	103	9.82-111		%Rec	1	06/04/2021 8:15 PM	74146
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07		Analyst: MTS			
Mercury	ND	0.0186		mg/Kg-dry	1	06/03/2021 1:47 PM	74110
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95		Analyst: AD			
pH	7.73	1.00		pH Units	1	06/03/2021 4:35 PM	R134241
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005		Analyst: MW			
Percent Moisture	15	1.0	c	wt%	1	06/07/2021 12:30 PM	R134315



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 09, 2021

Project Name: 31034

Workorder: 2106286

Client Sample ID: KP4

Matrix: SOIL

Lab ID: 2106286-004

Date Received: 06/02/2021 4:15 PM

Collection Date: 06/01/2021 1:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	1.73	1.12	J	mg/Kg-dry	1	06/08/2021 11:58 AM	74190
Barium	60.0	0.121		mg/Kg-dry	1	06/09/2021 10:24 AM	74190
Cadmium	0.197	0.0728	J	mg/Kg-dry	1	06/08/2021 11:58 AM	74190
Chromium	8.48	0.0583		mg/Kg-dry	1	06/08/2021 11:58 AM	74190
Lead	7.22	0.583		mg/Kg-dry	1	06/08/2021 11:58 AM	74190
Selenium	ND	1.26		mg/Kg-dry	1	06/08/2021 11:58 AM	74190
Silver	ND	0.0583		mg/Kg-dry	1	06/08/2021 11:58 AM	74190
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Total 1,3-Dichloropropene	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
1,1,1-Trichloroethane	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
1,1,2,2-Tetrachloroethane	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
1,1,2-Trichloroethane	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
1,1-Dichloroethane	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
1,1-Dichloroethene	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
1,2-Dichloroethane	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
1,2-Dichloropropane	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
2-Butanone	ND	0.00847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
2-Hexanone	ND	0.0212		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
4-Methyl-2-pentanone	ND	0.0212		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Acetone	ND	0.0212		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Benzene	ND	0.000212		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Bromodichloromethane	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Bromoform	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Bromomethane	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Carbon disulfide	ND	0.00115		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Carbon tetrachloride	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Chlorobenzene	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Chloroethane	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Chloroform	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Chloromethane	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
cis-1,2-Dichloroethene	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
cis-1,3-Dichloropropene	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Dibromochloromethane	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Ethylbenzene	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
m,p-Xylene	ND	0.00169		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Methyl tert-butyl ether	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 09, 2021

Project Name: 31034

Workorder: 2106286

Client Sample ID: KP4

Matrix: SOIL

Lab ID: 2106286-004

Date Received: 06/02/2021 4:15 PM

Collection Date: 06/01/2021 1:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Methylene chloride	ND	0.00424		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
o-Xylene	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Total Xylenes	ND	0.00169		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Styrene	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Tetrachloroethene	ND	0.00169		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Toluene	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
trans-1,2-Dichloroethene	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
trans-1,3-Dichloropropene	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Trichloroethene	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
Vinyl chloride	ND	0.000847		mg/Kg-dry	0.7361277	06/03/2021 8:42 PM	R134247
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	96.5	80-130		%Rec	0.7361277	06/03/2021 8:42 PM	R134247
SS: Dibromofluoromethane	96.6	76.1-120		%Rec	0.7361277	06/03/2021 8:42 PM	R134247
SS: Toluene-d8	97.8	85-115		%Rec	0.7361277	06/03/2021 8:42 PM	R134247
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
1,2,4-Trichlorobenzene	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
1,2-Dichlorobenzene	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
1,3-Dichlorobenzene	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
1,4-Dichlorobenzene	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
2,4,5-Trichlorophenol	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
2,4,6-Trichlorophenol	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
2,4-Dichlorophenol	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
2,4-Dimethylphenol	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
2,4-Dinitrophenol	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
2,4-Dinitrotoluene	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
2,6-Dinitrotoluene	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
2-Chloronaphthalene	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
2-Chlorophenol	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
2-Methylnaphthalene	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
2-Nitroaniline	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
2-Nitrophenol	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
3,3-Dichlorobenzidine	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
3-Nitroaniline	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
4,6-Dinitro-2-methylphenol	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
4-Bromophenyl phenyl ether	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
4-Chloro-3-methylphenol	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
4-Chloroaniline	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 09, 2021

Project Name: 31034

Workorder: 2106286

Client Sample ID: KP4

Matrix: SOIL

Lab ID: 2106286-004

Date Received: 06/02/2021 4:15 PM

Collection Date: 06/01/2021 1:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
4-Chlorophenyl phenyl ether	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
4-Nitroaniline	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
4-Nitrophenol	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Acenaphthene	ND	0.0574		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Acenaphthylene	ND	0.0574		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Anthracene	ND	0.0574		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Benzo(a)anthracene	ND	0.0574		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Benzo(a)pyrene	ND	0.0574		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Benzo(b)fluoranthene	ND	0.0574		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Benzo(g,h,i)perylene	ND	0.0574		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Benzo(k)fluoranthene	ND	0.0574		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Bis(2-chloroethoxy)methane	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Bis(2-chloroethyl)ether	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Bis(2-chloroisopropyl)ether	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Bis(2-ethylhexyl)phthalate	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Butyl benzyl phthalate	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Carbazole	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Chrysene	ND	0.0574		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Dibenzo(a,h)anthracene	ND	0.0574		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Dibenzofuran	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Diethyl phthalate	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Dimethyl phthalate	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Di-n-butyl phthalate	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Di-n-octyl phthalate	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Fluoranthene	ND	0.0574		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Fluorene	ND	0.0574		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Hexachlorobenzene	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Hexachlorobutadiene	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Hexachlorocyclopentadiene	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Hexachloroethane	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Indeno(1,2,3-cd)pyrene	ND	0.0574		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Isophorone	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
m,p-Cresol	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Naphthalene	ND	0.0574		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Nitrobenzene	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
N-Nitroso-di-n-propylamine	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
N-Nitrosodiphenylamine	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
o-Cresol	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Pentachlorophenol	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 09, 2021

Project Name: 31034

Workorder: 2106286

Client Sample ID: KP4

Matrix: SOIL

Lab ID: 2106286-004

Date Received: 06/02/2021 4:15 PM

Collection Date: 06/01/2021 1:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
Phenanthrene	ND	0.0574		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Phenol	ND	0.287		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
Pyrene	ND	0.0574		mg/Kg-dry	1	06/04/2021 8:51 PM	74146
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	98.8	0.1-136		%Rec	1	06/04/2021 8:51 PM	74146
SS: 2-Fluorobiphenyl	96.0	16.3-118		%Rec	1	06/04/2021 8:51 PM	74146
SS: 2-Fluorophenol	106	4.2-97	S	%Rec	1	06/04/2021 8:51 PM	74146
SS: 4-Terphenyl-d14	59.9	0.1-147		%Rec	1	06/04/2021 8:51 PM	74146
SS: Nitrobenzene-d5	101	0.1-119		%Rec	1	06/04/2021 8:51 PM	74146
SS: Phenol-d6	103	9.82-111		%Rec	1	06/04/2021 8:51 PM	74146
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	ND	0.0187		mg/Kg-dry	1	06/03/2021 1:50 PM	74110
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	8.51	1.00		pH Units	1	06/03/2021 4:36 PM	R134241
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	13	1.0	c	wt%	1	06/07/2021 12:30 PM	R134315



Suburban Laboratories, Inc.

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PREP DATES REPORT

Client: K-Plus Engineering Services
Project: 31034

Report Date: June 09, 2021
Lab Order: 2106286

Sample ID	Collection Date	Batch ID	Prep Test Name	TCLP Date	Prep Date
2106286-001A	6/1/2021 12:00:00 PM	74150	CLOSED SYSTEM P&T VOC Prep		6/4/2021
2106286-001C		74110	Mercury Prep for Solids		6/3/2021
		74146	SOLID PREP SONICATION: BNA		6/4/2021
		74190	SOLID PREP TOTAL METALS: ICP		6/7/2021
2106286-002A	6/1/2021 12:45:00 PM	74150	CLOSED SYSTEM P&T VOC Prep		6/4/2021
2106286-002C		74110	Mercury Prep for Solids		6/3/2021
		74146	SOLID PREP SONICATION: BNA		6/4/2021
		74190	SOLID PREP TOTAL METALS: ICP		6/7/2021
2106286-003A	6/1/2021 1:15:00 PM	74150	CLOSED SYSTEM P&T VOC Prep		6/4/2021
2106286-003C		74110	Mercury Prep for Solids		6/3/2021
		74146	SOLID PREP SONICATION: BNA		6/4/2021
		74190	SOLID PREP TOTAL METALS: ICP		6/7/2021
2106286-004A	6/1/2021 1:45:00 PM	74150	CLOSED SYSTEM P&T VOC Prep		6/4/2021
2106286-004C		74110	Mercury Prep for Solids		6/3/2021
		74146	SOLID PREP SONICATION: BNA		6/4/2021
		74190	SOLID PREP TOTAL METALS: ICP		6/7/2021



Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
C	Value is below Minimum Concentration Limit
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
Q	Accreditation is not available from Wisconsin
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
T	Analyte detected in sample trip blank
V	EPA requires field analysis/filtration. Lab analysis would be considered past hold time.
WI	This sample was ran at the Wisconsin Laboratory, WI DNR Certified #460024950



SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave. Ste. 150 Geneva, IL 60134

Tel. 708.544.3260

login@suburbanlabs.com

www.suburbanlabs.com

CHAIN OF CUSTODY RECORD

Company Name: **K-PLUS ENV**

Company Address: **4111 W. Maple** State: **IL** Zip: **60521**

Office: **312-287-1600** Mobile: **312-287-1600** Fax: **312-287-1600**

Email/Address: **psicame@kplus.com**

Project ID / Location: **31034**

Project Manager (Report to): **Jessica Madson**

Sample Collector(s): **Jessica Madson**

TURNAROUND TIME REQUESTED

Normal RUSH*

* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.

Date and Time Report Needed: _____

Specify Regulatory Program: None/Info Only

LUST SRP SDWA

503 Sludge NPDES MWRDGC

Disposal CCDD OTHER - Specify Below

ANALYSIS & METHOD REQUESTED

Enter an "X" in box below for request

VOC
SVOC
RCRA Metals
PH

Page **1** of **1**

PO # _____

Report Type: Normal Special*

* Additional charges apply for QC reports and raw data. Specify in comments section

Shipping Method _____

SAMPLE IDENTIFICATION (Use 1 line per container type)

1	2	3	4	5	6	7	8	9	10	11	12	COLLECTION		MATRIX	GRAB/COMP.	CONTAINERS		PRESERVATIVE
												DATE	TIME			QTY	SIZE & TYPE	
	KP1											6-1	12	S	C	4	8oz-935	YLS
	KP2											1245	1245	S	C	1		
	KP3											115	115	S	C	1		
	KP4											145	145	S	C	1		

LAB USE ONLY

Work Order # **2106286**

Temperature of Received Samples **2** °C

Received within 24 hours of collection? No Yes

Lab Comment _____ LAB # _____

COMMENTS & SPECIAL INSTRUCTIONS:

70037

1. Requisitioned By: **Jessica Madson** Date: **6-1-21** Time: **14:58**

2. Requisitioned By: **Jessica Madson** Date: **6-2-21** Time: **16:15**

3. Requisitioned By: _____ Date: _____ Time: _____

4. Requisitioned By: _____ Date: _____ Time: _____

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water (SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H₂SO₄, HCl, HNO₃, Methanol (MeOH), NaOH, Sodium Bisulfate (NaB), NaThio

Requisitioned By: **Jessica Madson** Date: **6-1-21** Time: **14:58**

Received By: **Jessica Madson** Date: **6-2-21** Time: **16:15**

Requisitioned By: _____ Date: _____ Time: _____

Received By: _____ Date: _____ Time: _____

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

SUBURBAN LABORATORIES, Inc.



1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

June 10, 2021

Jessica Madsen
K-Plus Engineering Services
15 Salt Creek Lane - Suite 410
Hinsdale, IL 60521

Workorder: 2106582

TEL: (312) 207-1600

FAX:

RE: 31034

Dear Jessica Madsen:

Suburban Laboratories, Inc. received 4 sample(s) on 6/4/2021 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Keith Sinon
Project Manager
708-544-3260 ext 212
keith@suburbanlabs.com





Client: K-Plus Engineering Services

Date: June 10, 2021

Project: 31034

PO #:

WorkOrder: 2106582

QC Level:

Temperature of samples upon receipt at SLI: 5 C

Chain of Custody #:

General Comments:

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:

- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:

For a complete list of method references please contact us.

- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:

6010_S_2:

Sample 2106582-003C: S=The MS percent recovery for Pb (67.42%) was outside laboratory control limits (70.0% - 130.0%).



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 10, 2021

Project Name: 31034

Workorder: 2106582

Client Sample ID: KP5

Matrix: SOIL

Lab ID: 2106582-001

Date Received: 06/04/2021 4:15 PM

Collection Date: 06/04/2021 10:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	4.96	1.15	J	mg/Kg-dry	1	06/08/2021 3:46 PM	74192
Barium	35.0	0.125		mg/Kg-dry	1	06/09/2021 11:04 AM	74192
Cadmium	0.270	0.0750		mg/Kg-dry	1	06/08/2021 3:46 PM	74192
Chromium	6.29	0.0600		mg/Kg-dry	1	06/08/2021 3:46 PM	74192
Lead	6.77	0.600		mg/Kg-dry	1	06/08/2021 3:46 PM	74192
Selenium	ND	1.30		mg/Kg-dry	1	06/08/2021 3:46 PM	74192
Silver	ND	0.0600		mg/Kg-dry	1	06/08/2021 3:46 PM	74192
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Total 1,3-Dichloropropene	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
1,1,1-Trichloroethane	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
1,1,2,2-Tetrachloroethane	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
1,1,2-Trichloroethane	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
1,1-Dichloroethane	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
1,1-Dichloroethene	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
1,2-Dichloroethane	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
1,2-Dichloropropane	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
2-Butanone	ND	0.00866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
2-Hexanone	ND	0.0216		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
4-Methyl-2-pentanone	ND	0.0216		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Acetone	ND	0.0216		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Benzene	ND	0.000216		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Bromodichloromethane	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Bromoform	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Bromomethane	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Carbon disulfide	ND	0.00106		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Carbon tetrachloride	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Chlorobenzene	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Chloroethane	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Chloroform	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Chloromethane	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
cis-1,2-Dichloroethene	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
cis-1,3-Dichloropropene	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Dibromochloromethane	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Ethylbenzene	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
m,p-Xylene	ND	0.00173		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Methyl tert-butyl ether	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 10, 2021

Project Name: 31034

Workorder: 2106582

Client Sample ID: KP5

Matrix: SOIL

Lab ID: 2106582-001

Date Received: 06/04/2021 4:15 PM

Collection Date: 06/04/2021 10:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Methylene chloride	ND	0.00433		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
o-Xylene	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Total Xylenes	ND	0.00173		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Styrene	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Tetrachloroethene	ND	0.00173		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Toluene	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
trans-1,2-Dichloroethene	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
trans-1,3-Dichloropropene	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Trichloroethene	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
Vinyl chloride	ND	0.000866		mg/Kg-dry	0.7453898	06/04/2021 11:09 PM	R134299
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	102	80-130		%Rec	0.7453898	06/04/2021 11:09 PM	R134299
SS: Dibromofluoromethane	98.2	76.1-120		%Rec	0.7453898	06/04/2021 11:09 PM	R134299
SS: Toluene-d8	99.1	85-115		%Rec	0.7453898	06/04/2021 11:09 PM	R134299
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: CY		
1,2,4-Trichlorobenzene	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
1,2-Dichlorobenzene	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
1,3-Dichlorobenzene	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
1,4-Dichlorobenzene	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
2,4,5-Trichlorophenol	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
2,4,6-Trichlorophenol	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
2,4-Dichlorophenol	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
2,4-Dimethylphenol	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
2,4-Dinitrophenol	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
2,4-Dinitrotoluene	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
2,6-Dinitrotoluene	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
2-Chloronaphthalene	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
2-Chlorophenol	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
2-Methylnaphthalene	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
2-Nitroaniline	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
2-Nitrophenol	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
3,3-Dichlorobenzidine	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
3-Nitroaniline	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
4,6-Dinitro-2-methylphenol	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
4-Bromophenyl phenyl ether	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
4-Chloro-3-methylphenol	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
4-Chloroaniline	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 10, 2021

Project Name: 31034

Workorder: 2106582

Client Sample ID: KP5

Matrix: SOIL

Lab ID: 2106582-001

Date Received: 06/04/2021 4:15 PM

Collection Date: 06/04/2021 10:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: CY		
4-Chlorophenyl phenyl ether	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
4-Nitroaniline	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
4-Nitrophenol	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Acenaphthene	ND	0.0573		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Acenaphthylene	ND	0.0573		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Anthracene	ND	0.0573		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Benzo(a)anthracene	ND	0.0573		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Benzo(a)pyrene	ND	0.0573		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Benzo(b)fluoranthene	ND	0.0573		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Benzo(g,h,i)perylene	ND	0.0573		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Benzo(k)fluoranthene	ND	0.0573		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Bis(2-chloroethoxy)methane	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Bis(2-chloroethyl)ether	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Bis(2-chloroisopropyl)ether	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Bis(2-ethylhexyl)phthalate	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Butyl benzyl phthalate	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Carbazole	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Chrysene	ND	0.0573		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Dibenzo(a,h)anthracene	ND	0.0573		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Dibenzofuran	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Diethyl phthalate	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Dimethyl phthalate	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Di-n-butyl phthalate	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Di-n-octyl phthalate	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Fluoranthene	ND	0.0573		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Fluorene	ND	0.0573		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Hexachlorobenzene	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Hexachlorobutadiene	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Hexachlorocyclopentadiene	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Hexachloroethane	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Indeno(1,2,3-cd)pyrene	ND	0.0573		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Isophorone	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
m,p-Cresol	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Naphthalene	ND	0.0573		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Nitrobenzene	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
N-Nitroso-di-n-propylamine	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
N-Nitrosodiphenylamine	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
o-Cresol	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Pentachlorophenol	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 10, 2021

Project Name: 31034

Workorder: 2106582

Client Sample ID: KP5

Matrix: SOIL

Lab ID: 2106582-001

Date Received: 06/04/2021 4:15 PM

Collection Date: 06/04/2021 10:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: CY		
Phenanthrene	ND	0.0573		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Phenol	ND	0.286		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
Pyrene	ND	0.0573		mg/Kg-dry	1	06/07/2021 8:27 PM	74177
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	105	0.1-136		%Rec	1	06/07/2021 8:27 PM	74177
SS: 2-Fluorobiphenyl	102	16.3-118		%Rec	1	06/07/2021 8:27 PM	74177
SS: 2-Fluorophenol	115	4.2-97	S	%Rec	1	06/07/2021 8:27 PM	74177
SS: 4-Terphenyl-d14	89.5	0.1-147		%Rec	1	06/07/2021 8:27 PM	74177
SS: Nitrobenzene-d5	103	0.1-119		%Rec	1	06/07/2021 8:27 PM	74177
SS: Phenol-d6	109	9.82-111		%Rec	1	06/07/2021 8:27 PM	74177
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	0.0275	0.0179	J	mg/Kg-dry	1	06/10/2021 11:39 AM	74293
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.91	1.00		pH Units	1	06/07/2021 10:14 AM	R134360
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	14	1.0	c	wt%	1	06/09/2021 2:11 PM	R134470



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 10, 2021

Project Name: 31034

Workorder: 2106582

Client Sample ID: KP6

Matrix: SOIL

Lab ID: 2106582-002

Date Received: 06/04/2021 4:15 PM

Collection Date: 06/04/2021 10:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP				Method: EPA-6010B-Rev 2, Dec-96		Analyst: SCT	
Arsenic	2.60	1.12	J	mg/Kg-dry	1	06/08/2021 3:49 PM	74192
Barium	55.1	0.121		mg/Kg-dry	1	06/09/2021 11:08 AM	74192
Cadmium	0.167	0.0728	J	mg/Kg-dry	1	06/08/2021 3:49 PM	74192
Chromium	7.12	0.0583		mg/Kg-dry	1	06/08/2021 3:49 PM	74192
Lead	7.25	0.583		mg/Kg-dry	1	06/08/2021 3:49 PM	74192
Selenium	ND	1.26		mg/Kg-dry	1	06/08/2021 3:49 PM	74192
Silver	ND	0.0583		mg/Kg-dry	1	06/08/2021 3:49 PM	74192
VOLATILE ORGANIC COMPOUNDS				Method: EPA-8260B-Rev 2, Dec-96		Analyst: CY	
Total 1,3-Dichloropropene	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
1,1,1-Trichloroethane	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
1,1,2,2-Tetrachloroethane	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
1,1,2-Trichloroethane	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
1,1-Dichloroethane	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
1,1-Dichloroethene	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
1,2-Dichloroethane	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
1,2-Dichloropropane	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
2-Butanone	ND	0.00788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
2-Hexanone	ND	0.0197		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
4-Methyl-2-pentanone	ND	0.0197		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Acetone	ND	0.0197		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Benzene	ND	0.000197		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Bromodichloromethane	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Bromoform	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Bromomethane	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Carbon disulfide	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Carbon tetrachloride	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Chlorobenzene	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Chloroethane	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Chloroform	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Chloromethane	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
cis-1,2-Dichloroethene	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
cis-1,3-Dichloropropene	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Dibromochloromethane	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Ethylbenzene	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
m,p-Xylene	ND	0.00158		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Methyl tert-butyl ether	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 10, 2021

Project Name: 31034

Workorder: 2106582

Client Sample ID: KP6

Matrix: SOIL

Lab ID: 2106582-002

Date Received: 06/04/2021 4:15 PM

Collection Date: 06/04/2021 10:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Methylene chloride	ND	0.00394		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
o-Xylene	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Total Xylenes	ND	0.00158		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Styrene	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Tetrachloroethene	ND	0.00158		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Toluene	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
trans-1,2-Dichloroethene	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
trans-1,3-Dichloropropene	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Trichloroethene	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
Vinyl chloride	ND	0.000788		mg/Kg-dry	0.6944830	06/07/2021 6:12 PM	R134363
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	99.7	80-130		%Rec	0.6944830	06/07/2021 6:12 PM	R134363
SS: Dibromofluoromethane	101	76.1-120		%Rec	0.6944830	06/07/2021 6:12 PM	R134363
SS: Toluene-d8	101	85-115		%Rec	0.6944830	06/07/2021 6:12 PM	R134363
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: CY		
1,2,4-Trichlorobenzene	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
1,2-Dichlorobenzene	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
1,3-Dichlorobenzene	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
1,4-Dichlorobenzene	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
2,4,5-Trichlorophenol	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
2,4,6-Trichlorophenol	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
2,4-Dichlorophenol	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
2,4-Dimethylphenol	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
2,4-Dinitrophenol	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
2,4-Dinitrotoluene	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
2,6-Dinitrotoluene	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
2-Chloronaphthalene	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
2-Chlorophenol	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
2-Methylnaphthalene	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
2-Nitroaniline	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
2-Nitrophenol	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
3,3-Dichlorobenzidine	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
3-Nitroaniline	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
4,6-Dinitro-2-methylphenol	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
4-Bromophenyl phenyl ether	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
4-Chloro-3-methylphenol	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
4-Chloroaniline	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 10, 2021

Project Name: 31034

Workorder: 2106582

Client Sample ID: KP6

Matrix: SOIL

Lab ID: 2106582-002

Date Received: 06/04/2021 4:15 PM

Collection Date: 06/04/2021 10:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: CY		
4-Chlorophenyl phenyl ether	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
4-Nitroaniline	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
4-Nitrophenol	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Acenaphthene	ND	0.0564		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Acenaphthylene	ND	0.0564		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Anthracene	ND	0.0564		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Benzo(a)anthracene	ND	0.0564		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Benzo(a)pyrene	ND	0.0564		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Benzo(b)fluoranthene	ND	0.0564		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Benzo(g,h,i)perylene	ND	0.0564		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Benzo(k)fluoranthene	ND	0.0564		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Bis(2-chloroethoxy)methane	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Bis(2-chloroethyl)ether	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Bis(2-chloroisopropyl)ether	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Bis(2-ethylhexyl)phthalate	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Butyl benzyl phthalate	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Carbazole	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Chrysene	ND	0.0564		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Dibenzo(a,h)anthracene	ND	0.0564		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Dibenzofuran	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Diethyl phthalate	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Dimethyl phthalate	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Di-n-butyl phthalate	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Di-n-octyl phthalate	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Fluoranthene	ND	0.0564		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Fluorene	ND	0.0564		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Hexachlorobenzene	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Hexachlorobutadiene	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Hexachlorocyclopentadiene	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Hexachloroethane	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Indeno(1,2,3-cd)pyrene	ND	0.0564		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Isophorone	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
m,p-Cresol	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Naphthalene	ND	0.0564		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Nitrobenzene	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
N-Nitroso-di-n-propylamine	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
N-Nitrosodiphenylamine	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
o-Cresol	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Pentachlorophenol	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 10, 2021

Project Name: 31034

Workorder: 2106582

Client Sample ID: KP6

Matrix: SOIL

Lab ID: 2106582-002

Date Received: 06/04/2021 4:15 PM

Collection Date: 06/04/2021 10:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96		Analyst: CY			
Phenanthrene	ND	0.0564		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Phenol	ND	0.282		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
Pyrene	ND	0.0564		mg/Kg-dry	1	06/07/2021 9:03 PM	74177
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	97.9	0.1-136		%Rec	1	06/07/2021 9:03 PM	74177
SS: 2-Fluorobiphenyl	102	16.3-118		%Rec	1	06/07/2021 9:03 PM	74177
SS: 2-Fluorophenol	114	4.2-97	S	%Rec	1	06/07/2021 9:03 PM	74177
SS: 4-Terphenyl-d14	89.1	0.1-147		%Rec	1	06/07/2021 9:03 PM	74177
SS: Nitrobenzene-d5	106	0.1-119		%Rec	1	06/07/2021 9:03 PM	74177
SS: Phenol-d6	108	9.82-111		%Rec	1	06/07/2021 9:03 PM	74177
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07		Analyst: MTS			
Mercury	0.0239	0.0175	J	mg/Kg-dry	1	06/10/2021 11:43 AM	74293
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95		Analyst: AD			
pH	7.81	1.00		pH Units	1	06/07/2021 10:15 AM	R134360
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005		Analyst: MW			
Percent Moisture	12	1.0	c	wt%	1	06/09/2021 2:11 PM	R134470



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 10, 2021

Project Name: 31034

Workorder: 2106582

Client Sample ID: KP7

Matrix: SOIL

Lab ID: 2106582-003

Date Received: 06/04/2021 4:15 PM

Collection Date: 06/04/2021 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	ND	1.14		mg/Kg-dry	1	06/08/2021 3:53 PM	74192
Barium	87.9	0.124		mg/Kg-dry	1	06/09/2021 11:11 AM	74192
Cadmium	0.226	0.0743	J	mg/Kg-dry	1	06/08/2021 3:53 PM	74192
Chromium	10.2	0.0594		mg/Kg-dry	1	06/08/2021 3:53 PM	74192
Lead	10.6	0.594	S	mg/Kg-dry	1	06/08/2021 3:53 PM	74192
Selenium	ND	1.29		mg/Kg-dry	1	06/08/2021 3:53 PM	74192
Silver	ND	0.0594		mg/Kg-dry	1	06/08/2021 3:53 PM	74192
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Total 1,3-Dichloropropene	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
1,1,1-Trichloroethane	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
1,1,2,2-Tetrachloroethane	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
1,1,2-Trichloroethane	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
1,1-Dichloroethane	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
1,1-Dichloroethene	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
1,2-Dichloroethane	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
1,2-Dichloropropane	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
2-Butanone	ND	0.00861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
2-Hexanone	ND	0.0215		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
4-Methyl-2-pentanone	ND	0.0215		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Acetone	0.0279	0.0215		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Benzene	ND	0.000215		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Bromodichloromethane	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Bromoform	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Bromomethane	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Carbon disulfide	ND	0.00274		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Carbon tetrachloride	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Chlorobenzene	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Chloroethane	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Chloroform	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Chloromethane	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
cis-1,2-Dichloroethene	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
cis-1,3-Dichloropropene	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Dibromochloromethane	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Ethylbenzene	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
m,p-Xylene	ND	0.00172		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Methyl tert-butyl ether	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 10, 2021

Project Name: 31034

Workorder: 2106582

Client Sample ID: KP7

Matrix: SOIL

Lab ID: 2106582-003

Date Received: 06/04/2021 4:15 PM

Collection Date: 06/04/2021 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Methylene chloride	ND	0.00431		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
o-Xylene	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Total Xylenes	ND	0.00172		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Styrene	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Tetrachloroethene	ND	0.00172		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Toluene	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
trans-1,2-Dichloroethene	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
trans-1,3-Dichloropropene	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Trichloroethene	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
Vinyl chloride	ND	0.000861		mg/Kg-dry	0.727167	06/05/2021 12:16 AM	R134299
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	98.0	80-130		%Rec	0.727167	06/05/2021 12:16 AM	R134299
SS: Dibromofluoromethane	97.6	76.1-120		%Rec	0.727167	06/05/2021 12:16 AM	R134299
SS: Toluene-d8	100	85-115		%Rec	0.727167	06/05/2021 12:16 AM	R134299
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: CY		
1,2,4-Trichlorobenzene	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
1,2-Dichlorobenzene	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
1,3-Dichlorobenzene	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
1,4-Dichlorobenzene	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
2,4,5-Trichlorophenol	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
2,4,6-Trichlorophenol	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
2,4-Dichlorophenol	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
2,4-Dimethylphenol	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
2,4-Dinitrophenol	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
2,4-Dinitrotoluene	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
2,6-Dinitrotoluene	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
2-Chloronaphthalene	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
2-Chlorophenol	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
2-Methylnaphthalene	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
2-Nitroaniline	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
2-Nitrophenol	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
3,3-Dichlorobenzidine	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
3-Nitroaniline	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
4,6-Dinitro-2-methylphenol	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
4-Bromophenyl phenyl ether	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
4-Chloro-3-methylphenol	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
4-Chloroaniline	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 10, 2021

Project Name: 31034

Workorder: 2106582

Client Sample ID: KP7

Matrix: SOIL

Lab ID: 2106582-003

Date Received: 06/04/2021 4:15 PM

Collection Date: 06/04/2021 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: CY		
4-Chlorophenyl phenyl ether	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
4-Nitroaniline	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
4-Nitrophenol	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Acenaphthene	ND	0.0583		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Acenaphthylene	ND	0.0583		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Anthracene	ND	0.0583		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Benzo(a)anthracene	ND	0.0583		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Benzo(a)pyrene	ND	0.0583		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Benzo(b)fluoranthene	ND	0.0583		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Benzo(g,h,i)perylene	ND	0.0583		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Benzo(k)fluoranthene	ND	0.0583		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Bis(2-chloroethoxy)methane	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Bis(2-chloroethyl)ether	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Bis(2-chloroisopropyl)ether	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Bis(2-ethylhexyl)phthalate	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Butyl benzyl phthalate	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Carbazole	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Chrysene	ND	0.0583		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Dibenzo(a,h)anthracene	ND	0.0583		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Dibenzofuran	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Diethyl phthalate	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Dimethyl phthalate	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Di-n-butyl phthalate	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Di-n-octyl phthalate	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Fluoranthene	ND	0.0583		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Fluorene	ND	0.0583		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Hexachlorobenzene	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Hexachlorobutadiene	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Hexachlorocyclopentadiene	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Hexachloroethane	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Indeno(1,2,3-cd)pyrene	ND	0.0583		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Isophorone	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
m,p-Cresol	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Naphthalene	ND	0.0583		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Nitrobenzene	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
N-Nitroso-di-n-propylamine	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
N-Nitrosodiphenylamine	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
o-Cresol	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Pentachlorophenol	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 10, 2021

Project Name: 31034

Workorder: 2106582

Client Sample ID: KP7

Matrix: SOIL

Lab ID: 2106582-003

Date Received: 06/04/2021 4:15 PM

Collection Date: 06/04/2021 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: CY		
Phenanthrene	ND	0.0583		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Phenol	ND	0.292		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
Pyrene	ND	0.0583		mg/Kg-dry	1	06/07/2021 9:39 PM	74177
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	98.3	0.1-136		%Rec	1	06/07/2021 9:39 PM	74177
SS: 2-Fluorobiphenyl	103	16.3-118		%Rec	1	06/07/2021 9:39 PM	74177
SS: 2-Fluorophenol	114	4.2-97	S	%Rec	1	06/07/2021 9:39 PM	74177
SS: 4-Terphenyl-d14	92.3	0.1-147		%Rec	1	06/07/2021 9:39 PM	74177
SS: Nitrobenzene-d5	107	0.1-119		%Rec	1	06/07/2021 9:39 PM	74177
SS: Phenol-d6	109	9.82-111		%Rec	1	06/07/2021 9:39 PM	74177
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	0.0202	0.0192	J	mg/Kg-dry	1	06/10/2021 11:46 AM	74293
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.65	1.00		pH Units	1	06/07/2021 10:17 AM	R134360
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	16	1.0	c	wt%	1	06/09/2021 2:11 PM	R134470



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 10, 2021

Project Name: 31034

Workorder: 2106582

Client Sample ID: KP8

Matrix: SOIL

Lab ID: 2106582-004

Date Received: 06/04/2021 4:15 PM

Collection Date: 06/04/2021 11:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP				Method: EPA-6010B-Rev 2, Dec-96		Analyst: SCT	
Arsenic	1.92	1.15	J	mg/Kg-dry	1	06/08/2021 4:19 PM	74193
Barium	50.4	0.125		mg/Kg-dry	1	06/09/2021 11:32 AM	74193
Cadmium	0.161	0.0750	J	mg/Kg-dry	1	06/08/2021 4:19 PM	74193
Chromium	6.83	0.0600		mg/Kg-dry	1	06/08/2021 4:19 PM	74193
Lead	6.99	0.600		mg/Kg-dry	1	06/08/2021 4:19 PM	74193
Selenium	ND	1.30		mg/Kg-dry	1	06/08/2021 4:19 PM	74193
Silver	ND	0.0600		mg/Kg-dry	1	06/08/2021 4:19 PM	74193
VOLATILE ORGANIC COMPOUNDS				Method: EPA-8260B-Rev 2, Dec-96		Analyst: CY	
Total 1,3-Dichloropropene	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
1,1,1-Trichloroethane	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
1,1,2,2-Tetrachloroethane	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
1,1,2-Trichloroethane	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
1,1-Dichloroethane	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
1,1-Dichloroethene	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
1,2-Dichloroethane	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
1,2-Dichloropropane	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
2-Butanone	ND	0.00891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
2-Hexanone	ND	0.0223		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
4-Methyl-2-pentanone	ND	0.0223		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Acetone	ND	0.0223		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Benzene	ND	0.000223		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Bromodichloromethane	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Bromoform	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Bromomethane	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Carbon disulfide	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Carbon tetrachloride	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Chlorobenzene	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Chloroethane	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Chloroform	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Chloromethane	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
cis-1,2-Dichloroethene	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
cis-1,3-Dichloropropene	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Dibromochloromethane	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Ethylbenzene	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
m,p-Xylene	ND	0.00178		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Methyl tert-butyl ether	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 10, 2021

Project Name: 31034

Workorder: 2106582

Client Sample ID: KP8

Matrix: SOIL

Lab ID: 2106582-004

Date Received: 06/04/2021 4:15 PM

Collection Date: 06/04/2021 11:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Methylene chloride	ND	0.00446		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
o-Xylene	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Total Xylenes	ND	0.00178		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Styrene	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Tetrachloroethene	ND	0.00178		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Toluene	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
trans-1,2-Dichloroethene	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
trans-1,3-Dichloropropene	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Trichloroethene	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
Vinyl chloride	ND	0.000891		mg/Kg-dry	0.7602597	06/05/2021 12:50 AM	R134299
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	99.3	80-130		%Rec	0.7602597	06/05/2021 12:50 AM	R134299
SS: Dibromofluoromethane	108	76.1-120		%Rec	0.7602597	06/05/2021 12:50 AM	R134299
SS: Toluene-d8	100	85-115		%Rec	0.7602597	06/05/2021 12:50 AM	R134299
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: CY		
1,2,4-Trichlorobenzene	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
1,2-Dichlorobenzene	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
1,3-Dichlorobenzene	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
1,4-Dichlorobenzene	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
2,4,5-Trichlorophenol	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
2,4,6-Trichlorophenol	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
2,4-Dichlorophenol	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
2,4-Dimethylphenol	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
2,4-Dinitrophenol	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
2,4-Dinitrotoluene	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
2,6-Dinitrotoluene	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
2-Chloronaphthalene	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
2-Chlorophenol	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
2-Methylnaphthalene	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
2-Nitroaniline	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
2-Nitrophenol	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
3,3-Dichlorobenzidine	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
3-Nitroaniline	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
4,6-Dinitro-2-methylphenol	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
4-Bromophenyl phenyl ether	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
4-Chloro-3-methylphenol	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
4-Chloroaniline	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 10, 2021

Project Name: 31034

Workorder: 2106582

Client Sample ID: KP8

Matrix: SOIL

Lab ID: 2106582-004

Date Received: 06/04/2021 4:15 PM

Collection Date: 06/04/2021 11:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: CY		
4-Chlorophenyl phenyl ether	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
4-Nitroaniline	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
4-Nitrophenol	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Acenaphthene	ND	0.0579		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Acenaphthylene	ND	0.0579		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Anthracene	ND	0.0579		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Benzo(a)anthracene	ND	0.0579		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Benzo(a)pyrene	ND	0.0579		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Benzo(b)fluoranthene	ND	0.0579		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Benzo(g,h,i)perylene	ND	0.0579		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Benzo(k)fluoranthene	ND	0.0579		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Bis(2-chloroethoxy)methane	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Bis(2-chloroethyl)ether	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Bis(2-chloroisopropyl)ether	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Bis(2-ethylhexyl)phthalate	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Butyl benzyl phthalate	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Carbazole	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Chrysene	ND	0.0579		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Dibenzo(a,h)anthracene	ND	0.0579		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Dibenzofuran	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Diethyl phthalate	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Dimethyl phthalate	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Di-n-butyl phthalate	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Di-n-octyl phthalate	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Fluoranthene	ND	0.0579		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Fluorene	ND	0.0579		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Hexachlorobenzene	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Hexachlorobutadiene	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Hexachlorocyclopentadiene	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Hexachloroethane	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Indeno(1,2,3-cd)pyrene	ND	0.0579		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Isophorone	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
m,p-Cresol	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Naphthalene	ND	0.0579		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Nitrobenzene	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
N-Nitroso-di-n-propylamine	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
N-Nitrosodiphenylamine	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
o-Cresol	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Pentachlorophenol	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: June 10, 2021

Project Name: 31034

Workorder: 2106582

Client Sample ID: KP8

Matrix: SOIL

Lab ID: 2106582-004

Date Received: 06/04/2021 4:15 PM

Collection Date: 06/04/2021 11:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: CY		
Phenanthrene	ND	0.0579		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Phenol	ND	0.289		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
Pyrene	ND	0.0579		mg/Kg-dry	1	06/07/2021 10:15 PM	74177
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	103	0.1-136		%Rec	1	06/07/2021 10:15 PM	74177
SS: 2-Fluorobiphenyl	104	16.3-118		%Rec	1	06/07/2021 10:15 PM	74177
SS: 2-Fluorophenol	118	4.2-97	S	%Rec	1	06/07/2021 10:15 PM	74177
SS: 4-Terphenyl-d14	104	0.1-147		%Rec	1	06/07/2021 10:15 PM	74177
SS: Nitrobenzene-d5	105	0.1-119		%Rec	1	06/07/2021 10:15 PM	74177
SS: Phenol-d6	114	9.82-111	S	%Rec	1	06/07/2021 10:15 PM	74177
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	0.0204	0.0190	J	mg/Kg-dry	1	06/10/2021 11:49 AM	74293
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.78	1.00		pH Units	1	06/07/2021 10:18 AM	R134360
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	15	1.0	c	wt%	1	06/09/2021 2:11 PM	R134470



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

PREP DATES REPORT

Client: K-Plus Engineering Services
Project: 31034

Report Date: June 10, 2021
Lab Order: 2106582

Sample ID	Collection Date	Batch ID	Prep Test Name	TCLP Date	Prep Date
2106582-001A	6/4/2021 10:30:00 AM	74176	CLOSED SYSTEM P&T VOC Prep		6/7/2021
2106582-001C		74293	Mercury Prep for Solids		6/10/2021
		74177	SOLID PREP SONICATION: BNA		6/7/2021
		74192	SOLID PREP TOTAL METALS: ICP		6/7/2021
2106582-002A	6/4/2021 10:45:00 AM	74176	CLOSED SYSTEM P&T VOC Prep		6/7/2021
2106582-002C		74293	Mercury Prep for Solids		6/10/2021
		74177	SOLID PREP SONICATION: BNA		6/7/2021
		74192	SOLID PREP TOTAL METALS: ICP		6/7/2021
2106582-003A	6/4/2021 11:00:00 AM	74176	CLOSED SYSTEM P&T VOC Prep		6/7/2021
2106582-003C		74293	Mercury Prep for Solids		6/10/2021
		74177	SOLID PREP SONICATION: BNA		6/7/2021
		74192	SOLID PREP TOTAL METALS: ICP		6/7/2021
2106582-004A	6/4/2021 11:45:00 AM	74176	CLOSED SYSTEM P&T VOC Prep		6/7/2021
2106582-004C		74293	Mercury Prep for Solids		6/10/2021
		74177	SOLID PREP SONICATION: BNA		6/7/2021
		74193	SOLID PREP TOTAL METALS: ICP		6/7/2021



Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
C	Value is below Minimum Concentration Limit
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
Q	Accreditation is not available from Wisconsin
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
T	Analyte detected in sample trip blank
V	EPA requires field analysis/filtration. Lab analysis would be considered past hold time.
WI	This sample was ran at the Wisconsin Laboratory, WI DNR Certified #460024950



SUBURBAN LABORATORIES, Inc.
 1950 S. Batavia Ave. Ste. 150 Geneva, IL 60134

Tel. 708.544.3260

CHAIN OF CUSTODY RECORD
 login@suburbanlabs.com www.suburbanlabs.com

Company Name: **K-PLUS ENV**
 Company Address: _____
 City: **HANS DOME** State: **IL** Zip: **60521**
 Office: **32-207-1600** Mobile: _____ Fax: _____
 Email Address: **YSSica.me@kplus.com**

TURNAROUND TIME REQUESTED
 Normal RUSH*
 * Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
 Date and Time Report Needed: _____

ANALYSIS & METHOD REQUESTED
 Enter an "X" in box below for request

Page **1** of **1**
 PO # _____
 Report Type: Normal Spectral
 * Additional charges apply for QC reports and raw data. Specify in comments section
 Shipping Method _____

Project ID / Location: **31034**
 Project Manager (Report to): **Jessica Madson**
 Sample Collector(s): _____

Specify Regulatory Program:
 LUST SRP SDWA
 503 Sludge NPDES MWRDGC
 Disposal CCDD OTHER - Specify Below

LAB USE ONLY
 Work Order # **2106582**
 Temperature of Received Samples: **5** °C
 Received within 24 hours of collection? No Yes
 Lab Comment: _____ LAB # _____

SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION		MATRIX	GRAB/COMP.	QTY	CONTAINERS SIZE & TYPE	PRESERVATIVE	ANALYSIS & METHOD REQUESTED
	DATE	TIME						
1 KPS	6-4	1030	S	C	4	20x535		VOC SVOC rckamerals PL
2 KPB		1045	S	C	4			X X X X
3 KPT		1100	S	C	4			X X X X
4 KPD		1145	S	C	4			X X X X
5								
6								
7								
8								
9								
10								
11								
12								

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water (SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H₂SO₄, HCl, HNO₃, Methanol (MeOH), MeOH, Sodium Bisulfate (NaBS), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:
90007

1. Relinquished By: [Signature]	Date: 6-4-21	2. Relinquished By: [Signature]	Date: 5-4-21	3. Relinquished By: _____	Date: _____	4. Relinquished By: _____	Date: _____
Received By: [Signature]	Time: 15:09	Received By: [Signature]	Time: 15:15	Received By: _____	Time: _____	Received By: _____	Time: _____
<input type="checkbox"/> Ice		<input type="checkbox"/> Ice		<input type="checkbox"/> Ice		<input type="checkbox"/> Ice	

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

SUBURBAN LABORATORIES, Inc.



1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

July 26, 2021

Jessica Madsen
K-Plus Engineering Services
15 Salt Creek Lane - Suite 410
Hinsdale, IL 60521

Workorder: 2106Q62

TEL: (312) 207-1600

FAX:

RE: 31034

Dear Jessica Madsen:

Suburban Laboratories, Inc. received 8 sample(s) on 6/25/2021 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Keith Sinon
Project Manager
708-544-3260 ext 212
keith@suburbanlabs.com





Client: K-Plus Engineering Services

Date: July 26, 2021

Project: 31034

PO #:

WorkOrder: 2106Q62

QC Level:

Temperature of samples upon receipt at SLI: 6 C

Chain of Custody #:

General Comments:

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:

- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:

For a complete list of method references please contact us.

- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP9

Matrix: SOIL

Lab ID: 2106Q62-001

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 10:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	9.83	1.13		mg/Kg-dry	1	07/01/2021 3:26 PM	74772
Barium	57.8	0.123		mg/Kg-dry	1	07/01/2021 3:26 PM	74772
Cadmium	0.268	0.0735		mg/Kg-dry	1	07/01/2021 3:26 PM	74772
Chromium	9.12	0.0588		mg/Kg-dry	1	07/01/2021 3:26 PM	74772
Lead	7.50	0.588		mg/Kg-dry	1	07/01/2021 3:26 PM	74772
Selenium	ND	1.27		mg/Kg-dry	1	07/01/2021 3:26 PM	74772
Silver	1.29	0.0588		mg/Kg-dry	1	07/01/2021 3:26 PM	74772
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: RWM		
Total 1,3-Dichloropropene	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
1,1,1-Trichloroethane	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
1,1,2,2-Tetrachloroethane	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
1,1,2-Trichloroethane	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
1,1-Dichloroethane	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
1,1-Dichloroethene	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
1,2-Dichloroethane	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
1,2-Dichloropropane	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
2-Butanone	ND	0.00787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
2-Hexanone	ND	0.0197		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
4-Methyl-2-pentanone	ND	0.0197		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Acetone	ND	0.0197		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Benzene	ND	0.000197		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Bromodichloromethane	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Bromoform	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Bromomethane	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Carbon disulfide	ND	0.00126		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Carbon tetrachloride	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Chlorobenzene	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Chloroethane	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Chloroform	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Chloromethane	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
cis-1,2-Dichloroethene	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
cis-1,3-Dichloropropene	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Dibromochloromethane	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Ethylbenzene	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
m,p-Xylene	ND	0.00157		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Methyl tert-butyl ether	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP9

Matrix: SOIL

Lab ID: 2106Q62-001

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 10:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: RWM		
Methylene chloride	ND	0.00394		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
o-Xylene	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Total Xylenes	ND	0.00157		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Styrene	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Tetrachloroethene	ND	0.00157		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Toluene	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
trans-1,2-Dichloroethene	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
trans-1,3-Dichloropropene	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Trichloroethene	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
Vinyl chloride	ND	0.000787		mg/Kg-dry	0.68	06/29/2021 4:46 PM	R135347
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	95.6	80-130		%Rec	0.68	06/29/2021 4:46 PM	R135347
SS: Dibromofluoromethane	93.2	76.1-120		%Rec	0.68	06/29/2021 4:46 PM	R135347
SS: Toluene-d8	99.5	85-115		%Rec	0.68	06/29/2021 4:46 PM	R135347
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
1,2,4-Trichlorobenzene	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
1,2-Dichlorobenzene	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
1,3-Dichlorobenzene	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
1,4-Dichlorobenzene	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
2,4,5-Trichlorophenol	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
2,4,6-Trichlorophenol	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
2,4-Dichlorophenol	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
2,4-Dimethylphenol	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
2,4-Dinitrophenol	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
2,4-Dinitrotoluene	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
2,6-Dinitrotoluene	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
2-Chloronaphthalene	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
2-Chlorophenol	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
2-Methylnaphthalene	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
2-Nitroaniline	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
2-Nitrophenol	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
3,3-Dichlorobenzidine	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
3-Nitroaniline	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
4,6-Dinitro-2-methylphenol	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
4-Bromophenyl phenyl ether	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
4-Chloro-3-methylphenol	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
4-Chloroaniline	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP9

Matrix: SOIL

Lab ID: 2106Q62-001

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 10:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
4-Chlorophenyl phenyl ether	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
4-Nitroaniline	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
4-Nitrophenol	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Acenaphthene	ND	0.0577		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Acenaphthylene	ND	0.0577		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Anthracene	ND	0.0577		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Benzo(a)anthracene	ND	0.0577		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Benzo(a)pyrene	ND	0.0577		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Benzo(b)fluoranthene	ND	0.0577		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Benzo(g,h,i)perylene	ND	0.0577		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Benzo(k)fluoranthene	ND	0.0577		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Bis(2-chloroethoxy)methane	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Bis(2-chloroethyl)ether	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Bis(2-chloroisopropyl)ether	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Bis(2-ethylhexyl)phthalate	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Butyl benzyl phthalate	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Carbazole	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Chrysene	ND	0.0577		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Dibenzo(a,h)anthracene	ND	0.0577		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Dibenzofuran	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Diethyl phthalate	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Dimethyl phthalate	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Di-n-butyl phthalate	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Di-n-octyl phthalate	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Fluoranthene	ND	0.0577		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Fluorene	ND	0.0577		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Hexachlorobenzene	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Hexachlorobutadiene	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Hexachlorocyclopentadiene	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Hexachloroethane	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Indeno(1,2,3-cd)pyrene	ND	0.0577		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Isophorone	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
m,p-Cresol	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Naphthalene	ND	0.0577		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Nitrobenzene	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
N-Nitroso-di-n-propylamine	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
N-Nitrosodiphenylamine	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
o-Cresol	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Pentachlorophenol	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP9

Matrix: SOIL

Lab ID: 2106Q62-001

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 10:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
Phenanthrene	ND	0.0577		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Phenol	ND	0.288		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
Pyrene	ND	0.0577		mg/Kg-dry	1	06/30/2021 7:23 PM	74765
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	81.6	0.1-136		%Rec	1	06/30/2021 7:23 PM	74765
SS: 2-Fluorobiphenyl	84.9	16.3-118		%Rec	1	06/30/2021 7:23 PM	74765
SS: 2-Fluorophenol	92.4	4.2-97		%Rec	1	06/30/2021 7:23 PM	74765
SS: 4-Terphenyl-d14	118	0.1-147		%Rec	1	06/30/2021 7:23 PM	74765
SS: Nitrobenzene-d5	85.4	0.1-119		%Rec	1	06/30/2021 7:23 PM	74765
SS: Phenol-d6	88.7	9.82-111		%Rec	1	06/30/2021 7:23 PM	74765
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	ND	0.0188		mg/Kg-dry	1	06/28/2021 1:26 PM	74695
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.51	1.00		pH Units	1	06/25/2021 4:11 PM	R135212
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	14	1.0	c	wt%	1	06/29/2021 1:01 PM	R135311



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP10

Matrix: SOIL

Lab ID: 2106Q62-002

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	8.51	1.13		mg/Kg-dry	1	07/01/2021 3:29 PM	74772
Barium	60.9	0.123		mg/Kg-dry	1	07/01/2021 3:29 PM	74772
Cadmium	0.228	0.0735	J	mg/Kg-dry	1	07/01/2021 3:29 PM	74772
Chromium	9.99	0.0588		mg/Kg-dry	1	07/01/2021 3:29 PM	74772
Lead	6.37	0.588		mg/Kg-dry	1	07/01/2021 3:29 PM	74772
Selenium	ND	1.27		mg/Kg-dry	1	07/01/2021 3:29 PM	74772
Silver	1.17	0.0588		mg/Kg-dry	1	07/01/2021 3:29 PM	74772
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: RWM		
Total 1,3-Dichloropropene	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
1,1,1-Trichloroethane	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
1,1,2,2-Tetrachloroethane	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
1,1,2-Trichloroethane	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
1,1-Dichloroethane	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
1,1-Dichloroethene	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
1,2-Dichloroethane	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
1,2-Dichloropropane	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
2-Butanone	ND	0.00937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
2-Hexanone	ND	0.0234		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
4-Methyl-2-pentanone	ND	0.0234		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Acetone	ND	0.0234		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Benzene	ND	0.000234		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Bromodichloromethane	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Bromoform	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Bromomethane	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Carbon disulfide	ND	0.00123		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Carbon tetrachloride	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Chlorobenzene	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Chloroethane	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Chloroform	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Chloromethane	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
cis-1,2-Dichloroethene	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
cis-1,3-Dichloropropene	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Dibromochloromethane	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Ethylbenzene	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
m,p-Xylene	ND	0.00187		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Methyl tert-butyl ether	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP10

Matrix: SOIL

Lab ID: 2106Q62-002

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: RWM		
Methylene chloride	ND	0.00468		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
o-Xylene	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Total Xylenes	ND	0.00187		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Styrene	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Tetrachloroethene	ND	0.00187		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Toluene	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
trans-1,2-Dichloroethene	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
trans-1,3-Dichloropropene	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Trichloroethene	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
Vinyl chloride	ND	0.000937		mg/Kg-dry	0.82	06/28/2021 6:57 PM	R135294
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	95.7	80-130		%Rec	0.82	06/28/2021 6:57 PM	R135294
SS: Dibromofluoromethane	93.5	76.1-120		%Rec	0.82	06/28/2021 6:57 PM	R135294
SS: Toluene-d8	98.6	85-115		%Rec	0.82	06/28/2021 6:57 PM	R135294
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
1,2,4-Trichlorobenzene	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
1,2-Dichlorobenzene	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
1,3-Dichlorobenzene	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
1,4-Dichlorobenzene	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
2,4,5-Trichlorophenol	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
2,4,6-Trichlorophenol	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
2,4-Dichlorophenol	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
2,4-Dimethylphenol	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
2,4-Dinitrophenol	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
2,4-Dinitrotoluene	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
2,6-Dinitrotoluene	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
2-Chloronaphthalene	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
2-Chlorophenol	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
2-Methylnaphthalene	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
2-Nitroaniline	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
2-Nitrophenol	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
3,3-Dichlorobenzidine	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
3-Nitroaniline	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
4,6-Dinitro-2-methylphenol	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
4-Bromophenyl phenyl ether	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
4-Chloro-3-methylphenol	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
4-Chloroaniline	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP10

Matrix: SOIL

Lab ID: 2106Q62-002

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
4-Chlorophenyl phenyl ether	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
4-Nitroaniline	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
4-Nitrophenol	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Acenaphthene	ND	0.0569		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Acenaphthylene	ND	0.0569		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Anthracene	ND	0.0569		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Benzo(a)anthracene	ND	0.0569		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Benzo(a)pyrene	ND	0.0569		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Benzo(b)fluoranthene	ND	0.0569		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Benzo(g,h,i)perylene	ND	0.0569		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Benzo(k)fluoranthene	ND	0.0569		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Bis(2-chloroethoxy)methane	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Bis(2-chloroethyl)ether	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Bis(2-chloroisopropyl)ether	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Bis(2-ethylhexyl)phthalate	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Butyl benzyl phthalate	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Carbazole	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Chrysene	ND	0.0569		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Dibenzo(a,h)anthracene	ND	0.0569		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Dibenzofuran	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Diethyl phthalate	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Dimethyl phthalate	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Di-n-butyl phthalate	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Di-n-octyl phthalate	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Fluoranthene	ND	0.0569		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Fluorene	ND	0.0569		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Hexachlorobenzene	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Hexachlorobutadiene	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Hexachlorocyclopentadiene	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Hexachloroethane	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Indeno(1,2,3-cd)pyrene	ND	0.0569		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Isophorone	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
m,p-Cresol	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Naphthalene	ND	0.0569		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Nitrobenzene	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
N-Nitroso-di-n-propylamine	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
N-Nitrosodiphenylamine	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
o-Cresol	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Pentachlorophenol	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP10

Matrix: SOIL

Lab ID: 2106Q62-002

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
Phenanthrene	ND	0.0569		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Phenol	ND	0.284		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
Pyrene	ND	0.0569		mg/Kg-dry	1	06/30/2021 7:59 PM	74765
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	79.7	0.1-136		%Rec	1	06/30/2021 7:59 PM	74765
SS: 2-Fluorobiphenyl	88.2	16.3-118		%Rec	1	06/30/2021 7:59 PM	74765
SS: 2-Fluorophenol	93.0	4.2-97		%Rec	1	06/30/2021 7:59 PM	74765
SS: 4-Terphenyl-d14	117	0.1-147		%Rec	1	06/30/2021 7:59 PM	74765
SS: Nitrobenzene-d5	87.3	0.1-119		%Rec	1	06/30/2021 7:59 PM	74765
SS: Phenol-d6	89.4	9.82-111		%Rec	1	06/30/2021 7:59 PM	74765
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	ND	0.0180		mg/Kg-dry	1	06/28/2021 1:29 PM	74695
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.75	1.00		pH Units	1	06/25/2021 4:13 PM	R135212
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	12	1.0	c	wt%	1	06/29/2021 1:01 PM	R135311



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP11

Matrix: SOIL

Lab ID: 2106Q62-003

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 11:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	17.2	1.13		mg/Kg-dry	1	07/01/2021 3:32 PM	74772
Barium	93.3	0.123		mg/Kg-dry	1	07/01/2021 3:32 PM	74772
Cadmium	0.397	0.0735		mg/Kg-dry	1	07/01/2021 3:32 PM	74772
Chromium	13.7	0.0588		mg/Kg-dry	1	07/01/2021 3:32 PM	74772
Lead	15.3	0.588		mg/Kg-dry	1	07/01/2021 3:32 PM	74772
Selenium	ND	1.27		mg/Kg-dry	1	07/01/2021 3:32 PM	74772
Silver	1.74	0.0588		mg/Kg-dry	1	07/01/2021 3:32 PM	74772
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: RWM		
Total 1,3-Dichloropropene	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
1,1,1-Trichloroethane	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
1,1,2,2-Tetrachloroethane	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
1,1,2-Trichloroethane	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
1,1-Dichloroethane	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
1,1-Dichloroethene	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
1,2-Dichloroethane	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
1,2-Dichloropropane	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
2-Butanone	ND	0.00887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
2-Hexanone	ND	0.0222		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
4-Methyl-2-pentanone	ND	0.0222		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Acetone	ND	0.0222		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Benzene	ND	0.000222		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Bromodichloromethane	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Bromoform	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Bromomethane	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Carbon disulfide	ND	0.00142		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Carbon tetrachloride	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Chlorobenzene	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Chloroethane	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Chloroform	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Chloromethane	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
cis-1,2-Dichloroethene	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
cis-1,3-Dichloropropene	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Dibromochloromethane	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Ethylbenzene	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
m,p-Xylene	ND	0.00177		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Methyl tert-butyl ether	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP11

Matrix: SOIL

Lab ID: 2106Q62-003

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 11:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: RWM		
Methylene chloride	ND	0.00444		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
o-Xylene	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Total Xylenes	ND	0.00177		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Styrene	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Tetrachloroethene	ND	0.00177		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Toluene	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
trans-1,2-Dichloroethene	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
trans-1,3-Dichloropropene	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Trichloroethene	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
Vinyl chloride	ND	0.000887		mg/Kg-dry	0.75	06/29/2021 5:21 PM	R135347
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	98.5	80-130		%Rec	0.75	06/29/2021 5:21 PM	R135347
SS: Dibromofluoromethane	92.7	76.1-120		%Rec	0.75	06/29/2021 5:21 PM	R135347
SS: Toluene-d8	101	85-115		%Rec	0.75	06/29/2021 5:21 PM	R135347
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
1,2,4-Trichlorobenzene	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
1,2-Dichlorobenzene	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
1,3-Dichlorobenzene	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
1,4-Dichlorobenzene	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
2,4,5-Trichlorophenol	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
2,4,6-Trichlorophenol	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
2,4-Dichlorophenol	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
2,4-Dimethylphenol	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
2,4-Dinitrophenol	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
2,4-Dinitrotoluene	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
2,6-Dinitrotoluene	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
2-Chloronaphthalene	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
2-Chlorophenol	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
2-Methylnaphthalene	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
2-Nitroaniline	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
2-Nitrophenol	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
3,3-Dichlorobenzidine	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
3-Nitroaniline	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
4,6-Dinitro-2-methylphenol	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
4-Bromophenyl phenyl ether	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
4-Chloro-3-methylphenol	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
4-Chloroaniline	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP11

Matrix: SOIL

Lab ID: 2106Q62-003

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 11:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
4-Chlorophenyl phenyl ether	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
4-Nitroaniline	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
4-Nitrophenol	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Acenaphthene	ND	0.0584		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Acenaphthylene	ND	0.0584		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Anthracene	ND	0.0584		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Benzo(a)anthracene	ND	0.0584		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Benzo(a)pyrene	ND	0.0584		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Benzo(b)fluoranthene	ND	0.0584		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Benzo(g,h,i)perylene	ND	0.0584		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Benzo(k)fluoranthene	ND	0.0584		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Bis(2-chloroethoxy)methane	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Bis(2-chloroethyl)ether	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Bis(2-chloroisopropyl)ether	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Bis(2-ethylhexyl)phthalate	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Butyl benzyl phthalate	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Carbazole	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Chrysene	ND	0.0584		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Dibenzo(a,h)anthracene	ND	0.0584		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Dibenzofuran	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Diethyl phthalate	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Dimethyl phthalate	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Di-n-butyl phthalate	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Di-n-octyl phthalate	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Fluoranthene	ND	0.0584		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Fluorene	ND	0.0584		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Hexachlorobenzene	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Hexachlorobutadiene	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Hexachlorocyclopentadiene	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Hexachloroethane	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Indeno(1,2,3-cd)pyrene	ND	0.0584		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Isophorone	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
m,p-Cresol	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Naphthalene	ND	0.0584		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Nitrobenzene	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
N-Nitroso-di-n-propylamine	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
N-Nitrosodiphenylamine	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
o-Cresol	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Pentachlorophenol	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP11

Matrix: SOIL

Lab ID: 2106Q62-003

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 11:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
Phenanthrene	ND	0.0584		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Phenol	ND	0.292		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
Pyrene	ND	0.0584		mg/Kg-dry	1	06/30/2021 8:35 PM	74765
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	83.6	0.1-136		%Rec	1	06/30/2021 8:35 PM	74765
SS: 2-Fluorobiphenyl	85.4	16.3-118		%Rec	1	06/30/2021 8:35 PM	74765
SS: 2-Fluorophenol	92.7	4.2-97		%Rec	1	06/30/2021 8:35 PM	74765
SS: 4-Terphenyl-d14	125	0.1-147		%Rec	1	06/30/2021 8:35 PM	74765
SS: Nitrobenzene-d5	87.9	0.1-119		%Rec	1	06/30/2021 8:35 PM	74765
SS: Phenol-d6	88.9	9.82-111		%Rec	1	06/30/2021 8:35 PM	74765
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	ND	0.0192		mg/Kg-dry	1	06/28/2021 1:32 PM	74695
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.65	1.00		pH Units	1	06/25/2021 4:14 PM	R135212
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	15	1.0	c	wt%	1	06/29/2021 1:01 PM	R135311



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP11 Deep

Matrix: SOIL

Lab ID: 2106Q62-004

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 12:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	2.26	1.11	J	mg/Kg-dry	1	07/01/2021 3:35 PM	74772
Barium	6.95	0.120		mg/Kg-dry	1	07/01/2021 3:35 PM	74772
Cadmium	0.0962	0.0721	J	mg/Kg-dry	1	07/01/2021 3:35 PM	74772
Chromium	2.77	0.0577		mg/Kg-dry	1	07/01/2021 3:35 PM	74772
Lead	3.38	0.577		mg/Kg-dry	1	07/01/2021 3:35 PM	74772
Selenium	ND	1.25		mg/Kg-dry	1	07/01/2021 3:35 PM	74772
Silver	0.392	0.0577		mg/Kg-dry	1	07/01/2021 3:35 PM	74772
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: RWM		
Total 1,3-Dichloropropene	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
1,1,1-Trichloroethane	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
1,1,2,2-Tetrachloroethane	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
1,1,2-Trichloroethane	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
1,1-Dichloroethane	0.00126	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
1,1-Dichloroethene	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
1,2-Dichloroethane	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
1,2-Dichloropropane	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
2-Butanone	ND	0.0102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
2-Hexanone	ND	0.0254		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
4-Methyl-2-pentanone	ND	0.0254		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Acetone	ND	0.0254		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Benzene	ND	0.000254		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Bromodichloromethane	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Bromoform	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Bromomethane	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Carbon disulfide	ND	0.00335		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Carbon tetrachloride	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Chlorobenzene	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Chloroethane	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Chloroform	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Chloromethane	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
cis-1,2-Dichloroethene	0.00237	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
cis-1,3-Dichloropropene	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Dibromochloromethane	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Ethylbenzene	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
m,p-Xylene	ND	0.00203		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Methyl tert-butyl ether	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP11 Deep

Matrix: SOIL

Lab ID: 2106Q62-004

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 12:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: RWM		
Methylene chloride	ND	0.00508		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
o-Xylene	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Total Xylenes	ND	0.00203		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Styrene	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Tetrachloroethene	ND	0.00203		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Toluene	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
trans-1,2-Dichloroethene	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
trans-1,3-Dichloropropene	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Trichloroethene	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
Vinyl chloride	ND	0.00102		mg/Kg-dry	0.86	06/28/2021 8:06 PM	R135294
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	94.1	80-130		%Rec	0.86	06/28/2021 8:06 PM	R135294
SS: Dibromofluoromethane	91.1	76.1-120		%Rec	0.86	06/28/2021 8:06 PM	R135294
SS: Toluene-d8	95.8	85-115		%Rec	0.86	06/28/2021 8:06 PM	R135294
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
1,2,4-Trichlorobenzene	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
1,2-Dichlorobenzene	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
1,3-Dichlorobenzene	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
1,4-Dichlorobenzene	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
2,4,5-Trichlorophenol	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
2,4,6-Trichlorophenol	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
2,4-Dichlorophenol	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
2,4-Dimethylphenol	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
2,4-Dinitrophenol	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
2,4-Dinitrotoluene	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
2,6-Dinitrotoluene	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
2-Chloronaphthalene	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
2-Chlorophenol	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
2-Methylnaphthalene	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
2-Nitroaniline	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
2-Nitrophenol	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
3,3-Dichlorobenzidine	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
3-Nitroaniline	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
4,6-Dinitro-2-methylphenol	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
4-Bromophenyl phenyl ether	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
4-Chloro-3-methylphenol	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
4-Chloroaniline	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP11 Deep

Matrix: SOIL

Lab ID: 2106Q62-004

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 12:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
4-Chlorophenyl phenyl ether	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
4-Nitroaniline	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
4-Nitrophenol	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Acenaphthene	ND	0.0588		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Acenaphthylene	ND	0.0588		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Anthracene	ND	0.0588		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Benzo(a)anthracene	ND	0.0588		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Benzo(a)pyrene	ND	0.0588		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Benzo(b)fluoranthene	ND	0.0588		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Benzo(g,h,i)perylene	ND	0.0588		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Benzo(k)fluoranthene	ND	0.0588		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Bis(2-chloroethoxy)methane	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Bis(2-chloroethyl)ether	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Bis(2-chloroisopropyl)ether	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Bis(2-ethylhexyl)phthalate	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Butyl benzyl phthalate	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Carbazole	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Chrysene	ND	0.0588		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Dibenzo(a,h)anthracene	ND	0.0588		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Dibenzofuran	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Diethyl phthalate	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Dimethyl phthalate	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Di-n-butyl phthalate	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Di-n-octyl phthalate	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Fluoranthene	ND	0.0588		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Fluorene	ND	0.0588		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Hexachlorobenzene	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Hexachlorobutadiene	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Hexachlorocyclopentadiene	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Hexachloroethane	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Indeno(1,2,3-cd)pyrene	ND	0.0588		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Isophorone	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
m,p-Cresol	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Naphthalene	ND	0.0588		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Nitrobenzene	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
N-Nitroso-di-n-propylamine	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
N-Nitrosodiphenylamine	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
o-Cresol	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Pentachlorophenol	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP11 Deep

Matrix: SOIL

Lab ID: 2106Q62-004

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 12:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
Phenanthrene	ND	0.0588		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Phenol	ND	0.294		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
Pyrene	ND	0.0588		mg/Kg-dry	1	06/30/2021 9:11 PM	74765
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	85.1	0.1-136		%Rec	1	06/30/2021 9:11 PM	74765
SS: 2-Fluorobiphenyl	87.6	16.3-118		%Rec	1	06/30/2021 9:11 PM	74765
SS: 2-Fluorophenol	94.7	4.2-97		%Rec	1	06/30/2021 9:11 PM	74765
SS: 4-Terphenyl-d14	124	0.1-147		%Rec	1	06/30/2021 9:11 PM	74765
SS: Nitrobenzene-d5	89.5	0.1-119		%Rec	1	06/30/2021 9:11 PM	74765
SS: Phenol-d6	91.3	9.82-111		%Rec	1	06/30/2021 9:11 PM	74765
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	ND	0.0191		mg/Kg-dry	1	06/28/2021 1:36 PM	74695
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	9.43	1.00	*	pH Units	1	06/25/2021 4:16 PM	R135212
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	15	1.0	c	wt%	1	06/29/2021 1:01 PM	R135311



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP12

Matrix: SOIL

Lab ID: 2106Q62-005

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 12:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP							
				Method: EPA-6010B-Rev 2, Dec-96		Analyst: SCT	
Arsenic	8.86	1.11		mg/Kg-dry	1	07/01/2021 3:50 PM	74772
Barium	99.5	0.120		mg/Kg-dry	1	07/01/2021 3:50 PM	74772
Cadmium	0.250	0.0721		mg/Kg-dry	1	07/01/2021 3:50 PM	74772
Chromium	12.5	0.0577		mg/Kg-dry	1	07/01/2021 3:50 PM	74772
Lead	7.38	0.577		mg/Kg-dry	1	07/01/2021 3:50 PM	74772
Selenium	ND	1.25		mg/Kg-dry	1	07/01/2021 3:50 PM	74772
Silver	1.22	0.0577		mg/Kg-dry	1	07/01/2021 3:50 PM	74772

VOLATILE ORGANIC COMPOUNDS							
				Method: EPA-8260B-Rev 2, Dec-96		Analyst: RWM	
Total 1,3-Dichloropropene	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
1,1,1-Trichloroethane	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
1,1,2,2-Tetrachloroethane	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
1,1,2-Trichloroethane	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
1,1-Dichloroethane	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
1,1-Dichloroethene	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
1,2-Dichloroethane	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
1,2-Dichloropropane	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
2-Butanone	ND	0.0103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
2-Hexanone	ND	0.0257		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
4-Methyl-2-pentanone	ND	0.0257		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Acetone	ND	0.0257		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Benzene	ND	0.000257		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Bromodichloromethane	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Bromoform	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Bromomethane	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Carbon disulfide	ND	0.00125		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Carbon tetrachloride	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Chlorobenzene	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Chloroethane	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Chloroform	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Chloromethane	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
cis-1,2-Dichloroethene	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
cis-1,3-Dichloropropene	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Dibromochloromethane	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Ethylbenzene	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
m,p-Xylene	ND	0.00206		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Methyl tert-butyl ether	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP12

Matrix: SOIL

Lab ID: 2106Q62-005

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 12:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: RWM		
Methylene chloride	ND	0.00514		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
o-Xylene	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Total Xylenes	ND	0.00206		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Styrene	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Tetrachloroethene	ND	0.00206		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Toluene	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
trans-1,2-Dichloroethene	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
trans-1,3-Dichloropropene	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Trichloroethene	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
Vinyl chloride	ND	0.00103		mg/Kg-dry	0.82	06/28/2021 8:39 PM	R135294
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	96.5	80-130		%Rec	0.82	06/28/2021 8:39 PM	R135294
SS: Dibromofluoromethane	93.1	76.1-120		%Rec	0.82	06/28/2021 8:39 PM	R135294
SS: Toluene-d8	99.6	85-115		%Rec	0.82	06/28/2021 8:39 PM	R135294
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
1,2,4-Trichlorobenzene	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
1,2-Dichlorobenzene	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
1,3-Dichlorobenzene	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
1,4-Dichlorobenzene	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
2,4,5-Trichlorophenol	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
2,4,6-Trichlorophenol	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
2,4-Dichlorophenol	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
2,4-Dimethylphenol	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
2,4-Dinitrophenol	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
2,4-Dinitrotoluene	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
2,6-Dinitrotoluene	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
2-Chloronaphthalene	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
2-Chlorophenol	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
2-Methylnaphthalene	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
2-Nitroaniline	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
2-Nitrophenol	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
3,3-Dichlorobenzidine	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
3-Nitroaniline	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
4,6-Dinitro-2-methylphenol	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
4-Bromophenyl phenyl ether	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
4-Chloro-3-methylphenol	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
4-Chloroaniline	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP12

Matrix: SOIL

Lab ID: 2106Q62-005

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 12:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
4-Chlorophenyl phenyl ether	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
4-Nitroaniline	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
4-Nitrophenol	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Acenaphthene	ND	0.0623		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Acenaphthylene	ND	0.0623		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Anthracene	ND	0.0623		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Benzo(a)anthracene	ND	0.0623		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Benzo(a)pyrene	ND	0.0623		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Benzo(b)fluoranthene	ND	0.0623		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Benzo(g,h,i)perylene	ND	0.0623		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Benzo(k)fluoranthene	ND	0.0623		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Bis(2-chloroethoxy)methane	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Bis(2-chloroethyl)ether	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Bis(2-chloroisopropyl)ether	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Bis(2-ethylhexyl)phthalate	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Butyl benzyl phthalate	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Carbazole	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Chrysene	ND	0.0623		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Dibenzo(a,h)anthracene	ND	0.0623		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Dibenzofuran	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Diethyl phthalate	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Dimethyl phthalate	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Di-n-butyl phthalate	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Di-n-octyl phthalate	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Fluoranthene	ND	0.0623		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Fluorene	ND	0.0623		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Hexachlorobenzene	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Hexachlorobutadiene	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Hexachlorocyclopentadiene	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Hexachloroethane	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Indeno(1,2,3-cd)pyrene	ND	0.0623		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Isophorone	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
m,p-Cresol	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Naphthalene	ND	0.0623		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Nitrobenzene	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
N-Nitroso-di-n-propylamine	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
N-Nitrosodiphenylamine	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
o-Cresol	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Pentachlorophenol	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP12

Matrix: SOIL

Lab ID: 2106Q62-005

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 12:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
Phenanthrene	ND	0.0623		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Phenol	ND	0.312		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
Pyrene	ND	0.0623		mg/Kg-dry	1	06/30/2021 9:47 PM	74765
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	78.7	0.1-136		%Rec	1	06/30/2021 9:47 PM	74765
SS: 2-Fluorobiphenyl	79.2	16.3-118		%Rec	1	06/30/2021 9:47 PM	74765
SS: 2-Fluorophenol	88.6	4.2-97		%Rec	1	06/30/2021 9:47 PM	74765
SS: 4-Terphenyl-d14	113	0.1-147		%Rec	1	06/30/2021 9:47 PM	74765
SS: Nitrobenzene-d5	82.9	0.1-119		%Rec	1	06/30/2021 9:47 PM	74765
SS: Phenol-d6	85.6	9.82-111		%Rec	1	06/30/2021 9:47 PM	74765
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	ND	0.0209		mg/Kg-dry	1	06/28/2021 1:39 PM	74695
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.75	1.00		pH Units	1	06/25/2021 4:18 PM	R135212
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	20	1.0	c	wt%	1	06/29/2021 1:01 PM	R135311



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP13

Matrix: SOIL

Lab ID: 2106Q62-006

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 1:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP							
				Method: EPA-6010B-Rev 2, Dec-96		Analyst: SCT	
Arsenic	8.82	1.15		mg/Kg-dry	1	07/01/2021 3:53 PM	74772
Barium	41.7	0.125		mg/Kg-dry	1	07/01/2021 3:53 PM	74772
Cadmium	0.230	0.0750	J	mg/Kg-dry	1	07/01/2021 3:53 PM	74772
Chromium	8.77	0.0600		mg/Kg-dry	1	07/01/2021 3:53 PM	74772
Lead	12.2	0.600		mg/Kg-dry	1	07/01/2021 3:53 PM	74772
Selenium	ND	1.30		mg/Kg-dry	1	07/01/2021 3:53 PM	74772
Silver	1.09	0.0600		mg/Kg-dry	1	07/01/2021 3:53 PM	74772

VOLATILE ORGANIC COMPOUNDS

Method: EPA-8260B-Rev 2, Dec-96

Analyst: RWM

Total 1,3-Dichloropropene	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
1,1,1-Trichloroethane	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
1,1,1,2-Tetrachloroethane	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
1,1,2-Trichloroethane	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
1,1-Dichloroethane	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
1,1-Dichloroethene	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
1,2-Dichloroethane	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
1,2-Dichloropropane	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
2-Butanone	ND	0.0220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
2-Hexanone	ND	0.0550		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
4-Methyl-2-pentanone	ND	0.0550		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Acetone	ND	0.0550		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Benzene	ND	0.000550		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Bromodichloromethane	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Bromoform	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Bromomethane	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Carbon disulfide	ND	0.0110		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Carbon tetrachloride	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Chlorobenzene	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Chloroethane	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Chloroform	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Chloromethane	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
cis-1,2-Dichloroethene	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
cis-1,3-Dichloropropene	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Dibromochloromethane	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Ethylbenzene	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
m,p-Xylene	ND	0.00440		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Methyl tert-butyl ether	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP13

Matrix: SOIL

Lab ID: 2106Q62-006

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 1:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: RWM		
Methylene chloride	ND	0.0110		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
o-Xylene	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Total Xylenes	ND	0.00440		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Styrene	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Tetrachloroethene	ND	0.00440		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Toluene	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
trans-1,2-Dichloroethene	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
trans-1,3-Dichloropropene	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Trichloroethene	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
Vinyl chloride	ND	0.00220		mg/Kg-dry	1.96	06/30/2021 4:41 PM	R135417
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	95.9	80-130		%Rec	1.96	06/30/2021 4:41 PM	R135417
SS: Dibromofluoromethane	91.9	76.1-120		%Rec	1.96	06/30/2021 4:41 PM	R135417
SS: Toluene-d8	97.7	85-115		%Rec	1.96	06/30/2021 4:41 PM	R135417
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
1,2,4-Trichlorobenzene	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
1,2-Dichlorobenzene	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
1,3-Dichlorobenzene	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
1,4-Dichlorobenzene	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
2,4,5-Trichlorophenol	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
2,4,6-Trichlorophenol	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
2,4-Dichlorophenol	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
2,4-Dimethylphenol	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
2,4-Dinitrophenol	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
2,4-Dinitrotoluene	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
2,6-Dinitrotoluene	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
2-Chloronaphthalene	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
2-Chlorophenol	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
2-Methylnaphthalene	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
2-Nitroaniline	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
2-Nitrophenol	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
3,3-Dichlorobenzidine	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
3-Nitroaniline	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
4,6-Dinitro-2-methylphenol	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
4-Bromophenyl phenyl ether	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
4-Chloro-3-methylphenol	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
4-Chloroaniline	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP13

Matrix: SOIL

Lab ID: 2106Q62-006

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 1:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
4-Chlorophenyl phenyl ether	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
4-Nitroaniline	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
4-Nitrophenol	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Acenaphthene	ND	0.0559		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Acenaphthylene	ND	0.0559		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Anthracene	ND	0.0559		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Benzo(a)anthracene	ND	0.0559		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Benzo(a)pyrene	ND	0.0559		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Benzo(b)fluoranthene	ND	0.0559		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Benzo(g,h,i)perylene	ND	0.0559		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Benzo(k)fluoranthene	ND	0.0559		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Bis(2-chloroethoxy)methane	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Bis(2-chloroethyl)ether	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Bis(2-chloroisopropyl)ether	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Bis(2-ethylhexyl)phthalate	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Butyl benzyl phthalate	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Carbazole	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Chrysene	ND	0.0559		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Dibenzo(a,h)anthracene	ND	0.0559		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Dibenzofuran	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Diethyl phthalate	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Dimethyl phthalate	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Di-n-butyl phthalate	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Di-n-octyl phthalate	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Fluoranthene	ND	0.0559		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Fluorene	ND	0.0559		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Hexachlorobenzene	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Hexachlorobutadiene	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Hexachlorocyclopentadiene	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Hexachloroethane	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Indeno(1,2,3-cd)pyrene	ND	0.0559		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Isophorone	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
m,p-Cresol	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Naphthalene	ND	0.0559		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Nitrobenzene	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
N-Nitroso-di-n-propylamine	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
N-Nitrosodiphenylamine	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
o-Cresol	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Pentachlorophenol	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP13

Matrix: SOIL

Lab ID: 2106Q62-006

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 1:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
Phenanthrene	0.0566	0.0559		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Phenol	ND	0.280		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
Pyrene	ND	0.0559		mg/Kg-dry	1	06/30/2021 10:22 PM	74765
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	78.5	0.1-136		%Rec	1	06/30/2021 10:22 PM	74765
SS: 2-Fluorobiphenyl	83.9	16.3-118		%Rec	1	06/30/2021 10:22 PM	74765
SS: 2-Fluorophenol	91.7	4.2-97		%Rec	1	06/30/2021 10:22 PM	74765
SS: 4-Terphenyl-d14	114	0.1-147		%Rec	1	06/30/2021 10:22 PM	74765
SS: Nitrobenzene-d5	85.8	0.1-119		%Rec	1	06/30/2021 10:22 PM	74765
SS: Phenol-d6	87.4	9.82-111		%Rec	1	06/30/2021 10:22 PM	74765
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	ND	0.0173		mg/Kg-dry	1	06/28/2021 1:49 PM	74695
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.88	1.00		pH Units	1	06/25/2021 4:19 PM	R135212
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	11	1.0	c	wt%	1	06/29/2021 1:01 PM	R135311



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP14

Matrix: SOIL

Lab ID: 2106Q62-007

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 1:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	10.0	1.13		mg/Kg-dry	1	07/01/2021 3:56 PM	74772
Barium	148	0.123		mg/Kg-dry	1	07/01/2021 3:56 PM	74772
Cadmium	0.317	0.0735		mg/Kg-dry	1	07/01/2021 3:56 PM	74772
Chromium	16.5	0.0588		mg/Kg-dry	1	07/01/2021 3:56 PM	74772
Lead	8.99	0.588		mg/Kg-dry	1	07/01/2021 3:56 PM	74772
Selenium	ND	1.27		mg/Kg-dry	1	07/01/2021 3:56 PM	74772
Silver	1.74	0.0588		mg/Kg-dry	1	07/01/2021 3:56 PM	74772
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: RWM		
Total 1,3-Dichloropropene	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
1,1,1-Trichloroethane	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
1,1,2,2-Tetrachloroethane	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
1,1,2-Trichloroethane	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
1,1-Dichloroethane	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
1,1-Dichloroethene	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
1,2-Dichloroethane	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
1,2-Dichloropropane	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
2-Butanone	ND	0.0102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
2-Hexanone	ND	0.0255		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
4-Methyl-2-pentanone	ND	0.0255		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Acetone	ND	0.0255		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Benzene	ND	0.000255		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Bromodichloromethane	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Bromoform	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Bromomethane	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Carbon disulfide	ND	0.00163		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Carbon tetrachloride	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Chlorobenzene	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Chloroethane	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Chloroform	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Chloromethane	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
cis-1,2-Dichloroethene	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
cis-1,3-Dichloropropene	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Dibromochloromethane	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Ethylbenzene	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
m,p-Xylene	ND	0.00204		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Methyl tert-butyl ether	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP14

Matrix: SOIL

Lab ID: 2106Q62-007

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 1:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: RWM		
Methylene chloride	ND	0.00510		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
o-Xylene	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Total Xylenes	ND	0.00204		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Styrene	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Tetrachloroethene	ND	0.00204		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Toluene	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
trans-1,2-Dichloroethene	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
trans-1,3-Dichloropropene	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Trichloroethene	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
Vinyl chloride	ND	0.00102		mg/Kg-dry	0.78	06/29/2021 6:29 PM	R135347
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	97.6	80-130		%Rec	0.78	06/29/2021 6:29 PM	R135347
SS: Dibromofluoromethane	95.5	76.1-120		%Rec	0.78	06/29/2021 6:29 PM	R135347
SS: Toluene-d8	98.3	85-115		%Rec	0.78	06/29/2021 6:29 PM	R135347
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
1,2,4-Trichlorobenzene	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
1,2-Dichlorobenzene	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
1,3-Dichlorobenzene	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
1,4-Dichlorobenzene	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
2,4,5-Trichlorophenol	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
2,4,6-Trichlorophenol	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
2,4-Dichlorophenol	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
2,4-Dimethylphenol	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
2,4-Dinitrophenol	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
2,4-Dinitrotoluene	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
2,6-Dinitrotoluene	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
2-Chloronaphthalene	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
2-Chlorophenol	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
2-Methylnaphthalene	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
2-Nitroaniline	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
2-Nitrophenol	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
3,3-Dichlorobenzidine	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
3-Nitroaniline	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
4,6-Dinitro-2-methylphenol	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
4-Bromophenyl phenyl ether	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
4-Chloro-3-methylphenol	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
4-Chloroaniline	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP14

Matrix: SOIL

Lab ID: 2106Q62-007

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 1:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
4-Chlorophenyl phenyl ether	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
4-Nitroaniline	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
4-Nitrophenol	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Acenaphthene	ND	0.0644		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Acenaphthylene	ND	0.0644		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Anthracene	ND	0.0644		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Benzo(a)anthracene	ND	0.0644		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Benzo(a)pyrene	ND	0.0644		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Benzo(b)fluoranthene	ND	0.0644		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Benzo(g,h,i)perylene	ND	0.0644		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Benzo(k)fluoranthene	ND	0.0644		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Bis(2-chloroethoxy)methane	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Bis(2-chloroethyl)ether	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Bis(2-chloroisopropyl)ether	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Bis(2-ethylhexyl)phthalate	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Butyl benzyl phthalate	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Carbazole	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Chrysene	ND	0.0644		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Dibenzo(a,h)anthracene	ND	0.0644		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Dibenzofuran	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Diethyl phthalate	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Dimethyl phthalate	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Di-n-butyl phthalate	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Di-n-octyl phthalate	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Fluoranthene	ND	0.0644		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Fluorene	ND	0.0644		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Hexachlorobenzene	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Hexachlorobutadiene	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Hexachlorocyclopentadiene	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Hexachloroethane	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Indeno(1,2,3-cd)pyrene	ND	0.0644		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Isophorone	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
m,p-Cresol	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Naphthalene	ND	0.0644		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Nitrobenzene	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
N-Nitroso-di-n-propylamine	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
N-Nitrosodiphenylamine	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
o-Cresol	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Pentachlorophenol	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP14

Matrix: SOIL

Lab ID: 2106Q62-007

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 1:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
Phenanthrene	ND	0.0644		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Phenol	ND	0.322		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
Pyrene	ND	0.0644		mg/Kg-dry	1	06/30/2021 10:58 PM	74765
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	82.0	0.1-136		%Rec	1	06/30/2021 10:58 PM	74765
SS: 2-Fluorobiphenyl	85.8	16.3-118		%Rec	1	06/30/2021 10:58 PM	74765
SS: 2-Fluorophenol	96.0	4.2-97		%Rec	1	06/30/2021 10:58 PM	74765
SS: 4-Terphenyl-d14	123	0.1-147		%Rec	1	06/30/2021 10:58 PM	74765
SS: Nitrobenzene-d5	90.0	0.1-119		%Rec	1	06/30/2021 10:58 PM	74765
SS: Phenol-d6	92.3	9.82-111		%Rec	1	06/30/2021 10:58 PM	74765
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	ND	0.0212		mg/Kg-dry	1	06/28/2021 1:52 PM	74695
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.73	1.00		pH Units	1	06/25/2021 4:20 PM	R135212
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	23	1.0	c	wt%	1	06/29/2021 1:01 PM	R135311



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP15

Matrix: SOIL

Lab ID: 2106Q62-008

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 2:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	6.90	1.14		mg/Kg-dry	1	07/01/2021 4:08 PM	74772
Barium	58.9	0.124		mg/Kg-dry	1	07/01/2021 4:08 PM	74772
Cadmium	0.205	0.0743	J	mg/Kg-dry	1	07/01/2021 4:08 PM	74772
Chromium	9.66	0.0594		mg/Kg-dry	1	07/01/2021 4:08 PM	74772
Lead	9.75	0.594		mg/Kg-dry	1	07/01/2021 4:08 PM	74772
Selenium	ND	1.29		mg/Kg-dry	1	07/01/2021 4:08 PM	74772
Silver	1.19	0.0594		mg/Kg-dry	1	07/01/2021 4:08 PM	74772
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: RWM		
Total 1,3-Dichloropropene	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
1,1,1-Trichloroethane	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
1,1,2,2-Tetrachloroethane	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
1,1,2-Trichloroethane	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
1,1-Dichloroethane	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
1,1-Dichloroethene	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
1,2-Dichloroethane	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
1,2-Dichloropropane	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
2-Butanone	ND	0.0228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
2-Hexanone	ND	0.0571		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
4-Methyl-2-pentanone	ND	0.0571		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Acetone	ND	0.0571		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Benzene	ND	0.000571		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Bromodichloromethane	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Bromoform	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Bromomethane	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Carbon disulfide	ND	0.0114		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Carbon tetrachloride	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Chlorobenzene	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Chloroethane	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Chloroform	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Chloromethane	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
cis-1,2-Dichloroethene	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
cis-1,3-Dichloropropene	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Dibromochloromethane	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Ethylbenzene	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
m,p-Xylene	ND	0.00457		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Methyl tert-butyl ether	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP15

Matrix: SOIL

Lab ID: 2106Q62-008

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 2:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: RWM		
Methylene chloride	ND	0.0114		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
o-Xylene	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Total Xylenes	ND	0.00457		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Styrene	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Tetrachloroethene	ND	0.00457		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Toluene	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
trans-1,2-Dichloroethene	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
trans-1,3-Dichloropropene	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Trichloroethene	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
Vinyl chloride	ND	0.00228		mg/Kg-dry	1.98	06/30/2021 5:15 PM	R135417
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	96.1	80-130		%Rec	1.98	06/30/2021 5:15 PM	R135417
SS: Dibromofluoromethane	96.0	76.1-120		%Rec	1.98	06/30/2021 5:15 PM	R135417
SS: Toluene-d8	98.8	85-115		%Rec	1.98	06/30/2021 5:15 PM	R135417
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
1,2,4-Trichlorobenzene	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
1,2-Dichlorobenzene	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
1,3-Dichlorobenzene	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
1,4-Dichlorobenzene	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
2,4,5-Trichlorophenol	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
2,4,6-Trichlorophenol	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
2,4-Dichlorophenol	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
2,4-Dimethylphenol	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
2,4-Dinitrophenol	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
2,4-Dinitrotoluene	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
2,6-Dinitrotoluene	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
2-Chloronaphthalene	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
2-Chlorophenol	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
2-Methylnaphthalene	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
2-Nitroaniline	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
2-Nitrophenol	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
3,3-Dichlorobenzidine	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
3-Nitroaniline	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
4,6-Dinitro-2-methylphenol	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
4-Bromophenyl phenyl ether	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
4-Chloro-3-methylphenol	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
4-Chloroaniline	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP15

Matrix: SOIL

Lab ID: 2106Q62-008

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 2:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
4-Chlorophenyl phenyl ether	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
4-Nitroaniline	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
4-Nitrophenol	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Acenaphthene	ND	0.0569		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Acenaphthylene	ND	0.0569		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Anthracene	ND	0.0569		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Benzo(a)anthracene	ND	0.0569		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Benzo(a)pyrene	ND	0.0569		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Benzo(b)fluoranthene	ND	0.0569		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Benzo(g,h,i)perylene	ND	0.0569		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Benzo(k)fluoranthene	ND	0.0569		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Bis(2-chloroethoxy)methane	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Bis(2-chloroethyl)ether	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Bis(2-chloroisopropyl)ether	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Bis(2-ethylhexyl)phthalate	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Butyl benzyl phthalate	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Carbazole	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Chrysene	ND	0.0569		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Dibenzo(a,h)anthracene	ND	0.0569		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Dibenzofuran	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Diethyl phthalate	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Dimethyl phthalate	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Di-n-butyl phthalate	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Di-n-octyl phthalate	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Fluoranthene	0.0782	0.0569		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Fluorene	ND	0.0569		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Hexachlorobenzene	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Hexachlorobutadiene	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Hexachlorocyclopentadiene	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Hexachloroethane	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Indeno(1,2,3-cd)pyrene	ND	0.0569		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Isophorone	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
m,p-Cresol	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Naphthalene	ND	0.0569		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Nitrobenzene	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
N-Nitroso-di-n-propylamine	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
N-Nitrosodiphenylamine	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
o-Cresol	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Pentachlorophenol	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034

Workorder: 2106Q62

Client Sample ID: KP15

Matrix: SOIL

Lab ID: 2106Q62-008

Date Received: 06/25/2021 11:45 AM

Collection Date: 06/24/2021 2:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: ES		
Phenanthrene	0.0763	0.0569		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Phenol	ND	0.285		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
Pyrene	0.0653	0.0569		mg/Kg-dry	1	06/30/2021 11:34 PM	74765
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	82.1	0.1-136		%Rec	1	06/30/2021 11:34 PM	74765
SS: 2-Fluorobiphenyl	90.3	16.3-118		%Rec	1	06/30/2021 11:34 PM	74765
SS: 2-Fluorophenol	96.9	4.2-97		%Rec	1	06/30/2021 11:34 PM	74765
SS: 4-Terphenyl-d14	120	0.1-147		%Rec	1	06/30/2021 11:34 PM	74765
SS: Nitrobenzene-d5	90.8	0.1-119		%Rec	1	06/30/2021 11:34 PM	74765
SS: Phenol-d6	93.0	9.82-111		%Rec	1	06/30/2021 11:34 PM	74765
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	0.0204	0.0187	J	mg/Kg-dry	1	06/28/2021 1:56 PM	74695
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.93	1.00		pH Units	1	06/25/2021 4:21 PM	R135212
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	13	1.0	c	wt%	1	06/29/2021 1:01 PM	R135311



Client: K-Plus Engineering Services
Project: 31034

Report Date: July 26, 2021
Lab Order: 2106Q62

Sample ID	Collection Date	Batch ID	Prep Test Name	TCLP Date	Prep Date
2106Q62-001A	6/24/2021 10:30:00 AM	74735	CLOSED SYSTEM P&T VOC Prep		6/29/2021
2106Q62-001C		74695	Mercury Prep for Solids		6/28/2021
		74765	SOLID PREP SONICATION: BNA		6/30/2021
		74772	SOLID PREP TOTAL METALS: ICP		6/30/2021
2106Q62-002A	6/24/2021 11:00:00 AM	74735	CLOSED SYSTEM P&T VOC Prep		6/29/2021
2106Q62-002C		74695	Mercury Prep for Solids		6/28/2021
		74765	SOLID PREP SONICATION: BNA		6/30/2021
		74772	SOLID PREP TOTAL METALS: ICP		6/30/2021
2106Q62-003A	6/24/2021 11:30:00 AM	74735	CLOSED SYSTEM P&T VOC Prep		6/29/2021
2106Q62-003C		74695	Mercury Prep for Solids		6/28/2021
		74765	SOLID PREP SONICATION: BNA		6/30/2021
		74772	SOLID PREP TOTAL METALS: ICP		6/30/2021
2106Q62-004A	6/24/2021 12:00:00 PM	74735	CLOSED SYSTEM P&T VOC Prep		6/29/2021
2106Q62-004C		74695	Mercury Prep for Solids		6/28/2021
		74765	SOLID PREP SONICATION: BNA		6/30/2021
		74772	SOLID PREP TOTAL METALS: ICP		6/30/2021
2106Q62-005A	6/24/2021 12:30:00 PM	74735	CLOSED SYSTEM P&T VOC Prep		6/29/2021
2106Q62-005C		74695	Mercury Prep for Solids		6/28/2021
		74765	SOLID PREP SONICATION: BNA		6/30/2021
		74772	SOLID PREP TOTAL METALS: ICP		6/30/2021
2106Q62-006A	6/24/2021 1:00:00 PM	74735	CLOSED SYSTEM P&T VOC Prep		6/29/2021
2106Q62-006C		74695	Mercury Prep for Solids		6/28/2021
		74765	SOLID PREP SONICATION: BNA		6/30/2021
		74772	SOLID PREP TOTAL METALS: ICP		6/30/2021
2106Q62-007A	6/24/2021 1:30:00 PM	74735	CLOSED SYSTEM P&T VOC Prep		6/29/2021
2106Q62-007C		74695	Mercury Prep for Solids		6/28/2021
		74765	SOLID PREP SONICATION: BNA		6/30/2021
		74772	SOLID PREP TOTAL METALS: ICP		6/30/2021
2106Q62-008A	6/24/2021 2:00:00 PM	74735	CLOSED SYSTEM P&T VOC Prep		6/29/2021
2106Q62-008C		74695	Mercury Prep for Solids		6/28/2021
		74765	SOLID PREP SONICATION: BNA		6/30/2021



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

PREP DATES REPORT

Client: K-Plus Engineering Services
Project: 31034

Report Date: July 26, 2021
Lab Order: 2106Q62

Sample ID	Collection Date	Batch ID	Prep Test Name	TCLP Date	Prep Date
2106Q62-008C	6/24/2021 2:00:00 PM	74772	SOLID PREP TOTAL METALS: ICP		6/30/2021



Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
C	Value is below Minimum Concentration Limit
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
Q	Accreditation is not available from Wisconsin
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
T	Analyte detected in sample trip blank
V	EPA requires field analysis/filtration. Lab analysis would be considered past hold time.
WI	This sample was ran at the Wisconsin Laboratory, WI DNR Certified #246179890



SUBURBAN LABORATORIES, Inc.
 1950 S. Batavia Ave. Ste. 150 Geneva, IL 60134

Tel. 708.544.3260

CHAIN OF CUSTODY RECORD
 login@suburbanlabs.com www.suburbanlabs.com

Company Name: **K-PLUS**
 Office Address: **4150 State** State: **IL** Zip: **60134**
 Office Phone: **3122571600** Mobile: **31234** Fax: **31234**

City: **Geneva** State: **IL** Zip: **60134**
 Project ID / Location: **MSICAMA@KPLUS.COM**
 Project Manager (Report to): **JAVICAN**

Sample Collector(s): **LI**

TURNAROUND TIME REQUESTED
 Normal RUSH*

* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
 Date and Time Report Needed:

Specify Regulatory Program: None/Info Only
 LUST SRP SDWA
 503 Sludge NPDES MWRDGC
 Disposal CCDD OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
 Enter an "X" in box below for request

VOC
 SVOC
 RCR
 Metal
 PH

SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION		MATRIX	GRAB/COMP.	CONTAINERS QTY, SIZE & TYPE	PRESERVATIVE	ANALYSIS & METHOD REQUESTED	Page 1 of 8
	DATE	TIME						
1 KP9	6-24	1230	S	C	4 (1) 8oz 5035			
2 KP10		1100	S	C				
3 KP11		1130	S	C				
4 KP11-deep		1200	S	C				
5 KP12		1230	S	C				
6 KP13		100	S	C				
7 KP14		130	S	C				
8 KP15		200	S	C				
9								
10								
11								
12								

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H₂SO₄, HCl, HNO₃, Methanol (MeOH), NaOH, Sodium Bisulfite (NaB), Natrio

COMMENTS & SPECIAL INSTRUCTIONS:

1. Requisitioned By: **[Signature]** Date: **6/25/21**

2. Requisitioned By: **[Signature]** Date: **6/25/21**

3. Requisitioned By: **[Signature]** Date: **6/25/21**

4. Requisitioned By: **[Signature]** Date: **6/25/21**

Received By: **[Signature]** Time: **11:00** Ice

Received By: **[Signature]** Time: **11:45** Ice

Received By: **[Signature]** Time: **11:45** Ice

Received By: **[Signature]** Time: **11:45** Ice

SUBURBAN LABORATORIES, Inc.



1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

July 26, 2021

Jessica Madsen
K-Plus Engineering Services
15 Salt Creek Lane - Suite 410
Hinsdale, IL 60521

Workorder: 2107392

TEL: (312) 207-1600

FAX:

RE: 31034 CTA

Dear Jessica Madsen:

Suburban Laboratories, Inc. received 5 sample(s) on 7/6/2021 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Keith Sinon
Project Manager
708-544-3260 ext 212
keith@suburbanlabs.com





Client: K-Plus Engineering Services

Date: July 26, 2021

Project: 31034 CTA

PO #:

WorkOrder: 2107392

QC Level:

Temperature of samples upon receipt at SLI: 4 C

Chain of Custody #:

General Comments:

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:

- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:

For a complete list of method references please contact us.

- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:

Volatiles:

Samples 2107392-002A and -004A: G=Stir-bar vials provided did not purge properly due to sample matrix. Sample was analyzed from the jar provided via method 5030.



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP16

Matrix: SOIL

Lab ID: 2107392-001

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 10:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	4.11	1.12	J	mg/Kg-dry	1	07/08/2021 3:58 PM	74939
Barium	41.9	0.121		mg/Kg-dry	1	07/08/2021 3:58 PM	74939
Cadmium	0.193	0.0728	J	mg/Kg-dry	1	07/08/2021 3:58 PM	74939
Chromium	7.30	0.0583		mg/Kg-dry	1	07/08/2021 3:58 PM	74939
Lead	6.45	0.583		mg/Kg-dry	1	07/08/2021 3:58 PM	74939
Selenium	ND	1.26		mg/Kg-dry	1	07/08/2021 3:58 PM	74939
Silver	0.571	0.0583		mg/Kg-dry	1	07/08/2021 3:58 PM	74939
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Total 1,3-Dichloropropene	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
1,1,1-Trichloroethane	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
1,1,2,2-Tetrachloroethane	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
1,1,2-Trichloroethane	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
1,1-Dichloroethane	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
1,1-Dichloroethene	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
1,2-Dichloroethane	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
1,2-Dichloropropane	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
2-Butanone	ND	0.0108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
2-Hexanone	ND	0.0269		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
4-Methyl-2-pentanone	ND	0.0269		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Acetone	ND	0.0269		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Benzene	ND	0.000269		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Bromodichloromethane	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Bromoform	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Bromomethane	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Carbon disulfide	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Carbon tetrachloride	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Chlorobenzene	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Chloroethane	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Chloroform	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Chloromethane	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
cis-1,2-Dichloroethene	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
cis-1,3-Dichloropropene	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Dibromochloromethane	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Ethylbenzene	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
m,p-Xylene	ND	0.00215		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Methyl tert-butyl ether	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP16

Matrix: SOIL

Lab ID: 2107392-001

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 10:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Methylene chloride	ND	0.00538		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
o-Xylene	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Total Xylenes	ND	0.00215		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Styrene	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Tetrachloroethene	0.00274	0.00215		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Toluene	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
trans-1,2-Dichloroethene	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
trans-1,3-Dichloropropene	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Trichloroethene	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
Vinyl chloride	ND	0.00108		mg/Kg-dry	0.9271965	07/13/2021 1:10 PM	R135910
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	96.8	80-130		%Rec	0.9271965	07/13/2021 1:10 PM	R135910
SS: Dibromofluoromethane	96.2	76.1-120		%Rec	0.9271965	07/13/2021 1:10 PM	R135910
SS: Toluene-d8	98.9	85-115		%Rec	0.9271965	07/13/2021 1:10 PM	R135910
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: NJ		
1,2,4-Trichlorobenzene	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
1,2-Dichlorobenzene	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
1,3-Dichlorobenzene	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
1,4-Dichlorobenzene	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
2,4,5-Trichlorophenol	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
2,4,6-Trichlorophenol	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
2,4-Dichlorophenol	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
2,4-Dimethylphenol	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
2,4-Dinitrophenol	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
2,4-Dinitrotoluene	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
2,6-Dinitrotoluene	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
2-Chloronaphthalene	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
2-Chlorophenol	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
2-Methylnaphthalene	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
2-Nitroaniline	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
2-Nitrophenol	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
3,3-Dichlorobenzidine	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
3-Nitroaniline	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
4,6-Dinitro-2-methylphenol	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
4-Bromophenyl phenyl ether	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
4-Chloro-3-methylphenol	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
4-Chloroaniline	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP16

Matrix: SOIL

Lab ID: 2107392-001

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 10:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: NJ		
4-Chlorophenyl phenyl ether	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
4-Nitroaniline	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
4-Nitrophenol	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Acenaphthene	ND	0.0575		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Acenaphthylene	ND	0.0575		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Anthracene	ND	0.0575		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Benzo(a)anthracene	ND	0.0575		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Benzo(a)pyrene	ND	0.0575		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Benzo(b)fluoranthene	ND	0.0575		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Benzo(g,h,i)perylene	ND	0.0575		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Benzo(k)fluoranthene	ND	0.0575		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Bis(2-chloroethoxy)methane	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Bis(2-chloroethyl)ether	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Bis(2-chloroisopropyl)ether	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Bis(2-ethylhexyl)phthalate	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Butyl benzyl phthalate	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Carbazole	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Chrysene	ND	0.0575		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Dibenzo(a,h)anthracene	ND	0.0575		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Dibenzofuran	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Diethyl phthalate	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Dimethyl phthalate	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Di-n-butyl phthalate	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Di-n-octyl phthalate	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Fluoranthene	ND	0.0575		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Fluorene	ND	0.0575		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Hexachlorobenzene	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Hexachlorobutadiene	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Hexachlorocyclopentadiene	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Hexachloroethane	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Indeno(1,2,3-cd)pyrene	ND	0.0575		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Isophorone	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
m,p-Cresol	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Naphthalene	ND	0.0575		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Nitrobenzene	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
N-Nitroso-di-n-propylamine	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
N-Nitrosodiphenylamine	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
o-Cresol	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Pentachlorophenol	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP16

Matrix: SOIL

Lab ID: 2107392-001

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 10:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: NJ		
Phenanthrene	ND	0.0575		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Phenol	ND	0.287		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
Pyrene	ND	0.0575		mg/Kg-dry	1	07/13/2021 4:04 PM	75015
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	88.7	0.1-136		%Rec	1	07/13/2021 4:04 PM	75015
SS: 2-Fluorobiphenyl	86.0	16.3-118		%Rec	1	07/13/2021 4:04 PM	75015
SS: 2-Fluorophenol	94.7	4.2-97		%Rec	1	07/13/2021 4:04 PM	75015
SS: 4-Terphenyl-d14	81.4	0.1-147		%Rec	1	07/13/2021 4:04 PM	75015
SS: Nitrobenzene-d5	84.7	0.1-119		%Rec	1	07/13/2021 4:04 PM	75015
SS: Phenol-d6	90.8	9.82-111		%Rec	1	07/13/2021 4:04 PM	75015
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	0.0266	0.0179	J	mg/Kg-dry	1	07/09/2021 1:24 PM	74969
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.52	1.00		pH Units	1	07/09/2021 2:56 PM	R135765
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	14	1.0	c	wt%	1	07/09/2021 4:20 PM	R135754



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP17

Matrix: SOIL

Lab ID: 2107392-002

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 11:15 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	7.18	1.11		mg/Kg-dry	1	07/08/2021 3:45 PM	74939
Barium	79.0	0.120		mg/Kg-dry	1	07/08/2021 3:45 PM	74939
Cadmium	0.321	0.0721		mg/Kg-dry	1	07/08/2021 3:45 PM	74939
Chromium	10.3	0.0577		mg/Kg-dry	1	07/08/2021 3:45 PM	74939
Lead	7.09	0.577		mg/Kg-dry	1	07/08/2021 3:45 PM	74939
Selenium	ND	1.25		mg/Kg-dry	1	07/08/2021 3:45 PM	74939
Silver	0.916	0.0577		mg/Kg-dry	1	07/08/2021 3:45 PM	74939
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Total 1,3-Dichloropropene	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
1,1,1-Trichloroethane	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
1,1,2,2-Tetrachloroethane	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
1,1,2-Trichloroethane	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
1,1-Dichloroethane	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
1,1-Dichloroethene	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
1,2-Dichloroethane	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
1,2-Dichloropropane	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
2-Butanone	ND	0.0241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
2-Hexanone	ND	0.0603	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
4-Methyl-2-pentanone	ND	0.0603	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Acetone	ND	0.0603	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Benzene	ND	0.000603	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Bromodichloromethane	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Bromoform	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Bromomethane	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Carbon disulfide	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Carbon tetrachloride	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Chlorobenzene	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Chloroethane	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Chloroform	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Chloromethane	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
cis-1,2-Dichloroethene	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
cis-1,3-Dichloropropene	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Dibromochloromethane	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Ethylbenzene	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
m,p-Xylene	ND	0.00483	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Methyl tert-butyl ether	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP17

Matrix: SOIL

Lab ID: 2107392-002

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 11:15 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Methylene chloride	ND	0.0121	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
o-Xylene	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Total Xylenes	ND	0.00483	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Styrene	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Tetrachloroethene	ND	0.00483	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Toluene	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
trans-1,2-Dichloroethene	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
trans-1,3-Dichloropropene	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Trichloroethene	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
Vinyl chloride	ND	0.00241	G	mg/Kg-dry	2.0108586	07/13/2021 3:28 PM	R135910
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	97.4	80-130	G	%Rec	2.0108586	07/13/2021 3:28 PM	R135910
SS: Dibromofluoromethane	99.8	76.1-120	G	%Rec	2.0108586	07/13/2021 3:28 PM	R135910
SS: Toluene-d8	100	85-115	G	%Rec	2.0108586	07/13/2021 3:28 PM	R135910
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: NJ		
1,2,4-Trichlorobenzene	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
1,2-Dichlorobenzene	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
1,3-Dichlorobenzene	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
1,4-Dichlorobenzene	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
2,4,5-Trichlorophenol	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
2,4,6-Trichlorophenol	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
2,4-Dichlorophenol	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
2,4-Dimethylphenol	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
2,4-Dinitrophenol	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
2,4-Dinitrotoluene	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
2,6-Dinitrotoluene	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
2-Chloronaphthalene	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
2-Chlorophenol	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
2-Methylnaphthalene	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
2-Nitroaniline	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
2-Nitrophenol	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
3,3-Dichlorobenzidine	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
3-Nitroaniline	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
4,6-Dinitro-2-methylphenol	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
4-Bromophenyl phenyl ether	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
4-Chloro-3-methylphenol	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
4-Chloroaniline	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP17

Matrix: SOIL

Lab ID: 2107392-002

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 11:15 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: NJ		
4-Chlorophenyl phenyl ether	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
4-Nitroaniline	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
4-Nitrophenol	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Acenaphthene	ND	0.0594		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Acenaphthylene	ND	0.0594		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Anthracene	ND	0.0594		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Benzo(a)anthracene	ND	0.0594		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Benzo(a)pyrene	ND	0.0594		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Benzo(b)fluoranthene	ND	0.0594		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Benzo(g,h,i)perylene	ND	0.0594		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Benzo(k)fluoranthene	ND	0.0594		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Bis(2-chloroethoxy)methane	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Bis(2-chloroethyl)ether	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Bis(2-chloroisopropyl)ether	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Bis(2-ethylhexyl)phthalate	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Butyl benzyl phthalate	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Carbazole	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Chrysene	ND	0.0594		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Dibenzo(a,h)anthracene	ND	0.0594		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Dibenzofuran	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Diethyl phthalate	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Dimethyl phthalate	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Di-n-butyl phthalate	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Di-n-octyl phthalate	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Fluoranthene	ND	0.0594		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Fluorene	ND	0.0594		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Hexachlorobenzene	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Hexachlorobutadiene	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Hexachlorocyclopentadiene	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Hexachloroethane	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Indeno(1,2,3-cd)pyrene	ND	0.0594		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Isophorone	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
m,p-Cresol	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Naphthalene	ND	0.0594		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Nitrobenzene	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
N-Nitroso-di-n-propylamine	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
N-Nitrosodiphenylamine	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
o-Cresol	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Pentachlorophenol	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP17

Matrix: SOIL

Lab ID: 2107392-002

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 11:15 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: NJ		
Phenanthrene	ND	0.0594		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Phenol	ND	0.297		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
Pyrene	ND	0.0594		mg/Kg-dry	1	07/13/2021 4:41 PM	75015
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	88.8	0.1-136		%Rec	1	07/13/2021 4:41 PM	75015
SS: 2-Fluorobiphenyl	85.7	16.3-118		%Rec	1	07/13/2021 4:41 PM	75015
SS: 2-Fluorophenol	93.7	4.2-97		%Rec	1	07/13/2021 4:41 PM	75015
SS: 4-Terphenyl-d14	72.9	0.1-147		%Rec	1	07/13/2021 4:41 PM	75015
SS: Nitrobenzene-d5	84.4	0.1-119		%Rec	1	07/13/2021 4:41 PM	75015
SS: Phenol-d6	88.9	9.82-111		%Rec	1	07/13/2021 4:41 PM	75015
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	0.0384	0.0189	J	mg/Kg-dry	1	07/09/2021 1:27 PM	74969
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.53	1.00		pH Units	1	07/09/2021 2:58 PM	R135765
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	17	1.0	c	wt%	1	07/09/2021 4:20 PM	R135754



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP18

Matrix: SOIL

Lab ID: 2107392-003

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 11:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	9.34	1.11		mg/Kg-dry	1	07/08/2021 3:48 PM	74939
Barium	76.8	0.120		mg/Kg-dry	1	07/08/2021 3:48 PM	74939
Cadmium	0.302	0.0721		mg/Kg-dry	1	07/08/2021 3:48 PM	74939
Chromium	12.2	0.0577		mg/Kg-dry	1	07/08/2021 3:48 PM	74939
Lead	7.20	0.577		mg/Kg-dry	1	07/08/2021 3:48 PM	74939
Selenium	ND	1.25		mg/Kg-dry	1	07/08/2021 3:48 PM	74939
Silver	1.19	0.0577		mg/Kg-dry	1	07/08/2021 3:48 PM	74939
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: RWM		
Total 1,3-Dichloropropene	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
1,1,1-Trichloroethane	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
1,1,2,2-Tetrachloroethane	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
1,1,2-Trichloroethane	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
1,1-Dichloroethane	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
1,1-Dichloroethene	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
1,2-Dichloroethane	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
1,2-Dichloropropane	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
2-Butanone	ND	0.00778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
2-Hexanone	ND	0.0195		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
4-Methyl-2-pentanone	ND	0.0195		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Acetone	ND	0.0195		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Benzene	ND	0.000195		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Bromodichloromethane	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Bromoform	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Bromomethane	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Carbon disulfide	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Carbon tetrachloride	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Chlorobenzene	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Chloroethane	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Chloroform	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Chloromethane	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
cis-1,2-Dichloroethene	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
cis-1,3-Dichloropropene	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Dibromochloromethane	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Ethylbenzene	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
m,p-Xylene	ND	0.00156		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Methyl tert-butyl ether	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP18

Matrix: SOIL

Lab ID: 2107392-003

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 11:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: RWM		
Methylene chloride	ND	0.00389		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
o-Xylene	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Total Xylenes	ND	0.00156		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Styrene	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Tetrachloroethene	0.00271	0.00156		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Toluene	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
trans-1,2-Dichloroethene	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
trans-1,3-Dichloropropene	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Trichloroethene	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
Vinyl chloride	ND	0.000778		mg/Kg-dry	0.68	07/09/2021 10:51 PM	R135772
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	96.6	80-130		%Rec	0.68	07/09/2021 10:51 PM	R135772
SS: Dibromofluoromethane	107	76.1-120		%Rec	0.68	07/09/2021 10:51 PM	R135772
SS: Toluene-d8	99.4	85-115		%Rec	0.68	07/09/2021 10:51 PM	R135772
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: NJ		
1,2,4-Trichlorobenzene	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
1,2-Dichlorobenzene	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
1,3-Dichlorobenzene	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
1,4-Dichlorobenzene	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
2,4,5-Trichlorophenol	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
2,4,6-Trichlorophenol	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
2,4-Dichlorophenol	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
2,4-Dimethylphenol	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
2,4-Dinitrophenol	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
2,4-Dinitrotoluene	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
2,6-Dinitrotoluene	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
2-Chloronaphthalene	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
2-Chlorophenol	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
2-Methylnaphthalene	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
2-Nitroaniline	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
2-Nitrophenol	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
3,3-Dichlorobenzidine	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
3-Nitroaniline	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
4,6-Dinitro-2-methylphenol	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
4-Bromophenyl phenyl ether	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
4-Chloro-3-methylphenol	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
4-Chloroaniline	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP18

Matrix: SOIL

Lab ID: 2107392-003

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 11:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: NJ		
4-Chlorophenyl phenyl ether	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
4-Nitroaniline	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
4-Nitrophenol	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Acenaphthene	ND	0.0570		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Acenaphthylene	ND	0.0570		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Anthracene	ND	0.0570		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Benzo(a)anthracene	ND	0.0570		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Benzo(a)pyrene	ND	0.0570		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Benzo(b)fluoranthene	ND	0.0570		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Benzo(g,h,i)perylene	ND	0.0570		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Benzo(k)fluoranthene	ND	0.0570		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Bis(2-chloroethoxy)methane	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Bis(2-chloroethyl)ether	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Bis(2-chloroisopropyl)ether	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Bis(2-ethylhexyl)phthalate	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Butyl benzyl phthalate	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Carbazole	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Chrysene	ND	0.0570		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Dibenzo(a,h)anthracene	ND	0.0570		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Dibenzofuran	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Diethyl phthalate	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Dimethyl phthalate	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Di-n-butyl phthalate	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Di-n-octyl phthalate	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Fluoranthene	ND	0.0570		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Fluorene	ND	0.0570		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Hexachlorobenzene	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Hexachlorobutadiene	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Hexachlorocyclopentadiene	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Hexachloroethane	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Indeno(1,2,3-cd)pyrene	ND	0.0570		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Isophorone	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
m,p-Cresol	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Naphthalene	ND	0.0570		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Nitrobenzene	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
N-Nitroso-di-n-propylamine	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
N-Nitrosodiphenylamine	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
o-Cresol	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Pentachlorophenol	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP18

Matrix: SOIL

Lab ID: 2107392-003

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 11:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: NJ		
Phenanthrene	ND	0.0570		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Phenol	ND	0.285		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
Pyrene	ND	0.0570		mg/Kg-dry	1	07/13/2021 5:17 PM	75015
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	85.1	0.1-136		%Rec	1	07/13/2021 5:17 PM	75015
SS: 2-Fluorobiphenyl	87.4	16.3-118		%Rec	1	07/13/2021 5:17 PM	75015
SS: 2-Fluorophenol	95.4	4.2-97		%Rec	1	07/13/2021 5:17 PM	75015
SS: 4-Terphenyl-d14	77.2	0.1-147		%Rec	1	07/13/2021 5:17 PM	75015
SS: Nitrobenzene-d5	86.6	0.1-119		%Rec	1	07/13/2021 5:17 PM	75015
SS: Phenol-d6	91.2	9.82-111		%Rec	1	07/13/2021 5:17 PM	75015
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	0.0783	0.0181		mg/Kg-dry	1	07/09/2021 1:30 PM	74969
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.51	1.00		pH Units	1	07/09/2021 2:55 PM	R135765
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	13	1.0	c	wt%	1	07/09/2021 4:20 PM	R135754



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP19

Matrix: SOIL

Lab ID: 2107392-004

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 11:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	7.02	1.15		mg/Kg-dry	1	07/08/2021 3:51 PM	74939
Barium	62.9	0.125		mg/Kg-dry	1	07/08/2021 3:51 PM	74939
Cadmium	0.399	0.0750		mg/Kg-dry	1	07/08/2021 3:51 PM	74939
Chromium	9.18	0.0600		mg/Kg-dry	1	07/08/2021 3:51 PM	74939
Lead	19.6	0.600		mg/Kg-dry	1	07/08/2021 3:51 PM	74939
Selenium	ND	1.30		mg/Kg-dry	1	07/08/2021 3:51 PM	74939
Silver	1.06	0.0600		mg/Kg-dry	1	07/08/2021 3:51 PM	74939
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Total 1,3-Dichloropropene	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
1,1,1-Trichloroethane	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
1,1,2,2-Tetrachloroethane	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
1,1,2-Trichloroethane	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
1,1-Dichloroethane	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
1,1-Dichloroethene	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
1,2-Dichloroethane	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
1,2-Dichloropropane	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
2-Butanone	ND	0.0232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
2-Hexanone	ND	0.0581	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
4-Methyl-2-pentanone	ND	0.0581	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Acetone	ND	0.0581	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Benzene	ND	0.000581	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Bromodichloromethane	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Bromoform	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Bromomethane	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Carbon disulfide	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Carbon tetrachloride	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Chlorobenzene	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Chloroethane	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Chloroform	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Chloromethane	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
cis-1,2-Dichloroethene	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
cis-1,3-Dichloropropene	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Dibromochloromethane	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Ethylbenzene	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
m,p-Xylene	ND	0.00465	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Methyl tert-butyl ether	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP19

Matrix: SOIL

Lab ID: 2107392-004

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 11:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Methylene chloride	ND	0.0116	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
o-Xylene	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Total Xylenes	ND	0.00465	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Styrene	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Tetrachloroethene	ND	0.00465	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Toluene	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
trans-1,2-Dichloroethene	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
trans-1,3-Dichloropropene	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Trichloroethene	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
Vinyl chloride	ND	0.00232	G	mg/Kg-dry	1.99227	07/13/2021 4:03 PM	R135910
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	99.2	80-130	G	%Rec	1.99227	07/13/2021 4:03 PM	R135910
SS: Dibromofluoromethane	104	76.1-120	G	%Rec	1.99227	07/13/2021 4:03 PM	R135910
SS: Toluene-d8	98.9	85-115	G	%Rec	1.99227	07/13/2021 4:03 PM	R135910
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: NJ		
1,2,4-Trichlorobenzene	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
1,2-Dichlorobenzene	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
1,3-Dichlorobenzene	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
1,4-Dichlorobenzene	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
2,4,5-Trichlorophenol	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
2,4,6-Trichlorophenol	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
2,4-Dichlorophenol	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
2,4-Dimethylphenol	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
2,4-Dinitrophenol	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
2,4-Dinitrotoluene	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
2,6-Dinitrotoluene	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
2-Chloronaphthalene	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
2-Chlorophenol	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
2-Methylnaphthalene	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
2-Nitroaniline	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
2-Nitrophenol	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
3,3-Dichlorobenzidine	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
3-Nitroaniline	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
4,6-Dinitro-2-methylphenol	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
4-Bromophenyl phenyl ether	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
4-Chloro-3-methylphenol	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
4-Chloroaniline	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP19

Matrix: SOIL

Lab ID: 2107392-004

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 11:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: NJ		
4-Chlorophenyl phenyl ether	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
4-Nitroaniline	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
4-Nitrophenol	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Acenaphthene	ND	0.0574		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Acenaphthylene	ND	0.0574		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Anthracene	ND	0.0574		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Benzo(a)anthracene	0.154	0.0574		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Benzo(a)pyrene	0.142	0.0574		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Benzo(b)fluoranthene	0.202	0.0574		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Benzo(g,h,i)perylene	0.134	0.0574		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Benzo(k)fluoranthene	0.0708	0.0574		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Bis(2-chloroethoxy)methane	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Bis(2-chloroethyl)ether	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Bis(2-chloroisopropyl)ether	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Bis(2-ethylhexyl)phthalate	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Butyl benzyl phthalate	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Carbazole	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Chrysene	0.171	0.0574		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Dibenzo(a,h)anthracene	ND	0.0574		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Dibenzofuran	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Diethyl phthalate	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Dimethyl phthalate	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Di-n-butyl phthalate	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Di-n-octyl phthalate	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Fluoranthene	0.276	0.0574		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Fluorene	ND	0.0574		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Hexachlorobenzene	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Hexachlorobutadiene	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Hexachlorocyclopentadiene	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Hexachloroethane	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Indeno(1,2,3-cd)pyrene	0.113	0.0574		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Isophorone	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
m,p-Cresol	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Naphthalene	ND	0.0574		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Nitrobenzene	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
N-Nitroso-di-n-propylamine	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
N-Nitrosodiphenylamine	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
o-Cresol	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Pentachlorophenol	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015



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Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP19

Matrix: SOIL

Lab ID: 2107392-004

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 11:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: NJ		
Phenanthrene	0.156	0.0574		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Phenol	ND	0.287		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
Pyrene	0.264	0.0574		mg/Kg-dry	1	07/13/2021 5:53 PM	75015
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	85.3	0.1-136		%Rec	1	07/13/2021 5:53 PM	75015
SS: 2-Fluorobiphenyl	79.7	16.3-118		%Rec	1	07/13/2021 5:53 PM	75015
SS: 2-Fluorophenol	87.4	4.2-97		%Rec	1	07/13/2021 5:53 PM	75015
SS: 4-Terphenyl-d14	80.3	0.1-147		%Rec	1	07/13/2021 5:53 PM	75015
SS: Nitrobenzene-d5	78.7	0.1-119		%Rec	1	07/13/2021 5:53 PM	75015
SS: Phenol-d6	84.2	9.82-111		%Rec	1	07/13/2021 5:53 PM	75015
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	0.0314	0.0179	J	mg/Kg-dry	1	07/09/2021 1:34 PM	74969
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.91	1.00		pH Units	1	07/09/2021 3:04 PM	R135765
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	14	1.0	c	wt%	1	07/09/2021 4:20 PM	R135754



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP20

Matrix: SOIL

Lab ID: 2107392-005

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 12:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	8.76	1.12		mg/Kg-dry	1	07/08/2021 3:55 PM	74939
Barium	112	0.121		mg/Kg-dry	1	07/08/2021 3:55 PM	74939
Cadmium	0.379	0.0728		mg/Kg-dry	1	07/08/2021 3:55 PM	74939
Chromium	14.9	0.0583		mg/Kg-dry	1	07/08/2021 3:55 PM	74939
Lead	8.34	0.583		mg/Kg-dry	1	07/08/2021 3:55 PM	74939
Selenium	ND	1.26		mg/Kg-dry	1	07/08/2021 3:55 PM	74939
Silver	1.14	0.0583		mg/Kg-dry	1	07/08/2021 3:55 PM	74939
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Total 1,3-Dichloropropene	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
1,1,1-Trichloroethane	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
1,1,2,2-Tetrachloroethane	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
1,1,2-Trichloroethane	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
1,1-Dichloroethane	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
1,1-Dichloroethene	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
1,2-Dichloroethane	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
1,2-Dichloropropane	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
2-Butanone	ND	0.0123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
2-Hexanone	ND	0.0308		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
4-Methyl-2-pentanone	ND	0.0308		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Acetone	ND	0.0308		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Benzene	ND	0.000308		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Bromodichloromethane	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Bromoform	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Bromomethane	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Carbon disulfide	0.00158	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Carbon tetrachloride	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Chlorobenzene	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Chloroethane	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Chloroform	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Chloromethane	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
cis-1,2-Dichloroethene	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
cis-1,3-Dichloropropene	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Dibromochloromethane	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Ethylbenzene	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
m,p-Xylene	ND	0.00246		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Methyl tert-butyl ether	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP20

Matrix: SOIL

Lab ID: 2107392-005

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 12:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: CY		
Methylene chloride	ND	0.00616		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
o-Xylene	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Total Xylenes	ND	0.00246		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Styrene	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Tetrachloroethene	0.00603	0.00246		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Toluene	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
trans-1,2-Dichloroethene	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
trans-1,3-Dichloropropene	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Trichloroethene	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
Vinyl chloride	ND	0.00123		mg/Kg-dry	0.9819324	07/13/2021 2:54 PM	R135910
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	89.5	80-130		%Rec	0.9819324	07/13/2021 2:54 PM	R135910
SS: Dibromofluoromethane	109	76.1-120		%Rec	0.9819324	07/13/2021 2:54 PM	R135910
SS: Toluene-d8	98.0	85-115		%Rec	0.9819324	07/13/2021 2:54 PM	R135910
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: NJ		
1,2,4-Trichlorobenzene	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
1,2-Dichlorobenzene	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
1,3-Dichlorobenzene	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
1,4-Dichlorobenzene	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
2,4,5-Trichlorophenol	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
2,4,6-Trichlorophenol	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
2,4-Dichlorophenol	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
2,4-Dimethylphenol	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
2,4-Dinitrophenol	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
2,4-Dinitrotoluene	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
2,6-Dinitrotoluene	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
2-Chloronaphthalene	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
2-Chlorophenol	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
2-Methylnaphthalene	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
2-Nitroaniline	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
2-Nitrophenol	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
3,3-Dichlorobenzidine	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
3-Nitroaniline	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
4,6-Dinitro-2-methylphenol	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
4-Bromophenyl phenyl ether	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
4-Chloro-3-methylphenol	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
4-Chloroaniline	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP20

Matrix: SOIL

Lab ID: 2107392-005

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 12:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: NJ		
4-Chlorophenyl phenyl ether	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
4-Nitroaniline	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
4-Nitrophenol	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Acenaphthene	ND	0.0626		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Acenaphthylene	ND	0.0626		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Anthracene	ND	0.0626		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Benzo(a)anthracene	ND	0.0626		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Benzo(a)pyrene	ND	0.0626		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Benzo(b)fluoranthene	ND	0.0626		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Benzo(g,h,i)perylene	ND	0.0626		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Benzo(k)fluoranthene	ND	0.0626		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Bis(2-chloroethoxy)methane	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Bis(2-chloroethyl)ether	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Bis(2-chloroisopropyl)ether	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Bis(2-ethylhexyl)phthalate	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Butyl benzyl phthalate	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Carbazole	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Chrysene	ND	0.0626		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Dibenzo(a,h)anthracene	ND	0.0626		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Dibenzofuran	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Diethyl phthalate	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Dimethyl phthalate	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Di-n-butyl phthalate	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Di-n-octyl phthalate	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Fluoranthene	ND	0.0626		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Fluorene	ND	0.0626		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Hexachlorobenzene	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Hexachlorobutadiene	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Hexachlorocyclopentadiene	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Hexachloroethane	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Indeno(1,2,3-cd)pyrene	ND	0.0626		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Isophorone	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
m,p-Cresol	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Naphthalene	ND	0.0626		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Nitrobenzene	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
N-Nitroso-di-n-propylamine	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
N-Nitrosodiphenylamine	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
o-Cresol	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Pentachlorophenol	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: K-Plus Engineering Services

Report Date: July 26, 2021

Project Name: 31034 CTA

Workorder: 2107392

Client Sample ID: KP20

Matrix: SOIL

Lab ID: 2107392-005

Date Received: 07/06/2021 6:11 PM

Collection Date: 07/06/2021 12:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96			Analyst: NJ		
Phenanthrene	ND	0.0626		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Phenol	ND	0.313		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
Pyrene	ND	0.0626		mg/Kg-dry	1	07/13/2021 6:29 PM	75015
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	88.1	0.1-136		%Rec	1	07/13/2021 6:29 PM	75015
SS: 2-Fluorobiphenyl	81.4	16.3-118		%Rec	1	07/13/2021 6:29 PM	75015
SS: 2-Fluorophenol	89.3	4.2-97		%Rec	1	07/13/2021 6:29 PM	75015
SS: 4-Terphenyl-d14	88.1	0.1-147		%Rec	1	07/13/2021 6:29 PM	75015
SS: Nitrobenzene-d5	80.2	0.1-119		%Rec	1	07/13/2021 6:29 PM	75015
SS: Phenol-d6	86.2	9.82-111		%Rec	1	07/13/2021 6:29 PM	75015
MERCURY BY CVAA		Method: EPA-7471B-Rev 2, Feb-07			Analyst: MTS		
Mercury	0.0339	0.0193	J	mg/Kg-dry	1	07/09/2021 1:37 PM	74969
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.35	1.00		pH Units	1	07/09/2021 3:06 PM	R135765
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: MW		
Percent Moisture	20	1.0	c	wt%	1	07/09/2021 4:20 PM	R135754



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

PREP DATES REPORT

Client: K-Plus Engineering Services
Project: 31034 CTA

Report Date: July 26, 2021
Lab Order: 2107392

Sample ID	Collection Date	Batch ID	Prep Test Name	TCLP Date	Prep Date
2107392-001A	7/6/2021 10:45:00 AM	75006	CLOSED SYSTEM P&T VOC Prep		7/10/2021
2107392-001C		74969	Mercury Prep for Solids		7/9/2021
		75015	SOLID PREP SONICATION: BNA		7/12/2021
		74939	SOLID PREP TOTAL METALS: ICP		7/8/2021
2107392-002A	7/6/2021 11:15:00 AM	75006	CLOSED SYSTEM P&T VOC Prep		7/10/2021
2107392-002C		74969	Mercury Prep for Solids		7/9/2021
		75015	SOLID PREP SONICATION: BNA		7/12/2021
		74939	SOLID PREP TOTAL METALS: ICP		7/8/2021
2107392-003A	7/6/2021 11:30:00 AM	75006	CLOSED SYSTEM P&T VOC Prep		7/10/2021
2107392-003C		74969	Mercury Prep for Solids		7/9/2021
		75015	SOLID PREP SONICATION: BNA		7/12/2021
		74939	SOLID PREP TOTAL METALS: ICP		7/8/2021
2107392-004A	7/6/2021 11:45:00 AM	75006	CLOSED SYSTEM P&T VOC Prep		7/10/2021
2107392-004C		74969	Mercury Prep for Solids		7/9/2021
		75015	SOLID PREP SONICATION: BNA		7/12/2021
		74939	SOLID PREP TOTAL METALS: ICP		7/8/2021
2107392-005A	7/6/2021 12:30:00 PM	75006	CLOSED SYSTEM P&T VOC Prep		7/10/2021
2107392-005C		74969	Mercury Prep for Solids		7/9/2021
		75015	SOLID PREP SONICATION: BNA		7/12/2021
		74939	SOLID PREP TOTAL METALS: ICP		7/8/2021



Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
C	Value is below Minimum Concentration Limit
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
Q	Accreditation is not available from Wisconsin
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
T	Analyte detected in sample trip blank
V	EPA requires field analysis/filtration. Lab analysis would be considered past hold time.
WI	This sample was ran at the Wisconsin Laboratory, WI DNR Certified #246179890



SUBURBAN LABORATORIES, Inc.
 1960 S. Batavia Ave. Ste. 150 Geneva, IL 60134

CHAIN OF CUSTODY RECORD
 Tel. 708.544.3260 login@suburbanlabs.com www.suburbanlabs.com

Company Name: R-PLUS Page 1 of 1
 Company Address: _____ PO # _____
 City: HINSDALE State: IL Zip: 60521
 Office: 32-207-1600 Mobile: _____ Fax: _____
 Email Address: carol@rplus.com
 Project ID / Location: 31034 / CIA
 Project Manager (Report to): JESSICA MADSEN
 Sample Collector(s): _____

TURNAROUND TIME REQUESTED: Normal RUSH*
 * Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
 Date and Time Report Needed: _____
 Specify Regulatory Program: None/info Only SDWA MWRDGC
 LUST SRP NPDES OTHER - Specify Below
 503 Sludge CCDD

SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION		MATRIX	GRAB/COMP.	CONTAINERS		PRESERVATIVE	LAB #
	DATE	TIME			Qty	SIZE & TYPE		
1 KP16	7/6/21	11:45	S	C	4	9oz + 503		1A
2 KP17		11:15	S	C				
3 KP18		11:40	S	C				
4 KP19		11:45	S	C				
5 KP20		12:30	S	C				5C
6								
7								
8								
9								
10								
11								
12								

ANALYSIS & METHOD REQUESTED: _____
 Enter an "X" in box below for request

LAB USE ONLY
 Work Order # 2107392
 Temperature of Received Samples _____ °C
 Received within 24 hours of collection? No Yes

Shipping Method: _____

3. Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

4. Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

Ice Ice

COMMENTS & SPECIAL INSTRUCTIONS:

1. Relinquished By: _____ Date: 7/6 Time: 2:45
 Received By: _____ Date: 7/6 Time: 11:00

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

May 30, 2023

Mr. Steve Radel
President
Industrial Development Advantage, LLC
4101 Arthur Kill Road
Staten Island, NY 10309

RE: Import of Fill at the USS Lead Superfund Site

Dear Mr. Radel:


The U. S. Environmental Protection Agency (EPA), in consultation with the Indiana Department of Environmental Management (IDEM), has evaluated the correspondence from your consultant, Verdantas, regarding fill material from the Chicago Transit Authority (CTA) Red Line project. In the Verdantas letter of May 18, 2023, they are requesting that EPA approve the use at USS Lead of 28,000 cubic yards of fill material that was sampled by CTA's contractor K-Plus in 2021. According to the correspondence from Verdantas, the sampling frequency for the proposed fill material was one sample for every 560 cubic yards and this fill material is located and sourced from five feet below ground surface. EPA is encouraged by the preliminary analytical results submitted by Verdantas that the soil from this project would be appropriate to use for Zone 1 fill material.

However, since EPA was not involved in the preparation, review, or approval of the sampling for the CTA project and has not overseen sampling in connection with the CTA project, you will still have to meet the sampling requirements of the USS Lead Fill Import Plan. The Fill Import Plan requires you to collect and analyze 2 samples for every 4,000 cubic yards of fill material. You may decide to rely on the K-Plus results for purposes of bringing the soil on site in advance of the plan's required sampling, but you do so at your own risk that sampling results in accordance with the approved Quality Assurance Project Plan may result in the soil having to be removed from the site instead of used as fill material. In addition, you must segregate the imported fill to ensure that if analytical results show that the fill fails the fill import criteria, you will be able to remove from the site the material that fails the fill import criteria. EPA will also require further information on how you plan to manage these soils if brought onto the site prior to excavation activities. EPA would request that the proposed truck washing station and street sweeper be mobilized onto the site prior to bringing any fill onto the site. EPA is also expecting that dust will be controlled from the on-site roads and storage piles to prevent fugitive dust emissions.

EPA looks forward to discussing this issue further with you and if you have any questions or concerns, feel free to contact me.

Sincerely,

5/30/2023

X  AUTHORIZED SIGNATURE

Thomas Alcamo

Remedial Project Manager

Signed by: THOMAS ALCAMO

cc: Doug Petroff, IDEM

Dave Mustafaga, Verdantas