

US EPA RECORDS CENTER REGION 5



534550

**FIFTH FIVE-YEAR REVIEW REPORT FOR
E.H. SCHILLING LANDFILL SUPERFUND SITE
LAWRENCE COUNTY, OHIO**



Prepared by

**U.S. Environmental Protection Agency
Region 5
Chicago, Illinois**

A handwritten signature in black ink, appearing to read "Margaret M. Guerriero", written over a horizontal dashed line.

**Margaret M. Guerriero
Acting Director
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A handwritten date "July 7, 2017" in black ink, written over a horizontal dashed line.

Date

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LIST OF ABBREVIATIONS & ACRONYMS

ARAR	Applicable or Relevant and Appropriate Requirement
CD	Consent Decree
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
EPA	United States Environmental Protection Agency
ESD	Explanation of Significant Differences
EW	Extraction well
FS	Feasibility Study
FYR	Five-Year Review
HI	Hazard Index
ICs	Institutional Controls
MCL	Maximum Contaminant Level
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
O&M	Operation and Maintenance
Ohio EPA	Ohio Environmental Protection Agency
PCBs	Polychlorinated Biphenyls
PID	Photoionization Detector
PRP	Potentially Responsible Party
RCRA	Resource Conservation and Recovery Act
RA	Remedial Action
RD	Remedial Design
RI	Remedial Investigation
ROD	Record of Decision
Site	E.H. Schilling Landfill Superfund Site
SVOCs	Semi-Volatile Organic Compounds
TBC	To be considered
TCL	Target Compound List
UECA	Uniform Environmental Covenants Act
USACE	United States Army Corps of Engineers
UU/UE	Unlimited Use/Unrestricted Exposure
VOCs	Volatile Organic Compounds

I. INTRODUCTION

The purpose of a Five-Year Review (FYR) is to evaluate the implementation and performance of a remedy in order to determine whether the remedy is and will continue to be protective of human health and the environment. The methods, findings, and conclusions of reviews are documented in FYR reports such as this one. In addition, FYR reports identify issues found during the review, if any, and document recommendations to address them.

The United States Environmental Protection Agency (EPA) is preparing this FYR pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 121, consistent with the National Contingency Plan (NCP)(40 CFR Section 300.430(f)(4)(ii)), and with EPA policy.

This is the 5th FYR for the E.H. Schilling Landfill Superfund Site (Site). The triggering action for this statutory review is the completion date of the previous FYR. The FYR has been prepared due to the fact that hazardous substances, pollutants, or contaminants remain at the Site above levels that allow for unlimited use and unrestricted exposure (UU/UE).

The completion of the current FYR confirms that components of the remedies selected in the 1989 E.H. Schilling Landfill Record of Decision (ROD) have been implemented and remain effective under the 1991 E.H. Schilling Remedial Design/Remedial Action (RD/RA) Consent Decree (CD) and RA Plan.

The E.H. Schilling Landfill Superfund Site FYR was led by Scott Hansen, EPA. Shannon Cook, State Project Manager with the Ohio Environmental Protection Agency (Ohio EPA), assisted in the review. Ohio EPA was notified of the initiation of the five-year review. The review began on 7/11/2016.

Site Background

The Site is located in Hamilton Township, Lawrence County, Ohio, approximately four miles southwest of the City of Ironton. It is situated in a valley draw incised into the west slope of a ridge separating Winkler Hollow (west of Site) from Schilling Hollow (east of Site), 0.8 miles north of the Ohio River, and approximately 0.5 miles north of U.S. Route 52. Vegetation over the landfill consists of poor quality grass and shrubs. The adjacent valley sides are heavily wooded. A tributary of Winkler Run extends from the base of the earthen dam along the valley floor to Winkler Run. The Site has rugged topography with high relief. Slopes in the area are generally steep with narrow ridge tops. It is estimated that 23,000 persons live within a four-mile radius of the Site.

The landfill was operated by E.H. Schilling and Son, General Contractors, Inc. The landfill began receiving waste in January 1969. It was developed largely as an exclusive landfill for the Dow Chemical plant in Hanging Rock, Ohio, and the USS Chemical (Aristech) plant in Haverhill, Ohio. In August 1971, Lawrence County licensed the landfill to accept non-hazardous dry industrial waste. Records indicate that Aristech Chemical Corporation, the Dow Chemical Company, Ashland Chemical Corporation, Associated Metals & Minerals, Inc. and Matlack, Inc. deposited hazardous waste at the landfill. During its operation, the landfill accepted a wide variety of hazardous industrial and non-hazardous wastes. The waste consisted of styrene monomer, phenol, acetone, alcohol, wastewater treatment sludge, coal tar compounds, polystyrene, and foam material. Following a series of permit violations, the Site ceased operations in July 1980.

The landfill was created by filling the valley draw with waste, and then constructing a steeply sloping earthen dam, about forty-five feet high, in a north-south orientation across the draw to contain the waste. The earthen dam is about sixteen feet wide along the crest.

The current land use of the surrounding area consists of a few residential properties located to the north and east of the Site. The Wayne National Forest extends north-south about 400 feet east of the Site. The Site itself is currently fenced.

FIVE-YEAR REVIEW SUMMARY FORM

SITE IDENTIFICATION		
Site Name: E.H. Schilling Landfill		
EPA ID: OHD980509947		
Region: 5	State: OH	City/County: Ironton/Lawrence County
SITE STATUS		
NPL Status: Final		
Multiple OUs? No	Has the site achieved construction completion? Yes	
REVIEW STATUS		
Lead agency: EPA <i>[If "Other Federal Agency", enter Agency name]:</i>		
Author name (Federal or State Project Manager): Scott Hansen		
Author affiliation: Remedial Project Manager		
Review period: 7/11/2016 - 5/18/2017		
Date of site inspection: 5/10/2017		
Type of review: Statutory		
Review number: 5		
Triggering action date: 7/11/2012		
Due date (five years after triggering action date): 7/11/2017		

II. RESPONSE ACTION SUMMARY

Basis for Taking Action

During the Remedial Investigation (RI), two sampling rounds were conducted. The first round of sampling was conducted in the spring of 1988 for landfill waste, leachate, surface soils, surface water, sediment, benthic organisms, and groundwater. A second round of sampling was performed in mid-December of 1988 for groundwater, leachate, and surface water.

The results of the RI revealed the following analytical results by media type in the vicinity of the landfill:

Surface Soils

A total of 35 surface soil samples were collected and analyzed for Target Compound List (TCL) chemicals. The analysis detected the presence of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), seven metals, and cyanide. The extent of contamination of surface soils on the landfill and dam primarily consists of those areas which are exposed to landfill leachate. Contamination of surface soils outside of the immediate landfill area is primarily limited to metals, which occur naturally in this region.

Sediments

Stream sediment samples were collected at six sample locations. The analysis of the sediment samples for TCL chemicals detected the presence of VOCs, SVOCs, and metals. This analysis revealed that the extent of the contaminated sediments is limited to the mid- to upper reaches of Winkler Run.

Surface Water

A total of six surface water samples were collected and analyzed for TCL chemicals. Test results detected the presence of metals.

Groundwater

Groundwater samples were collected from the eight monitoring well clusters at the Site. The groundwater samples were analyzed for TCL chemicals. Analysis of the groundwater samples detected the presence of VOCs, SVOCs and dissolved metals.

Air

Site-specific air quality data were collected and analyzed for total suspended particulates, heavy metals, and VOCs. Test results detected the presence of twenty metals. No VOCs were detected in the air samples collected.

Contaminants of Concern

The media affected by the Site's contamination include groundwater, surface water, sediments, leachate, landfill waste, soil and air. Since a significant number (74) of chemicals were detected at the Site, a

subset of indicator chemicals which represent the highest risk potential to human health and the environment was used. The following is a list of the indicator chemicals.

- 1,2 Dichloroethane
- Benzene
- Benzo(a)pyrene
- Ethylbenzene
- Heptachlor
- Phenol
- Styrene
- Arsenic
- Manganese
- Nickel

Risk Characterization

Potential Receptors

A four mile radius surrounding the Site was used to determine potential human receptors. The area is primarily undeveloped land and the area immediately surrounding the Site is rural. It was estimated that 23,000 persons live within the four-mile radius. Potentially sensitive subgroups of the population are children, (0-14 years), women of child-bearing age (15-34 years), and elderly (65 years and greater).

Exposure Routes

An exposure route is the mechanism by which a chemical within an environmental transport medium at an exposure point can enter the receptor. For example, an exposure route would be ingestion of water from a contaminated well. An exposure pathway consists of four components:

- A source and mechanism of chemical release to the environment.
- An environmental transport medium (groundwater, surface water, etc.).
- A point of potential receptor contact with the contaminated medium.
- A receptor exposure route (ingestion, inhalation, and dermal contact).

Risk Assessment

The risk assessment for the Site evaluated the site-specific physical and analytical data in characterizing potential risks to human health and the environment in the absence of any RA at the Site. Twenty-nine complete human receptor and thirty-seven complete environmental receptor exposures pathways existed at the Site based on ten indicator chemicals.

The potential risks to human health were determined for dermal exposure, oral ingestion and inhalation on a media-specific basis for each of the indicator chemicals. EPA determined that the upper bound acceptable risk for exposure to carcinogens at the Site was 1×10^{-6} . In addition, EPA determined that the upper bound acceptable risk for exposure to non-carcinogens at the Site was a Hazard Index (HI) of less than 1.

The risk characterization exposure via inhalation was evaluated by summing over all media (i.e. most conservative approach). The results indicated that inhalation did not present an unacceptable risk to human health. Exposure via ingestion and dermal contact was also summed over all media. The results indicated that exposure via ingestion and dermal contact potentially posed unacceptable risk. The site-specific and national average natural background concentrations of arsenic and manganese, the two inorganic indicator chemicals which exceed groundwater screening levels, were within the expected ranges for those metals in all media types at the Site.

Given the results of the risk characterization, and considering the conservative assumptions that were used throughout the risk calculation process, unacceptable risks were present. Detailed risk calculations were not developed for the environmental receptors because it was assumed that the risks determined for human exposure would be protective for both receptor types.

Response Actions

EPA and Ohio EPA involvement dates back to 1979 when preliminary Site studies and limited data collection was conducted. In 1983, an Ohio EPA letter identified a number of listed hazardous materials as being present in samples collected at the base of the earthen dam. These samples were taken from soil, leachate, and surface water. At that time, active leachate seeps were noted at several points along the base of the earthen dam.

In September 1983, EPA placed the Site on the National Priorities List (NPL). The final Remedial Investigation/Feasibility Study reports were released in August 1989.

On September 29, 1989, EPA signed a ROD that included the following remedy components:

- Dewatering and treating of approximately 7,000,000 gallons of leachate and liquid waste from within the landfill. The on-site treatment system consists of metals precipitation using sulfide, air stripping and carbon adsorption.
- Construction of a 3-acre Resource Conservation and Recovery Act (RCRA) Subtitle C cap over approximately 100,000 cubic yards of waste.
- Consolidation under the landfill cap of 500 cubic yards of sediment and 750 cubic yards of soil downgradient from the earthen dam.
- Construction of a perimeter cut-off wall, consisting of a grout curtain for the bedrock and a slurry wall for the unconsolidated zones. The cut-off wall prevents lateral infiltration of groundwater into the landfill.
- Installation of a perimeter interceptor drain outside the cut-off wall to control overtopping of the cut-off wall and drain groundwater away.
- Construction of a clay berm to obtain the required factor of safety of greater than 1.5 for long-term stability of the earthen dam.

- Long-term maintenance, security and restrictions on future land use. The ROD stated that, in this case, a deed restriction is required as long as the landfill cap is necessary to prevent unacceptable exposure. Furthermore, the deed restrictions for the Site dictate that: 1) there shall be no tampering with, or removal of, the containment or monitoring systems that remain on the Site as a result of implementation of remedial action under the CD; and 2) there shall be no other interference with the performance of work and remedial action, or with the maintenance of remedial measures implemented pursuant to the CD.
- Treatment and discharge of water under the National Pollutant Discharge Elimination System (NPDES) effluent limitations.
- Quarterly monitoring of all monitoring wells. If groundwater exceeds action-based levels, groundwater will be collected and treated in the on-site treatment system.
- Cleanup levels are to correspond to the elimination of all cumulative carcinogenic risks greater than 1×10^{-6} and a remaining cumulative non-carcinogenic HI of less than or equal to 1.

The selected remedy uses permanent treatment systems to eliminate the principal threat posed to human health and the environment by extracting the leachate and treating the contaminated groundwater.

In addition, during the early stages of the RD, a treatability study was performed on the leachate and liquid waste from within the landfill. The results from the treatability study suggested that there would be significant improvement in the treatment system if the air stripping tower were replaced with a biological system. The treatability study also indicated that metals precipitation with sulfide would not be as effective as using sodium hydroxide as the reagent. Therefore, after review of the analysis, EPA determined that an Explanation of Significant Differences (ESD) was needed to change the treatment system technology. EPA signed the ESD on February 28, 1992.

Status of Implementation

On-site remedial activities began on June 17, 1992. EPA used the United States Army Corps of Engineers (USACE) to oversee the potentially responsible parties' (PRPs) construction activities. The PRPs also used a remedial design firm to ensure the contract specifications were adhered to by the construction firm.

During the RA activities, three major changes occurred: 1) at the start of the construction, in preparation for the grout curtain/slurry wall, an area outside the landfill limits was discovered which contained degraded drums and contaminated soil. Approximately 5,000 cubic yards of the newly discovered contaminated soil was excavated along with clean surrounding soil and used as fill material to bring the landfill up to grade. The perimeter cut-off wall and landfill cap were extended to near the newly excavated area; 2) pursuant to the ROD, an estimated 1,300 cubic yards of soil and sediment downgradient from the earthen dam was scheduled to be excavated and consolidated under the landfill cap. After soil and sediment analysis, the volume consolidated under the cap increased to 3,070 cubic yards; 3) during the perimeter cut-off wall installation, rock elevation was higher than anticipated which decreased by one-half the length of the slurry wall through the unconsolidated zones surrounding the landfill. In addition, more than 3,100 cubic yards of grout was pumped into the bedrock fractures under and surrounding the landfill, over five times the estimated amount.

For the contaminated groundwater and leachate extraction and treatment system, the PRPs installed a total of four extraction wells (EW-1 through EW-4). A treatment plant was constructed on-site, where the extracted groundwater and leachate is treated prior to discharge to an adjacent creek in accordance with NPDES discharge requirements. The ROD estimated that the groundwater extraction and treatment system would need to operate for a period of 30 years. EPA conducted a final inspection of the groundwater extraction and treatment system on August 3, 1993. At that time, it was determined that the groundwater and leachate extraction and treatment system was constructed as designed. The system began operation on August 3, 1993.

In August 1993, with the signing of the Preliminary Close-Out Report, EPA determined that the Site achieved construction completion status. EPA and the state determined that all RA construction activities were performed according to specifications. EPA will issue a Final Close-Out Report after groundwater and soil cleanup levels have been met. This will require that all areas of the Site with contamination be verified as clean through soil sampling.

Institutional Controls

Institutional controls (ICs) are non-engineered instruments, such as administrative and legal controls that help to minimize the potential for exposure to contamination and that protect the integrity of the remedy. ICs are required to assure long-term protectiveness for any areas which do not allow for UU/UE. ICs are also required to maintain the integrity of the remedy. The 1989 ROD included the imposition of proprietary restrictions and other ICs to prevent future development of the Site and assures the integrity of the RA. The restrictions, denoted as “Deed Restrictions,” were attached to the 1991 RD/RA CD. They were recorded in Lawrence County in September 1993. A copy of the restrictions is included as Attachment 1. While the restrictions implemented under the RD/RA CD have served the valuable function of notice, in the exercise of caution, in 2012 EPA sought to replace those restrictions with a covenant that complied with Ohio’s version of the Uniform Environmental Covenants Act (UECA), and, after determining that the Site owner was deceased, sought his beneficiary’s assistance. EPA was not able to obtain that individual’s signature on the UECA covenant. However, as they provide notice to future users, the deed restrictions currently in place are expected to protect the integrity of the landfill cap, the leachate extraction system and all other components of the RA.

The Site is fenced and the gate is locked. The gate is checked as part of the Site operator’s daily duties, and the fence is subject to regular inspections. A use restriction for the Site property has been recorded. The restriction was intended to prevent the development and use of land within the Site boundary, assures the integrity of the landfill and other remedy components, and prohibits use of the groundwater.

The following table summarizes the ICs that are in place at the Site.

Table 1: Summary of Planned and/or Implemented ICs¹

Media, engineered controls, and areas that do not support UU/UE based on current conditions	ICs Needed	ICs Called for in the Decision Documents	Impacted Parcel(s)	IC Objective	Title of IC Instrument Implemented and Date (or planned)
Site boundary/site area	Yes	Yes	See Attachment 1	Prohibits use of land underlying the Site	Deed restriction recorded at Lawrence County Recorder's Office on 9/23/1993
Groundwater area that exceed cleanup levels	Yes	Yes	See Attachment 1	Prohibits consumptive or other use of groundwater until cleanup standards met	Deed restriction recorded at Lawrence County Recorder's Office on 9/23/1993
Subtitle C landfill	Yes	Yes	See Attachment 1	Prohibits use of land underlying the Site, and assures integrity	Deed restriction recorded at Lawrence County Recorder's Office on 9/23/1993
RA components such as wells, berm, and cut-off wall	Yes	Yes	See Attachment 1	Prohibits use of land underlying the Site, and assures integrity of remedy components	Deed restriction recorded at Lawrence County Recorder's Office on 9/23/1993

A map showing the area in which the ICs apply is included as Figure 2.

Current compliance

Based on inspections and interviews, EPA finds there is no evidence of a cap breach and the existing use is consistent with the objectives of the landfill cap and land use restrictions. Also, there is no evidence of groundwater uses at the Site which are inconsistent with the IC objectives.

Long-Term Stewardship

Long-term stewardship (LTS) procedures are not yet in place. Since compliance with ICs is necessary to assure the protectiveness of the remedy, LTS is required to ensure that the ICs are maintained, monitored and enforced so that the remedy continues to function as intended. LTS involves assuring effective procedures are in place to properly maintain and monitor the Site, such as regular inspection of engineering controls and access controls at the Site and review of the ICs at the Site. Annual IC reports

¹ Please refer to "*A Guide to Preparing Superfund Proposed Plans, Records of Decision, and Other Remedy Selection Decision Documents.*" USEPA. July 1999. Also please refer to "*Institutional Controls: A Guide to Planning, Implementing, Maintaining, and Enforcing Institutional Controls at Contaminated Sites (PIME).*" USEPA. December 2012; and "*Recommended Evaluation of Institutional Controls: Supplement to the 'Comprehensive Five-Year Review Guidance'*" USEPA (September 2011).

with review of and certification to EPA that ICs are in place and effective are provided. Development of a communications plan and use of the State's one call system should be explored.

Plans incorporating LTS procedures (e.g., an LTS Plan or incorporation of LTS procedures into the Site Operation and Maintenance (O&M) Plan) should include the mechanisms and procedures for inspecting and monitoring compliance with the ICs as well as communications procedures. An annual report should be submitted to EPA to demonstrate that the Site was inspected to ensure no inconsistent uses have occurred, to certify that ICs remain in place and are effective, and to document that any necessary contingency actions have been executed.

IC Follow-up Actions Needed

A LTS Plan will be developed, or the O&M Plan will be updated to include procedures for long-term stewardship.

Systems Operations/Operation & Maintenance

The PRPs are performing O&M of the groundwater extraction and treatment system in accordance with the Leachate Treatment System Operation and Maintenance Plan. Pursuant to that plan, the effluent from the treatment system is monitored on a monthly and semi-annual basis. Inspections of the physical plant are also carried out during those monitoring events.

Groundwater monitoring has been performed pursuant to the details outlined in the Groundwater Monitoring Plan to ensure hydraulic capture and removal of leachate is occurring and that chemical levels in the groundwater are decreasing. Analyses being performed include the chemicals of concern listed in the ROD and CD and those parameters required under the NPDES discharge requirements issued by Ohio EPA. EPA, in consultation with Ohio EPA, will certify completion of the groundwater remediation once it has been demonstrated that cleanup levels have been attained and maintained for all chemicals of concern listed in the ROD and CD.

Based on the operating flow data, as of March 2017 the groundwater and leachate collection and treatment system has pumped approximately 5.5 million gallons of contaminated water and treated approximately 5 million gallons. Since the fourth quarter of 1993, the monitoring network of wells has been sampled quarterly through 1996, and semi-annually since then.

Landfill cap maintenance involves inspection and repair of any soil burrowing or erosion locations, and mowing of the landfill surface as needed.

III. PROGRESS SINCE THE LAST REVIEW

This section includes the protectiveness determinations and statements from the last FYR as well as the recommendations from the last FYR and the current status of those recommendations.

Table 2: Protectiveness Determinations/Statements from the 2012 FYR

OU #	Protectiveness Determination	Protectiveness Statement
OUI & Sitewide	Short-term Protective	The assessment of this five-year review has found that the remedy at the E.H. Schilling Landfill Superfund site is protective of human health and the environment in the short term since all known exposure pathways have been eliminated. However, in order for the remedy to be protective in the long term, groundwater cleanup standards based on Safe Drinking Water Act MCLs, risk-based levels, and State of Ohio criteria for protection of groundwater quality will need to be met, and a legally effective use restriction that protects the integrity of the landfill cap and other remedy components and prohibits site groundwater use will need to be implemented and maintained. Long-term protectiveness requires compliance with effective ICs, which for the E.H. Schilling Landfill include groundwater use restrictions and land use restrictions that prohibit interference with the landfill cap and on-site soil.

Table 3: Status of Recommendations from the 2012 FYR

OU #	Issue	Recommendations	Current Status	Current Implementation Status Description	Completion Date (if applicable)
1/ Sitewide	Erosion on the face of the dam and near the gabion wall and a blowout/erosion area near the north side culvert/ditch is occurring	Implement erosion control measures	Ongoing	See Recommendation #1 below	9/29/2017
1/ Sitewide	Gas monitoring needed	Sample gas vents	Completed	See Recommendation #2 below	6/27/2014
1/ Sitewide	Institutional controls need to be implemented	Sign and record a UECA covenant	Considered but not implemented	See Recommendation #3 below	6/30/2013

Recommendation # 1

Due to the steep bank on the face of the dam, erosion problems will likely continue. Therefore, fixing the eroded areas will be an ongoing O&M activity.

Recommendation # 2

The PRPs prepared a landfill gas monitoring plan at the request of Ohio EPA to monitor potential soil gas migration. This request was raised during the May 2, 2012 Site inspection and in the 2012 FYR Report. Ohio EPA's concern was to evaluate potential off-site migration of gas and specifically to assess possible migration of vapors from the landfill to structures within 1,000 feet of the boundary of the buried waste (landfill boundary). The PRPs evaluated the area around the landfill to account for all occupied structures within 1,000 feet of the landfill boundary. This evaluation included: the on-site treatment building and two residences. Each residence also had a garage and out-building within the threshold distance.

Gas monitoring was conducted in two areas: (1) inside the on-site treatment building and (2) from three shallow sampling points located within the Site boundary between the landfill boundary and the occupied structures. Two explosive gas alarms were installed inside the on-site treatment building, as specified in the Plan. Gases are still monitored in the treatment building. To date, no vapors have been detected above alarm thresholds. Three shallow soil gas points were installed in May 2013. Ohio EPA was on-site to observe the locations of the shallow gas points and the installation methodology.

The PRPs monitored the soil gas points on a semi-annual basis from May 2013 to May 2014 to evaluate explosive gas migration by measuring and recording extracted volatile vapors using a field-calibrated PID.

Key observations and PRPs' conclusions from the Landfill Gas Monitoring include:

- Gas monitoring within the Treatment Building is ongoing with two explosive gas alarms. These explosive gas alarms will continue to be operated. To date, no alarms have ever been recorded.
- The results of the soil gas sampling using a MultiRAE Pro were mixed:
 - At least one sample was successfully collected from each sample location ;
 - All photoionization detector (PID) readings have been zero or very close to background readings;
 - Two sample locations stopped producing vapor despite our significant efforts to evaluate and repair the sample locations; and
 - Based on the information collected over the past year and operation of the landfill for over 20 years, there is no indication that explosive gases have migrated towards nearby structures.

In 2014, the PRPs and Ohio EPA mutually agreed that no additional soil gas sampling appeared necessary; however, written documentation should be prepared and submitted to Ohio EPA that includes the historical monitoring results of each constituent measured during each of the previous gas monitoring events (e.g., Lower Explosive Level [LEL], hydrogen sulfide, carbon monoxide, percentage oxygen, and volatile organic compounds). See summary of soil gas sampling in Table 6.

Recommendation # 3

In 2012, EPA attempted to replace the deed restrictions with a covenant that complied with Ohio's version of the UECA, and sought the current owner's consent, the original owner having passed away. EPA was not able to obtain the current owner's signature on the UECA environmental covenant. However, the deed restrictions currently in place are expected to protect the integrity of the landfill cap, the leachate extraction system and all other components of the RA, and prohibit use of the groundwater.

IV. FIVE-YEAR REVIEW PROCESS

Community Notification, Involvement & Site Interviews

The completed fifth FYR Report and background data will be available in the Site information repository at the Briggs Lawrence County Public Library, 321 S. 4th St., Ironton, OH and on EPA's website for public viewing. EPA intended to place an advertisement notice regarding the five-year review process in the local newspaper, but due to an administrative error the public notice advertisement was placed in the Ironton Tribune newspaper for public review. EPA will place a public notice in the newspaper regarding the completion of the FYR after the report is issued.

Data Review

Groundwater monitoring has been occurring at this Site since November 1993. As part of this FYR, EPA reviewed comprehensive Site reports including the Semi-Annual Groundwater Monitoring Results from 2013 through 2016 and the Monthly Status reports. These reports include the most recent results from the Site groundwater monitoring wells along with groundwater effluent data. To help facilitate access to the groundwater monitoring wells and ensure quality of environmental data from groundwater sampling, all the Site's monitoring wells were inspected, assessed, and refurbished where necessary in May 2013. This involved disassembling and removing the protective wooden structures and all the associated pumps, electrical wiring and piping from each of the sixteen (16) Site monitoring wells. Seven (7) of the 16 monitoring wells were re-developed in June 2013 (prior to sampling due to silt accumulation) to allow all monitoring wells to be sampled again which allowed for a better understanding of the groundwater quality conditions across the Site.

Sampling was conducted quarterly from 1993 to 1996 and semi-annually since then. Analysis of the samples includes VOCs, SVOCs, and metals. Table 4 includes the semi-annual groundwater monitoring results from 2013 - 2016. The monitoring results show that the parameter results are staying consistent or decreasing. Table -52 includes the effluent sample results from 2013 - 2016. The effluent sample results show that the treated groundwater meets the discharge requirements.

Water treated and discharged at the landfill since 1993 has been regulated under the NPDES discharge requirements issued by Ohio EPA. Samples of effluent are collected prior to discharge and analyzed for VOCs, SVOCs, pesticides/polychlorinated biphenyls (PCBs), total metals, free cyanide, ammonia nitrogen, pH, total suspended solids (TSS), biological oxygen demand (BOD), and oil and grease. Historically the discharge has been in compliance with the exception of one exceedance recorded in March 1993, for oil and grease. As a result of this exceedance, carbon filter units were changed out and no problems have been encountered since.

In June 2015, the PRPs submitted a request to EPA to idle the landfill dewatering and treatment system. The PRP's request is currently under review. EPA and Ohio EPA have recommended that gas sampling be conducting during the pilot test for idling the landfill dewatering and treatment system. The three soil gas locations remain in-place with the ability to conduct further vapor sampling upon request of EPA or Ohio EPA.

Site Inspection

The inspection at the Site as part of this FYR was conducted on May 10, 2017. In attendance were: Scott Hansen, EPA; Shannon Cook, Ohio EPA; Ross Tabachow, Excalibur Group; and James Scherer and Jeremy Blevins, IMC, Inc. The purpose of the inspection was to assess the protectiveness of the remedy, including the presence of fencing to restrict access, the integrity of the landfill cap, and general conditions of the Site treatment system.

A walk was taken around the surface of the landfill as well as areas on the face of the dam. Site access is available through a locked gate which secures the Site landfill and the treatment building. The Site Inspection Checklist was completed by EPA and is included as Attachment 2.

The landfill cap over most of the Site appeared to be in good condition and well vegetated. However, soil erosion and soil burrowing were noted on the face of the dam.

V. TECHNICAL ASSESSMENT

QUESTION A: Is the remedy functioning as intended by the decision documents? **Yes**

Question A Summary:

Remedial Action Performance: The remedies selected in the 1989 ROD have been implemented and remain functional, operational and effective. Continued maintenance and monitoring of the Site hazardous waste cap and groundwater/leachate extraction and treatment system inside the security perimeter fence, and groundwater monitoring will ensure that the remedy remains protective.

Cost of System Operations/O&M: Current annual O&M costs are not available since the Site is an enforcement lead and the PRPs are not required to provide that information. The 1989 ROD estimated that annual O&M costs would be approximately \$100,000.

Opportunities for Optimization: Due to the steep bank on the face of the dam, erosion problems will likely continue. Therefore, fixing the eroded areas will be an ongoing O&M activity.

Early Indicators of Potential Remedy Failure: No early indicators of potential remedy failure were noted during the review. Maintenance activities have been consistent with expectations, and groundwater monitoring results from the semi-annual monitoring reports show that the parameter results are staying consistent or decreasing.

Implementation of Institutional Controls and Other Measures: The 1989 ROD required imposition of proprietary use restrictions and other ICs to prevent future development of the Site, assure the integrity of the RA, and prohibit groundwater use. Site access and use is restricted with a security perimeter fence. Deed restrictions for the Site property which provide notice of

the need to restrict development on the landfill cap and protect the integrity of remedial components have been in place.

QUESTION B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection still valid? **Yes**

Question B Summary:

Changes in Standards and To Be Considered: Standards outlined in the 1989 ROD and the 1997, 2002, 2007 and 2012 FYR reports are still valid at the E.H. Schilling Site.

Changes in Exposure Pathways: No changes in the Site conditions that affect exposure pathways were identified as part of the FYR. There are no current or known planned changes in the Site land use.

Changes in Risk Assessment Methodologies: Changes in risk assessment methodologies since the Fourth FYR are not significant and do not call into question the protectiveness of the remedy.

QUESTION C: Has any other information come to light that could call into question the protectiveness of the remedy? **No**

No other information has come to light that calls into question the protectiveness of the remedy.

VI. ISSUES/RECOMMENDATIONS

Issues/Recommendations	
OU(s) without Issues/Recommendations Identified in the Five-Year Review:	
None	

Issues and Recommendations Identified in the Five-Year Review:				
---	--	--	--	--

OU(s): Sitewide	Issue Category: Operations and Maintenance			
	Issue: Erosion and soil burrowing at the face of the dam.			
	Recommendation: Fix areas as needed.			
Affect Current Protectiveness	Affect Future Protectiveness	Party Responsible	Oversight Party	Milestone Date
No	Yes	PRP	EPA/State	9/29/2017

OU(s): Sitewide	Issue Category: Institutional Controls			
	Issue: Documents and procedures should be developed and implemented to ensure that implemented ICs are effective and properly maintained, monitored, and enforced.			
	Recommendation: Develop a LTS Plan, or incorporate LTS procedures into the Site O&M Plan.			
Affect Current Protectiveness	Affect Future Protectiveness	Party Responsible	Oversight Party	Milestone Date
No	Yes	PRP	EPA/State	9/28/2018

VII. PROTECTIVENESS STATEMENT

OUI and Sitewide Protectiveness Statement	
<i>Protectiveness Determination:</i> Short-term Protective	
<i>Protectiveness Statement:</i> The remedy at the E.H. Schilling Landfill Superfund site is currently protective of human health and the environment because the remedy is functioning as intended and all known exposure pathways have been eliminated. However, in order for the remedy to be protective in the long term, the following actions need to be taken to ensure protectiveness: areas of erosion and burrowing on the face of the dam need to be repaired, and a LTS Plan or an amendment to the O&M Plan incorporating LTS procedures needs to be developed and implemented.	

VIII. NEXT REVIEW

The next FYR report for the E.H. Schilling Landfill Superfund Site is required no less than five years from EPA's signature date of this review.

APPENDIX A – REFERENCE LIST













- Fourth Five-Year Review Report, July 2012
- Third Five-Year Review Report, July 2007
- Second Five-Year Review Report, September 2002
- First Five-Year Review Report, March, 1997
- RD/RA Consent Decree, May 1991
- Record of Decision, September 1989
- E.H. Schilling site file and monthly status reports
- Semi-Annual Groundwater Monitoring Results

FIGURES

FIGURE 1

Site Layout Map

LEGEND

-  MONITORING WELL
-  EXTRACTION WELL
-  PIEZOMETER
-  APPROX. LOCATION OF THREE ON-SITE PERMANENT SOIL GAS MONITORS
-  FENCE LINE
-  PROPERTY BOUNDARY (APPROXIMATE)
-  ADJOINING PARCEL BOUNDARY
-  TREE LINE
-  PERIMETER GROUT CURTAIN / SLURRY WALL
-  APPROX. EXTENT OF RCRA SUBTITLE C LANDFILL CAP
-  TOP OF EARTHEN DAM
-  APPROXIMATE EXTENT OF LANDFILL COVER

- NOTES:**
1. PLAN BASED ON SURVEY BY APX ENGINEERS AND SURVEYORS, TITLED "PARTIAL ASBUILT SURVEY, DATED 11/14/05.
 2. THIS PLAN DOES NOT PURPORT TO REFLECT A BOUNDARY SURVEY.
 3. ELEVATIONS SHOWN HEREON WERE BASED ON SCIOTO COUNTY GIS MONUMENT #0024, ELEV. = 551.042 (NAVD 88), UTILIZING GPS.
 4. MONITORING WELL NOMENCLATURE: "A" SERIES (E.G., MW-7A) = SHALLOW OVERBURDEN/BEDROCK WELL; "B" SERIES (E.G., MW-7B) = DEEPER BEDROCK WELL

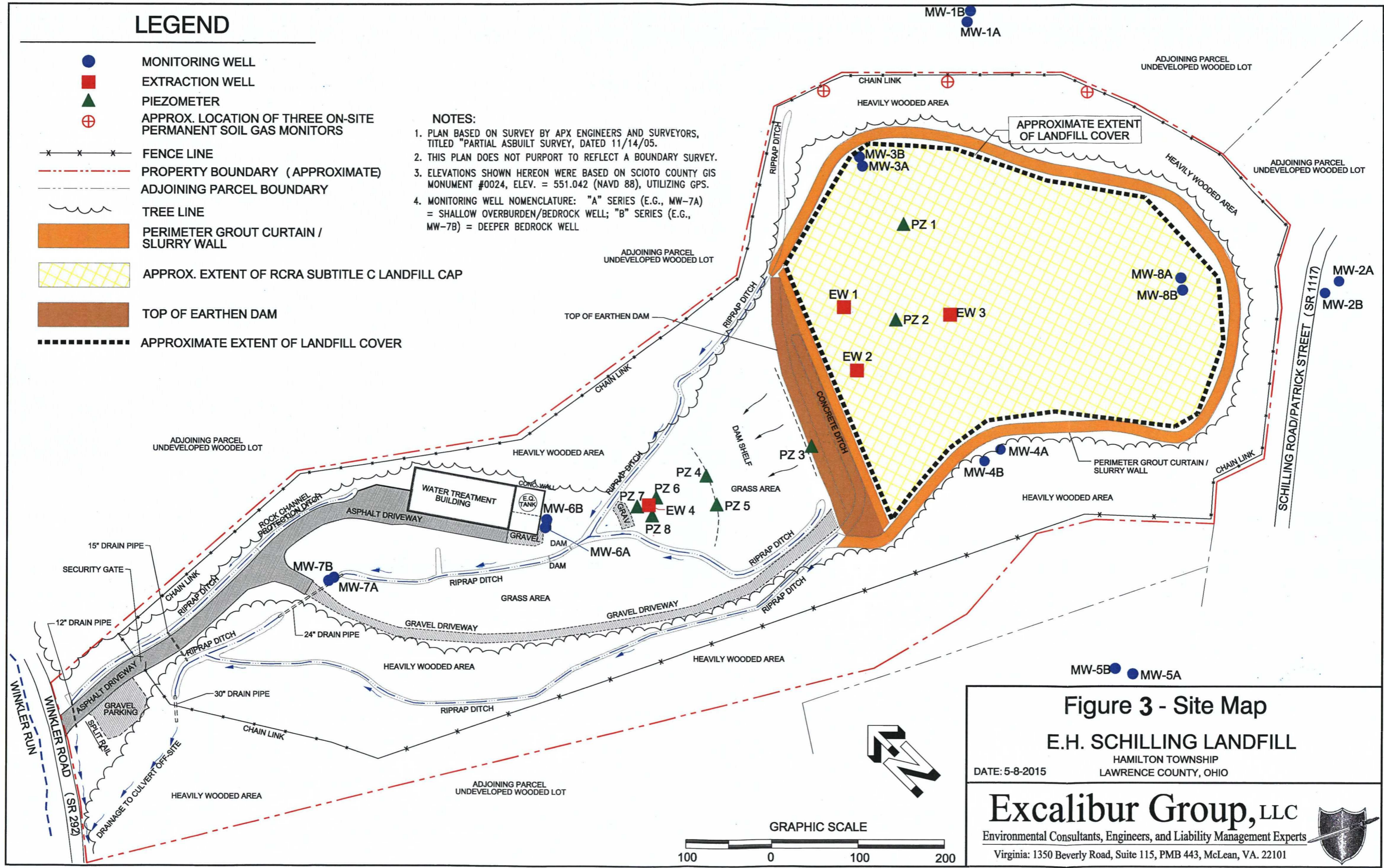


Figure 3 - Site Map
E.H. SCHILLING LANDFILL
 HAMILTON TOWNSHIP
 LAWRENCE COUNTY, OHIO

DATE: 5-8-2015

Excalibur Group, LLC
 Environmental Consultants, Engineers, and Liability Management Experts

Virginia: 1350 Beverly Road, Suite 115, PMB 443, McLean, VA. 22101

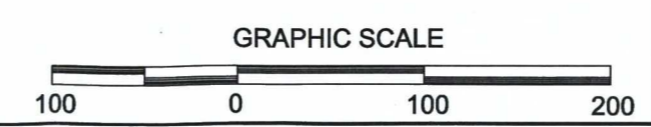


FIGURE 2

Site Base Map




E.H. Schilling Landfill
Lawrence County, OH

OHD980509947



Legend

 EH Schilling Landfill Boundary

0 300 600
Feet



RPM: Scott Hansen

Created by Sarah Backhouse
U.S. EPA Region 5 on 9/26/06

TABLES

TABLE 4

Groundwater Monitoring Results

Table 4 - Groundwater Analytical Results
 2nd 2016 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-1B 11/9/2016	MW-2B 11/9/2016	MW-3A 11/7/2016	MW-3B 11/7/2016	MW-4A 11/8/2016
VOCs (mg/L)							
1,1,1-Trichloroethane	71-55-6	0.2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-35-4	0.007	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone	78-93-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Hexanone	591-78-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Methyl-2-pentanone	108-10-1		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Acetone	67-64-1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzene	71-43-2	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	75-15-0		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	75-00-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloromethane	74-87-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	156-59-2	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	0.06	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	0.7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Methylene Chloride	75-09-2	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Styrene	100-42-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	127-18-4	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	10	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
SVOCs (mg/L)							
1,2,4-Trichlorobenzene	120-82-1	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	0.6	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	0.075	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4,5-Trichlorophenol	95-95-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrophenol	51-28-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrotoluene	121-14-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,6-Dinitrotoluene	606-20-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Chloronaphthalene	91-58-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Chlorophenol	95-57-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylnaphthalene	91-57-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylphenol	95-48-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitroaniline	88-74-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitrophenol	88-75-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3,3'-Dichlorobenzidine	91-94-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3-Nitroaniline	99-09-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methyl-4,6-Dinitrophenol	534-52-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromophenyl-phenylether	101-55-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chloro-3-methylphenol	59-50-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chloroaniline	106-47-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chlorophenyl-phenylether	7005-72-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3&4-Methylphenol	106-44-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Nitroaniline	100-01-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Nitrophenol	100-02-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthene	83-32-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthylene	208-96-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Anthracene	120-12-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Notes:
 Blank cell - No data available **Bold** - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value
 X - Detected in the Method Blank between the MDL and PQL
 Blue font - Detected above method detection limit
 NA - Not Analyzed

Table 4 - Groundwater Analytical Results
 2nd 2016 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-1B 11/9/2016	MW-2B 11/9/2016	MW-3A 11/7/2016	MW-3B 11/7/2016	MW-4A 11/8/2016
Benzo(a)anthracene	56-55-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(a)pyrene	50-32-8	0.0002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(b)fluoranthene	205-99-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(g,h,i)perylene	191-24-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(k)fluoranthene	207-08-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bis(2-chloroethoxy)methane	111-91-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bis(2-chloroisopropyl)ether	108-60-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	0.006	0.0012 J	0.0012 J	0.001 J	0.11	0.00091 J
Butyl benzyl phthalate	85-68-7		< 0.005	< 0.005	< 0.005	< 0.005	0.00063 J
Carbazole	86-74-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chrysene	218-01-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dibenz(a,h)anthracene	53-70-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dibenzofuran	132-64-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl phthalate	84-66-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethylphthalate	131-11-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Di-n-butyl phthalate	84-74-2		< 0.005	< 0.005	0.00054 J	< 0.005	0.00055 J
Di-n-octyl phthalate	117-84-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoranthene	206-44-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluorene	86-73-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobenzene	118-74-1	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorocyclopentadiene	77-47-4	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachloroethane	67-72-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Indeno(1,2,3-cd)pyrene	193-39-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	78-59-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	91-20-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Nitrobenzene	98-95-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-nitro-sodi-n-propylamine	621-64-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-Nitrosodiphenylamine	86-30-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Pentachlorophenol	87-86-5	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenanthrene	85-01-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenol	108-95-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Pyrene	129-00-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Metals (mg/L)							
Mercury	7439-97-6	0.002	< 0.0002	< 0.0002	< 0.0002	0.00008 J	< 0.0002
Antimony	7440-36-0	0.006	0.00054 JX	0.00073 JX	0.00023 J	0.0046 J	< 0.005
Arsenic	7440-38-2	0.01	0.0028 JX	0.0019 JX	0.0022 J	0.029	< 0.005
Beryllium	7440-41-7	0.004	< 0.002	< 0.002	< 0.002	0.0061	< 0.002
Cadmium	7440-43-9	0.005	< 0.002	0.000079 J	0.000081 J	0.0037	< 0.002
Chromium	7440-47-3	0.1	0.052	0.052	0.08	3.3	0.023
Copper	7440-50-8	1.3	0.0039 J	0.0042 J	0.0069	0.45	0.0016 J
Lead	7439-92-1	0.015	0.0014 JX	0.0014 JX	0.00055 J	0.035	< 0.005
Nickel	7440-02-0		0.029	0.033	0.1	1	0.0087
Silver	7440-22-4		< 0.005	< 0.005	0.00014 J	0.00077 J	0.00024 J
Zinc	7440-66-6		0.0099 JX	0.021 X	* 0.075	4.5	0.0056 J

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value
 X - Detected in the Method Blank between the MDL and PQL
 Blue font - Detected above method detection limit
 NA - Not Analyzed

Table 4 - Groundwater Analytical Results
 2nd 2016 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-4B 11/8/2016	MW-5A 11/9/2016	MW-5B 11/9/2016	MW-6A 11/8/2016	MW-6B 11/8/2016	MW-7A 11/8/2016	MW-7B 11/8/2016
VOCs (mg/L)									
1,1,1-Trichloroethane	71-55-6	0.2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-35-4	0.007	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	0.005	< 0.001	< 0.001	< 0.001	0.0022	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone	78-93-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Hexanone	591-78-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Methyl-2-pentanone	108-10-1		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Acetone	67-64-1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzene	71-43-2	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	75-15-0		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	75-00-3		< 0.001	< 0.001	< 0.001	0.0066	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloromethane	74-87-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	156-59-2	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	0.06	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	0.7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Methylene Chloride	75-09-2	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Styrene	100-42-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	127-18-4	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	0.02	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7		< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
SVOCs (mg/L)									
1,2,4-Trichlorobenzene	120-82-1	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	0.6	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	0.075	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4,5-Trichlorophenol	95-95-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrophenol	51-28-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrotoluene	121-14-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,6-Dinitrotoluene	606-20-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Chloronaphthalene	91-58-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Chlorophenol	95-57-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylnaphthalene	91-57-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylphenol	95-48-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitroaniline	88-74-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitrophenol	88-75-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3,3'-Dichlorobenzidine	91-94-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3-Nitroaniline	99-09-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methyl-4,6-Dinitrophenol	534-52-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromophenyl-phenylether	101-55-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chloro-3-methylphenol	59-50-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chloroaniline	106-47-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chlorophenyl-phenylether	7005-72-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3&4-Methylphenol	106-44-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Nitroaniline	100-01-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Nitrophenol	100-02-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthene	83-32-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthylene	208-96-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Anthracene	120-12-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value
 X - Detected in the Method Blank between the MDL and PQL
 Blue font - Detected above method detection limit
 NA - Not Analyzed

Table 4 - Groundwater Analytical Results
 2nd 2016 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-4B 11/8/2016	MW-5A 11/9/2016	MW-5B 11/9/2016	MW-6A 11/8/2016	MW-6B 11/8/2016	MW-7A 11/8/2016	MW-7B 11/8/2016
Benzo(a)anthracene	56-55-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(a)pyrene	50-32-8	0.0002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(b)fluoranthene	205-99-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(g,h,i)perylene	191-24-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(k)fluoranthene	207-08-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bis(2-chloroethoxy)methane	111-91-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bis(2-chloroisopropyl)ether	108-60-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	0.006	0.0023 J	0.0011 J	0.0011 J	< 0.005	0.001 J	< 0.005	0.00092 J
Butyl benzyl phthalate	85-68-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbazole	86-74-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chrysene	218-01-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dibenz(a,h)anthracene	53-70-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dibenzofuran	132-64-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl phthalate	84-66-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethylphthalate	131-11-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Di-n-butyl phthalate	84-74-2		0.00057 J	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00059 J
Di-n-octyl phthalate	117-84-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoranthene	206-44-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluorene	86-73-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobenzene	118-74-1	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorocyclopentadiene	77-47-4	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachloroethane	67-72-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Indeno(1,2,3-cd)pyrene	193-39-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	78-59-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	91-20-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Nitrobenzene	98-95-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-nitro-sodi-n-propylamine	621-64-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-Nitrosodiphenylamine	86-30-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Pentachlorophenol	87-86-5	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenanthrene	85-01-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenol	108-95-2		< 0.005	< 0.005	< 0.005	0.0034 J	< 0.005	< 0.005	< 0.005
Pyrene	129-00-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Metals (mg/L)									
Mercury	7439-97-6	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Antimony	7440-36-0	0.006	0.00051 J	0.00041 JX	0.00096 JX	< 0.005 X	0.00057 JX	< 0.005 X	< 0.005 X
Arsenic	7440-38-2	0.01	0.0085	0.0022 JX	0.00088 JX	0.0048 JX	0.0034 JX	0.0038 JX	0.002 JX
Beryllium	7440-41-7	0.004	0.00068 J	0.00038 J	< 0.002	< 0.002	0.00012 J	< 0.002	< 0.002
Cadmium	7440-43-9	0.005	0.00025 J	0.00013 J	0.000079 J	< 0.002	0.00018 J	< 0.002	< 0.002
Chromium	7440-47-3	0.1	0.14	0.082	0.065	< 0.005	0.13	< 0.005	0.0027 J
Copper	7440-50-8	1.3	0.025	0.0055	0.0091	< 0.005	0.0074	< 0.005	0.00041 J
Lead	7439-92-1	0.015	0.0032 J	0.002 JX	0.021 X	< 0.005 X	0.0023 JX	< 0.005 X	0.00039 JX
Nickel	7440-02-0		0.11	0.066	0.036	< 0.005	0.048	0.023	0.0037 J
Silver	7440-22-4		0.000088 J	0.000067 J	0.000085 J	< 0.005	0.00025 J	< 0.005	< 0.005
Zinc	7440-66-6		0.052	0.063 X	0.034 X	< 0.01 X	0.014 X	0.019 X	0.0065 JX

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value
 X - Detected in the Method Blank between the MDL and PQL
 Blue font - Detected above method detection limit
 NA - Not Analyzed

Table 4 - Groundwater Analytical Results
 2nd 2016 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-8A 11/9/2016	MW-8B 11/9/2016	EW-1 11/7/2016	EW-2 11/7/2016	EW-3 11/7/2016	EW-4 11/7/2016
VOCs (mg/L)								
1,1,1-Trichloroethane	71-55-6	0.2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
1,1,2-Trichloroethane	79-00-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
1,1-Dichloroethane	75-34-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
1,1-Dichloroethene	75-35-4	0.007	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
1,2-Dichloroethane	107-06-2	0.005	< 0.001	< 0.001	0.0035	0.0099	< 0.01	0.0033
1,2-Dichloropropane	78-87-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
2-Butanone	78-93-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.005
2-Hexanone	591-78-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.005
4-Methyl-2-pentanone	108-10-1		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Acetone	67-64-1		< 0.01	< 0.01	< 0.01	0.0061 J	< 0.1	0.0039 J
Benzene	71-43-2	0.005	< 0.001	< 0.001	< 0.001	0.0023	0.0072 J	< 0.001
Bromodichloromethane	75-27-4		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Bromoform	75-25-2		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Bromomethane	74-83-9		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Carbon disulfide	75-15-0		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Carbon tetrachloride	56-23-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Chlorobenzene	108-90-7	0.1	< 0.001	< 0.001	< 0.001	0.00071 J	< 0.01	< 0.001
Chloroethane	75-00-3		< 0.001	< 0.001	0.0071	0.013	< 0.01	0.023
Chloroform	67-66-3	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Chloromethane	74-87-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
cis-1,2-Dichloroethene	156-59-2	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
cis-1,3-Dichloropropene	10061-01-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Dibromochloromethane	124-48-1	0.06	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Ethylbenzene	100-41-4	0.7	< 0.001	< 0.001	0.0012	0.0011	2.8	< 0.001
Methylene Chloride	75-09-2	0.005	< 0.005	< 0.005	< 0.005	0.0018 J	< 0.05	< 0.005
Styrene	100-42-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Tetrachloroethene	127-18-4	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Toluene	108-88-3	1	0.00088 J	< 0.001	< 0.001	< 0.001	0.0043 J	< 0.001
trans-1,2-Dichloroethene	156-60-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
trans-1,3-Dichloropropene	10061-02-6		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Trichloroethene	79-01-6	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Vinyl Chloride	75-01-4	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Xylene (total)	1330-20-7	10	< 0.003	< 0.003	< 0.003	< 0.003	0.007 J	< 0.003
SVOCs (mg/L)								
1,2,4-Trichlorobenzene	120-82-1	0.07	< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	0.6	< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	0.075	< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
2,4,5-Trichlorophenol	95-95-4		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
2,4-Dinitrophenol	51-28-5		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
2,4-Dinitrotoluene	121-14-2		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
2,6-Dinitrotoluene	606-20-2		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
2-Chloronaphthalene	91-58-7		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
2-Chlorophenol	95-57-8		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
2-Methylnaphthalene	91-57-6		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	0.00026 J
2-Methylphenol	95-48-7		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
2-Nitroaniline	88-74-4		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
2-Nitrophenol	88-75-5		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
3,3'-Dichlorobenzidine	91-94-1		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
3-Nitroaniline	99-09-2		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
2-Methyl-4,6-Dinitrophenol	534-52-1		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
4-Bromophenyl-phenylether	101-55-3		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
4-Chloro-3-methylphenol	59-50-7		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
4-Chloroaniline	106-47-8		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
4-Chlorophenyl-phenylether	7005-72-3		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
3,4-Methylphenol	106-44-5		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
4-Nitroaniline	100-01-6		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
4-Nitrophenol	100-02-7		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Acenaphthene	83-32-9		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Acenaphthylene	208-96-8		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Anthracene	120-12-7		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value
 X - Detected in the Method Blank between the MDL and PQL
 Blue font - Detected above method detection limit
 NA - Not Analyzed

Table 4 - Groundwater Analytical Results
 2nd 2016 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-8A 11/9/2016	MW-8B 11/9/2016	EW-1 11/7/2016	EW-2 11/7/2016	EW-3 11/7/2016	EW-4 11/7/2016
Benzo(a)anthracene	56-55-3		< 0.005	< 0.005	0.00015 J	< 0.0054	0.001 J	< 0.005
Benzo(a)pyrene	50-32-8	0.0002	< 0.005	< 0.005	< 0.005	< 0.0054	0.0016 J	< 0.005
Benzo(b)fluoranthene	205-99-2		< 0.005	< 0.005	< 0.005	< 0.0054	0.00075 J	< 0.005
Benzo(g,h,i)perylene	191-24-2		< 0.005	< 0.005	< 0.005	< 0.0054	0.00065 J	< 0.005
Benzo(k)fluoranthene	207-08-9		< 0.005	< 0.005	< 0.005	< 0.0054	0.0002 J	< 0.005
Bis(2-chloroethoxy)methane	111-91-1		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	0.0005 J
Bis(2-chloroisopropyl)ether	108-60-1		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	0.006	< 0.005	0.0018 J	0.0024 J	0.0012 J	0.0022 J	0.001 J
Butyl benzyl phthalate	85-68-7		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Carbazole	86-74-8		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Chrysene	218-01-9		< 0.005	< 0.005	0.00014 J	< 0.0054	0.0016 J	< 0.005
Dibenz(a,h)anthracene	53-70-3		< 0.005	< 0.005	< 0.005	< 0.0054	0.00021 J	< 0.005
Dibenzofuran	132-64-9		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Diethyl phthalate	84-66-2		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Dimethylphthalate	131-11-3		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Di-n-butyl phthalate	84-74-2		< 0.005	< 0.005	< 0.005	0.00075 J	< 0.005	< 0.005
Di-n-octyl phthalate	117-84-0		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Fluoranthene	206-44-0		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Fluorene	86-73-7		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Hexachlorobenzene	118-74-1	0.001	< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Hexachlorocyclopentadiene	77-47-4	0.05	< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Hexachloroethane	67-72-1		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Indeno(1,2,3-cd)pyrene	193-39-5		< 0.005	< 0.005	< 0.005	< 0.0054	0.0072 J	< 0.005
Isophorone	78-59-1		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Naphthalene	91-20-3		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	0.00055 J
Nitrobenzene	98-95-3		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
N-nitro-sodi-n-propylamine	621-64-7		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
N-Nitrosodiphenylamine	86-30-6		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Pentachlorophenol	87-86-5	0.001	< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Phenanthrene	85-01-8		< 0.005	< 0.005	< 0.005	< 0.0054	< 0.005	< 0.005
Phenol	108-95-2		< 0.005	< 0.005	0.0014 J	0.028	< 0.005	0.021
Pyrene	129-00-0		< 0.005	< 0.005	0.00015 J	0.00013 J	0.0012 J	< 0.005
Metals (mg/L)								
Mercury	7439-97-6	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Antimony	7440-36-0	0.006	< 0.005 X	0.0016 JX	< 0.005	< 0.005	0.00021 J	0.00071 J
Arsenic	7440-38-2	0.01	0.0013 JX	0.0046 JX	0.0019 J	0.0068	0.0038 J	0.062
Beryllium	7440-41-7	0.004	< 0.002	0.00052 J	0.00019 J	0.0015 J	< 0.002	0.00056 J
Cadmium	7440-43-9	0.005	< 0.002	0.0021	< 0.002	< 0.002	< 0.002	0.00016 J
Chromium	7440-47-3	0.1	0.0023 J	0.074	0.0031 J	0.00079 J	0.002 J	0.003 J
Copper	7440-50-8	1.3	< 0.005	0.037	0.17	0.074	0.092	0.25
Lead	7439-92-1	0.015	< 0.005 X	0.0043 JX	0.018	0.0057	0.011	0.18
Nickel	7440-02-0		0.0041 J	0.045	0.059	0.029	0.018	0.38
Silver	7440-22-4		< 0.005	0.00058 J	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	7440-66-6		0.0022 JX	0.058 X	0.18	0.045	0.045	1

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value
 X - Detected in the Method Blank between the MDL and PQL
 Blue font - Detected above method detection limit
 NA - Not Analyzed

1st 2016 Table 2 - Groundwater Analytical Results
 2nd 2016 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-1B 5/18/2016	MW-2B 5/16/2016	MW-3A 5/16/2016	MW-3B 5/19/2016	MW-4A 5/16/2016
VOCs (mg/L)							
1,1,1-Trichloroethane	71-55-6	0.2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethene	75-35-4	0.007	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone	78-93-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Hexanone	591-78-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Methyl-2-pentanone	108-10-1		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Acetone	67-64-1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzene	71-43-2	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	75-15-0		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	75-00-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloromethane	74-87-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	156-59-2	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	0.06	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	0.7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Methylene Chloride	75-09-2	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Styrene	100-42-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	127-18-4	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	10	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
SVOCs (mg/L)							
1,2,4-Trichlorobenzene	120-82-1	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	0.6	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	0.075	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4,5-Trichlorophenol	95-95-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrophenol	51-28-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrotoluene	121-14-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,6-Dinitrotoluene	606-20-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Chloronaphthalene	91-58-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Chlorophenol	95-57-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylnaphthalene	91-57-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylphenol	95-48-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitroaniline	88-74-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitrophenol	88-75-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3,3'-Dichlorobenzidine	91-94-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3-Nitroaniline	99-09-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methyl-4,6-Dinitrophenol	534-52-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromophenyl-phenylether	101-55-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chloro-3-methylphenol	59-50-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chloroaniline	106-47-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chlorophenyl-phenylether	7005-72-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3&4-Methylphenol	106-44-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Nitroaniline	100-01-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Nitrophenol	100-02-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthene	83-32-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthylene	208-96-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Anthracene	120-12-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value
 X - Detected in the Method Blank between the MDL and PQL
 Blue font - Detected above method detection limit
 NA - Not Analyzed

1st 2016
 2nd 2016
 Table 2 - Groundwater Analytical Results
 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-1B 5/18/2016	MW-2B 5/16/2016	MW-3A 5/16/2016	MW-3B 5/19/2016	MW-4A 5/16/2016
Benzo(a)anthracene	56-55-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(a)pyrene	50-32-8	0.0002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(b)fluoranthene	205-99-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(g,h,i)perylene	191-24-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(k)fluoranthene	207-08-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bis(2-chloroethoxy)methane	111-91-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bis(2-chloroisopropyl)ether	108-60-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	0.006	< 0.005	0.0023 J	< 0.005	0.0057	0.0022 J
Butyl benzyl phthalate	85-68-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbazole	86-74-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chrysene	218-01-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dibenz(a,h)anthracene	53-70-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dibenzofuran	132-64-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl phthalate	84-66-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethylphthalate	131-11-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Di-n-butyl phthalate	84-74-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Di-n-octyl phthalate	117-84-0		< 0.005	0.0016 J	< 0.005	< 0.005	0.0015 J
Fluoranthene	206-44-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluorene	86-73-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobenzene	118-74-1	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorocyclopentadiene	77-47-4	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachloroethane	67-72-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Indeno(1,2,3-cd)pyrene	193-39-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	78-59-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	91-20-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Nitrobenzene	98-95-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-nitro-sodi-n-propylamine	621-64-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-Nitrosodiphenylamine	86-30-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Pentachlorophenol	87-86-5	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenanthrene	85-01-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenol	108-95-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Pyrene	129-00-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Metals (mg/L)							
Mercury	7439-97-6	0.002	< 0.0002	< 0.0002	< 0.0002	0.000026 J	< 0.0002
Antimony	7440-36-0	0.006	0.00044 J	0.00054 J	0.00025 J	0.0012 J	< 0.005
Arsenic	7440-39-2	0.01	0.0029 J	0.002 J	0.0016 J	0.011	0.00087 J
Beryllium	7440-41-7	0.004	< 0.002	< 0.002	< 0.002	0.0029	< 0.002
Cadmium	7440-43-9	0.005	0.00023 J	< 0.002	< 0.002	0.001 J	0.00012 J
Chromium	7440-47-3	0.1	0.05	0.094 X	0.071 X	1	0.029 X
Copper	7440-50-8	1.3	0.0042 J	0.0053	0.0037 J	0.1	0.0046 J
Lead	7439-92-1	0.015	0.0011 J	0.0021 J	0.00038 J	0.0081	0.00066 J
Nickel	7440-02-0		0.021	0.025	0.039	0.21	0.013
Silver	7440-22-4		< 0.005	< 0.005	< 0.005	0.00024 J	< 0.005
Zinc	7440-66-6		0.015	0.013	0.024	0.99	0.007 J

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value
 X - Detected in the Method Blank between the MDL and PQL
 Blue font - Detected above method detection limit
 NA - Not Analyzed

1st 2016

Table 2 - Groundwater Analytical Results
 2nd 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-4B 5/18/2016	MW-5A 5/19/2016	MW-5B 5/19/2016	MW-6A 5/17/2016	MW-6B 5/17/2016	MW-7A 5/17/2016	MW-7B 5/17/2016
VOCs (mg/L)									
1,1,1-Trichloroethane	71-55-6	0.2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethene	75-35-4	0.007	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	0.005	< 0.001	< 0.001	< 0.001	0.0013	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone	78-93-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Hexanone	591-78-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Methyl-2-pentanone	108-10-1		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Acetone	67-64-1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzene	71-43-2	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	75-15-0		< 0.001	0.00062 J	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	75-00-3		< 0.001	< 0.001	< 0.001	0.004	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloromethane	74-87-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	156-59-2	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	0.06	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	0.7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Methylene Chloride	75-09-2	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Styrene	100-42-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	127-18-4	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	10	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
SVOCs (mg/L)									
1,2,4-Trichlorobenzene	120-82-1	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	0.6	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	0.075	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4,5-Trichlorophenol	95-95-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrophenol	51-28-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrotoluene	121-14-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,6-Dinitrotoluene	606-20-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Chloronaphthalene	91-58-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Chlorophenol	95-57-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylnaphthalene	91-57-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylphenol	95-48-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitroaniline	88-74-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitrophenol	88-75-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3,3'-Dichlorobenzidine	91-94-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3-Nitroaniline	99-09-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methyl-4,6-Dinitrophenol	534-52-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromophenyl-phenylether	101-55-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chloro-3-methylphenol	59-50-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chloroaniline	106-47-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chlorophenyl-phenylether	7005-72-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3,4-Methylphenol	106-44-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00071 J
4-Nitroaniline	100-01-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Nitrophenol	100-02-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthene	83-32-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthylene	208-96-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Anthracene	120-12-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value
 X - Detected in the Method Blank between the MDL and PQL
 Blue font - Detected above method detection limit
 NA - Not Analyzed

1st 2016 Table 2 - Groundwater Analytical Results
 2nd 2016 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-4B 5/18/2016	MW-5A 5/19/2016	MW-5B 5/19/2016	MW-6A 5/17/2016	MW-6B 5/17/2016	MW-7A 5/17/2016	MW-7B 5/17/2016
Benzo(a)anthracene	56-55-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(a)pyrene	50-32-8	0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(b)fluoranthene	205-99-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(g,h,i)perylene	191-24-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(k)fluoranthene	207-08-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bis(2-chloroethoxy)methane	111-91-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bis(2-chloroisopropyl)ether	108-60-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	0.006	< 0.005	0.036	< 0.005	< 0.005	0.0023 J	< 0.005	< 0.005
Butyl benzyl phthalate	85-68-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbazole	86-74-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chrysene	218-01-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dibenz(a,h)anthracene	53-70-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dibenzofuran	132-64-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl phthalate	84-66-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethylphthalate	131-11-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Di-n-butyl phthalate	84-74-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Di-n-octyl phthalate	117-84-0		< 0.005	< 0.005	< 0.005	< 0.005	0.0016 J	< 0.005	< 0.005
Fluoranthene	206-44-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluorene	86-73-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobenzene	118-74-1	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorocyclopentadiene	77-47-4	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachloroethane	67-72-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Indeno(1,2,3-cd)pyrene	193-39-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	78-59-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	91-20-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Nitrobenzene	98-95-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-nitro-sodi-n-propylamine	621-64-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-Nitrosodiphenylamine	86-30-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Pentachlorophenol	87-86-5	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenanthrene	85-01-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenol	108-95-2		< 0.005	< 0.005	< 0.005	0.0014 J	< 0.005	< 0.005	< 0.005
Pyrene	129-00-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Metals (mg/L)									
Mercury	7439-97-6	0.002	< 0.0002	0.000047 J	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Antimony	7440-36-0	0.006	0.0003 J	0.00073 J	0.0035 J	< 0.005	0.00097 J	< 0.005	< 0.005
Arsenic	7440-38-2	0.01	0.0068	0.035	0.0034 J	0.0031 J	0.0032 J	0.0032 J	0.0012 J
Beryllium	7440-41-7	0.004	0.00032 J	0.015	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cadmium	7440-43-9	0.005	0.00033 J	0.0027	0.00088 J	< 0.002	0.00014 J	< 0.002	< 0.002
Chromium	7440-47-3	0.1	0.052	0.76	0.15	0.00037 JX	0.27 X	0.00062 JX	0.0046 JX
Copper	7440-50-8	1.3	0.013	0.13	0.039	< 0.005	0.012	0.0003 J	0.0022 J
Lead	7439-92-1	0.015	0.0019 J	0.046	0.15	< 0.005	0.0032 J	0.00019 J	0.0009 J
Nickel	7440-02-0		0.076	0.78	0.07	0.0016 J	0.077	0.018	0.0072
Silver	7440-22-4		0.000078 J	0.00048 J	0.00047 J	< 0.005	0.00029 JX	< 0.005	< 0.005
Zinc	7440-66-6		0.03	1.3	0.23	< 0.01	0.022	0.011	0.011

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value
 X - Detected in the Method Blank between the MDL and PQL
 Blue font - Detected above method detection limit
 NA - Not Analyzed

1st 2016 Table 2 - Groundwater Analytical Results
~~2nd 2016~~ Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-8A 5/18/2016	MW-8B 5/18/2016	EW-1 5/16/2016	EW-2 5/16/2016	EW-3 5/16/2016	EW-4 5/16/2016
VOCs (mg/L)								
1,1,1-Trichloroethane	71-55-6	0.2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
1,1,2-Trichloroethane	79-00-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
1,1-Dichloroethane	75-34-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
1,1-Dichloroethene	75-35-4	0.007	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
1,2-Dichloroethane	107-06-2	0.005	< 0.001	< 0.001	0.0048	0.011	< 0.01	0.0031
1,2-Dichloropropane	78-87-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
2-Butanone	78-93-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.005
2-Hexanone	591-78-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.005
4-Methyl-2-pentanone	108-10-1		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Acetone	67-64-1		< 0.01	< 0.01	< 0.01	0.0063 J	< 0.1	0.0035 J
Benzene	71-43-2	0.005	< 0.001	< 0.001	0.0003 J	0.0028	0.0057 J	< 0.001
Bromodichloromethane	75-27-4		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Bromoform	75-25-2		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Bromomethane	74-83-9		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Carbon disulfide	75-15-0		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Carbon tetrachloride	56-23-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Chlorobenzene	108-90-7	0.1	< 0.001	< 0.001	< 0.001	0.00088 J	< 0.01	< 0.001
Chloroethane	75-00-3		< 0.001	< 0.001	0.0093	0.012	< 0.01	0.022
Chloroform	67-66-3	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Chloromethane	74-87-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
cis-1,2-Dichloroethene	156-59-2	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
cis-1,3-Dichloropropene	10061-01-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Dibromochloromethane	124-48-1	0.06	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Ethylbenzene	100-41-4	0.7	< 0.001	< 0.001	0.001	0.0018	1.7	< 0.001
Methylene Chloride	75-09-2	0.005	< 0.005	< 0.005	< 0.005	0.002 J	< 0.05	< 0.005
Styrene	100-42-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Tetrachloroethene	127-18-4	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Toluene	108-88-3	1	< 0.001	< 0.001	< 0.001	< 0.001	0.0048	< 0.001
trans-1,2-Dichloroethene	156-60-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
trans-1,3-Dichloropropene	10061-02-6		< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Trichloroethene	79-01-6	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Vinyl Chloride	75-01-4	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001
Xylene (total)	1330-20-7	10	< 0.003	< 0.003	< 0.003	< 0.003	0.021	< 0.003
SVOCs (mg/L)								
1,2,4-Trichlorobenzene	120-82-1	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	0.6	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	0.075	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4,5-Trichlorophenol	95-95-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrophenol	51-28-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrotoluene	121-14-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,6-Dinitrotoluene	606-20-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Chloronaphthalene	91-58-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Chlorophenol	95-57-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylnaphthalene	91-57-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylphenol	95-48-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitroaniline	88-74-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitrophenol	88-75-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3,3'-Dichlorobenzidine	91-94-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3-Nitroaniline	99-09-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methyl-4,6-Dinitrophenol	534-52-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromophenyl-phenylether	101-55-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chloro-3-methylphenol	59-50-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chloroaniline	106-47-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chlorophenyl-phenylether	7005-72-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3,4-Methylphenol	106-44-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Nitroaniline	100-01-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Nitrophenol	100-02-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthene	83-32-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthylene	208-96-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Anthracene	120-12-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value
 X - Detected in the Method Blank between the MDL and PQL
 Blue font - Detected above method detection limit
 NA - Not Analyzed

1st 2016 Table 2 - Groundwater Analytical Results
 2nd 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-8A 5/18/2016	MW-8B 5/18/2016	EW-1 5/16/2016	EW-2 5/16/2016	EW-3 5/16/2016	EW-4 5/16/2016
Benzo(a)anthracene	56-55-3		< 0.005	< 0.005	< 0.005	< 0.005	0.0015 J	< 0.005
Benzo(a)pyrene	50-32-8	0.0002	< 0.005	< 0.005	< 0.005	< 0.005	0.002 J	< 0.005
Benzo(b)fluoranthene	205-99-2		< 0.005	< 0.005	< 0.005	< 0.005	0.0013 J	< 0.005
Benzo(g,h,i)perylene	191-24-2		< 0.005	< 0.005	< 0.005	< 0.005	0.0012 J	< 0.005
Benzo(k)fluoranthene	207-08-9		< 0.005	< 0.005	< 0.005	< 0.005	0.00059 J	< 0.005
Bis(2-chloroethoxy)methane	111-91-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bis(2-chloroisopropyl)ether	108-60-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	0.006	< 0.005	< 0.005	< 0.005	< 0.005	0.0038	< 0.005
Butyl benzyl phthalate	85-68-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbazole	86-74-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chrysene	218-01-9		< 0.005	< 0.005	< 0.005	< 0.005	0.0016 J	< 0.005
Dibenz(a,h)anthracene	53-70-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dibenzofuran	132-64-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl phthalate	84-66-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethylphthalate	131-11-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Di-n-butyl phthalate	84-74-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Di-n-octyl phthalate	117-84-0		< 0.005	< 0.005	< 0.005	< 0.005	0.0033	< 0.005
Fluoranthene	206-44-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluorene	86-73-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobenzene	118-74-1	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorocyclopentadiene	77-47-4	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachloroethane	67-72-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Indeno(1,2,3-cd)pyrene	193-39-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	78-59-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	91-20-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Nitrobenzene	98-95-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-nitro-sodi-n-propylamine	621-64-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-Nitrosodiphenylamine	86-30-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Pentachlorophenol	87-86-5	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenanthrene	85-01-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenol	108-95-2		< 0.005	< 0.005	0.0037 J	0.024	0.058	0.015
Pyrene	129-00-0		< 0.005	< 0.005	0.00022 J	< 0.005	0.0012 J	< 0.005
Metals (mg/L)								
Mercury	7439-97-6	0.002	< 0.0002	0.000019 J	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Antimony	7440-36-0	0.006	< 0.005	0.004 J	< 0.005	< 0.005	0.0018 J	< 0.005
Arsenic	7440-38-2	0.01	0.0023 J	0.0076	0.0017 J	0.0064	0.0093	0.02
Beryllium	7440-41-7	0.004	0.0032	0.0011 J	< 0.002	0.002	< 0.002	< 0.002
Cadmium	7440-43-9	0.005	0.0001 J	0.0015 J	< 0.002	< 0.002	0.00054 J	< 0.002
Chromium	7440-47-3	0.1	0.024	0.12	0.0058 X	0.002 JX	0.016 X	0.00042 JX
Copper	7440-50-8	1.3	0.0048 J	0.081	0.11	0.1	1.6	0.075
Lead	7439-92-1	0.015	0.00058 J	0.0091	0.0075	0.011	0.19	0.013
Nickel	7440-02-0		0.021	0.082	0.048	0.06	0.13	0.053
Silver	7440-22-4		< 0.005	0.0019 J	< 0.005	< 0.005	0.00024 JX	< 0.005
Zinc	7440-66-6		0.0063 J	0.11	0.061	0.048	0.31	0.23

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value
 X - Detected in the Method Blank between the MDL and PQL
 Blue font - Detected above method detection limit
 NA - Not Analyzed

Table 2 - Groundwater Analytical Results
 2nd 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-1B 10/20/2015	MW-2B 10/20/2015	MW-3A 10/20/2015	MW-3B 10/20/2015	MW-4A 10/20/2015
VOCs (mg/L)							
1,1,1-Trichloroethane	71-55-6	0.2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethene	75-35-4	0.007	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone	78-93-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Hexanone	591-78-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Methyl-2-pentanone	108-10-1		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Acetone	67-64-1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzene	71-43-2	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	75-15-0		0.0011	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	0.1	0.00035 J	< 0.001	0.00054 J	0.00051 J	< 0.001
Chloroethane	75-00-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloromethane	74-87-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	156-59-2	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	0.06	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	0.7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Methylene Chloride	75-09-2	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Styrene	100-42-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	127-18-4	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	10	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
SVOCs (mg/L)							
1,2,4-Trichlorobenzene	120-82-1	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	0.6	< 0.005	< 0.005	< 0.005	< 0.005	0.0005 J
1,3-Dichlorobenzene	541-73-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	0.075	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4,5-Trichlorophenol	95-95-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrophenol	51-28-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrotoluene	121-14-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,6-Dinitrotoluene	606-20-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Chloronaphthalene	91-58-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Chlorophenol	95-57-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylnaphthalene	91-57-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylphenol	95-48-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitroaniline	88-74-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitrophenol	88-75-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3,3'-Dichlorobenzidine	91-94-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3-Nitroaniline	99-09-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methyl-4,6-Dinitrophenol	534-52-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromophenyl-phenylether	101-55-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chloro-3-methylphenol	59-50-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chloroaniline	106-47-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chlorophenyl-phenylether	7005-72-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Methylphenol	106-44-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Nitroaniline	100-01-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Nitrophenol	100-02-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthene	83-32-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthylene	208-96-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Anthracene	120-12-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value Blue font - Detected above method detection limit
 NA - Not Analyzed

Table 2 - Groundwater Analytical Results
 2nd 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-1B 10/20/2015	MW-2B 10/20/2015	MW-3A 10/20/2015	MW-3B 10/20/2015	MW-4A 10/20/2015
Benzo(a)anthracene	56-55-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(a)pyrene	50-32-8	0.0002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(b)fluoranthene	205-99-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(g,h,i)perylene	191-24-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(k)fluoranthene	207-08-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bis(2-chloroethoxy)methane	111-91-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bis(2-chloroisopropyl)ether	108-60-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	0.006	< 0.005	0.005	< 0.005	0.0029 J	< 0.005
Butyl benzyl phthalate	85-68-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbazole	86-74-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chrysene	218-01-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dibenz(a,h)anthracene	53-70-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dibenzofuran	132-64-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl phthalate	84-66-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethylphthalate	131-11-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Di-n-butyl phthalate	84-74-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Di-n-octyl phthalate	117-84-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoranthene	206-44-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluorene	86-73-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobenzene	118-74-1	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorocyclopentadiene	77-47-4	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachloroethane	67-72-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Indeno(1,2,3-cd)pyrene	193-39-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	78-59-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	91-20-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Nitrobenzene	98-95-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-nitro-sodi-n-propylamine	621-64-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-Nitrosodiphenylamine	86-30-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Pentachlorophenol	87-86-5	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenanthrene	85-01-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenol	108-95-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Pyrene	129-00-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Metals (mg/L)							
Mercury	7439-97-6	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Antimony	7440-36-0	0.006	0.00086 J	0.00053 J	0.00028 J	< 0.005	0.00012 J
Arsenic	7440-38-2	0.01	0.0055	0.0054	0.0023 J	0.00087 J	0.0012 J
Beryllium	7440-41-7	0.004	0.00042 J	< 0.002	0.00026 J	0.00037 J	0.00056 J
Cadmium	7440-43-9	0.005	0.00027 J	0.00019 J	0.00016 J	< 0.002	0.00022 J
Chromium	7440-47-3	0.1	0.19	0.22	0.17	0.068	0.11
Copper	7440-50-8	1.3	0.017	0.016	0.0099	0.0075	0.019
Lead	7439-92-1	0.015	0.0036 J	0.0057	0.0013 J	0.001 J	0.0036 J
Nickel	7440-02-0		0.1	0.07	0.099	0.017	0.065
Silver	7440-22-4		0.00016 J	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	7440-66-6		0.035	0.056	0.085	0.044	0.067

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value Blue font - Detected above method detection limit
 NA - Not Analyzed

Table 2 - Groundwater Analytical Results
 2nd 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-4B 10/20/2015	MW-5A 10/21/2015	MW-5B 10/21/2015	MW-6A 10/19/2015	MW-6B 10/19/2015
VOCs (mg/L)							
1,1,1-Trichloroethane	71-55-6	0.2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethene	75-35-4	0.007	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	0.005	< 0.001	< 0.001	< 0.001	0.0021	< 0.001
1,2-Dichloropropane	78-87-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone	78-93-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Hexanone	591-78-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Methyl-2-pentanone	108-10-1		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Acetone	67-64-1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzene	71-43-2	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	75-15-0		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	0.1	< 0.001	< 0.001	< 0.001	0.00035 J	< 0.001
Chloroethane	75-00-3		< 0.001	< 0.001	< 0.001	0.0063	< 0.001
Chloroform	67-66-3	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloromethane	74-87-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	156-59-2	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	0.06	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	0.7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Methylene Chloride	75-09-2	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Styrene	100-42-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	127-18-4	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	10	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
SVOCs (mg/L)							
1,2,4-Trichlorobenzene	120-82-1	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	0.6	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	0.075	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4,5-Trichlorophenol	95-95-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrophenol	51-28-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrotoluene	121-14-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,6-Dinitrotoluene	606-20-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Chloronaphthalene	91-58-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Chlorophenol	95-57-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylnaphthalene	91-57-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylphenol	95-48-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitroaniline	88-74-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitrophenol	88-75-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3,3'-Dichlorobenzidine	91-94-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3-Nitroaniline	99-09-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methyl-4,6-Dinitrophenol	534-52-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromophenyl-phenylether	101-55-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chloro-3-methylphenol	59-50-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chloroaniline	106-47-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chlorophenyl-phenylether	7005-72-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Methylphenol	106-44-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Nitroaniline	100-01-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Nitrophenol	100-02-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthene	83-32-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthylene	208-96-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Anthracene	120-12-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Notes:
 Blank cell - No data available
 J - Estimated Value
 NA - Not Analyzed
 Bold - Exceeds Maximum Contaminant Level (MCL)
 Blue font - Detected above method detection limit

Table 2 - Groundwater Analytical Results
 2nd 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-4B 10/20/2015	MW-5A 10/21/2015	MW-5B 10/21/2015	MW-6A 10/19/2015	MW-6B 10/19/2015
Benzo(a)anthracene	56-55-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(a)pyrene	50-32-8	0.0002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(b)fluoranthene	205-99-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(g,h,i)perylene	191-24-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(k)fluoranthene	207-08-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bis(2-chloroethoxy)methane	111-91-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bis(2-chloroisopropyl)ether	108-60-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	0.006	< 0.005	0.0051	< 0.005	< 0.005	< 0.005
Butyl benzyl phthalate	85-68-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbazole	86-74-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chrysene	218-01-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dibenz(a,h)anthracene	53-70-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dibenzofuran	132-64-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl phthalate	84-66-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethylphthalate	131-11-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Di-n-butyl phthalate	84-74-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Di-n-octyl phthalate	117-84-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoranthene	206-44-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluorene	86-73-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobenzene	118-74-1	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorocyclopentadiene	77-47-4	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachloroethane	67-72-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Indeno(1,2,3-cd)pyrene	193-39-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	78-59-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	91-20-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Nitrobenzene	98-95-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-nitro-sodi-n-propylamine	621-64-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-Nitrosodiphenylamine	86-30-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Pentachlorophenol	87-86-5	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenanthrene	85-01-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenol	108-95-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Pyrene	129-00-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Metals (mg/L)							
Mercury	7439-97-6	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Antimony	7440-36-0	0.006	0.0002 J	0.00053 J	0.0021 J	0.00013 J	0.00072 J
Arsenic	7440-38-2	0.01	0.0018 J	0.006	0.0013 J	0.0072	0.0026 J
Beryllium	7440-41-7	0.004	0.00025 J	0.0019 J	< 0.002	0.00086 J	0.00021 J
Cadmium	7440-43-9	0.005	< 0.002	0.00048 J	0.00026 J	0.00019 J	0.00021 J
Chromium	7440-47-3	0.1	0.032	0.13	0.11	0.057	0.19
Copper	7440-50-8	1.3	0.0057	0.022	0.012	0.0099	0.01
Lead	7439-92-1	0.015	0.001 J	0.0074 J	0.074	0.0073	0.003 J
Nickel	7440-02-0		0.036	0.12	0.034	0.043	0.091
Silver	7440-22-4		< 0.005	0.00026 J	0.0004 J	< 0.005	0.00019 J
Zinc	7440-66-6		0.037	0.24	0.1	0.052	0.024

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value Blue font - Detected above method detection limit
 NA - Not Analyzed

Table 2 - Groundwater Analytical Results
 2nd 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-7A 10/21/2015	MW-7B 10/21/2015	MW-8A 10/21/2015	MW-8B 10/21/2015
VOCs (mg/L)						
1,1,1-Trichloroethane	71-55-6	0.2	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5		< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3		< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethene	75-35-4	0.007	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	0.005	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone	78-93-3		< 0.005	< 0.005	< 0.005	< 0.005
2-Hexanone	591-78-6		< 0.005	< 0.005	< 0.005	< 0.005
4-Methyl-2-pentanone	108-10-1		< 0.001	< 0.001	< 0.001	< 0.001
Acetone	67-64-1		< 0.01	< 0.01	< 0.01	< 0.01
Benzene	71-43-2	0.005	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4		< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2		< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9		< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	75-15-0		< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	0.1	< 0.001	< 0.001	0.00053 J	< 0.001
Chloroethane	75-00-3		< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	0.07	< 0.001	< 0.001	< 0.001	< 0.001
Chloromethane	74-87-3		< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	156-59-2	0.07	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5		< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	0.06	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	0.7	< 0.001	< 0.001	< 0.001	< 0.001
Methylene Chloride	75-09-2	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Styrene	100-42-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	127-18-4	0.005	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	1	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6		< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	0.005	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	0.002	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	10	< 0.003	< 0.003	< 0.003	< 0.003
SVOCs (mg/L)						
1,2,4-Trichlorobenzene	120-82-1	0.07	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	0.6	< 0.005	< 0.005	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1		< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	0.075	< 0.005	< 0.005	< 0.005	< 0.005
2,4,5-Trichlorophenol	95-95-4		< 0.005	< 0.005	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2		< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2		< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9		< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrophenol	51-28-5		< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrotoluene	121-14-2		< 0.005	< 0.005	< 0.005	< 0.005
2,6-Dinitrotoluene	606-20-2		< 0.005	< 0.005	< 0.005	< 0.005
2-Chloronaphthalene	91-58-7		< 0.005	< 0.005	< 0.005	< 0.005
2-Chlorophenol	95-57-8		< 0.005	< 0.005	< 0.005	< 0.005
2-Methylnaphthalene	91-57-6		< 0.005	< 0.005	< 0.005	< 0.005
2-Methylphenol	95-48-7		< 0.005	< 0.005	< 0.005	< 0.005
2-Nitroaniline	88-74-4		< 0.005	< 0.005	< 0.005	< 0.005
2-Nitrophenol	88-75-5		< 0.005	< 0.005	< 0.005	< 0.005
3,3-Dichlorobenzidine	91-94-1		< 0.005	< 0.005	< 0.005	< 0.005
3-Nitroaniline	99-09-2		< 0.005	< 0.005	< 0.005	< 0.005
2-Methyl-4,6-Dinitrophenol	534-52-1		< 0.005	< 0.005	< 0.005	< 0.005
4-Bromophenyl-phenylether	101-55-3		< 0.005	< 0.005	< 0.005	< 0.005
4-Chloro-3-methylphenol	59-50-7		< 0.005	< 0.005	< 0.005	< 0.005
4-Chloroaniline	106-47-8		< 0.005	< 0.005	< 0.005	< 0.005
4-Chlorophenyl-phenylether	7005-72-3		< 0.005	< 0.005	< 0.005	< 0.005
4-Methylphenol	106-44-5		< 0.005	< 0.005	< 0.005	< 0.005
4-Nitroaniline	100-01-6		< 0.005	< 0.005	< 0.005	< 0.005
4-Nitrophenol	100-02-7		< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthene	83-32-9		< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthylene	208-96-8		< 0.005	< 0.005	< 0.005	< 0.005
Anthracene	120-12-7		< 0.005	< 0.005	< 0.005	< 0.005

Notes:

Blank cell - No data available

Bold - Exceeds Maximum Contaminant Level (MCL)

J - Estimated Value

Blue font - Detected above method detection limit

NA - Not Analyzed

Table 2 - Groundwater Analytical Results
 2nd 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-7A 10/21/2015	MW-7B 10/21/2015	MW-8A 10/21/2015	MW-8B 10/21/2015
Benzo(a)anthracene	56-55-3		< 0.005	< 0.005	< 0.005	< 0.005
Benzo(a)pyrene	50-32-8	0.0002	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(b)fluoranthene	205-99-2		< 0.005	< 0.005	< 0.005	< 0.005
Benzo(g,h,i)perylene	191-24-2		< 0.005	< 0.005	< 0.005	< 0.005
Benzo(k)fluoranthene	207-08-9		< 0.005	< 0.005	< 0.005	< 0.005
Bis(2-chloroethoxy)methane	111-91-1		< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4		< 0.005	< 0.005	< 0.005	< 0.005
Bis(2-chloroisopropyl)ether	108-60-1		< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	0.006	< 0.005	0.002 J	0.0022 J	< 0.005
Butyl benzyl phthalate	85-68-7		< 0.005	< 0.005	< 0.005	< 0.005
Carbazole	86-74-8		< 0.005	< 0.005	< 0.005	< 0.005
Chrysene	218-01-9		< 0.005	< 0.005	< 0.005	< 0.005
Dibenz(a,h)anthracene	53-70-3		< 0.005	< 0.005	< 0.005	< 0.005
Dibenzofuran	132-64-9		< 0.005	< 0.005	< 0.005	< 0.005
Diethyl phthalate	84-66-2		< 0.005	< 0.005	< 0.005	< 0.005
Dimethylphthalate	131-11-3		< 0.005	< 0.005	< 0.005	< 0.005
Di-n-butyl phthalate	84-74-2		< 0.005	< 0.005	< 0.005	< 0.005
Di-n-octyl phthalate	117-84-0		< 0.005	< 0.005	< 0.005	< 0.005
Fluoranthene	206-44-0		< 0.005	< 0.005	< 0.005	< 0.005
Fluorene	86-73-7		< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobenzene	118-74-1	0.001	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3		< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorocyclopentadiene	77-47-4	0.05	< 0.005	< 0.005	< 0.005	< 0.005
Hexachloroethane	67-72-1		< 0.005	< 0.005	< 0.005	< 0.005
Indeno(1,2,3-cd)pyrene	193-39-5		< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	78-59-1		< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	91-20-3		< 0.005	< 0.005	< 0.005	< 0.005
Nitrobenzene	98-95-3		< 0.005	< 0.005	< 0.005	< 0.005
N-nitro-sodi-n-propylamine	621-64-7		< 0.005	< 0.005	< 0.005	< 0.005
N-Nitrosodiphenylamine	86-30-6		< 0.005	< 0.005	< 0.005	< 0.005
Pentachlorophenol	87-86-5	0.001	< 0.005	< 0.005	< 0.005	< 0.005
Phenanthrene	85-01-8		< 0.005	< 0.005	< 0.005	< 0.005
Phenol	108-95-2		< 0.005	< 0.005	< 0.005	< 0.005
Pyrene	129-00-0		< 0.005	< 0.005	< 0.005	< 0.005
Metals (mg/L)						
Mercury	7439-97-6	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Antimony	7440-36-0	0.006	< 0.005	0.00016 J	0.0003 J	0.00047 J
Arsenic	7440-38-2	0.01	0.0046 J	0.0046 J	0.004 J	0.0019 J
Beryllium	7440-41-7	0.004	< 0.002	0.00025 J	0.0047	< 0.002
Cadmium	7440-43-9	0.005	0.00049 J	0.0018 J	< 0.002	0.0014 J
Chromium	7440-47-3	0.1	0.014	0.025	0.064	0.015
Copper	7440-50-8	1.3	0.0077	0.012	0.014	0.015
Lead	7439-92-1	0.015	0.003 J	0.0059	0.00093 J	0.0013 J
Nickel	7440-02-0		0.041	0.041	0.051	0.015
Silver	7440-22-4		< 0.005	< 0.005	< 0.005	0.00028 J
Zinc	7440-66-6		0.15	0.057	0.022	0.069

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value Blue font - Detected above method detection limit
 NA - Not Analyzed

Table 2 - Groundwater Analytical Results
 2nd 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	EW-1 10/19/2015	EW-2 10/19/2015	EW-3 10/19/2015	EW-4 10/19/2015
VOCs (mg/L)						
1,1,1-Trichloroethane	71-55-6	0.2	< 0.001	< 0.001	< 0.05	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5		< 0.001	< 0.001	< 0.05	< 0.001
1,1,2-Trichloroethane	79-00-5	0.005	< 0.001	< 0.001	< 0.05	< 0.001
1,1-Dichloroethane	75-34-3		< 0.001	< 0.001	< 0.05	< 0.001
1,1-Dichloroethene	75-35-4	0.007	< 0.001	< 0.001	< 0.05	< 0.001
1,2-Dichloroethane	107-06-2	0.005	0.0045	0.011	< 0.05	0.0035
1,2-Dichloropropane	78-87-5	0.005	< 0.001	< 0.001	< 0.05	< 0.001
2-Butanone	78-93-3		< 0.005	< 0.005	< 0.25	< 0.005
2-Hexanone	591-78-6		< 0.005	< 0.005	< 0.25	< 0.005
4-Methyl-2-pentanone	108-10-1		< 0.001	< 0.001	< 0.05	< 0.001
Acetone	67-64-1		< 0.01	0.0059 J	< 0.5	< 0.01
Benzene	71-43-2	0.005	< 0.001	0.0022	< 0.05	< 0.001
Bromodichloromethane	75-27-4		< 0.001	< 0.001	< 0.05	< 0.001
Bromoform	75-25-2		< 0.001	< 0.001	< 0.05	< 0.001
Bromomethane	74-83-9		< 0.001	< 0.001	< 0.05	< 0.001
Carbon disulfide	75-15-0		0.001	< 0.001	< 0.05	< 0.001
Carbon tetrachloride	56-23-5	0.005	< 0.001	< 0.001	< 0.05	< 0.001
Chlorobenzene	108-90-7	0.1	< 0.001	0.00086 J	< 0.05	< 0.001
Chloroethane	75-00-3		< 0.001	0.015	< 0.05	0.037
Chloroform	67-66-3	0.07	< 0.001	< 0.001	< 0.05	< 0.001
Chloromethane	74-87-3		< 0.001	< 0.001	< 0.05	0.0025
cis-1,2-Dichloroethene	156-59-2	0.07	< 0.001	0.00042 J	< 0.05	< 0.001
cis-1,3-Dichloropropene	10061-01-5		< 0.001	< 0.001	< 0.05	< 0.001
Dibromochloromethane	124-48-1	0.06	< 0.001	< 0.001	< 0.05	< 0.001
Ethylbenzene	100-41-4	0.7	0.00041 J	0.003	4.9	0.0015
Methylene Chloride	75-09-2	0.005	< 0.005	0.0012 J	< 0.25	< 0.005
Styrene	100-42-5	0.1	< 0.001	< 0.001	< 0.05	< 0.001
Tetrachloroethene	127-18-4	0.005	< 0.001	< 0.001	< 0.05	< 0.001
Toluene	108-88-3	1	< 0.001	< 0.001	< 0.05	< 0.001
trans-1,2-Dichloroethene	156-60-5	0.1	< 0.001	< 0.001	< 0.05	< 0.001
trans-1,3-Dichloropropene	10061-02-6		< 0.001	< 0.001	< 0.05	< 0.001
Trichloroethene	79-01-6	0.005	< 0.001	< 0.001	< 0.05	< 0.001
Vinyl Chloride	75-01-4	0.002	< 0.001	< 0.001	< 0.05	< 0.001
Xylene (total)	1330-20-7	10	< 0.003	< 0.003	< 0.15	< 0.003
SVOCs (mg/L)						
1,2,4-Trichlorobenzene	120-82-1	0.07	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	0.6	< 0.005	< 0.005	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1		< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	0.075	< 0.005	< 0.005	< 0.005	< 0.005
2,4,5-Trichlorophenol	95-95-4		< 0.005	< 0.005	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2		< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2		< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9		< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrophenol	51-28-5		< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrotoluene	121-14-2		< 0.005	< 0.005	< 0.005	< 0.005
2,6-Dinitrotoluene	606-20-2		< 0.005	< 0.005	< 0.005	< 0.005
2-Chloronaphthalene	91-58-7		< 0.005	< 0.005	< 0.005	< 0.005
2-Chlorophenol	95-57-8		< 0.005	< 0.005	< 0.005	< 0.005
2-Methylnaphthalene	91-57-6		< 0.005	< 0.005	< 0.005	< 0.005
2-Methylphenol	95-48-7		< 0.005	< 0.005	< 0.005	< 0.005
2-Nitroaniline	88-74-4		< 0.005	< 0.005	< 0.005	< 0.005
2-Nitrophenol	88-75-5		< 0.005	< 0.005	< 0.005	< 0.005
3,3'-Dichlorobenzidine	91-94-1		< 0.005	< 0.005	< 0.005	< 0.005
3-Nitroaniline	99-09-2		< 0.005	< 0.005	< 0.005	< 0.005
2-Methyl-4,6-Dinitrophenol	534-52-1		< 0.005	< 0.005	< 0.005	< 0.005
4-Bromophenyl-phenylether	101-55-3		< 0.005	< 0.005	< 0.005	< 0.005
4-Chloro-3-methylphenol	59-50-7		< 0.005	< 0.005	< 0.005	< 0.005
4-Chloroaniline	106-47-8		< 0.005	< 0.005	< 0.005	< 0.005
4-Chlorophenyl-phenylether	7005-72-3		< 0.005	< 0.005	< 0.005	< 0.005
4-Methylphenol	106-44-5		< 0.005	< 0.005	< 0.005	< 0.005
4-Nitroaniline	100-01-6		< 0.005	< 0.005	< 0.005	< 0.005
4-Nitrophenol	100-02-7		< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthene	83-32-9		< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthylene	208-96-8		< 0.005	< 0.005	< 0.005	< 0.005
Anthracene	120-12-7		< 0.005	< 0.005	0.00014 J	< 0.005

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
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 NA - Not Analyzed

Table 2 - Groundwater Analytical Results
 2nd 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	EW-1 10/19/2015	EW-2 10/19/2015	EW-3 10/19/2015	EW-4 10/19/2015
Benzo(a)anthracene	56-55-3		< 0.005	< 0.005	0.0018 J	< 0.005
Benzo(a)pyrene	50-32-8	0.002	< 0.005	< 0.005	0.002 J	< 0.005
Benzo(b)fluoranthene	205-99-2		< 0.005	< 0.005	0.00068 J	< 0.005
Benzo(g,h,i)perylene	191-24-2		< 0.005	< 0.005	0.001 J	< 0.005
Benzo(k)fluoranthene	207-08-9		< 0.005	< 0.005	0.00028 J	< 0.005
Bis(2-chloroethoxy)methane	111-91-1		< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4		< 0.005	< 0.005	< 0.005	< 0.005
Bis(2-chloroisopropyl)ether	108-60-1		< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	0.006	< 0.005	< 0.005	0.0092	< 0.005
Butyl benzyl phthalate	85-68-7		< 0.005	< 0.005	< 0.005	< 0.005
Carbazole	86-74-8		< 0.005	< 0.005	< 0.005	< 0.005
Chrysene	218-01-9		< 0.005	< 0.005	0.0024 J	< 0.005
Dibenz(a,h)anthracene	53-70-3		< 0.005	< 0.005	0.00057 J	< 0.005
Dibenzofuran	132-64-9		< 0.005	< 0.005	< 0.005	< 0.005
Diethyl phthalate	84-66-2		< 0.005	< 0.005	< 0.005	< 0.005
Dimethylphthalate	131-11-3		< 0.005	< 0.005	< 0.005	< 0.005
Di-n-butyl phthalate	84-74-2		< 0.005	< 0.005	< 0.005	< 0.005
Di-n-octyl phthalate	117-84-0		< 0.005	< 0.005	< 0.005	< 0.005
Fluoranthene	206-44-0		< 0.005	< 0.005	0.00024 J	< 0.005
Fluorene	86-73-7		< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobenzene	118-74-1	0.001	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3		< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorocyclopentadiene	77-47-4	0.05	< 0.005	< 0.005	< 0.005	< 0.005
Hexachloroethane	67-72-1		< 0.005	< 0.005	< 0.005	< 0.005
Indeno(1,2,3-cd)pyrene	193-39-5		< 0.005	< 0.005	0.0006 J	< 0.005
Isophorone	78-59-1		< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	91-20-3		< 0.005	< 0.005	< 0.005	0.00097 J
Nitrobenzene	98-95-3		< 0.005	< 0.005	< 0.005	< 0.005
N-nitro-sodi-n-propylamine	621-64-7		< 0.005	< 0.005	< 0.005	< 0.005
N-Nitrosodiphenylamine	86-30-6		< 0.005	< 0.005	< 0.005	< 0.005
Pentachlorophenol	87-86-5	0.001	< 0.005	< 0.005	< 0.005	< 0.005
Phenanthrene	85-01-8		< 0.005	< 0.005	0.00062 J	< 0.005
Phenol	108-95-2		< 0.005	0.014	0.053	0.011
Pyrene	129-00-0		0.00028 J	< 0.005	0.0014 J	< 0.005
Metals (mg/L)						
Mercury	7439-97-6	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Antimony	7440-36-0	0.006	0.00016 J	0.00015 J	0.001 J	< 0.005
Arsenic	7440-38-2	0.01	0.0029 J	0.0067	0.0074	0.035
Beryllium	7440-41-7	0.004	0.00051 J	0.0022	< 0.002	0.00022 J
Cadmium	7440-43-9	0.005	0.00013 J	0.00016 J	0.00015 J	0.00011 J
Chromium	7440-47-3	0.1	0.0072	0.0022 J	0.018 J	0.0012 J
Copper	7440-50-8	1.3	0.11	0.094	0.23	0.065
Lead	7439-92-1	0.015	0.014	0.028	0.06	0.04
Nickel	7440-02-0		0.1	0.085	0.036	0.079
Silver	7440-22-4		< 0.005	< 0.005	< 0.005	< 0.005
Zinc	7440-66-6		0.079	0.054	0.11	0.45

Notes:
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 NA - Not Analyzed

Table 2 - Groundwater Analytical Results
 1st 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-1B 5/12/2015	MW-2B 5/12/2015	MW-3A 5/12/2015	MW-3B 5/12/2015	MW-4A 5/12/2015
VOCs (mg/L)							
Chloromethane	74-87-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	75-00-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Methylene Chloride	75-09-2	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acetone	67-64-1		0.011	< 0.01	< 0.01	< 0.01	< 0.01
Carbon disulfide	75-15-0		0.0004 J	< 0.001	0.00026 J	0.00028 J	0.00087 J
1,1-Dichloroethene	75-35-4	0.007	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	156-59-2	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone	78-93-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,1-Trichloroethane	71-55-6	0.2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	0.06	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	71-43-2	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone	108-10-1		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Hexanone	591-78-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tetrachloroethene	127-18-4	0.005	< 0.001	0.00063 J	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	1	< 0.001	0.00021 J	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	0.7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	100-42-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	10	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
SVOCs (mg/L)							
4-Chloroaniline	106-47-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylnaphthalene	91-57-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitroaniline	88-74-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4,5-Trichlorophenol	95-95-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Chlorophenol	95-57-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenol	108-95-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitrophenol	88-75-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chloro-3-methylphenol	59-50-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	0.075	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	0.6	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachloroethane	67-72-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-nitroso-di-n-propylamine	621-64-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Nitrobenzene	98-95-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	78-59-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)methane	111-91-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,2,4-Trichlorobenzene	120-82-1	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	91-20-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value Blue font - Detected above method detection limit
 NA - Not Analyzed

Table 2 - Groundwater Analytical Results
 1st 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-1B 5/12/2015	MW-2B 5/12/2015	MW-3A 5/12/2015	MW-3B 5/12/2015	MW-4A 5/12/2015
Hexachlorocyclopentadiene	77-47-4	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Chloronaphthalene	91-58-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthylene	208-96-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethylphthalate	131-11-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylphenol	95-48-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,2'-oxybis(1-Chloropropane)	108-60-1		NA	NA	NA	NA	NA
4-Methylphenol	106-44-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dibenzofuran	132-64-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3-Nitroaniline	99-09-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Nitroaniline	100-01-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrophenol	51-28-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Nitrophenol	100-02-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methyl-4,6-Dinitrophenol	534-52-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Pentachlorophenol	87-86-5	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,6-Dinitrotoluene	606-20-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthene	83-32-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrotoluene	121-14-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluorene	86-73-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chlorophenyl-phenylether	7005-72-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl phthalate	84-66-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-Nitrosodiphenylamine	86-30-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromophenyl-phenylether	101-55-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobenzene	118-74-1	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenanthrene	85-01-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Anthracene	120-12-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Di-n-butyl phthalate	84-74-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoranthene	206-44-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Pyrene	129-00-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Butyl benzyl phthalate	85-68-7		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(a)anthracene	56-55-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chrysene	218-01-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3,3'-Dichlorobenzidine	91-94-1		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	0.006	0.00018	< 0.005	< 0.005	< 0.005	< 0.005
Di-n-octyl phthalate	117-84-0		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(b)fluoranthene	205-99-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(k)fluoranthene	207-08-9		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(a)pyrene	50-32-8	0.0002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Indeno(1,2,3-cd)pyrene	193-39-5		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dibenz(a,h)anthracene	53-70-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(g,h,i)perylene	191-24-2		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbazole	86-74-8		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Metals (mg/L)							
Antimony	7440-36-0	0.006	0.0018	0.00069 J	0.00027 J	0.00064 J	< 0.025
Arsenic	7440-38-2	0.01	0.013	0.0032 J	0.0038 J	0.0052	0.0077 J
Beryllium	7440-41-7	0.004	0.00057	< 0.002	< 0.002	0.0019 J	0.021
Cadmium	7440-43-9	0.005	< 0.002	0.00017 J	< 0.002	0.00032 J	0.002 J
Chromium	7440-47-3	0.1	0.15	0.12	0.2	0.64	1.8
Copper	7440-50-8	1.3	0.025	0.015	0.016	0.081	0.1
Lead	7439-92-1	0.015	0.0071	0.0034 J	0.0024 J	0.006	0.027
Mercury	7439-97-6	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.00029
Nickel	7440-02-0		0.11	0.053	0.12	0.19	1.5
Silver	7440-22-4		0.00013	< 0.005	< 0.005	0.00018 J	< 0.025
Zinc	7440-66-6		0.064	0.045	0.083	0.062	1.4

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value Blue font - Detected above method detection limit
 NA - Not Analyzed

Table 2 - Groundwater Analytical Results
 1st 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-4B 5/12/2015	MW-5A 5/13/2015	MW-5B 5/13/2015	MW-6A 5/13/2015	MW-6B 5/13/2015
VOCs (mg/L)							
Chloromethane	74-87-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	75-00-3		< 0.001	< 0.001	< 0.001	0.0035	< 0.001
Methylene Chloride	75-09-2	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acetone	67-64-1		< 0.01	< 0.01	0.0038 J	< 0.01	< 0.01
Carbon disulfide	75-15-0		0.00064 J	0.0017	< 0.001	0.00032 J	< 0.001
1,1-Dichloroethene	75-35-4	0.007	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	156-59-2	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	0.07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	0.005	< 0.001	< 0.001	< 0.001	0.00097 J	< 0.001
2-Butanone	78-93-3		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,1-Trichloroethane	71-55-6	0.2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	0.06	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	71-43-2	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone	108-10-1		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Hexanone	591-78-6		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tetrachloroethene	127-18-4	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	0.7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	100-42-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	10	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
SVOCs (mg/L)							
4-Chloroaniline	106-47-8		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
2-Methylnaphthalene	91-57-6		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
2-Nitroaniline	88-74-4		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
2,4,5-Trichlorophenol	95-95-4		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
2-Chlorophenol	95-57-8		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Phenol	108-95-2		0.0004 J	< 0.005	< 0.05	0.002 J	< 0.005
2-Nitrophenol	88-75-5		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
4-Chloro-3-methylphenol	59-50-7		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	0.075	< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	0.6	< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Hexachloroethane	67-72-1		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
N-nitroso-di-n-propylamine	621-64-7		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Nitrobenzene	98-95-3		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Isophorone	78-59-1		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
bis(2-Chloroethyl)methane	111-91-1		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
1,2,4-Trichlorobenzene	120-82-1	0.07	< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Naphthalene	91-20-3		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3		< 0.005	0.00062 J	0.0051 J	< 0.005	< 0.005

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value Blue font - Detected above method detection limit
 NA - Not Analyzed

Table 2 - Groundwater Analytical Results
 1st 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-4B 5/12/2015	MW-5A 5/13/2015	MW-5B 5/13/2015	MW-6A 5/13/2015	MW-6B 5/13/2015
Hexachlorocyclopentadiene	77-47-4	0.05	< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
2-Chloronaphthalene	91-58-7		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Acenaphthylene	208-96-8		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Dimethylphthalate	131-11-3		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
2-Methylphenol	95-48-7		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
2,2'-oxybis(1-Chloropropane)	108-60-1		NA	NA	NA	NA	NA
4-Methylphenol	106-44-5		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Dibenzofuran	132-64-9		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
3-Nitroaniline	99-09-2		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
4-Nitroaniline	100-01-6		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
2,4-Dinitrophenol	51-28-5		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
4-Nitrophenol	100-02-7		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
2-Methyl-4,6-Dinitrophenol	534-52-1		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Pentachlorophenol	87-86-5	0.001	< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
2,6-Dinitrotoluene	606-20-2		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Acenaphthene	83-32-9		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
2,4-Dinitrotoluene	121-14-2		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Fluorene	86-73-7		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
4-Chlorophenyl-phenylether	7005-72-3		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Diethyl phthalate	84-66-2		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
N-Nitrosodiphenylamine	86-30-6		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
4-Bromophenyl-phenylether	101-55-3		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Hexachlorobenzene	118-74-1	0.001	< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Phenanthrene	85-01-8		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Anthracene	120-12-7		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Di-n-butyl phthalate	84-74-2		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Fluoranthene	206-44-0		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Pyrene	129-00-0		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Butyl benzyl phthalate	85-68-7		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Benzo(a)anthracene	56-55-3		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Chrysene	218-01-9		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
3,3'-Dichlorobenzidine	91-94-1		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	0.006	< 0.005	0.015	< 0.05	< 0.005	< 0.005
Di-n-octyl phthalate	117-84-0		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Benzo(b)fluoranthene	205-99-2		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Benzo(k)fluoranthene	207-08-9		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Benzo(a)pyrene	50-32-8	0.0002	< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Indeno(1,2,3-cd)pyrene	193-39-5		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Dibenz(a,h)anthracene	53-70-3		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Benzo(g,h,i)perylene	191-24-2		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Carbazole	86-74-8		< 0.005	< 0.005	< 0.05	< 0.005	< 0.005
Metals (mg/L)							
Antimony	7440-36-0	0.006	0.0026 J	< 0.025	0.00084 J	0.00025 J	0.00019 J
Arsenic	7440-38-2	0.01	0.082	0.14	0.0035 J	0.013	0.0042 J
Beryllium	7440-41-7	0.004	0.018	0.058	0.00047 J	0.0046	< 0.002
Cadmium	7440-43-9	0.005	0.0014 J	0.008 J	< 0.002	0.00085 J	< 0.002
Chromium	7440-47-3	0.1	1.4	3.2	0.059	0.089	0.063
Copper	7440-50-8	1.3	0.32	0.47	0.012	0.02	0.0061
Lead	7439-92-1	0.015	0.04	0.15	0.028	0.027	0.0023 J
Mercury	7439-97-6	0.002	0.000081 J	0.00016 J	< 0.0002	0.00023	< 0.0002
Nickel	7440-02-0		1.1	3.2	0.052	0.13	0.05
Silver	7440-22-4		0.00084 J	0.0017 J	< 0.005	0.0001	< 0.005
Zinc	7440-66-6		1.5	5	0.11	0.26	0.022

Notes:
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 J - Estimated Value Blue font - Detected above method detection limit
 NA - Not Analyzed

Table 2 - Groundwater Analytical Results
 1st 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-7A 5/13/2015	MW-7B 5/13/2015	MW-8A 5/13/2015	MW-8B 5/13/2015
VOCs (mg/L)						
Chloromethane	74-87-3		< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9		< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	0.002	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	75-00-3		< 0.001	< 0.001	< 0.001	< 0.001
Methylene Chloride	75-09-2	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acetone	67-64-1		< 0.01	0.0034 J	< 0.01	< 0.01
Carbon disulfide	75-15-0		0.00028 J	< 0.001	0.00034 J	< 0.001
1,1-Dichloroethene	75-35-4	0.007	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3		< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	156-59-2	0.07	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	0.07	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	0.005	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone	78-93-3		< 0.005	< 0.005	< 0.005	< 0.005
1,1,1-Trichloroethane	71-55-6	0.2	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4		< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5		< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	0.005	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	0.06	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	71-43-2	0.005	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6		< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2		< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone	108-10-1		< 0.001	< 0.001	< 0.001	< 0.001
2-Hexanone	591-78-6		< 0.005	< 0.005	< 0.005	< 0.005
Tetrachloroethene	127-18-4	0.005	0.0052	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5		< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	1	0.00033 J	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	0.1	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	0.7	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	100-42-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	10	< 0.003	< 0.003	< 0.003	< 0.003
SVOCs (mg/L)						
4-Chloroaniline	106-47-8		< 0.005	< 0.005	< 0.005	< 0.005
2-Methylnaphthalene	91-57-6		< 0.005	< 0.005	< 0.005	< 0.005
2-Nitroaniline	88-74-4		< 0.005	< 0.005	< 0.005	< 0.005
2,4,5-Trichlorophenol	95-95-4		< 0.005	< 0.005	< 0.005	< 0.005
2-Chlorophenol	95-57-8		< 0.005	< 0.005	< 0.005	< 0.005
Phenol	108-95-2		< 0.005	< 0.005	< 0.005	< 0.005
2-Nitrophenol	88-75-5		< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9		< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2		< 0.005	< 0.005	< 0.005	< 0.005
4-Chloro-3-methylphenol	59-50-7		< 0.005	< 0.005	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2		< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4		< 0.005	< 0.005	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1		< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	0.075	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	0.6	< 0.005	< 0.005	< 0.005	< 0.005
Hexachloroethane	67-72-1		< 0.005	< 0.005	< 0.005	< 0.005
N-nitroso-di-n-propylamine	621-64-7		< 0.005	< 0.005	< 0.005	< 0.005
Nitrobenzene	98-95-3		< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	78-59-1		< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)methane	111-91-1		< 0.005	< 0.005	< 0.005	< 0.005
1,2,4-Trichlorobenzene	120-82-1	0.07	< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	91-20-3		< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3		0.00064 J	0.00043 J	0.00054 J	< 0.005

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value Blue font - Detected above method detection limit
 NA - Not Analyzed

Table 2 - Groundwater Analytical Results
 1st 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	MW-7A 5/13/2015	MW-7B 5/13/2015	MW-8A 5/13/2015	MW-8B 5/13/2015
Hexachlorocyclopentadiene	77-47-4	0.05	< 0.005	< 0.005	< 0.005	< 0.005
2-Chloronaphthalene	91-58-7		< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthylene	208-96-8		< 0.005	< 0.005	< 0.005	< 0.005
Dimethylphthalate	131-11-3		< 0.005	< 0.005	< 0.005	< 0.005
2-Methylphenol	95-48-7		< 0.005	< 0.005	< 0.005	< 0.005
2,2'-oxybis(1-Chloropropane)	108-60-1		NA	NA	NA	NA
4-Methylphenol	106-44-5		< 0.005	< 0.005	< 0.005	< 0.005
Dibenzofuran	132-64-9		< 0.005	< 0.005	< 0.005	< 0.005
3-Nitroaniline	99-09-2		< 0.005	< 0.005	< 0.005	< 0.005
4-Nitroaniline	100-01-6		< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrophenol	51-28-5		< 0.005	< 0.005	< 0.005	< 0.005
4-Nitrophenol	100-02-7		< 0.005	< 0.005	< 0.005	< 0.005
2-Methyl-4,6-Dinitrophenol	534-52-1		< 0.005	< 0.005	< 0.005	< 0.005
Pentachlorophenol	87-86-5	0.001	< 0.005	< 0.005	< 0.005	< 0.005
2,6-Dinitrotoluene	606-20-2		< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthene	83-32-9		< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrotoluene	121-14-2		< 0.005	< 0.005	< 0.005	< 0.005
Fluorene	86-73-7		< 0.005	< 0.005	< 0.005	< 0.005
4-Chlorophenyl-phenylether	7005-72-3		< 0.005	< 0.005	< 0.005	< 0.005
Diethyl phthalate	84-66-2		< 0.005	< 0.005	< 0.005	0.0002 J
N-Nitrosodiphenylamine	86-30-6		< 0.005	< 0.005	< 0.005	< 0.005
4-Bromophenyl-phenylether	101-55-3		< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobenzene	118-74-1	0.001	< 0.005	< 0.005	< 0.005	< 0.005
Phenanthrene	85-01-8		< 0.005	< 0.005	< 0.005	< 0.005
Anthracene	120-12-7		< 0.005	< 0.005	< 0.005	< 0.005
Di-n-butyl phthalate	84-74-2		< 0.005	< 0.005	< 0.005	< 0.005
Fluoranthene	206-44-0		< 0.005	< 0.005	< 0.005	< 0.005
Pyrene	129-00-0		< 0.005	< 0.005	< 0.005	< 0.005
Butyl benzyl phthalate	85-68-7		< 0.005	< 0.005	< 0.005	< 0.005
Benzo(a)anthracene	56-55-3		< 0.005	< 0.005	< 0.005	< 0.005
Chrysene	218-01-9		< 0.005	< 0.005	< 0.005	< 0.005
3,3'-Dichlorobenzidine	91-94-1		< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	0.006	< 0.005	< 0.005	< 0.005	0.00046 J
Di-n-octyl phthalate	117-84-0		< 0.005	< 0.005	< 0.005	< 0.005
Benzo(b)fluoranthene	205-99-2		< 0.005	< 0.005	< 0.005	< 0.005
Benzo(k)fluoranthene	207-08-9		< 0.005	< 0.005	< 0.005	< 0.005
Benzo(a)pyrene	50-32-8	0.0002	< 0.005	< 0.005	< 0.005	< 0.005
Indeno(1,2,3-cd)pyrene	193-39-5		< 0.005	< 0.005	< 0.005	< 0.005
Dibenz(a,h)anthracene	53-70-3		< 0.005	< 0.005	< 0.005	< 0.005
Benzo(g,h,i)perylene	191-24-2		< 0.005	< 0.005	< 0.005	< 0.005
Carbazole	86-74-8		< 0.005	< 0.005	< 0.005	< 0.005
Metals (mg/L)						
Antimony	7440-36-0	0.006	< 0.005	< 0.005	0.00037 J	0.0028 J
Arsenic	7440-38-2	0.01	0.0082	0.0028 J	0.0036 J	0.0056
Beryllium	7440-41-7	0.004	< 0.002	< 0.002	0.0078	0.00091 J
Cadmium	7440-43-9	0.005	0.00016 J	0.00051 J	0.00046 J	0.0005 J
Chromium	7440-47-3	0.1	0.041	0.042	0.096	0.087
Copper	7440-50-8	1.3	0.012	0.0048 J	0.024	0.035
Lead	7439-92-1	0.015	0.0021 J	0.00081 J	0.0024 J	0.0041 J
Mercury	7439-97-6	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	7440-02-0		0.034	0.032	0.085	0.074
Silver	7440-22-4		< 0.005	< 0.005	0.00012 J	0.00041
Zinc	7440-66-6		0.056	0.02	0.039	0.051

Notes:
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 NA - Not Analyzed

Table 2 - Groundwater Analytical Results
 1st 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	EW-1 5/11/2015	EW-2 5/11/2015	EW-3 5/11/2015	EW-4 5/11/2015
VOCs (mg/L)						
Chloromethane	74-87-3		< 0.001	0.0034	< 0.001	< 0.001
Bromomethane	74-83-9		< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	0.002	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	75-00-3		0.008	0.013	0.023	0.02
Methylene Chloride	75-09-2	0.005	< 0.005	0.0013 J	0.0043 J	< 0.005
Acetone	67-64-1		< 0.01	0.0062 J	0.0078 J	< 0.01
Carbon disulfide	75-15-0		< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethene	75-35-4	0.007	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3		0.00034 J	< 0.001	< 0.001	0.0018
cis-1,2-Dichloroethene	156-59-2	0.07	< 0.001	0.00073 J	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	0.1	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	0.07	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	0.005	0.0041	0.0094	0.0072	< 0.001
2-Butanone	78-93-3		< 0.005	0.0019 J	0.0014 J	< 0.005
1,1,1-Trichloroethane	71-55-6	0.2	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4		< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5		< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	0.005	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	0.06	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	0.005	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	71-43-2	0.005	< 0.001	0.0021	0.0061	< 0.001
trans-1,3-Dichloropropene	10061-02-6		< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2		< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone	108-10-1		< 0.001	< 0.001	0.0034	< 0.001
2-Hexanone	591-78-6		< 0.005	< 0.005	< 0.005	< 0.005
Tetrachloroethene	127-18-4	0.005	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5		< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	1	< 0.001	0.00044 J	0.012	< 0.001
Chlorobenzene	108-90-7	0.1	< 0.001	0.00055 J	0.00084 J	< 0.001
Ethylbenzene	100-41-4	0.7	0.00031 J	0.036	4	< 0.001
Styrene	100-42-5	0.1	< 0.001	< 0.001	0.00075 J	< 0.001
Xylene (total)	1330-20-7	10	< 0.003	< 0.003	0.0098	< 0.003
SVOCs (mg/L)						
4-Chloroaniline	106-47-8		< 0.005	< 0.005	< 0.005	< 0.005
2-Methylnaphthalene	91-57-6		< 0.005	< 0.005	< 0.005	0.00038 J
2-Nitroaniline	88-74-4		< 0.005	< 0.005	< 0.005	< 0.005
2,4,5-Trichlorophenol	95-95-4		< 0.005	< 0.005	< 0.005	< 0.005
2-Chlorophenol	95-57-8		< 0.005	< 0.005	< 0.005	< 0.005
Phenol	108-95-2		0.0039 J	0.019	0.059	0.013
2-Nitrophenol	88-75-5		< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9		< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2		< 0.005	< 0.005	< 0.005	< 0.005
4-Chloro-3-methylphenol	59-50-7		< 0.005	< 0.005	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2		< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4		< 0.005	0.00069 J	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1		< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	0.075	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	0.6	< 0.005	< 0.005	< 0.005	< 0.005
Hexachloroethane	67-72-1		< 0.005	< 0.005	< 0.005	< 0.005
N-nitroso-di-n-propylamine	621-64-7		< 0.005	< 0.005	< 0.005	< 0.005
Nitrobenzene	98-95-3		< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	78-59-1		< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)methane	111-91-1		< 0.005	< 0.005	< 0.005	< 0.005
1,2,4-Trichlorobenzene	120-82-1	0.07	< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	91-20-3		< 0.005	< 0.005	0.00026 J	0.00094 J
Hexachlorobutadiene	87-68-3		< 0.005	< 0.005	< 0.005	< 0.005

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value Blue font - Detected above method detection limit
 NA - Not Analyzed

Table 2 - Groundwater Analytical Results
 1st 2015 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MCLs	EW-1 5/11/2015	EW-2 5/11/2015	EW-3 5/11/2015	EW-4 5/11/2015
Hexachlorocyclopentadiene	77-47-4	0.05	< 0.005	< 0.005	< 0.005	< 0.005
2-Chloronaphthalene	91-58-7		< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthylene	208-96-8		< 0.005	< 0.005	< 0.005	< 0.005
Dimethylphthalate	131-11-3		< 0.005	< 0.005	< 0.005	< 0.005
2-Methylphenol	95-48-7		< 0.005	< 0.005	0.0022 J	< 0.005
2,2'-oxybis(1-Chloropropane)	108-60-1		NA	NA	NA	NA
4-Methylphenol	106-44-5		< 0.005	< 0.005	< 0.005	< 0.005
Dibenzofuran	132-64-9		< 0.005	< 0.005	< 0.005	< 0.005
3-Nitroaniline	99-09-2		< 0.005	< 0.005	< 0.005	< 0.005
4-Nitroaniline	100-01-6		< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrophenol	51-28-5		< 0.005	< 0.005	< 0.005	< 0.005
4-Nitrophenol	100-02-7		< 0.005	< 0.005	< 0.005	< 0.005
2-Methyl-4,6-Dinitrophenol	534-52-1		< 0.005	< 0.005	< 0.005	< 0.005
Pentachlorophenol	87-86-5	0.001	< 0.005	< 0.005	< 0.005	< 0.005
2,6-Dinitrotoluene	606-20-2		< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthene	83-32-9		< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dinitrotoluene	121-14-2		< 0.005	< 0.005	< 0.005	< 0.005
Fluorene	86-73-7		< 0.005	< 0.005	< 0.005	< 0.005
4-Chlorophenyl-phenylether	7005-72-3		< 0.005	< 0.005	< 0.005	< 0.005
Diethyl phthalate	84-66-2		< 0.005	< 0.005	< 0.005	< 0.005
N-Nitrosodiphenylamine	86-30-6		< 0.005	< 0.005	< 0.005	< 0.005
4-Bromophenyl-phenylether	101-55-3		< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobenzene	118-74-1	0.001	< 0.005	< 0.005	< 0.005	< 0.005
Phenanthrene	85-01-8		< 0.005	< 0.005	0.0006 J	< 0.005
Anthracene	120-12-7		< 0.005	< 0.005	< 0.005	< 0.005
Di-n-butyl phthalate	84-74-2		< 0.005	< 0.005	< 0.005	< 0.005
Fluoranthene	206-44-0		< 0.005	< 0.005	< 0.005	< 0.005
Pyrene	129-00-0		< 0.005	< 0.005	0.00035 J	< 0.005
Butyl benzyl phthalate	85-68-7		< 0.005	< 0.005	< 0.005	< 0.005
Benzo(a)anthracene	56-55-3		< 0.005	< 0.005	< 0.005	< 0.005
Chrysene	218-01-9		< 0.005	< 0.005	0.0003 J	< 0.005
3,3'-Dichlorobenzidine	91-94-1		< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	0.006	< 0.005	< 0.005	0.01	< 0.005
Di-n-octyl phthalate	117-84-0		< 0.005	< 0.005	< 0.005	< 0.005
Benzo(b)fluoranthene	205-99-2		< 0.005	< 0.005	0.00014 J	< 0.005
Benzo(k)fluoranthene	207-08-9		< 0.005	< 0.005	< 0.005	< 0.005
Benzo(a)pyrene	50-32-8	0.0002	< 0.005	< 0.005	0.00034 J	< 0.005
Indeno(1,2,3-cd)pyrene	193-39-5		< 0.005	< 0.005	< 0.005	< 0.005
Dibenz(a,h)anthracene	53-70-3		< 0.005	< 0.005	0.00038 J	< 0.005
Benzo(g,h,i)perylene	191-24-2		< 0.005	< 0.005	0.00016 J	< 0.005
Carbazole	86-74-8		< 0.005	< 0.005	< 0.005	< 0.005
Metals (mg/L)						
Antimony	7440-36-0	0.006	0.001 J	0.00012 J	0.0012 J	< 0.005
Arsenic	7440-38-2	0.01	0.0071	0.0066	0.011	0.017
Beryllium	7440-41-7	0.004	0.0013 J	0.0013 J	< 0.002	< 0.002
Cadmium	7440-43-9	0.005	0.00029 J	< 0.002	< 0.002	< 0.002
Chromium	7440-47-3	0.1	0.35	0.0018 J	0.033	0.0004 J
Copper	7440-50-8	1.3	1.8	0.11	0.78	0.06
Lead	7439-92-1	0.015	0.23	0.043	0.064	0.013
Mercury	7439-97-6	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	7440-02-0		1.7	0.08	0.068	0.05
Silver	7440-22-4		< 0.005	< 0.005	0.00035 J	< 0.005
Zinc	7440-66-6		1	0.084	0.31	0.21

Notes:
 Blank cell - No data available Bold - Exceeds Maximum Contaminant Level (MCL)
 J - Estimated Value Blue font - Detected above method detection limit
 NA - Not Analyzed

Table 2 - Groundwater Analytical Results
 2nd 2014 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-1B 11/24/2014	MW-2B 11/24/2014	MW-3A 11/18/2014	MW-3B 11/18/2014	MW-4A 11/19/2014
VOCs (mg/L)						
Chloromethane	74-87-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	75-00-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Methylene Chloride	75-09-2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acetone	67-64-1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbon disulfide	75-15-0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethene	75-35-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	156-59-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone	78-93-3	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,1-Trichloroethane	71-55-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	71-43-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone	108-10-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Hexanone	591-78-6	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tetrachloroethene	127-18-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	100-42-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
SVOCs (mg/L)						
4-Chloroaniline	106-47-8	< 0.02	< 0.021	< 0.02	< 0.02	< 0.02
2-Methylnaphthalene	91-57-6	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
2-Nitroaniline	88-74-4	< 0.02	< 0.021	< 0.02	< 0.02	< 0.02
2,4,5-Trichlorophenol	95-95-4	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
2-Chlorophenol	95-57-8	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Phenol	108-95-2	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
2-Nitrophenol	88-75-5	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2	< 0.01	< 0.011	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	59-50-7	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Hexachloroethane	67-72-1	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
N-nitroso-di-n-propylamine	621-64-7	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Nitrobenzene	98-95-3	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Isophorone	78-59-1	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)methane	111-91-1	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
1,2,4-Trichlorobenzene	120-82-1	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Naphthalene	91-20-3	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Hexachlorocyclopentadiene	77-47-4	< 0.02	< 0.021	< 0.02	< 0.02	< 0.02
2-Chloronaphthalene	91-58-7	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Acenaphthylene	208-96-8	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Dimethylphthalate	131-11-3	< 0.02	< 0.021	< 0.02	< 0.02	< 0.02
2-Methylphenol	95-48-7	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
2,2'-oxybis(1-Chloropropane)	108-60-1	NA	NA	NA	NA	NA

Table 2 - Groundwater Analytical Results
 2nd 2014 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-1B 11/24/2014	MW-2B 11/24/2014	MW-3A 11/18/2014	MW-3B 11/18/2014	MW-4A 11/19/2014
4-Methylphenol	106-44-5	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Dibenzofuran	132-64-9	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
3-Nitroaniline	99-09-2	< 0.02	< 0.021	< 0.02	< 0.02	< 0.02
4-Nitroaniline	100-01-6	< 0.02	< 0.021	< 0.02	< 0.02	< 0.02
2,4-Dinitrophenol	51-28-5	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
4-Nitrophenol	100-02-7	< 0.02	< 0.021	< 0.02	< 0.02	< 0.02
2-Methyl-4,6-Dinitrophenol	534-52-1	< 0.02	< 0.021	< 0.02	< 0.02	< 0.02
Pentachlorophenol	87-86-5	< 0.02	< 0.021	< 0.02	< 0.02	< 0.02
2,6-Dinitrotoluene	606-20-2	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Acenaphthene	83-32-9	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
2,4-Dinitrotoluene	121-14-2	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Fluorene	86-73-7	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
4-Chlorophenyl-phenylether	7005-72-3	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Diethyl phthalate	84-66-2	< 0.02	< 0.021	< 0.02	< 0.02	< 0.02
N-Nitrosodiphenylamine	86-30-6	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
4-Bromophenyl-phenylether	101-55-3	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Hexachlorobenzene	118-74-1	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Phenanthrene	85-01-8	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Anthracene	120-12-7	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Di-n-butyl phthalate	84-74-2	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Fluoranthene	206-44-0	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Pyrene	129-00-0	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Butyl benzyl phthalate	85-68-7	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Benzo(a)anthracene	56-55-3	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Chrysene	218-01-9	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
3,3'-Dichlorobenzidine	91-94-1	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Di-n-octyl phthalate	117-84-0	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Benzo(b)fluoranthene	205-99-2	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Benzo(k)fluoranthene	207-08-9	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Benzo(a)pyrene	50-32-8	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Dibenz(a,h)anthracene	53-70-3	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Benzo(g,h,i)perylene	191-24-2	< 0.005	< 0.0053	< 0.005	< 0.005	< 0.005
Carbazole	86-74-8	< 0.01	< 0.011	< 0.01	< 0.01	< 0.01
Metals (mg/L)						
Antimony	7440-36-0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	7440-38-2	0.011	< 0.005	< 0.005	< 0.005	< 0.005
Beryllium	7440-41-7	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cadmium	7440-43-9	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Chromium	7440-47-3	0.099	0.05	0.13	0.45	0.16
Copper	7440-50-8	0.0097	< 0.005	0.0062	0.044	0.011
Lead	7439-92-1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Mercury	7439-97-6	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	7440-02-0	0.073	0.021	0.04	0.093	0.071
Silver	7440-22-4	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	7440-66-6	0.033	0.014	0.032	0.036	0.035
Calcium	7440-70-2	NA	NA	NA	NA	NA
Iron	7439-89-6	NA	NA	NA	NA	NA
Magnesium	7439-95-4	NA	NA	NA	NA	NA
Potassium	7440-09-7	NA	NA	NA	NA	NA
Sodium	7440-23-5	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	---	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	---	NA	NA	NA	NA	NA
Total Dissolved Solids	---	NA	NA	NA	NA	NA
Nitrite Nitrogen	14797-65-0	NA	NA	NA	NA	NA
Nitrate Nitrogen	14797-55-8	NA	NA	NA	NA	NA
Ammonia Nitrogen	7664-41-7	NA	NA	NA	NA	NA
Chloride	16887-00-6	NA	NA	NA	NA	NA
Sulfate	14808-79-8	NA	NA	NA	NA	NA
Bicarbonate	71-52-3	NA	NA	NA	NA	NA
Carbonate	20227-92-3	NA	NA	NA	NA	NA

Table 2 - Groundwater Analytical Results
 2nd 2014 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-4B 11/19/2014	MW-5A 11/24/2014	MW-5B 11/24/2014	MW-6A 11/20/2014	MW-6B 11/21/2014
VOCs (mg/L)						
Chloromethane	74-87-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	75-00-3	< 0.001	< 0.001	< 0.001	0.0074	< 0.001
Methylene Chloride	75-09-2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acetone	67-64-1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbon disulfide	75-15-0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethene	75-35-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	156-59-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	< 0.001	< 0.001	< 0.001	0.0024	< 0.001
1,2-Dichloroethane	107-06-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone	78-93-3	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,1-Trichloroethane	71-55-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	71-43-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone	108-10-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Hexanone	591-78-6	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tetrachloroethene	127-18-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	100-42-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
SVOCs (mg/L)						
4-Chloroaniline	106-47-8	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02
2-Methylnaphthalene	91-57-6	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
2-Nitroaniline	88-74-4	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02
2,4,5-Trichlorophenol	95-95-4	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
2-Chlorophenol	95-57-8	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Phenol	108-95-2	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
2-Nitrophenol	88-75-5	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2	< 0.01	< 0.011	< 0.011	< 0.01	< 0.01
4-Chloro-3-methylphenol	59-50-7	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Hexachloroethane	67-72-1	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
N-nitroso-di-n-propylamine	621-64-7	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Nitrobenzene	98-95-3	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Isophorone	78-59-1	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
bis(2-Chloroethyl)methane	111-91-1	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
1,2,4-Trichlorobenzene	120-82-1	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Naphthalene	91-20-3	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Hexachlorocyclopentadiene	77-47-4	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02
2-Chloronaphthalene	91-58-7	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Acenaphthylene	208-96-8	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Dimethylphthalate	131-11-3	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02
2-Methylphenol	95-48-7	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
2,2'-oxybis(1-Chloropropane)	108-60-1	NA	NA	NA	NA	NA

Table 2 - Groundwater Analytical Results
 2nd 2014 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-4B 11/19/2014	MW-5A 11/24/2014	MW-5B 11/24/2014	MW-6A 11/20/2014	MW-6B 11/21/2014
4-Methylphenol	106-44-5	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Dibenzofuran	132-64-9	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
3-Nitroaniline	99-09-2	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02
4-Nitroaniline	100-01-6	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02
2,4-Dinitrophenol	51-28-5	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
4-Nitrophenol	100-02-7	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02
2-Methyl-4,6-Dinitrophenol	534-52-1	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02
Pentachlorophenol	87-86-5	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02
2,6-Dinitrotoluene	606-20-2	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Acenaphthene	83-32-9	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
2,4-Dinitrotoluene	121-14-2	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Fluorene	86-73-7	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
4-Chlorophenyl-phenylether	7005-72-3	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Diethyl phthalate	84-66-2	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02
N-Nitrosodiphenylamine	86-30-6	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
4-Bromophenyl-phenylether	101-55-3	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Hexachlorobenzene	118-74-1	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Phenanthrene	85-01-8	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Anthracene	120-12-7	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Di-n-butyl phthalate	84-74-2	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Fluoranthene	206-44-0	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Pyrene	129-00-0	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Butyl benzyl phthalate	85-68-7	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Benzo(a)anthracene	56-55-3	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Chrysene	218-01-9	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
3,3'-Dichlorobenzidine	91-94-1	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Di-n-octyl phthalate	117-84-0	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Benzo(b)fluoranthene	205-99-2	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Benzo(k)fluoranthene	207-08-9	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Benzo(a)pyrene	50-32-8	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Dibenz(a,h)anthracene	53-70-3	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Benzo(g,h,i)perylene	191-24-2	< 0.005	< 0.0056	< 0.0053	< 0.005	< 0.005
Carbazole	86-74-8	< 0.01	< 0.011	< 0.011	< 0.01	< 0.01
Metals (mg/L)						
Antimony	7440-36-0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	7440-38-2	0.006	< 0.005	< 0.005	< 0.005	< 0.005
Beryllium	7440-41-7	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cadmium	7440-43-9	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Chromium	7440-47-3	0.057	0.032	0.02	0.008	0.043
Copper	7440-50-8	0.012	< 0.005	< 0.005	< 0.005	< 0.005
Lead	7439-92-1	< 0.005	< 0.005	0.042	< 0.005	< 0.005
Mercury	7439-97-6	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	7440-02-0	0.05	0.031	0.01	0.0054	0.023
Silver	7440-22-4	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	7440-66-6	0.084	0.039	0.045	0.01	0.017
Calcium	7440-70-2	NA	NA	NA	NA	NA
Iron	7439-89-6	NA	NA	NA	NA	NA
Magnesium	7439-95-4	NA	NA	NA	NA	NA
Potassium	7440-09-7	NA	NA	NA	NA	NA
Sodium	7440-23-5	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	---	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	---	NA	NA	NA	NA	NA
Total Dissolved Solids	---	NA	NA	NA	NA	NA
Nitrite Nitrogen	14797-65-0	NA	NA	NA	NA	NA
Nitrate Nitrogen	14797-55-8	NA	NA	NA	NA	NA
Ammonia Nitrogen	7664-41-7	NA	NA	NA	NA	NA
Chloride	16887-00-6	NA	NA	NA	NA	NA
Sulfate	14808-79-8	NA	NA	NA	NA	NA
Bicarbonate	71-52-3	NA	NA	NA	NA	NA
Carbonate	20227-92-3	NA	NA	NA	NA	NA

Table 2 - Groundwater Analytical Results
 2nd 2014 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-7A 11/21/2014	MW-7B 11/21/2014	MW-8A 11/19/2014	MW-8B 11/19/2014
VOCs (mg/L)					
Chloromethane	74-87-3	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	75-00-3	< 0.001	< 0.001	< 0.001	< 0.001
Methylene Chloride	75-09-2	< 0.005	< 0.005	< 0.005	< 0.005
Acetone	67-64-1	< 0.01	< 0.01	< 0.01	< 0.01
Carbon disulfide	75-15-0	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethene	75-35-4	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	156-59-2	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone	78-93-3	< 0.005	< 0.005	< 0.005	< 0.005
1,1,1-Trichloroethane	71-55-6	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	71-43-2	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone	108-10-1	< 0.001	< 0.001	< 0.001	< 0.001
2-Hexanone	591-78-6	< 0.005	< 0.005	< 0.005	< 0.005
Tetrachloroethene	127-18-4	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	100-42-5	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	< 0.003	< 0.003	< 0.003	< 0.003
SVOCs (mg/L)					
4-Chloroaniline	106-47-8	< 0.02	< 0.02	< 0.02	< 0.02
2-Methylnaphthalene	91-57-6	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitroaniline	88-74-4	< 0.02	< 0.02	< 0.02	< 0.02
2,4,5-Trichlorophenol	95-95-4	< 0.005	< 0.005	< 0.005	< 0.005
2-Chlorophenol	95-57-8	< 0.005	< 0.005	< 0.005	< 0.005
Phenol	108-95-2	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitrophenol	88-75-5	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	59-50-7	< 0.005	< 0.005	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4	< 0.005	< 0.005	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1	< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	< 0.005	< 0.005	< 0.005	< 0.005
Hexachloroethane	67-72-1	< 0.005	< 0.005	< 0.005	< 0.005
N-nitroso-di-n-propylamine	621-64-7	< 0.005	< 0.005	< 0.005	< 0.005
Nitrobenzene	98-95-3	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	78-59-1	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)methane	111-91-1	< 0.005	< 0.005	< 0.005	< 0.005
1,2,4-Trichlorobenzene	120-82-1	< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	91-20-3	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorocyclopentadiene	77-47-4	< 0.02	< 0.02	< 0.02	< 0.02
2-Chloronaphthalene	91-58-7	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthylene	208-96-8	< 0.005	< 0.005	< 0.005	< 0.005
Dimethylphthalate	131-11-3	< 0.02	< 0.02	< 0.02	< 0.02
2-Methylphenol	95-48-7	< 0.005	< 0.005	< 0.005	< 0.005
2,2'-oxybis(1-Chloropropane)	108-60-1	NA	NA	NA	NA

Table 2 - Groundwater Analytical Results
 2nd 2014 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-7A 11/21/2014	MW-7B 11/21/2014	MW-8A 11/19/2014	MW-8B 11/19/2014
4-Methylphenol	106-44-5	< 0 005	< 0 005	< 0 005	< 0 005
Dibenzofuran	132-64-9	< 0 005	< 0 005	< 0 005	< 0 005
3-Nitroaniline	99-09-2	< 0 02	< 0 02	< 0 02	< 0 02
4-Nitroaniline	100-01-6	< 0 02	< 0 02	< 0 02	< 0 02
2,4-Dinitrophenol	51-28-5	< 0 005	< 0 005	< 0 005	< 0 005
4-Nitrophenol	100-02-7	< 0 02	< 0 02	< 0 02	< 0 02
2-Methyl-4,6-Dinitrophenol	534-52-1	< 0 02	< 0 02	< 0 02	< 0 02
Pentachlorophenol	87-86-5	< 0 02	< 0 02	< 0 02	< 0 02
2,6-Dinitrotoluene	606-20-2	< 0 005	< 0 005	< 0 005	< 0 005
Acenaphthene	83-32-9	< 0 005	< 0 005	< 0 005	< 0 005
2,4-Dinitrotoluene	121-14-2	< 0 005	< 0 005	< 0 005	< 0 005
Fluorene	86-73-7	< 0 005	< 0 005	< 0 005	< 0 005
4-Chlorophenyl-phenylether	7005-72-3	< 0 005	< 0 005	< 0 005	< 0 005
Diethyl phthalate	84-66-2	< 0 02	< 0 02	< 0 02	< 0 02
N-Nitrosodiphenylamine	86-30-6	< 0 005	< 0 005	< 0 005	< 0 005
4-Bromophenyl-phenylether	101-55-3	< 0 005	< 0 005	< 0 005	< 0 005
Hexachlorobenzene	118-74-1	< 0 005	< 0 005	< 0 005	< 0 005
Phenanthrene	85-01-8	< 0 005	< 0 005	< 0 005	< 0 005
Anthracene	120-12-7	< 0 005	< 0 005	< 0 005	< 0 005
Di-n-butyl phthalate	84-74-2	< 0 005	< 0 005	< 0 005	< 0 005
Fluoranthene	206-44-0	< 0 005	< 0 005	< 0 005	< 0 005
Pyrene	129-00-0	< 0 005	< 0 005	< 0 005	< 0 005
Butyl benzyl phthalate	85-68-7	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(a)anthracene	56-55-3	< 0 005	< 0 005	< 0 005	< 0 005
Chrysene	218-01-9	< 0 005	< 0 005	< 0 005	< 0 005
3,3'-Dichlorobenzidine	91-94-1	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Ethylhexyl)phthalate	117-81-7	< 0 005	< 0 005	< 0 005	< 0 005
Di-n-octyl phthalate	117-84-0	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(b)fluoranthene	205-99-2	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(k)fluoranthene	207-08-9	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(a)pyrene	50-32-8	< 0 005	< 0 005	< 0 005	< 0 005
Indeno(1,2,3-cd)pyrene	193-39-5	< 0 005	< 0 005	< 0 005	< 0 005
Dibenz(a,h)anthracene	53-70-3	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(g,h,i)perylene	191-24-2	< 0 005	< 0 005	< 0 005	< 0 005
Carbazole	86-74-8	< 0 01	< 0 01	< 0 01	< 0 01
Metals (mg/L)					
Antimony	7440-36-0	< 0 005	< 0 005	< 0 005	< 0 005
Arsenic	7440-38-2	0 013	< 0 005	< 0 005	< 0 005
Beryllium	7440-41-7	< 0 002	< 0 002	< 0 002	< 0 002
Cadmium	7440-43-9	< 0 002	< 0 002	< 0 002	< 0 002
Chromium	7440-47-3	< 0 005	0 0088	0 057	0 037
Copper	7440-50-8	< 0 005	< 0 005	0 011	0 0071
Lead	7439-92-1	< 0 005	< 0 005	< 0 005	< 0 005
Mercury	7439-97-6	< 0 0002	< 0 0002	< 0 0002	< 0 0002
Nickel	7440-02-0	0 017	0 0084	0 05	0 021
Silver	7440-22-4	< 0 005	< 0 005	< 0 005	< 0 005
Zinc	7440-66-6	0 018	0 018	0 017	0 024
Calcium	7440-70-2	NA	NA	NA	NA
Iron	7439-89-6	NA	NA	NA	NA
Magnesium	7439-95-4	NA	NA	NA	NA
Potassium	7440-09-7	NA	NA	NA	NA
Sodium	7440-23-5	NA	NA	NA	NA
Alkalinity to pH 8.3	---	NA	NA	NA	NA
Alkalinity to pH 4.5	---	NA	NA	NA	NA
Total Dissolved Solids	---	NA	NA	NA	NA
Nitrite Nitrogen	14797-65-0	NA	NA	NA	NA
Nitrate Nitrogen	14797-55-8	NA	NA	NA	NA
Ammonia Nitrogen	7664-41-7	NA	NA	NA	NA
Chloride	16887-00-6	NA	NA	NA	NA
Sulfate	14808-79-8	NA	NA	NA	NA
Bicarbonate	71-52-3	NA	NA	NA	NA
Carbonate	20227-92-3	NA	NA	NA	NA

Table 2 - Groundwater Analytical Results
 2nd 2014 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	EW-1 11/18/2014	EW-2 11/17/2014	EW-3 11/17/2014	EW-4 11/17/2014
VOCs (mg/L)					
Chloromethane	74-87-3	< 0.001	< 0.001	< 0.01	< 0.001
Bromomethane	74-83-9	< 0.001	< 0.001	< 0.01	< 0.001
Vinyl Chloride	75-01-4	< 0.001	< 0.001	< 0.01	< 0.001
Chloroethane	75-00-3	< 0.001	0.016	0.023	0.02
Methylene Chloride	75-09-2	< 0.005	< 0.005	< 0.05	< 0.005
Acetone	67-64-1	< 0.01	< 0.01	< 0.1	< 0.01
Carbon disulfide	75-15-0	< 0.001	< 0.001	< 0.01	< 0.001
1,1-Dichloroethene	75-35-4	< 0.001	< 0.001	< 0.01	< 0.001
1,1-Dichloroethane	75-34-3	< 0.001	< 0.001	< 0.01	< 0.001
cis-1,2-Dichloroethene	156-59-2	< 0.001	< 0.001	< 0.01	< 0.001
trans-1,2-Dichloroethene	156-60-5	< 0.001	< 0.001	< 0.01	< 0.001
Chloroform	67-66-3	< 0.001	< 0.001	< 0.01	< 0.001
1,2-Dichloroethane	107-06-2	0.002	0.0099	< 0.01	0.0022
2-Butanone	78-93-3	< 0.005	< 0.005	< 0.05	< 0.005
1,1,1-Trichloroethane	71-55-6	< 0.001	< 0.001	< 0.01	< 0.001
Carbon tetrachloride	56-23-5	< 0.001	< 0.001	< 0.01	< 0.001
Bromodichloromethane	75-27-4	< 0.001	< 0.001	< 0.01	< 0.001
1,2-Dichloropropane	78-87-5	< 0.001	< 0.001	< 0.01	< 0.001
cis-1,3-Dichloropropene	10061-01-5	< 0.001	< 0.001	< 0.01	< 0.001
Trichloroethene	79-01-6	< 0.001	< 0.001	< 0.01	< 0.001
Dibromochloromethane	124-48-1	< 0.001	< 0.001	< 0.01	< 0.001
1,1,2-Trichloroethane	79-00-5	< 0.001	< 0.001	< 0.01	< 0.001
Benzene	71-43-2	< 0.001	0.0024	< 0.01	< 0.001
trans-1,3-Dichloropropene	10061-02-6	< 0.001	< 0.001	< 0.01	< 0.001
Bromoform	75-25-2	< 0.001	< 0.001	< 0.01	< 0.001
4-Methyl-2-pentanone	108-10-1	< 0.001	< 0.001	< 0.01	< 0.001
2-Hexanone	591-78-6	< 0.005	< 0.005	< 0.05	< 0.005
Tetrachloroethene	127-18-4	< 0.001	< 0.001	< 0.01	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5	< 0.001	< 0.001	< 0.01	< 0.001
Toluene	108-88-3	< 0.001	< 0.001	0.02	< 0.001
Chlorobenzene	108-90-7	< 0.001	< 0.001	< 0.01	< 0.001
Ethylbenzene	100-41-4	< 0.001	0.0035	4.6	< 0.001
Styrene	100-42-5	< 0.001	< 0.001	< 0.01	< 0.001
Xylene (total)	1330-20-7	< 0.003	< 0.003	< 0.03	< 0.003
SVOCs (mg/L)					
4-Chloroaniline	106-47-8	< 0.02	< 0.02	< 0.02	< 0.02
2-Methylnaphthalene	91-57-6	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitroaniline	88-74-4	< 0.02	< 0.02	< 0.02	< 0.02
2,4,5-Trichlorophenol	95-95-4	< 0.005	< 0.005	< 0.005	< 0.005
2-Chlorophenol	95-57-8	< 0.005	< 0.005	< 0.005	< 0.005
Phenol	108-95-2	< 0.005	0.04	0.062	0.024
2-Nitrophenol	88-75-5	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	59-50-7	< 0.005	< 0.005	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4	< 0.005	< 0.005	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1	< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	< 0.005	< 0.005	< 0.005	< 0.005
Hexachloroethane	67-72-1	< 0.005	< 0.005	< 0.005	< 0.005
N-nitroso-di-n-propylamine	621-64-7	< 0.005	< 0.005	< 0.005	< 0.005
Nitrobenzene	98-95-3	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	78-59-1	< 0.005	0.0071	< 0.005	< 0.005
bis(2-Chloroethyl)methane	111-91-1	< 0.005	< 0.005	< 0.005	< 0.005
1,2,4-Trichlorobenzene	120-82-1	< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	91-20-3	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorocyclopentadiene	77-47-4	< 0.02	< 0.02	< 0.02	< 0.02
2-Chloronaphthalene	91-58-7	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthylene	208-96-8	< 0.005	< 0.005	< 0.005	< 0.005
Dimethylphthalate	131-11-3	< 0.02	< 0.02	< 0.02	< 0.02
2-Methylphenol	95-48-7	< 0.005	< 0.005	< 0.005	< 0.005
2,2'-oxybis(1-Chloropropane)	108-60-1	NA	NA	NA	NA

Table 2 - Groundwater Analytical Results
 2nd 2014 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	EW-1 11/18/2014	EW-2 11/17/2014	EW-3 11/17/2014	EW-4 11/17/2014
4-Methylphenol	106-44-5	< 0 005	< 0 005	< 0.035	< 0 005
Dibenzofuran	132-64-9	< 0 005	< 0 005	< 0 005	< 0 005
3-Nitroaniline	99-09-2	< 0 02	< 0 02	< 0 02	< 0 02
4-Nitroaniline	100-01-6	< 0 02	< 0 02	< 0 02	< 0 02
2,4-Dinitrophenol	51-28-5	< 0 005	< 0 005	< 0 005	< 0 005
4-Nitrophenol	100-02-7	< 0 02	< 0 02	< 0 02	< 0 02
2-Methyl-4,6-Dinitrophenol	534-52-1	< 0 02	< 0 02	< 0 02	< 0 02
Pentachlorophenol	87-86-5	< 0 02	< 0 02	< 0 02	< 0 02
2,6-Dinitrotoluene	606-20-2	< 0 005	< 0 005	< 0 005	< 0 005
Acenaphthene	83-32-9	< 0 005	< 0 005	< 0 005	< 0 005
2,4-Dinitrotoluene	121-14-2	< 0 005	< 0 005	< 0 005	< 0 005
Fluorene	86-73-7	< 0 005	< 0 005	< 0 005	< 0 005
4-Chlorophenyl-phenylether	7005-72-3	< 0 005	< 0 005	< 0 005	< 0 005
Diethyl phthalate	84-66-2	< 0 02	< 0 02	< 0 02	< 0 02
N-Nitrosodiphenylamine	86-30-6	< 0 005	< 0 005	< 0 005	< 0 005
4-Bromophenyl-phenylether	101-55-3	< 0 005	< 0 005	< 0 005	< 0 005
Hexachlorobenzene	118-74-1	< 0 005	< 0 005	< 0 005	< 0 005
Phenanthrene	85-01-8	< 0 005	< 0 005	< 0 005	< 0 005
Anthracene	120-12-7	< 0 005	< 0 005	< 0 005	< 0 005
Di-n-butyl phthalate	84-74-2	< 0 005	< 0 005	< 0 005	< 0 005
Fluoranthene	206-44-0	< 0 005	< 0 005	< 0 005	< 0 005
Pyrene	129-00-0	< 0 005	< 0 005	< 0 005	< 0 005
Butyl benzyl phthalate	85-68-7	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(a)anthracene	56-55-3	< 0 005	< 0 005	< 0 005	< 0 005
Chrysene	218-01-9	< 0 005	< 0 005	< 0 005	< 0 005
3,3'-Dichlorobenzidine	91-94-1	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Ethylhexyl)phthalate	117-81-7	< 0 005	< 0 005	< 0 005	< 0 005
Di-n-octyl phthalate	117-84-0	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(b)fluoranthene	205-99-2	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(k)fluoranthene	207-08-9	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(a)pyrene	50-32-8	< 0 005	< 0 005	< 0 005	< 0 005
Indeno(1,2,3-cd)pyrene	193-39-5	< 0 005	< 0 005	< 0 005	< 0 005
Dibenz(a,h)anthracene	53-70-3	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(g,h,i)perylene	191-24-2	< 0 005	< 0 005	< 0 005	< 0 005
Carbazole	86-74-8	< 0 01	< 0 01	< 0 01	< 0 01
Metals (mg/L)					
Antimony	7440-36-0	< 0 005	< 0 005	< 0 005	< 0 005
Arsenic	7440-38-2	< 0 005	< 0 0076	< 0 005	< 0 018
Beryllium	7440-41-7	< 0 002	< 0 002	< 0 002	< 0 002
Cadmium	7440-43-9	< 0 002	< 0 002	< 0 002	< 0 002
Chromium	7440-47-3	0 031	< 0 005	< 0 005	< 0 005
Copper	7440-50-8	0 068	0 039	0 22	0 017
Lead	7439-92-1	< 0 005	0 005	0 037	< 0 005
Mercury	7439-97-6	< 0 0002	< 0 0002	< 0 0002	< 0 0002
Nickel	7440-02-0	0 14	0 039	0 029	0 019
Silver	7440-22-4	< 0 005	< 0 005	< 0 005	< 0 005
Zinc	7440-66-6	0 069	0 03	0 05	0 021
Calcium	7440-70-2	NA	NA	NA	NA
Iron	7439-89-6	NA	NA	NA	NA
Magnesium	7439-95-4	NA	NA	NA	NA
Potassium	7440-09-7	NA	NA	NA	NA
Sodium	7440-23-5	NA	NA	NA	NA
Alkalinity to pH 8.3	---	NA	NA	NA	NA
Alkalinity to pH 4.5	---	NA	NA	NA	NA
Total Dissolved Solids	---	NA	NA	NA	NA
Nitrite Nitrogen	14797-65-0	NA	NA	NA	NA
Nitrate Nitrogen	14797-55-8	NA	NA	NA	NA
Ammonia Nitrogen	7664-41-7	NA	NA	NA	NA
Chloride	16887-00-6	NA	NA	NA	NA
Sulfate	14808-79-8	NA	NA	NA	NA
Bicarbonate	71-52-3	NA	NA	NA	NA
Carbonate	20227-92-3	NA	NA	NA	NA

Table 2 - Groundwater Analytical Results
 1st 2014 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-1B 5/15/2014	MW-2B 5/14/2014	MW-3A 5/13/2014	MW-3B 5/13/2014	MW-4A 5/13/2014
VOCs (mg/L)						
Chloromethane	74-87-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Bromomethane	74-83-9	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Vinyl Chloride	75-01-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Chloroethane	75-00-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Methylene Chloride	75-09-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Acetone	67-64-1	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
Carbon disulfide	75-15-0	< 0 0025	< 0 0025	< 0 0025	< 0 0025	< 0 0025
1,1-Dichloroethene	75-35-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
1,1-Dichloroethane	75-34-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
cis-1,2-Dichloroethene	156-59-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
trans-1,2-Dichloroethene	156-60-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Chloroform	67-66-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
1,2-Dichloroethane	107-06-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
2-Butanone	78-93-3	< 0 005	0 0026 J	< 0 005	< 0 005	< 0 005
1,1,1-Trichloroethane	71-55-6	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Carbon tetrachloride	56-23-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Bromodichloromethane	75-27-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
1,2-Dichloropropane	78-87-5	< 0 002	< 0 002	< 0 002	< 0 002	< 0 002
cis-1,3-Dichloropropene	10061-01-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Trichloroethene	79-01-6	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Dibromochloromethane	124-48-1	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
1,1,2-Trichloroethane	79-00-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Benzene	71-43-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
trans-1,3-Dichloropropene	10061-02-6	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Bromoform	75-25-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
4-Methyl-2-pentanone	108-10-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2-Hexanone	591-78-6	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Tetrachloroethene	127-18-4	< 0 002	< 0 002	< 0 002	< 0 002	< 0 002
1,1,2,2-Tetrachloroethane	79-34-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Toluene	108-88-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Chlorobenzene	108-90-7	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Ethylbenzene	100-41-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Styrene	100-42-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Xylene (total)	1330-20-7	< 0 003	< 0 003	< 0 003	< 0 003	< 0 003
SVOCs (mg/L)						
4-Chloroaniline	106-47-8	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
2-Methylnaphthalene	91-57-6	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2-Nitroaniline	88-74-4	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
2,4,5-Trichlorophenol	95-95-4	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2-Chlorophenol	95-57-8	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Phenol	108-95-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2-Nitrophenol	88-75-5	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2,4-Dimethylphenol	105-67-9	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2,4-Dichlorophenol	120-83-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
4-Chloro-3-methylphenol	59-50-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2,4,6-Trichlorophenol	88-06-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Chloroethyl)ether	111-44-4	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
1,3-Dichlorobenzene	541-73-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
1,4-Dichlorobenzene	106-46-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
1,2-Dichlorobenzene	95-50-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Hexachloroethane	67-72-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
N-nitroso-di-n-propylamine	621-64-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Nitrobenzene	98-95-3	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Isophorone	78-59-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Chloroethyl)methane	111-91-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
1,2,4-Trichlorobenzene	120-82-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Naphthalene	91-20-3	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Hexachlorobutadiene	87-68-3	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Hexachlorocyclopentadiene	77-47-4	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02

Notes
 J = Estimated Value
 NA = Not Analyzed

Table 2 - Groundwater Analytical Results
 1st 2014 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-1B 5/15/2014	MW-2B 5/14/2014	MW-3A 5/13/2014	MW-3B 5/13/2014	MW-4A 5/13/2014
2-Chloronaphthalene	91-58-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Acenaphthylene	208-96-8	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Dimethylphthalate	131-11-3	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
2-Methylphenol	95-48-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2,2'-oxybis(1-Chloropropane)	108-60-1	NA	NA	NA	NA	NA
4-Methylphenol	106-44-5	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Dibenzofuran	132-64-9	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
3-Nitroaniline	99-09-2	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
4-Nitroaniline	100-01-6	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
2,4-Dinitrophenol	51-28-5	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
4-Nitrophenol	100-02-7	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
2-Methyl-4,6-Dinitrophenol	534-52-1	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
Pentachlorophenol	87-86-5	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
2,6-Dinitrotoluene	606-20-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Acenaphthene	83-32-9	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2,4-Dinitrotoluene	121-14-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Fluorene	86-73-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
4-Chlorophenyl-phenylether	7005-72-3	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Diethyl phthalate	84-66-2	< 0 02	0 00079 J	< 0 02	< 0 02	< 0 02
N-Nitrosodiphenylamine	86-30-6	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
4-Bromophenyl-phenylether	101-55-3	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Hexachlorobenzene	118-74-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Phenanthrene	85-01-8	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Anthracene	120-12-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Di-n-butyl phthalate	84-74-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Fluoranthene	206-44-0	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Pyrene	129-00-0	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Butyl benzyl phthalate	85-68-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(a)anthracene	56-55-3	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Chrysene	218-01-9	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
3,3'-Dichlorobenzidine	91-94-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Ethylhexyl)phthalate	117-81-7	< 0 005	0 00089 J	< 0 005	< 0 005	< 0 005
Di-n-octyl phthalate	117-84-0	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(b)fluoranthene	205-99-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(k)fluoranthene	207-08-9	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(a)pyrene	50-32-8	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Indeno(1,2,3-cd)pyrene	193-39-5	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Dibenz(a,h)anthracene	53-70-3	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(g,h,i)perylene	191-24-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Carbazole	86-74-8	< 0 01	< 0 01	< 0 01	< 0 01	< 0 01
Metals (mg/L)						
Antimony	7440-36-0	0 00022 J	0 00014 J	0 00032 J	0 0011 J	0 00018 J
Arsenic	7440-38-2	0 0031 J	0 0013 J	0 002 J	0 012	0 0019 J
Beryllium	7440-41-7	0 00009 J	< 0 002	0 00024 J	0 0042	0 00043 J
Cadmium	7440-43-9	0 00011 J	0 00018 J	0 00011 J	0 00054 J	0 0001 J
Chromium	7440-47-3	0 032	0 055	0 082	1 5	0 15
Copper	7440-50-8	0 0041 J	0 004 J	0 0063	0 13	0 02
Lead	7439-92-1	0 00097 J	0 00093 J	0 00067 J	0 0097	0 0025 J
Mercury	7439-97-6	< 0 0002	< 0 0002	< 0 0002	< 0 0002	< 0 0002
Nickel	7440-02-0	0 022	0 021	0 03	0 25	0 083
Silver	7440-22-4	0 000047 J	< 0 005	< 0 005	0 00022 J	0 000073 J
Zinc	7440-66-6	0 024	0 036	0 047	0 088	0 056
Calcium	7440-70-2	NA	NA	NA	NA	NA
Iron	7439-89-6	NA	NA	NA	NA	NA
Magnesium	7439-95-4	NA	NA	NA	NA	NA
Potassium	7440-09-7	NA	NA	NA	NA	NA
Sodium	7440-23-5	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	---	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	---	NA	NA	NA	NA	NA
Total Dissolved Solids	---	NA	NA	NA	NA	NA
Nitrite Nitrogen	14797-65-0	NA	NA	NA	NA	NA
Nitrate Nitrogen	14797-55-8	NA	NA	NA	NA	NA
Ammonia Nitrogen	7664-41-7	NA	NA	NA	NA	NA
Chloride	16887-00-6	NA	NA	NA	NA	NA
Sulfate	14808-79-8	NA	NA	NA	NA	NA
Bicarbonate	71-52-3	NA	NA	NA	NA	NA
Carbonate	20227-92-3	NA	NA	NA	NA	NA

Notes
 J = Estimated Value
 NA = Not Analyzed

Table 2 - Groundwater Analytical Results
 1st 2014 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-4B 5/13/2014	MW-5A 5/14/2014	MW-5B 5/14/2014	MW-6A 5/12/2014	MW-6B 5/13/2014
VOCs (mg/L)						
Chloromethane	74-87-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	75-00-3	< 0.001	< 0.001	< 0.001	0.0051	< 0.001
Methylene Chloride	75-09-2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acetone	67-64-1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Carbon disulfide	75-15-0	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025
1,1-Dichloroethene	75-35-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	156-59-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	< 0.001	< 0.001	< 0.001	< 0.001	0.0023
1,2-Dichloroethane	107-06-2	< 0.001	< 0.001	< 0.001	0.0018	< 0.001
2-Butanone	78-93-3	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,1-Trichloroethane	71-55-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
cis-1,3-Dichloropropene	10061-01-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	71-43-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone	108-10-1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Hexanone	591-78-6	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tetrachloroethene	127-18-4	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
1,1,2,2-Tetrachloroethane	79-34-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	100-42-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
SVOCs (mg/L)						
4-Chloroaniline	106-47-8	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2-Methylnaphthalene	91-57-6	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Nitroaniline	88-74-4	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2,4,5-Trichlorophenol	95-95-4	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Chlorophenol	95-57-8	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenol	108-95-2	< 0.005	< 0.005	< 0.005	0.0014 J	< 0.005
2-Nitrophenol	88-75-5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dimethylphenol	105-67-9	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4-Dichlorophenol	120-83-2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4-Chloro-3-methylphenol	59-50-7	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,4,6-Trichlorophenol	88-06-2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)ether	111-44-4	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,3-Dichlorobenzene	541-73-1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	106-46-7	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	95-50-1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachloroethane	67-72-1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-nitroso-di-n-propylamine	621-64-7	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Nitrobenzene	98-95-3	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	78-59-1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Chloroethyl)methane	111-91-1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,2,4-Trichlorobenzene	120-82-1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	91-20-3	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorobutadiene	87-68-3	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hexachlorocyclopentadiene	77-47-4	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Notes
 J = Estimated Value
 NA = Not Analyzed

Table 2 - Groundwater Analytical Results
 1st 2014 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-4B 5/13/2014	MW-5A 5/14/2014	MW-5B 5/14/2014	MW-6A 5/12/2014	MW-6B 5/13/2014
2-Chloronaphthalene	91-58-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Acenaphthylene	208-96-8	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Dimethylphthalate	131-11-3	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
2-Methylphenol	95-48-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2,2'-oxybis(1-Chloropropane)	108-60-1	NA	NA	NA	NA	NA
4-Methylphenol	106-44-5	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Dibenzofuran	132-64-9	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
3-Nitroaniline	99-09-2	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
4-Nitroaniline	100-01-6	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
2,4-Dinitrophenol	51-28-5	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
4-Nitrophenol	100-02-7	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
2-Methyl-4,6-Dinitrophenol	534-52-1	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
Pentachlorophenol	87-86-5	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
2,6-Dinitrotoluene	606-20-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Acenaphthene	83-32-9	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2,4-Dinitrotoluene	121-14-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Fluorene	86-73-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
4-Chlorophenyl-phenylether	7005-72-3	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Diethyl phthalate	84-66-2	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
N-Nitrosodiphenylamine	86-30-6	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
4-Bromophenyl-phenylether	101-55-3	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Hexachlorobenzene	118-74-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Phenanthrene	85-01-8	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Anthracene	120-12-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Di-n-butyl phthalate	84-74-2	< 0 005	< 0 005	< 0 005	< 0 005	0 00056 J
Fluoranthene	206-44-0	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Pyrene	129-00-0	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Butyl benzyl phthalate	85-68-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(a)anthracene	56-55-3	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Chrysene	218-01-9	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
3,3'-Dichlorobenzidine	91-94-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Ethylhexyl)phthalate	117-81-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Di-n-octyl phthalate	117-84-0	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(b)fluoranthene	205-99-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(k)fluoranthene	207-08-9	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(a)pyrene	50-32-8	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Indeno(1,2,3-cd)pyrene	193-39-5	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Dibenz(a,h)anthracene	53-70-3	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(g,h,i)perylene	191-24-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Carbazole	86-74-8	< 0 01	< 0 01	< 0 01	< 0 01	< 0 01
Metals (mg/L)						
Antimony	7440-36-0	0 000047 J	0 000072 J	0 00058 J	< 0 005	0 00048 J
Arsenic	7440-38-2	0 0017 J	0 0012 J	< 0 005	0 0025 J	0 0013 J
Beryllium	7440-41-7	0 00015 J	< 0 002	< 0 002	0 0001 J	< 0 002
Cadmium	7440-43-9	< 0 002	0 00011 J	0 00024 J	< 0 002	0 00015 J
Chromium	7440-47-3	0 021	0 018	0 015	0 0014 J	0 045
Copper	7440-50-8	0 0021 J	0 0033 J	0 0027 J	0 0006 J	0 0037 J
Lead	7439-92-1	0 00024 J	0 00049 J	0 013	0 00031 J	0 00077 J
Mercury	7439-97-6	< 0 0002	< 0 0002	< 0 0002	< 0 0002	< 0 0002
Nickel	7440-02-0	0 015	0 022	0 011	0 0026 J	0 024
Silver	7440-22-4	0 00013 J	< 0 005	< 0 005	0 000088 J	0 0001 J
Zinc	7440-66-6	0 15	0 053	0 19	0 043	0 027
Calcium	7440-70-2	NA	NA	NA	NA	NA
Iron	7439-89-6	NA	NA	NA	NA	NA
Magnesium	7439-95-4	NA	NA	NA	NA	NA
Potassium	7440-09-7	NA	NA	NA	NA	NA
Sodium	7440-23-5	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	---	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	---	NA	NA	NA	NA	NA
Total Dissolved Solids	---	NA	NA	NA	NA	NA
Nitrite Nitrogen	14797-65-0	NA	NA	NA	NA	NA
Nitrate Nitrogen	14797-55-8	NA	NA	NA	NA	NA
Ammonia Nitrogen	7664-41-7	NA	NA	NA	NA	NA
Chloride	16887-00-6	NA	NA	NA	NA	NA
Sulfate	14808-79-8	NA	NA	NA	NA	NA
Bicarbonate	71-52-3	NA	NA	NA	NA	NA
Carbonate	20227-92-3	NA	NA	NA	NA	NA

Notes
 J = Estimated Value
 NA = Not Analyzed

Table 2 - Groundwater Analytical Results
 1st 2014 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-7A 5/13/2014	MW-7B 5/13/2014	MW-8A 5/14/2014	MW-8B 5/14/2014
VOCs (mg/L)					
Chloromethane	74-87-3	< 0 001	< 0 001	< 0 001	< 0 001
Bromomethane	74-83-9	< 0 001	< 0 001	< 0 001	< 0 001
Vinyl Chloride	75-01-4	< 0 001	< 0 001	< 0 001	< 0 001
Chloroethane	75-00-3	< 0 001	< 0 001	< 0 001	< 0 001
Methylene Chloride	75-09-2	< 0 005	< 0 005	< 0 005	< 0 005
Acetone	67-64-1	< 0 02	< 0 02	< 0 02	< 0 02
Carbon disulfide	75-15-0	< 0 0025	< 0 0025	< 0 0025	< 0 0025
1,1-Dichloroethene	75-35-4	< 0 001	< 0 001	< 0 001	< 0 001
1,1-Dichloroethane	75-34-3	< 0 001	< 0 001	< 0 001	< 0 001
cis-1,2-Dichloroethene	156-59-2	< 0 001	< 0 001	< 0 001	< 0 001
trans-1,2-Dichloroethene	156-60-5	< 0 001	< 0 001	< 0 001	< 0 001
Chloroform	67-66-3	< 0 001	< 0 001	< 0 001	< 0 001
1,2-Dichloroethane	107-06-2	< 0 001	< 0 001	< 0 001	< 0 001
2-Butanone	78-93-3	< 0 005	< 0 005	< 0 005	0 012
1,1,1-Trichloroethane	71-55-6	< 0 001	< 0 001	< 0 001	< 0 001
Carbon tetrachloride	56-23-5	< 0 001	< 0 001	< 0 001	< 0 001
Bromodichloromethane	75-27-4	< 0 001	< 0 001	< 0 001	< 0 001
1,2-Dichloropropane	78-87-5	< 0 002	< 0 002	< 0 002	< 0 002
cis-1,3-Dichloropropene	10061-01-5	< 0 001	< 0 001	< 0 001	< 0 001
Trichloroethene	79-01-6	< 0 001	< 0 001	< 0 001	< 0 001
Dibromochloromethane	124-48-1	< 0 001	< 0 001	< 0 001	< 0 001
1,1,2-Trichloroethane	79-00-5	< 0 001	< 0 001	< 0 001	< 0 001
Benzene	71-43-2	< 0 001	< 0 001	< 0 001	< 0 001
trans-1,3-Dichloropropene	10061-02-6	< 0 001	< 0 001	< 0 001	< 0 001
Bromoform	75-25-2	< 0 001	< 0 001	< 0 001	< 0 001
4-Methyl-2-pentanone	108-10-1	< 0 005	< 0 005	< 0 005	< 0 005
2-Hexanone	591-78-6	< 0 005	< 0 005	< 0 005	< 0 005
Tetrachloroethene	127-18-4	< 0 002	< 0 002	< 0 002	< 0 002
1,1,2,2-Tetrachloroethane	79-34-5	< 0 001	< 0 001	< 0 001	< 0 001
Toluene	108-88-3	< 0 001	< 0 001	< 0 001	< 0 001
Chlorobenzene	108-90-7	< 0 001	< 0 001	< 0 001	< 0 001
Ethylbenzene	100-41-4	< 0 001	< 0 001	< 0 001	< 0 001
Styrene	100-42-5	< 0 001	< 0 001	< 0 001	< 0 001
Xylene (total)	1330-20-7	< 0 003	< 0 003	< 0 003	< 0 003
SVOCs (mg/L)					
4-Chloroaniline	106-47-8	< 0 02	< 0 02	< 0 02	< 0 02
2-Methylnaphthalene	91-57-6	< 0 005	< 0 005	< 0 005	< 0 005
2-Nitroaniline	88-74-4	< 0 02	< 0 02	< 0 02	< 0 02
2,4,5-Trichlorophenol	95-95-4	< 0 005	< 0 005	< 0 005	< 0 005
2-Chlorophenol	95-57-8	< 0 005	< 0 005	< 0 005	< 0 005
Phenol	108-95-2	< 0 005	< 0 005	< 0 005	< 0 005
2-Nitrophenol	88-75-5	< 0 005	< 0 005	< 0 005	< 0 005
2,4-Dimethylphenol	105-67-9	< 0 005	< 0 005	< 0 005	< 0 005
2,4-Dichlorophenol	120-83-2	< 0 005	< 0 005	< 0 005	< 0 005
4-Chloro-3-methylphenol	59-50-7	< 0 005	< 0 005	< 0 005	< 0 005
2,4,6-Trichlorophenol	88-06-2	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Chloroethyl)ether	111-44-4	< 0 005	< 0 005	< 0 005	< 0 005
1,3-Dichlorobenzene	541-73-1	< 0 005	< 0 005	< 0 005	< 0 005
1,4-Dichlorobenzene	106-46-7	< 0 005	< 0 005	< 0 005	< 0 005
1,2-Dichlorobenzene	95-50-1	< 0 005	< 0 005	< 0 005	< 0 005
Hexachloroethane	67-72-1	< 0 005	< 0 005	< 0 005	< 0 005
N-nitroso-di-n-propylamine	621-64-7	< 0 005	< 0 005	< 0 005	< 0 005
Nitrobenzene	98-95-3	< 0 005	< 0 005	< 0 005	< 0 005
Isophorone	78-59-1	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Chloroethyl)methane	111-91-1	< 0 005	< 0 005	< 0 005	< 0 005
1,2,4-Trichlorobenzene	120-82-1	< 0 005	< 0 005	< 0 005	< 0 005
Naphthalene	91-20-3	< 0 005	< 0 005	< 0 005	< 0 005
Hexachlorobutadiene	87-68-3	< 0 005	< 0 005	< 0 005	< 0 005
Hexachlorocyclopentadiene	77-47-4	< 0 02	< 0 02	< 0 02	< 0 02

Notes
 J = Estimated Value
 NA = Not Analyzed

Table 2 - Groundwater Analytical Results
 1st 2014 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-7A 5/13/2014	MW-7B 5/13/2014	MW-8A 5/14/2014	MW-8B 5/14/2014
2-Chloronaphthalene	91-58-7	< 0 005	< 0 005	< 0 005	< 0 005
Acenaphthylene	208-96-8	< 0 005	< 0 005	< 0 005	< 0 005
Dimethylphthalate	131-11-3	< 0 02	< 0 02	< 0 02	< 0 02
2-Methylphenol	95-48-7	< 0 005	< 0 005	< 0 005	< 0 005
2,2'-oxybis(1-Chloropropane)	108-60-1	NA	NA	NA	NA
4-Methylphenol	106-44-5	< 0 005	< 0 005	< 0 005	< 0 005
Dibenzofuran	132-64-9	< 0 005	< 0 005	< 0 005	< 0 005
3-Nitroaniline	99-09-2	< 0 02	< 0 02	< 0 02	< 0 02
4-Nitroaniline	100-01-6	< 0 02	< 0 02	< 0 02	< 0 02
2,4-Dinitrophenol	51-28-5	< 0 005	< 0 005	< 0 005	< 0 005
4-Nitrophenol	100-02-7	< 0 02	< 0 02	< 0 02	< 0 02
2-Methyl-4,6-Dinitrophenol	534-52-1	< 0 02	< 0 02	< 0 02	< 0 02
Pentachlorophenol	87-86-5	< 0 02	< 0 02	< 0 02	< 0 02
2,6-Dinitrotoluene	606-20-2	< 0 005	< 0 005	< 0 005	< 0 005
Acenaphthene	83-32-9	< 0 005	< 0 005	< 0 005	< 0 005
2,4-Dinitrotoluene	121-14-2	< 0 005	< 0 005	< 0 005	< 0 005
Fluorene	86-73-7	< 0 005	< 0 005	< 0 005	< 0 005
4-Chlorophenyl-phenylether	7005-72-3	< 0 005	< 0 005	< 0 005	< 0 005
Diethyl phthalate	84-66-2	< 0 02	< 0 02	0 00087 J	< 0 02
N-Nitrosodiphenylamine	86-30-6	< 0 005	< 0 005	< 0 005	< 0 005
4-Bromophenyl-phenylether	101-55-3	< 0 005	< 0 005	< 0 005	< 0 005
Hexachlorobenzene	118-74-1	< 0 005	< 0 005	< 0 005	< 0 005
Phenanthrene	85-01-8	< 0 005	< 0 005	< 0 005	< 0 005
Anthracene	120-12-7	< 0 005	< 0 005	< 0 005	< 0 005
Di-n-butyl phthalate	84-74-2	< 0 005	< 0 005	< 0 005	< 0 005
Fluoranthene	206-44-0	< 0 005	< 0 005	< 0 005	< 0 005
Pyrene	129-00-0	< 0 005	< 0 005	< 0 005	< 0 005
Butyl benzyl phthalate	85-68-7	< 0 005	< 0 005	0 0011 J	< 0 005
Benzo(a)anthracene	56-55-3	< 0 005	< 0 005	< 0 005	< 0 005
Chrysene	218-01-9	< 0 005	< 0 005	< 0 005	< 0 005
3,3'-Dichlorobenzidine	91-94-1	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Ethylhexyl)phthalate	117-81-7	< 0 005	< 0 005	< 0 005	< 0 005
Di-n-octyl phthalate	117-84-0	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(b)fluoranthene	205-99-2	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(k)fluoranthene	207-08-9	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(a)pyrene	50-32-8	< 0 005	< 0 005	< 0 005	< 0 005
Indeno(1,2,3-cd)pyrene	193-39-5	< 0 005	< 0 005	< 0 005	< 0 005
Dibenz(a,h)anthracene	53-70-3	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(g,h,i)perylene	191-24-2	< 0 005	< 0 005	< 0 005	< 0 005
Carbazole	86-74-8	< 0 01	< 0 01	< 0 01	< 0 01
Metals (mg/L)					
Antimony	7440-36-0	< 0 005	< 0 005	0 00051 J	0 001 J
Arsenic	7440-38-2	0 0031 J	0 00093 J	0 0011 J	0 0017 J
Beryllium	7440-41-7	< 0 002	0 00012 J	0 00031 J	0 00029 J
Cadmium	7440-43-9	< 0 002	< 0 002	0 000049 J	< 0 002
Chromium	7440-47-3	0 00056 J	0 0047 J	0 026	0 043
Copper	7440-50-8	0 0016 J	0 00099 J	0 0038 J	0 01
Lead	7439-92-1	0 00021 J	0 00024 J	0 0005 J	0 0015 J
Mercury	7439-97-6	< 0 0002	< 0 0002	< 0 0002	< 0 0002
Nickel	7440-02-0	0 016	0 0042	0 023	0 018
Silver	7440-22-4	< 0 005	< 0 005	0 00014 J	0 00025 J
Zinc	7440-66-6	0 026	0 012	0 023	0 028
Calcium	7440-70-2	NA	NA	NA	NA
Iron	7439-89-6	NA	NA	NA	NA
Magnesium	7439-95-4	NA	NA	NA	NA
Potassium	7440-09-7	NA	NA	NA	NA
Sodium	7440-23-5	NA	NA	NA	NA
Alkalinity to pH 8.3	---	NA	NA	NA	NA
Alkalinity to pH 4.5	---	NA	NA	NA	NA
Total Dissolved Solids	---	NA	NA	NA	NA
Nitrite Nitrogen	14797-65-0	NA	NA	NA	NA
Nitrate Nitrogen	14797-55-8	NA	NA	NA	NA
Ammonia Nitrogen	7664-41-7	NA	NA	NA	NA
Chloride	16887-00-6	NA	NA	NA	NA
Sulfate	14808-79-8	NA	NA	NA	NA
Bicarbonate	71-52-3	NA	NA	NA	NA
Carbonate	20227-92-3	NA	NA	NA	NA

Notes
 J = Estimated Value
 NA = Not Analyzed

Table 2 - Groundwater Analytical Results
 1st 2014 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	EW-1 5/12/2014	EW-2 5/12/2014	EW-3 5/12/2014	EW-4 5/12/2014
VOCs (mg/L)					
Chloromethane	74-87-3	< 0 001	< 0 001	< 0 005	< 0 005
Bromomethane	74-83-9	< 0 001	< 0 001	< 0 005	< 0 005
Vinyl Chloride	75-01-4	< 0 001	< 0 001	< 0 005	< 0 005
Chloroethane	75-00-3	0 012	0 018	< 0 005	0 026
Methylene Chloride	75-09-2	0 0011 J	0 003 J	0 0083 J	< 0 005
Acetone	67-64-1	< 0 02	< 0 02	0 039 J	< 0 0054 J
Carbon disulfide	75-15-0	< 0 0025	0 0014 J	< 0 012	< 0 005
1,1-Dichloroethene	75-35-4	< 0 001	< 0 001	< 0 005	< 0 005
1,1-Dichloroethane	75-34-3	< 0 001	< 0 001	< 0 005	< 0 005
cis-1,2-Dichloroethene	156-59-2	< 0 001	0 00072 J	< 0 005	< 0 005
trans-1,2-Dichloroethene	156-60-5	< 0 001	< 0 001	< 0 005	< 0 005
Chloroform	67-66-3	< 0 001	< 0 001	< 0 005	< 0 005
1,2-Dichloroethane	107-06-2	0 0043	0 015	< 0 005	0 0028
2-Butanone	78-93-3	< 0 005	< 0 005	< 0 025	< 0 01
1,1,1-Trichloroethane	71-55-6	< 0 001	< 0 001	< 0 005	< 0 005
Carbon tetrachloride	56-23-5	< 0 001	< 0 001	< 0 005	< 0 005
Bromodichloromethane	75-27-4	< 0 001	< 0 001	< 0 005	< 0 005
1,2-Dichloropropane	78-87-5	< 0 002	< 0 002	< 0 01	< 0 005
cis-1,3-Dichloropropene	10061-01-5	< 0 001	< 0 001	< 0 005	< 0 005
Trichloroethene	79-01-6	< 0 001	< 0 001	< 0 005	< 0 005
Dibromochloromethane	124-48-1	< 0 001	< 0 001	< 0 005	< 0 005
1,1,2-Trichloroethane	79-00-5	< 0 001	< 0 001	< 0 005	< 0 005
Benzene	71-43-2	< 0 001	0 0042	0 0074	< 0 005
trans-1,3-Dichloropropene	10061-02-6	< 0 001	< 0 001	< 0 005	< 0 005
Bromoform	75-25-2	< 0 001	< 0 001	< 0 005	< 0 005
4-Methyl-2-pentanone	108-10-1	< 0 005	< 0 005	< 0 025	< 0 01
2-Hexanone	591-78-6	< 0 005	< 0 005	< 0 025	< 0 01
Tetrachloroethene	127-18-4	< 0 002	< 0 002	< 0 01	< 0 005
1,1,2,2-Tetrachloroethane	79-34-5	< 0 001	< 0 001	< 0 005	< 0 005
Toluene	108-88-3	< 0 001	0 0019	0 013	< 0 005
Chlorobenzene	108-90-7	< 0 001	0 0014	< 0 005	< 0 005
Ethylbenzene	100-41-4	< 0 001	0 14	20	< 0 005
Styrene	100-42-5	< 0 001	< 0 001	< 0 005	< 0 005
Xylene (total)	1330-20-7	< 0 003	0 0023	0 011 J	< 0 005
SVOCs (mg/L)					
4-Chloroaniline	106-47-8	< 0 02	< 0 02	< 0 02	< 0 02
2-Methylnaphthalene	91-57-6	< 0 005	< 0 005	< 0 005	0 0008 J
2-Nitroaniline	88-74-4	< 0 02	< 0 02	< 0 02	< 0 02
2,4,5-Trichlorophenol	95-95-4	< 0 005	< 0 005	< 0 005	< 0 005
2-Chlorophenol	95-57-8	< 0 005	< 0 005	< 0 005	< 0 005
Phenol	108-95-2	0 0036 J	0 035	0 066	0 011
2-Nitrophenol	88-75-5	< 0 005	< 0 005	< 0 005	< 0 005
2,4-Dimethylphenol	105-67-9	< 0 005	< 0 005	0 053	< 0 005
2,4-Dichlorophenol	120-83-2	< 0 01	< 0 01	< 0 01	< 0 01
4-Chloro-3-methylphenol	59-50-7	< 0 005	< 0 005	< 0 005	< 0 005
2,4,6-Trichlorophenol	88-06-2	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Chloroethyl)ether	111-44-4	< 0 005	< 0 005	< 0 005	< 0 005
1,3-Dichlorobenzene	541-73-1	< 0 005	< 0 005	< 0 005	< 0 005
1,4-Dichlorobenzene	106-46-7	< 0 005	< 0 005	< 0 005	< 0 005
1,2-Dichlorobenzene	95-50-1	< 0 005	< 0 005	< 0 005	< 0 005
Hexachloroethane	67-72-1	< 0 005	< 0 005	< 0 005	< 0 005
N-nitroso-di-n-propylamine	621-64-7	< 0 005	< 0 005	< 0 005	< 0 005
Nitrobenzene	98-95-3	< 0 005	< 0 005	< 0 005	< 0 005
Isophorone	78-59-1	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Chloroethyl)methane	111-91-1	< 0 005	< 0 005	< 0 005	< 0 005
1,2,4-Trichlorobenzene	120-82-1	< 0 005	< 0 005	< 0 005	< 0 005
Naphthalene	91-20-3	< 0 005	< 0 005	< 0 005	0 0015 J
Hexachlorobutadiene	87-68-3	< 0 005	< 0 005	< 0 005	< 0 005
Hexachlorocyclopentadiene	77-47-4	< 0 02	< 0 02	< 0 02	< 0 02

Notes
 J = Estimated Value
 NA = Not Analyzed

Table 2 - Groundwater Analytical Results
 1st 2014 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	EW-1 5/12/2014	EW-2 5/12/2014	EW-3 5/12/2014	EW-4 5/12/2014
2-Chloronaphthalene	91-58-7	< 0 005	< 0 005	< 0 005	< 0 005
Acenaphthylene	208-96-8	< 0 005	< 0 005	< 0 005	< 0 005
Dimethylphthalate	131-11-3	< 0 02	< 0 02	< 0 02	< 0 02
2-Methylphenol	95-48-7	< 0 005	< 0 005	< 0 005	< 0 005
2,2'-oxybis(1-Chloropropane)	108-60-1	NA	NA	NA	NA
4-Methylphenol	106-44-5	< 0 005	< 0 005	0 043	< 0 005
Dibenzofuran	132-64-9	< 0 005	< 0 005	< 0 005	< 0 005
3-Nitroaniline	99-09-2	< 0 02	< 0 02	< 0 02	< 0 02
4-Nitroaniline	100-01-6	< 0 02	< 0 02	< 0 02	< 0 02
2,4-Dinitrophenol	51-28-5	< 0 005	< 0 005	< 0 005	< 0 005
4-Nitrophenol	100-02-7	< 0 02	< 0 02	< 0 02	< 0 02
2-Methyl-4,6-Dinitrophenol	534-52-1	< 0 02	< 0 02	< 0 02	< 0 02
Pentachlorophenol	87-86-5	< 0 02	< 0 02	< 0 02	< 0 02
2,6-Dinitrotoluene	606-20-2	< 0 005	< 0 005	< 0 005	< 0 005
Acenaphthene	83-32-9	< 0 005	< 0 005	< 0 005	< 0 005
2,4-Dinitrotoluene	121-14-2	< 0 005	< 0 005	< 0 005	< 0 005
Fluorene	86-73-7	< 0 005	< 0 005	< 0 005	< 0 005
4-Chlorophenyl-phenylether	7005-72-3	< 0 005	< 0 005	< 0 005	< 0 005
Diethyl phthalate	84-66-2	< 0 02	< 0 02	0 00073 J	< 0 02
N-Nitrosodiphenylamine	86-30-6	< 0 005	< 0 005	< 0 005	< 0 005
4-Bromophenyl-phenylether	101-55-3	< 0 005	< 0 005	< 0 005	< 0 005
Hexachlorobenzene	118-74-1	< 0 005	< 0 005	< 0 005	< 0 005
Phenanthrene	85-01-8	< 0 005	< 0 005	< 0 005	< 0 005
Anthracene	120-12-7	< 0 005	< 0 005	< 0 005	< 0 005
Di-n-butyl phthalate	84-74-2	0 00058 J	< 0 005	< 0 005	< 0 005
Fluoranthene	206-44-0	< 0 005	< 0 005	< 0 005	< 0 005
Pyrene	129-00-0	< 0 005	< 0 005	< 0 005	< 0 005
Butyl benzyl phthalate	85-68-7	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(a)anthracene	56-55-3	< 0 005	< 0 005	< 0 005	< 0 005
Chrysene	218-01-9	< 0 005	< 0 005	< 0 005	< 0 005
3,3'-Dichlorobenzidine	91-94-1	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Ethylhexyl)phthalate	117-81-7	< 0 005	< 0 005	< 0 005	< 0 005
Di-n-octyl phthalate	117-84-0	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(b)fluoranthene	205-99-2	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(k)fluoranthene	207-08-9	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(a)pyrene	50-32-8	< 0 005	< 0 005	< 0 005	< 0 005
Indeno(1,2,3-cd)pyrene	193-39-5	< 0 005	< 0 005	< 0 005	< 0 005
Dibenz(a,h)anthracene	53-70-3	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(g,h,i)perylene	191-24-2	< 0 005	< 0 005	< 0 005	< 0 005
Carbazole	86-74-8	< 0 01	< 0 01	< 0 01	< 0 01
Metals (mg/L)					
Antimony	7440-36-0	< 0 005	0 00013 J	0 00015 J	< 0 005
Arsenic	7440-38-2	0 00069 J	0 0035 J	0 0062	0 0069
Beryllium	7440-41-7	0 000087 J	0 0017 J	< 0 002	< 0 002
Cadmium	7440-43-9	< 0 002	< 0 002	< 0 002	< 0 002
Chromium	7440-47-3	0 0011 J	0 0017 J	0 0043 J	0 00088 J
Copper	7440-50-8	0 005	0 062	0 021	0 094
Lead	7439-92-1	0 0026 J	0 056 J	0 0061	0 054
Mercury	7439-97-6	< 0 0002	< 0 0002	< 0 0002	< 0 0002
Nickel	7440-02-0	0 025	0 09	0 039	0 089
Silver	7440-22-4	< 0 005	< 0 005	< 0 005	< 0 005
Zinc	7440-66-6	0 037	0 17	0 029	0 1
Calcium	7440-70-2	NA	NA	NA	NA
Iron	7439-89-6	NA	NA	NA	NA
Magnesium	7439-95-4	NA	NA	NA	NA
Potassium	7440-09-7	NA	NA	NA	NA
Sodium	7440-23-5	NA	NA	NA	NA
Alkalinity to pH 8.3	---	NA	NA	NA	NA
Alkalinity to pH 4.5	---	NA	NA	NA	NA
Total Dissolved Solids	---	NA	NA	NA	NA
Nitrite Nitrogen	14797-65-0	NA	NA	NA	NA
Nitrate Nitrogen	14797-55-8	NA	NA	NA	NA
Ammonia Nitrogen	7664-41-7	NA	NA	NA	NA
Chloride	16887-00-6	NA	NA	NA	NA
Sulfate	14808-79-8	NA	NA	NA	NA
Bicarbonate	71-52-3	NA	NA	NA	NA
Carbonate	20227-92-3	NA	NA	NA	NA

Notes
 J = Estimated Value
 NA = Not Analyzed

Table 2 - Groundwater Analytical Results
 2nd 2013 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-1B 12/4/2013	MW-2B 12/4/2013	MW-3A 12/2/2013	MW-3B 12/2/2013	MW-4A 12/2/2013
VOCs (mg/L)						
Chloromethane	74-87-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	75-00-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Methylene Chloride	75-09-2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Acetone	67-64-1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbon disulfide	75-15-0	0.0003 J	0.0002 J	0.0027	0.0003 J	0.0005 J
1,1-Dichloroethene	75-35-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3	< 0.001	< 0.001	< 0.001	< 0.001	0.0003 J
cis-1,2-Dichloroethene	156-59-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	< 0.001	0.0013	< 0.001	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone	78-93-3	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,1-Trichloroethane	71-55-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropane	10061-01-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	71-43-2	< 0.001	< 0.001	< 0.001	< 0.001	0.0004 J
trans-1,3-Dichloropropene	10061-02-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone	108-10-1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Hexanone	591-78-6	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tetrachloroethene	127-18-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	100-42-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
SVOCs (mg/L)						
4-Chloroaniline	106-47-8	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Methylnaphthalene	91-57-6	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Nitroaniline	88-74-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2,4,5-Trichlorophenol	95-95-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Chlorophenol	95-57-8	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Phenol	108-95-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Nitrophenol	88-75-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2,4-Dimethylphenol	105-67-9	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2,4-Dichlorophenol	120-83-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
4-Chloro-3-methylphenol	59-50-7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2,4,6-Trichlorophenol	88-06-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
bis(2-Chloroethyl)ether	111-44-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,3-Dichlorobenzene	541-73-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,4-Dichlorobenzene	106-46-7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichlorobenzene	95-50-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Hexachloroethane	67-72-1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-nitroso-di-n-propylamine	621-64-7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Nitrobenzene	98-95-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Isophorone	78-59-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
bis(2-Chloroethyl)methane	111-91-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2,4-Trichlorobenzene	120-82-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	91-20-3	< 0.0005	< 0.0005	< 0.0005	0.0002	< 0.0005
Hexachlorobutadiene	87-68-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Hexachlorocyclopentadiene	77-47-4	< 0.015	< 0.015	< 0.016	< 0.015	< 0.015

Table 2 - Groundwater Analytical Results
 2nd 2013 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-1B 12/4/2013	MW-2B 12/4/2013	MW-3A 12/2/2013	MW-3B 12/2/2013	MW-4A 12/2/2013
2-Chloronaphthalene	91-58-7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	208-96-8	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dimethylphthalate	131-11-3	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylphenol	95-48-7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2,2'-oxybis(1-Chloropropane)	108-60-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
4-Methylphenol	106-44-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibenzofuran	132-64-9	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
3-Nitroaniline	99-09-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
4-Nitroaniline	100-01-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2,4-Dinitrophenol	51-28-5	< 0.031	< 0.03	< 0.031	< 0.031	< 0.03
4-Nitrophenol	100-02-7	< 0.031	< 0.03	< 0.031	< 0.031	< 0.03
2-Methyl-4,6-Dinitrophenol	534-52-1	< 0.015	< 0.015	< 0.016	< 0.015	< 0.015
Pentachlorophenol	87-86-5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2,6-Dinitrotoluene	606-20-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthene	83-32-9	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2,4-Dinitrotoluene	121-14-2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluorene	86-73-7	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
4-Chlorophenyl-phenylether	7005-72-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Diethyl phthalate	84-66-2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-Nitrosodiphenylamine	86-30-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
4-Bromophenyl-phenylether	101-55-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Hexachlorobenzene	118-74-1	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Phenanthrene	85-01-8	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0001 J
Anthracene	120-12-7	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Di-n-butyl phthalate	84-74-2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoranthene	206-44-0	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Pyrene	129-00-0	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Butyl benzyl phthalate	85-68-7	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(a)anthracene	56-55-3	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chrysene	218-01-9	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
3,3'-Dichlorobenzidine	91-94-1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	< 0.005	< 0.005	< 0.005	0.003 J	0.005 J
Di-n-octyl phthalate	117-84-0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(b)fluoranthene	205-99-2	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Benzo(k)fluoranthene	207-08-9	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Benzo(a)pyrene	50-32-8	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dibenz(a,h)anthracene	53-70-3	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Benzo(g,h,i)perylene	191-24-2	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Carbazole	86-74-8	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Metals (mg/L)						
Antimony	7440-36-0	< 0.02	< 0.02	0.0307 J	0.0073 J	< 0.02
Arsenic	7440-38-2	< 0.02	< 0.02	0.118	< 0.02	< 0.02
Beryllium	7440-41-7	< 0.005	< 0.005	0.0811	0.006	0.0026 J
Cadmium	7440-43-9	< 0.005	0.0012 J	< 0.05	< 0.025	< 0.005
Chromium	7440-47-3	0.0349	0.0475	4.36	2.39	0.881
Copper	7440-50-8	< 0.01	0.0077 J	0.67	0.327	0.0881
Lead	7439-92-1	0.0097 J	0.0077 J	0.132	0.0393	0.0232
Mercury	7439-97-6	< 0.0002	< 0.0002	0.00045 J	< 0.0002	< 0.0002
Nickel	7440-02-0	0.025	0.0237	2.39	0.506	0.477
Silver	7440-22-4	< 0.005	< 0.005	0.0275	0.0085	0.0021 J
Zinc	7440-66-6	0.0543	0.0599	4.31	0.353	0.308
Calcium	7440-70-2	NA	NA	NA	NA	NA
Iron	7439-89-6	NA	NA	NA	NA	NA
Magnesium	7439-95-4	NA	NA	NA	NA	NA
Potassium	7440-09-7	NA	NA	NA	NA	NA
Sodium	7440-23-5	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	---	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	---	NA	NA	NA	NA	NA
Total Dissolved Solids	---	NA	NA	NA	NA	NA
Nitrite Nitrogen	14797-65-0	NA	NA	NA	NA	NA
Nitrate Nitrogen	14797-55-8	NA	NA	NA	NA	NA
Ammonia Nitrogen	7664-41-7	NA	NA	NA	NA	NA
Chloride	16887-00-6	NA	NA	NA	NA	NA
Sulfate	14808-79-8	NA	NA	NA	NA	NA
Bicarbonate	71-52-3	NA	NA	NA	NA	NA
Carbonate	20227-92-3	NA	NA	NA	NA	NA

Table 2 - Groundwater Analytical Results
 2nd 2013 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-4B 12/3/2013	MW-5A 12/4/2013	MW-5B 12/4/2013	MW-6A 12/3/2013	MW-6B 12/3/2013
VOCs (mg/L)						
Chloromethane	74-87-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Bromomethane	74-83-9	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Vinyl Chloride	75-01-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Chloroethane	75-00-3	< 0 001	< 0 001	< 0 001	0 0072	< 0 001
Methylene Chloride	75-09-2	< 0 002	< 0 002	< 0 002	0 0003 J	0 0005 J
Acetone	67-64-1	0 0024 J	< 0 005	< 0 005	< 0 005	< 0 005
Carbon disulfide	75-15-0	0 0004 J	0 0003 J	0 0002 J	< 0 001	0 0002 J
1,1-Dichloroethene	75-35-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
1,1-Dichloroethane	75-34-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
cis-1,2-Dichloroethene	156-59-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
trans-1,2-Dichloroethene	156-60-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Chloroform	67-66-3	< 0 001	< 0 001	< 0 001	< 0 001	0 0066
1,2-Dichloroethane	107-06-2	< 0 001	< 0 001	< 0 001	0 0027	< 0 001
2-Butanone	78-93-3	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
1,1,1-Trichloroethane	71-55-6	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Carbon tetrachloride	56-23-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Bromodichloromethane	75-27-4	< 0 001	< 0 001	< 0 001	< 0 001	0 0011
1,2-Dichloropropane	78-87-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
cis-1,3-Dichloropropane	10061-01-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Trichloroethene	79-01-6	0 0001 J	< 0 001	< 0 001	< 0 001	< 0 001
Dibromochloromethane	124-48-1	< 0 001	< 0 001	< 0 001	< 0 001	0 0004 J
1,1,2-Trichloroethane	79-00-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Benzene	71-43-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
trans-1,3-Dichloropropene	10061-02-6	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Bromoform	75-25-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
4-Methyl-2-pentanone	108-10-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2-Hexanone	591-78-6	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Tetrachloroethene	127-18-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
1,1,2,2-Tetrachloroethane	79-34-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Toluene	108-88-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Chlorobenzene	108-90-7	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Ethylbenzene	100-41-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Styrene	100-42-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Xylene (total)	1330-20-7	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
SVOCs (mg/L)						
4-Chloroaniline	106-47-8	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
2-Methylnaphthalene	91-57-6	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
2-Nitroaniline	88-74-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
2,4,5-Trichlorophenol	95-95-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
2-Chlorophenol	95-57-8	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Phenol	108-95-2	< 0 001	< 0 001	< 0 001	0 003	< 0 001
2-Nitrophenol	88-75-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
2,4-Dimethylphenol	105-67-9	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
2,4-Dichlorophenol	120-83-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
4-Chloro-3-methylphenol	59-50-7	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
2,4,6-Trichlorophenol	88-06-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
bis(2-Chloroethyl)ether	111-44-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
1,3-Dichlorobenzene	541-73-1	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
1,4-Dichlorobenzene	106-46-7	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
1,2-Dichlorobenzene	95-50-1	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Hexachloroethane	67-72-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
N-nitroso-di-n-propylamine	621-64-7	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Nitrobenzene	98-95-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Isophorone	78-59-1	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
bis(2-Chloroethyl)methane	111-91-1	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
1,2,4-Trichlorobenzene	120-82-1	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Naphthalene	91-20-3	0 0002 J	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Hexachlorobutadiene	87-68-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Hexachlorocyclopentadiene	77-47-4	< 0 015	< 0 015	< 0 015	< 0 015	< 0 015

Table 2 - Groundwater Analytical Results
 2nd 2013 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-4B 12/3/2013	MW-5A 12/4/2013	MW-5B 12/4/2013	MW-6A 12/3/2013	MW-6B 12/3/2013
2-Chloronaphthalene	91-58-7	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Acenaphthylene	208-96-8	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Dimethylphthalate	131-11-3	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2-Methylphenol	95-48-7	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
2,2'-oxybis(1-Chloropropane)	108-60-1	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
4-Methylphenol	106-44-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Dibenzofuran	132-64-9	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
3-Nitroaniline	99-09-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
4-Nitroaniline	100-01-6	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
2,4-Dinitrophenol	51-28-5	< 0 03	< 0 03	< 0 031	< 0 031	< 0 031
4-Nitrophenol	100-02-7	< 0 03	< 0 03	< 0 031	< 0 031	< 0 031
2-Methyl-4,6-Dinitrophenol	534-52-1	< 0 015	< 0 015	< 0 015	< 0 015	< 0 015
Pentachlorophenol	87-86-5	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2,6-Dinitrotoluene	606-20-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Acenaphthene	83-32-9	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
2,4-Dinitrotoluene	121-14-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Fluorene	86-73-7	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
4-Chlorophenyl-phenylether	7005-72-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Diethyl phthalate	84-66-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
N-Nitrosodiphenylamine	86-30-6	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
4-Bromophenyl-phenylether	101-55-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Hexachlorobenzene	118-74-1	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Phenanthrene	85-01-8	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Anthracene	120-12-7	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Di-n-butyl phthalate	84-74-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Fluoranthene	206-44-0	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Pyrene	129-00-0	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Butyl benzyl phthalate	85-68-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(a)anthracene	56-55-3	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Chrysene	218-01-9	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
3,3'-Dichlorobenzidine	91-94-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Ethylhexyl)phthalate	117-81-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Di-n-octyl phthalate	117-84-0	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(b)fluoranthene	205-99-2	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Benzo(k)fluoranthene	207-08-9	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Benzo(a)pyrene	50-32-8	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Indeno(1,2,3-cd)pyrene	193-39-5	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Dibenz(a,h)anthracene	53-70-3	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Benzo(g,h,i)perylene	191-24-2	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Carbazole	86-74-8	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Metals (mg/L)						
Antimony	7440-36-0	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
Arsenic	7440-38-2	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
Beryllium	7440-41-7	0 0011 J	0 0013 J	< 0 005	< 0 005	< 0 005
Cadmium	7440-43-9	0 0027 J	0 0026 J	< 0 005	0 0017 J	< 0 005
Chromium	7440-47-3	0 242	0 122	0 025	0 0072 J	0 058
Copper	7440-50-8	0 0312	0 0202	0 0047 J	< 0 01	0 0063 J
Lead	7439-92-1	0 0217	0 0119 J	0 0412	0 0112 J	< 0 015
Mercury	7439-97-6	0 000076 J	< 0 0002	< 0 0002	< 0 0002	< 0 0002
Nickel	7440-02-0	0 161	0 129	0 0225	0 0049 J	0 0317
Silver	7440-22-4	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Zinc	7440-66-6	0 997	0 329	1 07	0 0215	0 0205
Calcium	7440-70-2	NA	NA	NA	NA	NA
Iron	7439-89-6	NA	NA	NA	NA	NA
Magnesium	7439-95-4	NA	NA	NA	NA	NA
Potassium	7440-09-7	NA	NA	NA	NA	NA
Sodium	7440-23-5	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	---	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	---	NA	NA	NA	NA	NA
Total Dissolved Solids	---	NA	NA	NA	NA	NA
Nitrite Nitrogen	14797-65-0	NA	NA	NA	NA	NA
Nitrate Nitrogen	14797-55-8	NA	NA	NA	NA	NA
Ammonia Nitrogen	7664-41-7	NA	NA	NA	NA	NA
Chloride	16887-00-6	NA	NA	NA	NA	NA
Sulfate	14808-79-8	NA	NA	NA	NA	NA
Bicarbonate	71-52-3	NA	NA	NA	NA	NA
Carbonate	20227-92-3	NA	NA	NA	NA	NA

Table 2 - Groundwater Analytical Results
 2nd 2013 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-7A 12/3/2013	MW-7B 12/3/2013	MW-8A 12/3/2013	MW-8B 12/3/2013
VOCs (mg/L)					
Chloromethane	74-87-3	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	75-00-3	< 0.001	< 0.001	< 0.001	< 0.001
Methylene Chloride	75-09-2	< 0.002	< 0.002	< 0.002	< 0.002
Acetone	67-64-1	< 0.005	< 0.005	< 0.005	< 0.005
Carbon disulfide	75-15-0	0.0002 J	0.0002 J	0.0002 J	0.0004 J
1,1-Dichloroethene	75-35-4	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	156-59-2	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	< 0.001	< 0.001	< 0.001	0.0001 J
1,2-Dichloroethane	107-06-2	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone	78-93-3	< 0.005	< 0.005	< 0.005	< 0.005
1,1,1-Trichloroethane	71-55-6	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropane	10061-01-5	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	71-43-2	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone	108-10-1	< 0.005	< 0.005	< 0.005	< 0.005
2-Hexanone	591-78-6	< 0.005	< 0.005	< 0.005	< 0.005
Tetrachloroethene	127-18-4	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	100-42-5	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	< 0.001	< 0.001	< 0.001	< 0.001
SVOCs (mg/L)					
4-Chloroaniline	106-47-8	< 0.001	< 0.001	< 0.001	< 0.001
2-Methylnaphthalene	91-57-6	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Nitroaniline	88-74-4	< 0.001	< 0.001	< 0.001	< 0.001
2,4,5-Trichlorophenol	95-95-4	< 0.001	< 0.001	< 0.001	< 0.001
2-Chlorophenol	95-57-8	< 0.001	< 0.001	< 0.001	< 0.001
Phenol	108-95-2	< 0.001	< 0.001	< 0.001	< 0.001
2-Nitrophenol	88-75-5	< 0.001	< 0.001	< 0.001	< 0.001
2,4-Dimethylphenol	105-67-9	< 0.001	< 0.001	< 0.001	< 0.001
2,4-Dichlorophenol	120-83-2	< 0.001	< 0.001	< 0.001	< 0.001
4-Chloro-3-methylphenol	59-50-7	< 0.001	< 0.001	< 0.001	< 0.001
2,4,6-Trichlorophenol	88-06-2	< 0.001	< 0.001	< 0.001	< 0.001
bis(2-Chloroethyl)ether	111-44-4	< 0.001	< 0.001	< 0.001	< 0.001
1,3-Dichlorobenzene	541-73-1	< 0.001	< 0.001	< 0.001	< 0.001
1,4-Dichlorobenzene	106-46-7	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichlorobenzene	95-50-1	< 0.001	< 0.001	< 0.001	< 0.001
Hexachloroethane	67-72-1	< 0.005	< 0.005	< 0.005	< 0.005
N-nitroso-di-n-propylamine	621-64-7	< 0.001	< 0.001	< 0.001	< 0.001
Nitrobenzene	98-95-3	< 0.001	< 0.001	< 0.001	< 0.001
Isophorone	78-59-1	< 0.001	< 0.001	< 0.001	< 0.001
bis(2-Chloroethyl)methane	111-91-1	< 0.001	< 0.001	< 0.001	< 0.001
1,2,4-Trichlorobenzene	120-82-1	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	91-20-3	< 0.0005	< 0.0005	0.0002 J	< 0.0005
Hexachlorobutadiene	87-68-3	< 0.001	< 0.001	< 0.001	< 0.001
Hexachlorocyclopentadiene	77-47-4	< 0.015	< 0.015	< 0.015	< 0.015

Table 2 - Groundwater Analytical Results
 2nd 2013 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-7A 12/3/2013	MW-7B 12/3/2013	MW-8A 12/3/2013	MW-8B 12/3/2013
2-Chloronaphthalene	91-58-7	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	208-96-8	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dimethylphthalate	131-11-3	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylphenol	95-48-7	< 0.001	< 0.001	< 0.001	< 0.001
2,2'-oxybis(1-Chloropropane)	108-60-1	< 0.001	< 0.001	< 0.001	< 0.001
4-Methylphenol	106-44-5	< 0.001	< 0.001	< 0.001	< 0.001
Dibenzofuran	132-64-9	< 0.001	< 0.001	< 0.001	< 0.001
3-Nitroaniline	99-09-2	< 0.001	< 0.001	< 0.001	< 0.001
4-Nitroaniline	100-01-6	< 0.001	< 0.001	< 0.001	< 0.001
2,4-Dinitrophenol	51-28-5	< 0.03	< 0.031	< 0.031	< 0.03
4-Nitrophenol	100-02-7	< 0.03	< 0.031	< 0.031	< 0.03
2-Methyl-4,6-Dinitrophenol	534-52-1	< 0.015	< 0.015	< 0.015	< 0.015
Pentachlorophenol	87-86-5	< 0.005	< 0.005	< 0.005	< 0.005
2,6-Dinitrotoluene	606-20-2	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthene	83-32-9	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2,4-Dinitrotoluene	121-14-2	< 0.005	< 0.005	< 0.005	< 0.005
Fluorene	86-73-7	< 0.0005	< 0.0005	< 0.0005	< 0.0005
4-Chlorophenyl-phenylether	7005-72-3	< 0.001	< 0.001	< 0.001	< 0.001
Diethyl phthalate	84-66-2	< 0.005	< 0.005	< 0.005	< 0.005
N-Nitrosodiphenylamine	86-30-6	< 0.001	< 0.001	< 0.001	< 0.001
4-Bromophenyl-phenylether	101-55-3	< 0.001	< 0.001	< 0.001	< 0.001
Hexachlorobenzene	118-74-1	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Phenanthrene	85-01-8	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Anthracene	120-12-7	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Di-n-butyl phthalate	84-74-2	< 0.005	< 0.005	< 0.005	< 0.005
Fluoranthene	206-44-0	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Pyrene	129-00-0	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Butyl benzyl phthalate	85-68-7	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(a)anthracene	56-55-3	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chrysene	218-01-9	< 0.0005	< 0.0005	< 0.0005	< 0.0005
3,3'-Dichlorobenzidine	91-94-1	< 0.005	< 0.005	< 0.005	< 0.005
bis(2-Ethylhexyl)phthalate	117-81-7	< 0.005	< 0.005	< 0.005	< 0.005
Di-n-octyl phthalate	117-84-0	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(b)fluoranthene	205-99-2	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Benzo(k)fluoranthene	207-08-9	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Benzo(a)pyrene	50-32-8	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dibenz(a,h)anthracene	53-70-3	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Benzo(g,h,i)perylene	191-24-2	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Carbazole	86-74-8	< 0.001	< 0.001	< 0.001	< 0.001
Metals (mg/L)					
Antimony	7440-36-0	< 0.02	< 0.02	< 0.02	< 0.02
Arsenic	7440-38-2	< 0.02	< 0.02	< 0.02	< 0.02
Beryllium	7440-41-7	< 0.005	< 0.005	< 0.005	< 0.005
Cadmium	7440-43-9	0.0022 J	< 0.005	0.0022 J	< 0.005
Chromium	7440-47-3	0.0145 J	0.0104 J	0.0274 J	0.114
Copper	7440-50-8	0.0086 J	0.0038 J	0.0096 J	0.0151
Lead	7439-92-1	0.0125 J	0.0098 J	0.0139 J	0.0064 J
Mercury	7439-97-6	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	7440-02-0	0.0274	0.0117	0.0211	0.057
Silver	7440-22-4	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	7440-66-6	0.065	0.0507	0.0322	0.0289
Calcium	7440-70-2	NA	NA	NA	NA
Iron	7439-89-6	NA	NA	NA	NA
Magnesium	7439-95-4	NA	NA	NA	NA
Potassium	7440-09-7	NA	NA	NA	NA
Sodium	7440-23-5	NA	NA	NA	NA
Alkalinity to pH 8.3	---	NA	NA	NA	NA
Alkalinity to pH 4.5	---	NA	NA	NA	NA
Total Dissolved Solids	---	NA	NA	NA	NA
Nitrite Nitrogen	14797-65-0	NA	NA	NA	NA
Nitrate Nitrogen	14797-55-8	NA	NA	NA	NA
Ammonia Nitrogen	7664-41-7	NA	NA	NA	NA
Chloride	16887-00-6	NA	NA	NA	NA
Sulfate	14808-79-8	NA	NA	NA	NA
Bicarbonate	71-52-3	NA	NA	NA	NA
Carbonate	20227-92-3	NA	NA	NA	NA

Table 2 - Groundwater Analytical Results
 2nd 2013 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	EW-1 12/2/2013	EW-2 12/2/2013	EW-3 12/2/2013	EW-4 12/2/2013
VOCs (mg/L)					
Chloromethane	74-87-3	0 002 J	0 001 J	0 001 J	< 0 005
Bromomethane	74-83-9	< 0 005	< 0 005	< 0 005	< 0 005
Vinyl Chloride	75-01-4	< 0 005	< 0 005	< 0 005	< 0 005
Chloroethane	75-00-3	0 01	0 016	0 01	0 021
Methylene Chloride	75-09-2	< 0 005	0 002 J	0 01	< 0 005
Acetone	67-64-1	< 0 02	0 016 J	0 075	< 0 02
Carbon disulfide	75-15-0	< 0 005	0 006	0 001 J	< 0 005
1,1-Dichloroethene	75-35-4	< 0 005	< 0 005	< 0 005	< 0 005
1,1-Dichloroethane	75-34-3	< 0 005	< 0 005	< 0 005	< 0 005
cis-1,2-Dichloroethene	156-59-2	< 0 005	< 0 005	< 0 005	< 0 005
trans-1,2-Dichloroethene	156-60-5	< 0 005	< 0 005	< 0 005	< 0 005
Chloroform	67-66-3	< 0 005	< 0 005	< 0 005	< 0 005
1,2-Dichloroethane	107-06-2	0 005 J	0 018	0 031	0 003 J
2-Butanone	78-93-3	< 0 01	< 0 01	0 028	< 0 01
1,1,1-Trichloroethane	71-55-6	< 0 005	< 0 005	< 0 005	< 0 005
Carbon tetrachloride	56-23-5	< 0 005	< 0 005	< 0 005	< 0 005
Bromodichloromethane	75-27-4	< 0 005	< 0 005	< 0 005	< 0 005
1,2-Dichloropropane	78-87-5	< 0 005	< 0 005	< 0 005	< 0 005
cis-1,3-Dichloropropane	10061-01-5	< 0 005	< 0 005	< 0 005	< 0 005
Trichloroethene	79-01-6	< 0 005	< 0 005	< 0 005	< 0 005
Dibromochloromethane	124-48-1	< 0 005	< 0 005	< 0 005	< 0 005
1,1,2-Trichloroethane	79-00-5	< 0 005	< 0 005	< 0 005	< 0 005
Benzene	71-43-2	< 0 005	0 004 J	0 011	< 0 005
trans-1,3-Dichloropropene	10061-02-6	< 0 005	< 0 005	< 0 005	< 0 005
Bromoform	75-25-2	< 0 005	< 0 005	< 0 005	< 0 005
4-Methyl-2-pentanone	108-10-1	< 0 01	< 0 01	0 008 J	< 0 01
2-Hexanone	591-78-6	< 0 01	< 0 01	0 006 J	< 0 01
Tetrachloroethene	127-18-4	< 0 005	< 0 005	< 0 005	< 0 005
1,1,2,2-Tetrachloroethane	79-34-5	< 0 005	< 0 005	< 0 005	< 0 005
Toluene	108-88-3	< 0 005	0 005	0 019	< 0 005
Chlorobenzene	108-90-7	< 0 005	0 001 J	0 001 J	< 0 005
Ethylbenzene	100-41-4	0 0009 J	0 23	2 1	< 0 005
Styrene	100-42-5	< 0 005	< 0 005	0 002 J	< 0 005
Xylene (total)	1330-20-7	< 0 005	0 002 J	0 017	< 0 005
SVOCs (mg/L)					
4-Chloroaniline	106-47-8	< 0 001	< 0 001	< 0 001	< 0 001
2-Methylnaphthalene	91-57-6	< 0 0005	< 0 0005	0 0004 J	< 0 005
2-Nitroaniline	88-74-4	< 0 001	< 0 001	< 0 001	< 0 001
2,4,5-Trichlorophenol	95-95-4	< 0 001	< 0 001	< 0 001	< 0 001
2-Chlorophenol	95-57-8	< 0 001	< 0 001	< 0 001	< 0 001
Phenol	108-95-2	0 002	0 037	0 12	0 02
2-Nitrophenol	88-75-5	< 0 001	< 0 001	< 0 001	< 0 001
2,4-Dimethylphenol	105-67-9	< 0 001	< 0 001	< 0 001	< 0 001
2,4-Dichlorophenol	120-83-2	< 0 001	< 0 001	< 0 001	< 0 001
4-Chloro-3-methylphenol	59-50-7	< 0 001	< 0 001	< 0 001	< 0 001
2,4,6-Trichlorophenol	88-06-2	< 0 001	< 0 001	< 0 001	< 0 001
bis(2-Chloroethyl)ether	111-44-4	< 0 001	0 001	0 002	< 0 001
1,3-Dichlorobenzene	541-73-1	< 0 001	< 0 001	< 0 001	< 0 001
1,4-Dichlorobenzene	106-46-7	< 0 001	< 0 001	< 0 001	< 0 001
1,2-Dichlorobenzene	95-50-1	< 0 001	< 0 001	< 0 001	< 0 001
Hexachloroethane	67-72-1	< 0 005	< 0 005	< 0 005	< 0 005
N-nitroso-di-n-propylamine	621-64-7	< 0 001	< 0 001	< 0 001	< 0 001
Nitrobenzene	98-95-3	< 0 001	< 0 001	< 0 001	< 0 001
Isophorone	78-59-1	< 0 001	< 0 001	< 0 001	< 0 001
bis(2-Chloroethyl)methane	111-91-1	< 0 001	< 0 001	< 0 001	< 0 001
1,2,4-Trichlorobenzene	120-82-1	< 0 001	< 0 001	< 0 001	< 0 001
Naphthalene	91-20-3	0 0002 J	0 0001 J	0 0003 J	0 014
Hexachlorobutadiene	87-68-3	< 0 001	< 0 001	< 0 001	< 0 001
Hexachlorocyclopentadiene	77-47-4	< 0 014	< 0 015	< 0 014	< 0 014

Table 2 - Groundwater Analytical Results
 2nd 2013 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	EW-1 12/2/2013	EW-2 12/2/2013	EW-3 12/2/2013	EW-4 12/2/2013
2-Chloronaphthalene	91-58-7	< 0 001	< 0 001	< 0 001	< 0 001
Acenaphthylene	208-96-8	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Dimethylphthalate	131-11-3	< 0 005	< 0 005	< 0 005	< 0 005
2-Methylphenol	95-48-7	< 0 001	< 0 001	< 0 008	< 0 001
2,2'-oxybis(1-Chloropropane)	108-60-1	< 0 001	< 0 001	< 0 001	< 0 001
4-Methylphenol	106-44-5	< 0 001	0 0006 J	0 66	< 0 001
Dibenzofuran	132-64-9	< 0 001	< 0 001	< 0 001	< 0 001
3-Nitroaniline	99-09-2	< 0 001	< 0 001	< 0 001	< 0 001
4-Nitroaniline	100-01-6	< 0 001	< 0 001	< 0 001	< 0 001
2,4-Dinitrophenol	51-28-5	< 0 029	< 0 029	< 0 029	< 0 029
4-Nitrophenol	100-02-7	< 0 029	< 0 029	< 0 029	< 0 029
2-Methyl-4,6-Dinitrophenol	534-52-1	< 0 014	< 0 015	< 0 014	< 0 014
Pentachlorophenol	87-86-5	< 0 005	< 0 005	< 0 005	< 0 005
2,6-Dinitrotoluene	606-20-2	< 0 001	< 0 001	< 0 001	< 0 001
Acenaphthene	83-32-9	< 0 0005	< 0 0005	< 0 0005	< 0 0005
2,4-Dinitrotoluene	121-14-2	< 0 005	< 0 005	< 0 005	< 0 005
Fluorene	86-73-7	< 0 0005	< 0 0005	0 0002	< 0 0005
4-Chlorophenyl-phenylether	7005-72-3	< 0 001	< 0 001	< 0 001	< 0 001
Diethyl phthalate	84-66-2	< 0 005	< 0 005	< 0 005	< 0 005
N-Nitrosodiphenylamine	86-30-6	< 0 001	< 0 001	< 0 001	< 0 001
4-Bromophenyl-phenylether	101-55-3	< 0 001	< 0 001	< 0 001	< 0 001
Hexachlorobenzene	118-74-1	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Phenanthrene	85-01-8	< 0 0005	< 0 0005	0 003	< 0 0005
Anthracene	120-12-7	< 0 0005	< 0 0005	0 0008	< 0 0005
Di-n-butyl phthalate	84-74-2	< 0 005	< 0 005	< 0 005	< 0 005
Fluoranthene	206-44-0	< 0 0005	< 0 0005	0 0007	< 0 0005
Pyrene	129-00-0	0 0002 J	0 0003 J	0 004	< 0 0005
Butyl benzyl phthalate	85-68-7	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(a)anthracene	56-55-3	< 0 0005	< 0 0005	0 003	< 0 0005
Chrysene	218-01-9	< 0 0005	< 0 0005	0 004	< 0 0005
3,3'-Dichlorobenzidine	91-94-1	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Ethylhexyl)phthalate	117-81-7	< 0 005	< 0 002	< 0 003 J	< 0 005
Di-n-octyl phthalate	117-84-0	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(b)fluoranthene	205-99-2	< 0 0005	< 0 0005	0 0008	< 0 0005
Benzo(k)fluoranthene	207-08-9	< 0 0005	< 0 0005	0 0002 J	< 0 0005
Benzo(a)pyrene	50-32-8	< 0 0005	< 0 0005	0 002	< 0 0005
Indeno(1,2,3-cd)pyrene	193-39-5	< 0 0005	< 0 0005	0 003 J	< 0 0005
Dibenz(a,h)anthracene	53-70-3	< 0 0005	< 0 0005	0 0004 J	< 0 0005
Benzo(g,h,i)perylene	191-24-2	< 0 0005	< 0 0005	0 001	< 0 0005
Carbazole	86-74-8	< 0 001	< 0 001	0 002	< 0 001
Metals (mg/L)					
Antimony	7440-36-0	< 0 02	< 0 02	< 0 02	< 0 02
Arsenic	7440-38-2	< 0 02	0 0101	0 0283	0 0445
Beryllium	7440-41-7	< 0 005	0 0016	< 0 005	< 0 005
Cadmium	7440-43-9	< 0 005	< 0 005	< 0 005	< 0 005
Chromium	7440-47-3	0 0024 J	0 0065 J	0 0396	0 0111 J
Copper	7440-50-8	0 263	0 459	1 84	0 0308
Lead	7439-92-1	0 0353	0 0566	0 166	0 0093 J
Mercury	7439-97-6	< 0 0002	< 0 0002	< 0 0002	< 0 0002
Nickel	7440-02-0	0 225	0 522	0 315	0 0649
Silver	7440-22-4	< 0 005	< 0 005	< 0 005	< 0 005
Zinc	7440-66-6	0 256	0 298	0 304	0 0775
Calcium	7440-70-2	NA	NA	NA	NA
Iron	7439-89-6	NA	NA	NA	NA
Magnesium	7439-95-4	NA	NA	NA	NA
Potassium	7440-09-7	NA	NA	NA	NA
Sodium	7440-23-5	NA	NA	NA	NA
Alkalinity to pH 8.3	---	NA	NA	NA	NA
Alkalinity to pH 4.5	---	NA	NA	NA	NA
Total Dissolved Solids	---	NA	NA	NA	NA
Nitrite Nitrogen	14797-65-0	NA	NA	NA	NA
Nitrate Nitrogen	14797-55-8	NA	NA	NA	NA
Ammonia Nitrogen	7664-41-7	NA	NA	NA	NA
Chloride	16887-00-6	NA	NA	NA	NA
Sulfate	14808-79-8	NA	NA	NA	NA
Bicarbonate	71-52-3	NA	NA	NA	NA
Carbonate	20227-92-3	NA	NA	NA	NA

Notes
 J = Estimated Value

Table 2 - Groundwater Analytical Results
 1st 2013 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-1B 6/25/2013	MW-2B 6/25/2013	MW-3A 6/26/2013	MW-3B 6/26/2013	MW-4A 6/26/2013
VOCs (mg/L)						
Chloromethane	74-87-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	75-00-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Methylene Chloride	75-09-2	< 0.002	0.0019 J	< 0.002	< 0.002	< 0.002
Acetone	67-64-1	0.0066	0.0057	< 0.005	0.0046 J	0.0023 J
Carbon disulfide	75-15-0	< 0.001	0.00002 J	0.00004 J	0.00002 J	< 0.001
1,1-Dichloroethene	75-35-4	< 0.001	< 0.001	< 0.001	< 0.001	0.00005 J
1,1-Dichloroethane	75-34-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	156-59-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	< 0.001	0.023	< 0.001	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone	78-93-3	< 0.005	0.005	< 0.005	< 0.005	< 0.005
1,1,1-Trichloroethane	71-55-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4	< 0.001	0.0068	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropane	10061-01-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	< 0.001	0.0027	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	71-43-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2	< 0.001	0.00003 J	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone	108-10-1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Hexanone	591-78-6	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tetrachloroethene	127-18-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	< 0.001	0.00001 J	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	100-42-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
SVOCs (mg/L)						
4-Chloroaniline	106-47-8	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Methylnaphthalene	91-57-6	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Nitroaniline	88-74-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2,4,5-Trichlorophenol	95-95-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Chlorophenol	95-57-8	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Phenol	108-95-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Nitrophenol	88-75-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2,4-Dimethylphenol	105-67-9	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2,4-Dichlorophenol	120-83-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
4-Chloro-3-methylphenol	59-50-7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2,4,6-Trichlorophenol	88-06-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
bis(2-Chloroethyl)ether	111-44-4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,3-Dichlorobenzene	541-73-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,4-Dichlorobenzene	106-46-7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichlorobenzene	95-50-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Hexachloroethane	67-72-1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
N-nitroso-di-n-propylamine	621-64-7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Nitrobenzene	98-95-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Isophorone	78-59-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
bis(2-Chloroethyl)methane	111-91-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2,4-Trichlorobenzene	120-82-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	91-20-3	0.00001	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Hexachlorobutadiene	87-68-3	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Hexachlorocyclopentadiene	77-47-4	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
2-Chloronaphthalene	91-58-7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	208-96-8	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dimethylphthalate	131-11-3	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylphenol	95-48-7	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2,2'-oxybis(1-Chloropropane)	108-60-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
4-Methylphenol	106-44-5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibenzofuran	132-64-9	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
3-Nitroaniline	99-09-2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
4-Nitroaniline	100-01-6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2,4-Dinitrophenol	51-28-5	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029
4-Nitrophenol	100-02-7	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029

Notes
 J = Estimated Value

Table 2 - Groundwater Analytical Results
 1st 2013 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-1B 6/25/2013	MW-2B 6/25/2013	MW-3A 6/26/2013	MW-3B 6/26/2013	MW-4A 6/26/2013
2-Methyl-4,6-Dinitrophenol	534-52-1	< 0 014	< 0 014	< 0 014	< 0 014	< 0 014
Pentachlorophenol	87-86-5	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2,6-Dinitrotoluene	606-20-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Acenaphthene	83-32-9	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
2,4-Dinitrotoluene	121-14-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Fluorene	86-73-7	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
4-Chlorophenyl-phenylether	7005-72-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Diethyl phthalate	84-66-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
N-Nitrosodiphenylamine	86-30-6	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
4-Bromophenyl-phenylether	101-55-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Hexachlorobenzene	118-74-1	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Phenanthrene	85-01-8	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Anthracene	120-12-7	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Di-n-butyl phthalate	84-74-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Fluoranthene	206-44-0	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Pyrene	129-00-0	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Butyl benzyl phthalate	85-68-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(a)anthracene	56-55-3	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Chrysene	218-01-9	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
3,3'-Dichlorobenzidine	91-94-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Ethylhexyl)phthalate	117-81-7	0 004 J	0 004 J	< 0 005	< 0 005	0 002 J
Di-n-octyl phthalate	117-84-0	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(b)fluoranthene	205-99-2	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Benzo(k)fluoranthene	207-08-9	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Benzo(a)pyrene	50-32-8	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Indeno(1,2,3-cd)pyrene	193-39-5	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Dibenz(a,h)anthracene	53-70-3	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Benzo(g,h,i)perylene	191-24-2	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Carbazole	86-74-8	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Metals (mg/L)						
Antimony	7440-36-0	< 0 02	< 0 02	< 0 02	< 0 02	< 0 02
Arsenic	7440-38-2	0 0131	0 02 J	< 0 02	< 0 02	< 0 02
Beryllium	7440-41-7	< 0 005	< 0 005	0 003 J	0 0038 J	< 0 005
Cadmium	7440-43-9	0 00077 J	0 0013 J	0 0011 J	0 0014 J	< 0 005
Chromium	7440-47-3	0 0645	0 11	1 55	1 16	0 0248
Copper	7440-50-8	0 0059 J	0 0646 J	0 0989 J	0 107	0 0129 J
Lead	7439-92-1	< 0 015	< 0 0076 J	< 0 015	0 0048 J	< 0 015
Mercury	7439-97-6	< 0 0002	< 0 0002	< 0 0002	< 0 0002	< 0 0002
Nickel	7440-02-0	0 0182	0 0543	0 253	0 113	0 01
Silver	7440-22-4	< 0 005	< 0 005	0 0034 J	< 0 005	< 0 005
Zinc	7440-66-6	0 035	0 0672	0 229	0 0319	0 0054 J
Calcium	7440-70-2	NA	NA	NA	NA	NA
Iron	7439-89-6	NA	NA	NA	NA	NA
Magnesium	7439-95-4	NA	NA	NA	NA	NA
Potassium	7440-09-7	NA	NA	NA	NA	NA
Sodium	7440-23-5	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	---	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	---	NA	NA	NA	NA	NA
Total Dissolved Solids	---	NA	NA	NA	NA	NA
Nitrite Nitrogen	14797-65-0	NA	NA	NA	NA	NA
Nitrate Nitrogen	14797-55-8	NA	NA	NA	NA	NA
Ammonia Nitrogen	7664-41-7	NA	NA	NA	NA	NA
Chloride	16887-00-6	NA	NA	NA	NA	NA
Sulfate	14808-79-8	NA	NA	NA	NA	NA
Bicarbonate	71-52-3	NA	NA	NA	NA	NA
Carbonate	20227-92-3	NA	NA	NA	NA	NA

Notes

J = Estimated Value

Table 2 - Groundwater Analytical Results
 1st 2013 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-4B 6/26/2013	MW-5A 6/25/2013	MW-5B 6/27/2013	MW-6A 6/27/2013	MW-6B 6/27/2013
VOCs (mg/L)						
Chloromethane	74-87-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Bromomethane	74-83-9	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Vinyl Chloride	75-01-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Chloroethane	75-00-3	< 0 001	< 0 001	< 0 001	0 01	< 0 001
Methylene Chloride	75-09-2	< 0 002	0 00006 J	< 0 002	0 0005 J	0 0002 J
Acetone	67-64-1	0 0029 J	< 0 005	0 0032 J	< 0 005	0 0021 J
Carbon disulfide	75-15-0	< 0 001	0 00003 J	< 0 001	0 0012	0 00001 J
1,1-Dichloroethene	75-35-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
1,1-Dichloroethane	75-34-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
cis-1,2-Dichloroethene	156-59-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
trans-1,2-Dichloroethene	156-60-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Chloroform	67-66-3	< 0 001	0 0095	< 0 001	< 0 001	0 028
1,2-Dichloroethane	107-06-2	< 0 001	< 0 001	< 0 001	0 0029	< 0 001
2-Butanone	78-93-3	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
1,1,1-Trichloroethane	71-55-6	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Carbon tetrachloride	56-23-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Bromodichloromethane	75-27-4	< 0 001	0 0013	< 0 001	< 0 001	0 017
1,2-Dichloropropane	78-87-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
cis-1,3-Dichloropropane	10061-01-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Trichloroethene	79-01-6	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Dibromochloromethane	124-48-1	< 0 001	0 00004	< 0 001	< 0 001	0 0087
1,1,2-Trichloroethane	79-00-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Benzene	71-43-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
trans-1,3-Dichloropropene	10061-02-6	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Bromoform	75-25-2	< 0 001	< 0 001	< 0 001	< 0 001	0 0012
4-Methyl-2-pentanone	108-10-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2-Hexanone	591-78-6	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Tetrachloroethene	127-18-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
1,1,2,2-Tetrachloroethane	79-34-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Toluene	108-88-3	< 0 001	< 0 001	< 0 001	< 0 001	0 0002 J
Chlorobenzene	108-90-7	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Ethylbenzene	100-41-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Styrene	100-42-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Xylene (total)	1330-20-7	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
SVOCs (mg/L)						
4-Chloroaniline	106-47-8	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
2-Methylnaphthalene	91-57-6	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
2-Nitroaniline	88-74-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
2,4,5-Trichlorophenol	95-95-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
2-Chlorophenol	95-57-8	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Phenol	108-95-2	< 0 001	< 0 001	< 0 001	0 003	< 0 001
2-Nitrophenol	88-75-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
2,4-Dimethylphenol	105-67-9	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
2,4-Dichlorophenol	120-83-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
4-Chloro-3-methylphenol	59-50-7	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
2,4,6-Trichlorophenol	88-06-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
bis(2-Chloroethyl)ether	111-44-4	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
1,3-Dichlorobenzene	541-73-1	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
1,4-Dichlorobenzene	106-46-7	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
1,2-Dichlorobenzene	95-50-1	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Hexachloroethane	67-72-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
N-nitroso-di-n-propylamine	621-64-7	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Nitrobenzene	98-95-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Isophorone	78-59-1	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
bis(2-Chloroethyl)methane	111-91-1	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
1,2,4-Trichlorobenzene	120-82-1	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Naphthalene	91-20-3	< 0 0005	< 0 0005	0 00001	< 0 0005	< 0 0005
Hexachlorobutadiene	87-68-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Hexachlorocyclopentadiene	77-47-4	< 0 014	< 0 014	< 0 014	< 0 014	< 0 014
2-Chloronaphthalene	91-58-7	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Acenaphthylene	208-96-8	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Dimethylphthalate	131-11-3	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2-Methylphenol	95-48-7	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
2,2'-oxybis(1-Chloropropane)	108-60-1	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
4-Methylphenol	106-44-5	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Dibenzofuran	132-64-9	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
3-Nitroaniline	99-09-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
4-Nitroaniline	100-01-6	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
2,4-Dinitrophenol	51-28-5	< 0 029	< 0 029	< 0 029	< 0 029	< 0 029
4-Nitrophenol	100-02-7	< 0 029	< 0 029	< 0 029	< 0 029	< 0 029

Table 2 - Groundwater Analytical Results
 1st 2013 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-4B 6/26/2013	MW-5A 6/25/2013	MW-5B 6/27/2013	MW-6A 6/27/2013	MW-6B 6/27/2013
2-Methyl-4,6-Dinitrophenol	534-52-1	< 0 014	< 0 014	< 0 014	< 0 014	< 0 014
Pentachlorophenol	87-86-5	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
2,6-Dinitrotoluene	606-20-2	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Acenaphthene	83-32-9	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
2,4-Dinitrotoluene	121-14-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Fluorene	86-73-7	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
4-Chlorophenyl-phenylether	7005-72-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Diethyl phthalate	84-66-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
N-Nitrosodiphenylamine	86-30-6	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
4-Bromophenyl-phenylether	101-55-3	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Hexachlorobenzene	118-74-1	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Phenanthrene	85-01-8	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Anthracene	120-12-7	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Di-n-butyl phthalate	84-74-2	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Fluoranthene	206-44-0	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Pyrene	129-00-0	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Butyl benzyl phthalate	85-68-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(a)anthracene	56-55-3	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Chrysene	218-01-9	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
3,3'-Dichlorobenzidine	91-94-1	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Ethylhexyl)phthalate	117-81-7	< 0 005	< 0 005 J	< 0 01	< 0 005	< 0 005
Di-n-octyl phthalate	117-84-0	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(b)fluoranthene	205-99-2	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Benzo(k)fluoranthene	207-08-9	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Benzo(a)pyrene	50-32-8	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Indeno(1,2,3-cd)pyrene	193-39-5	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Dibenz(a,h)anthracene	53-70-3	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Benzo(g,h,i)perylene	191-24-2	< 0 0005	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Carbazole	86-74-8	< 0 001	< 0 001	< 0 001	< 0 001	< 0 001
Metals (mg/L)						
Antimony	7440-36-0	< 0 02	0 0054 J	< 0 02	< 0 02	< 0 02
Arsenic	7440-38-2	< 0 02	0 0211	0 0135 J	0 0138 J	< 0 02
Beryllium	7440-41-7	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Cadmium	7440-43-9	< 0 005	0 0017 J	0 0013 J	0 00083 J	< 0 005
Chromium	7440-47-3	0 0234	0 132	0 0827	< 0 015	0 0392
Copper	7440-50-8	0 0098 J	0 0573 J	0 0452	< 0 01	0 0109
Lead	7439-92-1	< 0 015	0 0088 J	0 0679	< 0 015	< 0 015
Mercury	7439-97-6	< 0 0002	< 0 0002	< 0 0002	< 0 0002	< 0 0002
Nickel	7440-02-0	0 0158	0 115	0 0631	< 0 01	0 0195
Silver	7440-22-4	< 0 005	< 0 005	< 0 005	< 0 005	< 0 005
Zinc	7440-66-6	0 0113 J	0 112	0 0847	0 0038 J	0 0207
Calcium	7440-70-2	NA	NA	NA	NA	NA
Iron	7439-89-6	NA	NA	NA	NA	NA
Magnesium	7439-95-4	NA	NA	NA	NA	NA
Potassium	7440-09-7	NA	NA	NA	NA	NA
Sodium	7440-23-5	NA	NA	NA	NA	NA
Alkalinity to pH 8 3	---	NA	NA	NA	NA	NA
Alkalinity to pH 4 5	---	NA	NA	NA	NA	NA
Total Dissolved Solids	---	NA	NA	NA	NA	NA
Nitrite Nitrogen	14797-65-0	NA	NA	NA	NA	NA
Nitrate Nitrogen	14797-55-8	NA	NA	NA	NA	NA
Ammonia Nitrogen	7664-41-7	NA	NA	NA	NA	NA
Chloride	16887-00-6	NA	NA	NA	NA	NA
Sulfate	14808-79-8	NA	NA	NA	NA	NA
Bicarbonate	71-52-3	NA	NA	NA	NA	NA
Carbonate	20227-92-3	NA	NA	NA	NA	NA

Notes
 J = Estimated Value

Table 2 - Groundwater Analytical Results
 1st 2013 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-7A 6/27/2013	MW-7B 6/27/2013	MW-8A 6/26/2013	MW-8B 6/26/2013
VOCs (mg/L)					
Chloromethane	74-87-3	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	74-83-9	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	75-01-4	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	75-00-3	< 0.001	< 0.001	< 0.001	< 0.001
Methylene Chloride	75-09-2	< 0.002	< 0.002	< 0.002	< 0.002
Acetone	67-64-1	< 0.005	< 0.005	0.003 J	0.004 J
Carbon disulfide	75-15-0	< 0.001	< 0.001	0.00006 J	0.00004 J
1,1-Dichloroethene	75-35-4	< 0.001	0.00005 J	< 0.001	< 0.001
1,1-Dichloroethane	75-34-3	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	156-59-2	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	67-66-3	< 0.001	< 0.001	< 0.001	0.0074
1,2-Dichloroethane	107-06-2	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone	78-93-3	< 0.005	< 0.005	< 0.005	< 0.005
1,1,1-Trichloroethane	71-55-6	< 0.001	< 0.001	< 0.001	< 0.001
Carbon tetrachloride	56-23-5	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropane	10061-01-5	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	< 0.001	< 0.001	< 0.001	0.0012
1,1,2-Trichloroethane	79-00-5	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	71-43-2	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone	108-10-1	< 0.005	< 0.005	< 0.005	< 0.005
2-Hexanone	591-78-6	< 0.005	< 0.005	< 0.005	< 0.005
Tetrachloroethene	127-18-4	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	100-42-5	< 0.001	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	< 0.001	< 0.001	< 0.001	< 0.001
SVOCs (mg/L)					
4-Chloroaniline	106-47-8	< 0.001	< 0.001	< 0.001	< 0.001
2-Methylnaphthalene	91-57-6	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Nitroaniline	88-74-4	< 0.001	< 0.001	< 0.001	< 0.001
2,4,5-Trichlorophenol	95-95-4	< 0.001	< 0.001	< 0.001	< 0.001
2-Chlorophenol	95-57-8	< 0.001	< 0.001	< 0.001	< 0.001
Phenol	108-95-2	< 0.001	< 0.001	< 0.001	< 0.001
2-Nitrophenol	88-75-5	< 0.001	< 0.001	< 0.001	< 0.001
2,4-Dimethylphenol	105-67-9	< 0.001	< 0.001	< 0.001	< 0.001
2,4-Dichlorophenol	120-83-2	< 0.001	< 0.001	< 0.001	< 0.001
4-Chloro-3-methylphenol	59-50-7	< 0.001	< 0.001	< 0.001	< 0.001
2,4,6-Trichlorophenol	88-06-2	< 0.001	< 0.001	< 0.001	< 0.001
bis(2-Chloroethyl)ether	111-44-4	< 0.001	< 0.001	< 0.001	< 0.001
1,3-Dichlorobenzene	541-73-1	< 0.001	< 0.001	< 0.001	< 0.001
1,4-Dichlorobenzene	106-46-7	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichlorobenzene	95-50-1	< 0.001	< 0.001	< 0.001	< 0.001
Hexachloroethane	67-72-1	< 0.005	< 0.005	< 0.005	< 0.005
N-nitroso-di-n-propylamine	621-64-7	< 0.001	< 0.001	< 0.001	< 0.001
Nitrobenzene	98-95-3	< 0.001	< 0.001	< 0.001	< 0.001
Isophorone	78-59-1	< 0.001	< 0.001	< 0.001	< 0.001
bis(2-Chloroethyl)methane	111-91-1	< 0.001	< 0.001	< 0.001	< 0.001
1,2,4-Trichlorobenzene	120-82-1	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	91-20-3	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Hexachlorobutadiene	87-68-3	< 0.001	< 0.001	< 0.001	< 0.001
Hexachlorocyclopentadiene	77-47-4	< 0.014	< 0.014	< 0.014	< 0.014
2-Chloronaphthalene	91-58-7	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	208-96-8	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dimethylphthalate	131-11-3	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylphenol	95-48-7	< 0.001	< 0.001	< 0.001	< 0.001
2,2'-oxybis(1-Chloropropane)	108-60-1	< 0.001	< 0.001	< 0.001	< 0.001
4-Methylphenol	106-44-5	< 0.001	< 0.001	< 0.001	< 0.001
Dibenzofuran	132-64-9	< 0.001	< 0.001	< 0.001	< 0.001
3-Nitroaniline	99-09-2	< 0.001	< 0.001	< 0.001	< 0.001
4-Nitroaniline	100-01-6	< 0.001	< 0.001	< 0.001	< 0.001
2,4-Dinitrophenol	51-28-5	< 0.029	< 0.029	< 0.029	< 0.029
4-Nitrophenol	100-02-7	< 0.029	< 0.029	< 0.029	< 0.029

Notes

J = Estimated Value

Table 2 - Groundwater Analytical Results
 1st 2013 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	MW-7A 6/27/2013	MW-7B 6/27/2013	MW-8A 6/26/2013	MW-8B 6/26/2013
2-Methyl-4,6-Dinitrophenol	534-52-1	< 0 014	< 0 014	< 0 014	< 0 014
Pentachlorophenol	87-86-5	< 0 005	< 0 005	< 0 005	< 0 005
2,6-Dinitrotoluene	606-20-2	< 0 001	< 0 001	< 0 001	< 0 001
Acenaphthene	83-32-9	< 0 0005	< 0 0005	< 0 0005	< 0 0005
2,4-Dinitrotoluene	121-14-2	< 0 005	< 0 005	< 0 005	< 0 005
Fluorene	86-73-7	< 0 0005	< 0 0005	< 0 0005	< 0 0005
4-Chlorophenyl-phenylether	7005-72-3	< 0 001	< 0 001	< 0 001	< 0 001
Diethyl phthalate	84-66-2	< 0 005	< 0 005	< 0 005	< 0 005
N-Nitrosodiphenylamine	86-30-6	< 0 001	< 0 001	< 0 001	< 0 001
4-Bromophenyl-phenylether	101-55-3	< 0 001	< 0 001	< 0 001	< 0 001
Hexachlorobenzene	118-74-1	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Phenanthrene	85-01-8	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Anthracene	120-12-7	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Di-n-butyl phthalate	84-74-2	< 0 005	< 0 005	< 0 005	< 0 005
Fluoranthene	206-44-0	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Pyrene	129-00-0	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Butyl benzyl phthalate	85-68-7	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(a)anthracene	56-55-3	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Chrysene	218-01-9	< 0 0005	< 0 0005	< 0 0005	< 0 0005
3,3'-Dichlorobenzidine	91-94-1	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Ethylhexyl)phthalate	117-81-7	< 0 005	< 0 005	< 0 005	0 01
Di-n-octyl phthalate	117-84-0	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(b)fluoranthene	205-99-2	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Benzo(k)fluoranthene	207-08-9	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Benzo(a)pyrene	50-32-8	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Indeno(1,2,3-cd)pyrene	193-39-5	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Dibenz(a,h)anthracene	53-70-3	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Benzo(g,h,i)perylene	191-24-2	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Carbazole	86-74-8	< 0 001	< 0 001	< 0 001	< 0 001
Metals (mg/L)					
Antimony	7440-36-0	< 0 02	< 0 02	< 0 02	< 0 02
Arsenic	7440-38-2	0 0226	0 0092 J	< 0 02	< 0 02
Beryllium	7440-41-7	< 0 005	< 0 005	0 0032 J	< 0 005
Cadmium	7440-43-9	0 00079 J	< 0 005	0 0011 J	< 0 005
Chromium	7440-47-3	0 0025 J	0 0074 J	0 0532	0 0288
Copper	7440-50-8	< 0 01	0 0061 J	0 0496	0 0292
Lead	7439-92-1	< 0 015	< 0 015	< 0 015	< 0 015
Mercury	7439-97-6	< 0 0002	< 0 0002	< 0 0002	< 0 0002
Nickel	7440-02-0	0 0163	0 0055 J	0 0325	0 0236
Silver	7440-22-4	< 0 005	< 0 005	< 0 005	< 0 005
Zinc	7440-66-6	0 0172 J	0 0082 J	0 0185 J	0 0402
Calcium	7440-70-2	NA	NA	NA	NA
Iron	7439-89-6	NA	NA	NA	NA
Magnesium	7439-95-4	NA	NA	NA	NA
Potassium	7440-09-7	NA	NA	NA	NA
Sodium	7440-23-5	NA	NA	NA	NA
Alkalinity to pH 8.3	---	NA	NA	NA	NA
Alkalinity to pH 4.5	---	NA	NA	NA	NA
Total Dissolved Solids	---	NA	NA	NA	NA
Nitrite Nitrogen	14797-65-0	NA	NA	NA	NA
Nitrate Nitrogen	14797-55-8	NA	NA	NA	NA
Ammonia Nitrogen	7664-41-7	NA	NA	NA	NA
Chloride	16887-00-6	NA	NA	NA	NA
Sulfate	14808-79-8	NA	NA	NA	NA
Bicarbonate	71-52-3	NA	NA	NA	NA
Carbonate	20227-92-3	NA	NA	NA	NA

Table 2 - Groundwater Analytical Results
 1st 2013 Semi-Annual Sampling Event
 E H Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	EW-1 6/19/2013	EW-2 6/19/2013	EW-3 6/19/2013	EW-4 6/19/2013
VOCs (mg/L)					
Chloromethane	74-87-3	0 002 J	0 001 J	0 001 J	0 001 J
Bromomethane	74-83-9	< 0 005	< 0 005	< 0 005	< 0 005
Vinyl Chloride	75-01-4	< 0 005	< 0 005	< 0 005	< 0 005
Chloroethane	75-00-3	0 026	0 017	0 003 J	0 035
Methylene Chloride	75-09-2	< 0 005	0 002 J	0 008 J	< 0 005
Acetone	67-64-1	0 026	0 007 J	0 23	0 006 J
Carbon disulfide	75-15-0	0 006	0 006	0 008	< 0 005
1,1-Dichloroethene	75-35-4	< 0 005	< 0 005	< 0 005	< 0 005
1,1-Dichloroethane	75-34-3	< 0 005	< 0 005	< 0 005	< 0 005
cis-1,2-Dichloroethene	156-59-2	< 0 005	< 0 005	< 0 005	< 0 005
trans-1,2-Dichloroethene	156-60-5	< 0 005	< 0 005	< 0 005	< 0 005
Chloroform	67-66-3	< 0 005	< 0 005	< 0 005	< 0 005
1,2-Dichloroethane	107-06-2	0 005	0 012	0 082	0 003 J
2-Butanone	78-93-3	< 0 01	0 004 J	0 086	0 003 J
1,1,1-Trichloroethane	71-55-6	< 0 005	< 0 005	< 0 005	< 0 005
Carbon tetrachloride	56-23-5	< 0 005	< 0 005	< 0 005	< 0 005
Bromodichloromethane	75-27-4	< 0 005	< 0 005	< 0 005	< 0 005
1,2-Dichloropropane	78-87-5	< 0 005	< 0 005	< 0 005	< 0 005
cis-1,3-Dichloropropane	10061-01-5	< 0 005	< 0 005	< 0 005	< 0 005
Trichloroethene	79-01-6	< 0 005	< 0 005	< 0 005	< 0 005
Dibromochloromethane	124-48-1	< 0 005	< 0 005	< 0 005	< 0 005
1,1,2-Trichloroethane	79-00-5	< 0 005	< 0 005	< 0 005	< 0 005
Benzene	71-43-2	< 0 005	0 003 J	0 009 J	< 0 005
trans-1,3-Dichloropropene	10061-02-6	< 0 005	< 0 005	< 0 005	< 0 005
Bromoform	75-25-2	< 0 005	< 0 005	< 0 005	< 0 005
4-Methyl-2-pentanone	108-10-1	< 0 01	< 0 01	< 0 01	< 0 01
2-Hexanone	591-78-6	< 0 01	< 0 01	< 0 01	< 0 01
Tetrachloroethene	127-18-4	< 0 005	< 0 005	< 0 005	< 0 005
1,1,2,2-Tetrachloroethane	79-34-5	< 0 005	< 0 005	< 0 005	< 0 005
Toluene	108-88-3	< 0 005	0 002 J	0 017	< 0 005
Chlorobenzene	108-90-7	< 0 005	0 001 J	0 002 J	< 0 005
Ethylbenzene	100-41-4	< 0 005	0 12	4 3	< 0 005
Styrene	100-42-5	< 0 005	< 0 005	0 005 J	< 0 005
Xylene (total)	1330-20-7	< 0 005	0 0008 J	0 01	0 001 J
SVOCs (mg/L)					
4-Chloroaniline	106-47-8	< 0 001	< 0 001	< 0 001	< 0 001
2-Methylnaphthalene	91-57-6	< 0 0005	< 0 0005	0 002 J	0 27
2-Nitroaniline	88-74-4	< 0 001	< 0 001	< 0 001	< 0 001
2,4,5-Trichlorophenol	95-95-4	< 0 001	< 0 001	< 0 001	< 0 001
2-Chlorophenol	95-57-8	< 0 001	< 0 001	< 0 001	< 0 001
Phenol	108-95-2	0 007	0 038	0 26	0 026
2-Nitrophenol	88-75-5	< 0 001	< 0 001	< 0 001	< 0 001
2,4-Dimethylphenol	105-67-9	< 0 001	< 0 001	< 0 001	< 0 001
2,4-Dichlorophenol	120-83-2	< 0 001	< 0 001	< 0 001	< 0 001
4-Chloro-3-methylphenol	59-50-7	< 0 001	< 0 001	< 0 001	< 0 001
2,4,6-Trichlorophenol	88-06-2	< 0 001	< 0 001	< 0 001	< 0 001
bis(2-Chloroethyl)ether	111-44-4	< 0 001	0 001	< 0 001	< 0 001
1,3-Dichlorobenzene	541-73-1	< 0 001	< 0 001	< 0 001	< 0 001
1,4-Dichlorobenzene	106-46-7	< 0 001	< 0 001	< 0 001	< 0 001
1,2-Dichlorobenzene	95-50-1	< 0 001	< 0 001	< 0 001	< 0 001
Hexachloroethane	67-72-1	< 0 005	< 0 005	< 0 005	< 0 005
N-nitroso-di-n-propylamine	621-64-7	< 0 001	< 0 001	< 0 001	< 0 001
Nitrobenzene	98-95-3	< 0 001	< 0 001	< 0 001	< 0 001
Isophorone	78-59-1	< 0 001	< 0 001	< 0 001	< 0 001
bis(2-Chloroethyl)methane	111-91-1	< 0 001	< 0 001	< 0 001	< 0 001
1,2,4-Trichlorobenzene	120-82-1	< 0 001	< 0 001	< 0 001	< 0 001
Naphthalene	91-20-3	< 0 0005	< 0 0005	0 001 J	0 78
Hexachlorobutadiene	87-68-3	< 0 001	< 0 001	< 0 001	< 0 001
Hexachlorocyclopentadiene	77-47-4	< 0 014	< 0 015	< 0 014	< 0 014
2-Chloronaphthalene	91-58-7	< 0 001	< 0 001	< 0 001	< 0 001
Acenaphthylene	208-96-8	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Dimethylphthalate	131-11-3	< 0 005	< 0 005	< 0 005	< 0 005
2-Methylphenol	95-48-7	< 0 001	< 0 001	0 0008 J	< 0 001
2,2'-oxybis(1-Chloropropane)	108-60-1	< 0 001	< 0 001	< 0 001	< 0 001
4-Methylphenol	106-44-5	< 0 001	0 0006 J	4 3	0 003
Dibenzofuran	132-64-9	< 0 001	< 0 001	< 0 001	< 0 001
3-Nitroaniline	99-09-2	< 0 001	< 0 001	< 0 001	< 0 001
4-Nitroaniline	100-01-6	< 0 001	< 0 001	< 0 001	< 0 001
2,4-Dinitrophenol	51-28-5	< 0 029	< 0 029	< 0 029	< 0 029
4-Nitrophenol	100-02-7	< 0 029	< 0 029	< 0 029	< 0 029

Notes

J = Estimated Value

Table 2 - Groundwater Analytical Results
 1st 2013 Semi-Annual Sampling Event
 E. H. Schilling Landfill Superfund Site, Lawrence County, OH

Chemical	Sample ID Sample Date CAS No.	EW-1 6/19/2013	EW-2 6/19/2013	EW-3 6/19/2013	EW-4 6/19/2013
2-Methyl-4,6-Dinitrophenol	534-52-1	< 0 014	< 0 015	< 0 014	< 0 014
Pentachlorophenol	87-86-5	< 0 005	< 0 005	< 0 005	< 0 005
2,6-Dinitrotoluene	606-20-2	< 0 001	< 0 001	< 0 001	< 0 001
Acenaphthene	83-32-9	< 0 0005	< 0 0005	< 0 0005	< 0 0005
2,4-Dinitrotoluene	121-14-2	< 0 005	< 0 005	< 0 005	< 0 005
Fluorene	86-73-7	< 0 0005	< 0 0005	< 0 0005	< 0 0005
4-Chlorophenyl-phenylether	7005-72-3	< 0 001	< 0 001	< 0 001	< 0 001
Diethyl phthalate	84-66-2	< 0 005	< 0 005	< 0 005	< 0 005
N-Nitrosodiphenylamine	86-30-6	< 0 001	< 0 001	< 0 001	< 0 001
4-Bromophenyl-phenylether	101-55-3	< 0 001	< 0 001	< 0 001	< 0 001
Hexachlorobenzene	118-74-1	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Phenanthrene	85-01-8	< 0 0005	< 0 0005	0 006	< 0 0005
Anthracene	120-12-7	< 0 0005	< 0 0005	0 0001 J	< 0 0005
Di-n-butyl phthalate	84-74-2	< 0 005	< 0 005	< 0 005	< 0 005
Fluoranthene	206-44-0	< 0 0005	< 0 0005	0 003 J	< 0 0005
Pyrene	129-00-0	0 0002 J	< 0 0005	0 019	< 0 0005
Butyl benzyl phthalate	85-68-7	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(a)anthracene	56-55-3	< 0 0005	< 0 0005	0 023	< 0 0005
Chrysene	218-01-9	< 0 0005	< 0 0005	0 036	< 0 0005
3,3'-Dichlorobenzidine	91-94-1	< 0 005	< 0 005	< 0 005	< 0 005
bis(2-Ethylhexyl)phthalate	117-81-7	< 0 005	< 0 005	0 003 J	< 0 005
Di-n-octyl phthalate	117-84-0	< 0 005	< 0 005	< 0 005	< 0 005
Benzo(b)fluoranthene	205-99-2	< 0 0005	< 0 0005	0 008	< 0 0005
Benzo(k)fluoranthene	207-08-9	< 0 0005	< 0 0005	0 002 J	< 0 0005
Benzo(a)pyrene	50-32-8	< 0 0005	< 0 0005	0 025	< 0 0005
Indeno(1,2,3-cd)pyrene	193-39-5	< 0 0005	< 0 0005	0 003 J	< 0 0005
Dibenz(a,h)anthracene	53-70-3	< 0 0005	< 0 0005	0 0004 J	< 0 0005
Benzo(g,h,i)perylene	191-24-2	< 0 0005	< 0 0005	0 012	< 0 0005
Carbazole	86-74-8	< 0 001	< 0 001	< 0 001	< 0 001
Metals (mg/L)					
Antimony	7440-36-0	< 0 02	< 0 1	< 0 02	< 0 1
Arsenic	7440-38-2	< 0 02	< 0 02	0 0805	0 0138 J
Beryllium	7440-41-7	< 0 005	< 0 005	0 0023 J	< 0 005
Cadmium	7440-43-9	< 0 005	0 00092 J	0 0017 J	0 0008 J
Chromium	7440-47-3	0 0017 J	0 0071 J	0 156	0 0027 J
Copper	7440-50-8	0 0091	0 333	0 0556	0 363
Lead	7439-92-1	< 0 015	0 101	0 0129 J	0 173
Mercury	7439-97-6	< 0 0002	< 0 0002	< 0 0002	< 0 0002
Nickel	7440-02-0	0 019	0 329	0 184	0 785
Silver	7440-22-4	< 0 005	< 0 005	< 0 005	< 0 005
Zinc	7440-66-6	0 0157 J	0 248	0 177	0 701 J
Calcium	7440-70-2	NA	NA	NA	NA
Iron	7439-89-6	NA	NA	NA	NA
Magnesium	7439-95-4	NA	NA	NA	NA
Potassium	7440-09-7	NA	NA	NA	NA
Sodium	7440-23-5	NA	NA	NA	NA
Alkalinity to pH 8.3	---	NA	NA	NA	NA
Alkalinity to pH 4.5	---	NA	NA	NA	NA
Total Dissolved Solids	---	NA	NA	NA	NA
Nitrite Nitrogen	14797-65-0	NA	NA	NA	NA
Nitrate Nitrogen	14797-55-8	NA	NA	NA	NA
Ammonia Nitrogen	7664-41-7	NA	NA	NA	NA
Chloride	16887-00-6	NA	NA	NA	NA
Sulfate	14808-79-8	NA	NA	NA	NA
Bicarbonate	71-52-3	NA	NA	NA	NA
Carbonate	20227-92-3	NA	NA	NA	NA

Notes
 J = Estimated Value

TABLE 5
Effluent Sample Results

Attachment A

2017 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit Discharge Limits		January-17	February-17	March-17	April-17
		30 Day Avg.	Daily Max.	1/25/2017	2/1/2017	3/8/2017	4/1/2017
Metals (mg/L)							
Mercury	7439-97-6	0 000013	0 0011	0 000033 J	N/A	N/A	N/A
Antimony	7440-36-0	monitor	monitor	< 0 005	N/A	< 0 005	N/A
Arsenic	7440-38-2	0 122	0.36	0 00088 J	N/A	< 0 005	N/A
Beryllium	7440-41-7	0.00142	1	< 0 002	N/A	< 0 002	N/A
Cadmium	7440-43-9	monitor	0 0089	< 0 0002	N/A	< 0 0002	N/A
Chromium	7440-47-3	0 119	2 6	0 00075 J	N/A	< 0 005	N/A
Copper	7440-50-8	monitor	0 027	0 0072	N/A	0 012	N/A
Lead	7439-92-1	0.121	0 23	< 0 005	N/A	0 0019	N/A
Nickel	7440-02-0	0.24	2.3	0 005	N/A	0 0055	N/A
Silver	7440-22-4	monitor	0 0034	< 0 005	N/A	< 0 005	N/A
Zinc	7440-66-6	monitor	0 17	0 031	N/A	0 13	N/A
Cyanide (free)	57-12-5	monitor	0 046	< 0 005	N/A	< 0 005	N/A
Conventionals (mg/L)							
BOD	BOD	monitor	monitor	< 2	N/A	< 2	N/A
pH (Min and Max) (S U)	pH	6.5	9	7 69	N/A	7 09	N/A
TSS	TSS	30	45	< 2 4	N/A	< 1 2	N/A
Ammonia Nitrogen	7664-41-7	monitor	monitor	3	N/A	0 73	N/A
Oil & Grease (total)	O&G	10	10	< 5	N/A	1 7 J	N/A
Pesticides (ug/L)							
p,p-DDD	72-54-8	---	---	< 0 02	N/A	< 0 02	N/A
p,p-DDE	72-55-9	---	---	< 0 02	N/A	< 0 02	N/A
p,p-DDT	50-29-3	0 000227	monitor	< 0 02	N/A	< 0 02	N/A
Aldrin	309-00-2	0 000884	monitor	< 0 01	N/A	< 0 02	N/A
Alpha BHC	319-84-6	---	---	< 0 01	N/A	< 0 02	N/A
Alpha Chlordane	5103-71-9	---	---	< 0 02	N/A	< 0 02	N/A
Beta BHC	319-85-7	---	---	< 0 01	N/A	< 0 02	N/A
Delta BHC	319-86-8	---	---	< 0 01	N/A	< 0 02	N/A
Dieldrin	60-57-1	---	---	< 0 02	N/A	< 0 02	N/A
Endosulfan I	959-98-8	---	---	< 0 02	N/A	< 0 02	N/A
Endosulfan II	33213-65-9	---	---	< 0 02	N/A	< 0 02	N/A
Endosulfan Sulfate	1031-07-8	---	---	< 0 02	N/A	< 0 02	N/A
Endrin	72-20-8	---	---	< 0 02	N/A	< 0 02	N/A
Endrin Aldehyde	7421-93-4	---	---	< 0 02	N/A	< 0 02	N/A
Endrin Ketone	53494-70-5	---	---	< 0 02	N/A	< 0 02	N/A
Gamma BHC-Lindane	58-89-9	---	---	< 0 01	N/A	< 0 02	N/A
Gamma Chlordane	5103-74-2	---	---	< 0 02	N/A	< 0 02	N/A
Heptachlor	76-44-8	0.00331	monitor	< 0 01	N/A	< 0 02	N/A
Heptachlor Epoxide	1024-57-3	---	---	< 0 01	N/A	< 0 02	N/A
Methoxychlor	72-43-5	---	---	< 0 04	N/A	< 0 02	N/A
Toxaphene	8001-35-2	---	---	< 2	N/A	< 2	N/A
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0 2	N/A	< 0 2	N/A
PCB-1221	11104-28-2	---	---	< 0 2	N/A	< 0 2	N/A
PCB-1232	11141-16-5	---	---	< 0 2	N/A	< 0 2	N/A
PCB-1242	53469-21-9	---	---	< 0 2	N/A	< 0 2	N/A
PCB-1248	12672-29-6	---	---	< 0 2	N/A	< 0 2	N/A
PCB-1254	11097-69-1	---	---	< 0 2	N/A	< 0 2	N/A
PCB-1260	11096-82-5	---	---	< 0 2	N/A	< 0 2	N/A
TOTAL PCBs		0.000967	monitor	0	N/A	0	N/A

Attachment A

2017 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit		January-17 1/25/2017	February-17 2/1/2017	March-17 3/8/2017	April-17 4/1/2017
		Discharge Limits					
		30 Day Avg	Daily Max.				
Semi-VOCs (ug/L)							
1,2,4-Trichlorobenzene	120-82-1	---	---	< 5	N/A	< 5.1	N/A
1,2-Dichlorobenzene	95-50-1	---	---	< 5	N/A	< 5.1	N/A
1,3-Dichlorobenzene	541-73-1	---	---	< 5	N/A	< 5.1	N/A
1,4-Dichlorobenzene	106-46-7	---	---	< 5	N/A	< 5.1	N/A
2,4,5-Trichlorophenol	95-95-4	---	---	< 5	N/A	< 5.1	N/A
2,4,6-Trichlorophenol	88-06-2	---	---	< 5	N/A	< 5.1	N/A
2,4-Dichlorophenol	120-83-2	---	---	< 5	N/A	< 5.1	N/A
2,4-Dimethylphenol	105-67-9	---	---	< 5	N/A	< 5.1	N/A
2,4-Dinitrophenol	51-28-5	---	---	< 5	N/A	< 5.1	N/A
2,4-Dinitrotoluene	121-14-2	---	---	< 5	N/A	< 5.1	N/A
2,6-Dinitrotoluene	606-20-2	---	---	< 5	N/A	< 5.1	N/A
2-Chloronaphthalene	91-58-7	---	---	< 5	N/A	< 5.1	N/A
2-Chlorophenol	95-57-8	---	---	< 5	N/A	< 5.1	N/A
2-Methylnaphthalene	91-57-6	---	---	< 5	N/A	< 5.1	N/A
2-Nitrophenol	88-75-5	---	---	< 5	N/A	< 5.1	N/A
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	N/A	< 5.1	N/A
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 5	N/A	< 5.1	N/A
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	N/A	< 5.1	N/A
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	N/A	< 5.1	N/A
4-Chloroaniline	106-47-8	---	---	< 5	N/A	< 5.1	N/A
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	N/A	< 5.1	N/A
4-Nitrophenol	100-02-7	---	---	< 5	N/A	< 5.1	N/A
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	N/A	< 5.1	N/A
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	N/A	< 5.1	N/A
Bis (2-chloroisopropyl)ether	108-60-1	---	---	< 5	N/A	< 5.1	N/A
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	N/A	< 5.1	N/A
Butylbenzylphthalate	85-68-7	---	---	< 5	N/A	< 5.1	N/A
Carbazole	86-74-8	---	---	< 5	N/A	< 5.1	N/A
Dibenzofuran	132-64-9	---	---	< 5	N/A	< 5.1	N/A
Diethylphthalate	84-66-2	monitor	2600	< 5	N/A	< 5.1	N/A
Dimethylphthalate	131-11-3	monitor	monitor	< 5	N/A	< 5.1	N/A
di-n-butylphthalate	84-74-2	monitor	350	< 5	N/A	< 5.1	N/A
Di-n-octylphthalate	117-84-0	---	---	< 5	N/A	< 5.1	N/A
Hexachlorobenzene	118-74-1	---	---	< 5	N/A	< 5.1	N/A
Hexachlorobutadiene	87-68-3	---	---	< 5	N/A	< 5.1	N/A
Hexachlorocyclopentadiene	77-47-4	---	---	< 5	N/A	< 5.1	N/A
Hexachloroethane	67-72-1	---	---	< 5	N/A	< 5.1	N/A
Isophorone	78-59-1	---	---	< 5	N/A	< 5.1	N/A
m p-Phenol	106-44-5	monitor	140	< 5	N/A	< 5.1	N/A
Nitrobenzene	98-95-3	---	---	< 5	N/A	< 5.1	N/A
N-nitrosodiphenylamine	86-30-6	---	---	< 5	N/A	< 5.1	N/A
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	N/A	< 5.1	N/A
o-Cresol	95-48-7	---	---	< 5	N/A	< 5.1	N/A
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	N/A	< 5.1	N/A
Phenol	108-95-2	monitor	monitor	< 5	N/A	< 5.1	N/A
2-Nitroaniline	88-74-4	---	---	< 5	NA	< 5.1	NA
3-Nitroaniline	99-09-2	---	---	< 5	NA	< 5.1	NA
4-Nitroaniline	100-01-6	---	---	< 5	NA	< 5.1	NA

**Attachment A 2017 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		January-17 1/25/2017	February-17 2/1/2017	March-17 3/8/2017	April-17 4/1/2017
		Discharge Limits					
		30 Day Avg	Daily Max.				
PAHs (ug/L)							
Acenaphthene	83-32-9	monitor	67	< 5	N/A	< 5.1	N/A
Acenaphthylene	208-96-8	---	---	< 5	N/A	< 5.1	N/A
Anthracene	120-12-7	---	---	< 5	N/A	< 5.1	N/A
Benzo (a) anthracene	56-55-3	---	---	< 5	N/A	< 5.1	N/A
Benzo (a) pyrene	50-32-8	---	---	< 5	N/A	< 5.1	N/A
Benzo (b) flouranthene	205-99-2	---	---	< 5	N/A	< 5.1	N/A
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	N/A	< 5.1	N/A
Benzo (k) flouranthene	207-08-9	---	---	< 5	N/A	< 5.1	N/A
Chrysene	218-01-9	---	---	< 5	N/A	< 5.1	N/A
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	N/A	< 5.1	N/A
Fluoranthene	206-44-0	66	200	< 5	N/A	< 5.1	N/A
Fluorene	86-73-7	---	---	< 5	N/A	< 5.1	N/A
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	N/A	< 5.1	N/A
Naphthalene	91-20-3	monitor	160	< 5	N/A	< 5.1	N/A
Phenanthrene	85-01-8	---	---	< 5	N/A	< 5.1	N/A
Pyrene	129-00-0	---	---	< 5	N/A	< 5.1	N/A
Total PAHs		0.376	monitor	0	N/A	0	N/A
VOCs (ug/L)							
1,1,1-Trichloroethane	71-55-6	---	---	< 1	N/A	< 1	N/A
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	N/A	< 1	N/A
1,1,2-Trichloroethane	79-00-5	---	---	< 1	N/A	< 1	N/A
1,1-Dichloroethane	75-34-3	---	---	< 1	N/A	< 1	N/A
1,1-Dichloroethene	75-35-4	---	---	< 1	N/A	< 1	N/A
1,2-Dichloroethane	107-06-2	180	574	< 1	N/A	< 1	N/A
1,2-Dichloropropane	78-87-5	---	---	< 1	N/A	< 1	N/A
2-Butanone	78-93-3	---	---	< 5	N/A	< 5	N/A
2-Hexanone	591-78-6	---	---	< 5	N/A	< 5	N/A
4-Methyl-2-pentanone	108-10-1	---	---	< 1	N/A	< 1	N/A
Acetone (total)	67-64-1	monitor	550	1.2 J	N/A	< 10	N/A
Benzene	71-43-2	57	134	< 1	N/A	< 1	N/A
Bromodichloromethane	75-27-4	---	---	< 1	N/A	< 1	N/A
Bromoform	75-25-2	---	---	< 1	N/A	< 1	N/A
Bromomethane	74-83-9	---	---	< 1	N/A	< 1	N/A
Carbon Disulfide	75-15-0	---	---	< 1	N/A	< 1	N/A
Carbon Tetrachloride	56-23-5	---	---	< 1	N/A	< 1	N/A
Chlorobenzene	108-90-7	---	---	< 1	N/A	< 1	N/A
Chloroethane	75-00-3	---	---	< 1	N/A	< 1	N/A
Chloroform	67-66-3	---	---	< 1	N/A	< 1	N/A
Chloromethane	74-87-3	---	---	< 1	N/A	< 1	N/A
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	N/A	< 1	N/A
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	N/A	< 1	N/A
Dibromochloromethane	124-48-1	---	---	< 1	N/A	< 1	N/A
Ethylbenzene	100-41-4	142	380	< 1	N/A	< 1	N/A
Methylene Chloride	75-09-2	---	---	< 5	N/A	< 5	N/A
Styrene	100-42-5	monitor	1300	< 1	N/A	< 1	N/A
Tetrachloroethene	127-18-4	52	164	< 1	N/A	< 1	N/A
Toluene	108-88-3	28	74	< 1	N/A	< 1	N/A
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	N/A	< 1	N/A
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	N/A	< 1	N/A
Trichloroethene	79-01-6	---	---	< 1	N/A	< 1	N/A
Vinyl Chloride	75-01-4	---	---	< 1	N/A	< 1	N/A
Total Xylene	1330-20-7	---	---	< 3	N/A	< 3	N/A

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

J - Analyte is present at an estimated concentration between the MDL and Report Limit

H - Analyzed outside of Holding Time

X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

Attachment A

2016-17 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit		December-16	January-17	February-17	March-17
		Discharge Limits					
		30 Day Avg.	Daily Max.				
Metals (mg/L)							
Mercury	7439-97-6	0 000013	0 0011	N/A	0 000033 J	N/A	N/A
Antimony	7440-36-0	monitor	monitor	N/A	< 0 005	N/A	< 0 005
Arsenic	7440-38-2	0.122	0 36	N/A	0 00088 J	N/A	< 0 005
Beryllium	7440-41-7	0 00142	1	N/A	< 0 002	N/A	< 0 002
Cadmium	7440-43-9	monitor	0 0089	N/A	< 0 0002	N/A	< 0 0002
Chromium	7440-47-3	0 119	2.6	N/A	0 00075 J	N/A	< 0 005
Copper	7440-50-8	monitor	0 027	N/A	0 0072	N/A	0 012
Lead	7439-92-1	0 121	0 23	N/A	< 0 005	N/A	0 0019
Nickel	7440-02-0	0.24	2 3	N/A	0 005	N/A	0 0055
Silver	7440-22-4	monitor	0 0034	N/A	< 0 005	N/A	< 0 005
Zinc	7440-66-6	monitor	0.17	N/A	0 031	N/A	0 13
Cyanide (free)	57-12-5	monitor	0 046	N/A	< 0 005	N/A	< 0 005
Conventionals (mg/L)							
BOD	BOD	monitor	monitor	N/A	< 2	N/A	< 2
pH (Min and Max) (S U)	pH	6.5	9	N/A	7 69	N/A	7 09
TSS	TSS	30	45	N/A	< 2 4	N/A	< 1 2
Ammonia Nitrogen	7664-41-7	monitor	monitor	N/A	3	N/A	0 73
Oil & Grease (total)	O&G	10	10	N/A	< 5	N/A	1 7 J
Pesticides (ug/L)							
p,p-DDD	72-54-8	---	---	N/A	< 0 02	N/A	< 0 02
p,p-DDE	72-55-9	---	---	N/A	< 0 02	N/A	< 0 02
p,p-DDT	50-29-3	0.000227	monitor	N/A	< 0 02	N/A	< 0 02
Aldrn	309-00-2	0.000884	monitor	N/A	< 0 01	N/A	< 0 02
Alpha BHC	319-84-6	---	---	N/A	< 0 01	N/A	< 0 02
Alpha Chlordane	5103-71-9	---	---	N/A	< 0 02	N/A	< 0 02
Beta BHC	319-85-7	---	---	N/A	< 0 01	N/A	< 0 02
Delta BHC	319-86-8	---	---	N/A	< 0 01	N/A	< 0 02
Dieldrin	60-57-1	---	---	N/A	< 0 02	N/A	< 0 02
Endosulfan I	959-98-8	---	---	N/A	< 0 02	N/A	< 0 02
Endosulfan II	33213-65-9	---	---	N/A	< 0 02	N/A	< 0 02
Endosulfan Sulfate	1031-07-8	---	---	N/A	< 0 02	N/A	< 0 02
Endrin	72-20-8	---	---	N/A	< 0 02	N/A	< 0 02
Endrin Aldehyde	7421-93-4	---	---	N/A	< 0 02	N/A	< 0 02
Endrin Ketone	53494-70-5	---	---	N/A	< 0 02	N/A	< 0 02
Gamma BHC-Lindane	58-89-9	---	---	N/A	< 0 01	N/A	< 0 02
Gamma Chlordane	5103-74-2	---	---	N/A	< 0 02	N/A	< 0 02
Heptachlor	76-44-8	0 00331	monitor	N/A	< 0 01	N/A	< 0 02
Heptachlor Epoxide	1024-57-3	---	---	N/A	< 0 01	N/A	< 0 02
Methoxychlor	72-43-5	---	---	N/A	< 0 04	N/A	< 0 02
Toxaphene	8001-35-2	---	---	N/A	< 2	N/A	< 2
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	N/A	< 0 2	N/A	< 0 2
PCB-1221	11104-28-2	---	---	N/A	< 0 2	N/A	< 0 2
PCB-1232	11141-16-5	---	---	N/A	< 0 2	N/A	< 0 2
PCB-1242	53469-21-9	---	---	N/A	< 0 2	N/A	< 0 2
PCB-1248	12672-29-6	---	---	N/A	< 0 2	N/A	< 0 2
PCB-1254	11097-69-1	---	---	N/A	< 0 2	N/A	< 0 2
PCB-1260	11096-82-5	---	---	N/A	< 0 2	N/A	< 0 2
TOTAL PCBs		0 000967	monitor	N/A	0	N/A	0

Attachment A

2016-17 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit		December-16 12/1/2016	January-17 1/25/2017	February-17 2/1/2017	March-17 3/8/2017
		Discharge Limits					
		30 Day Avg	Daily Max.				
Semi-VOCs (ug/L)							
1,2,4-Trichlorobenzene	120-82-1	---	---	N/A	< 5	N/A	< 5
1,2-Dichlorobenzene	95-50-1	---	---	N/A	< 5	N/A	< 5
1,3-Dichlorobenzene	541-73-1	---	---	N/A	< 5	N/A	< 5
1,4-Dichlorobenzene	106-46-7	---	---	N/A	< 5	N/A	< 5
2,4,5-Trichlorophenol	95-95-4	---	---	N/A	< 5	N/A	< 5
2,4,6-Trichlorophenol	88-06-2	---	---	N/A	< 5	N/A	< 5
2,4-Dichlorophenol	120-83-2	---	---	N/A	< 5	N/A	< 5
2,4-Dimethylphenol	105-67-9	---	---	N/A	< 5	N/A	< 5
2,4-Dinitrophenol	51-28-5	---	---	N/A	< 5	N/A	< 5
2,4-Dinitrotoluene	121-14-2	---	---	N/A	< 5	N/A	< 5
2,6-Dinitrotoluene	606-20-2	---	---	N/A	< 5	N/A	< 5
2-Chloronaphthalene	91-58-7	---	---	N/A	< 5	N/A	< 5
2-Chlorophenol	95-57-8	---	---	N/A	< 5	N/A	< 5
2-Methylnaphthalene	91-57-6	---	---	N/A	< 5	N/A	< 5
2-Nitrophenol	88-75-5	---	---	N/A	< 5	N/A	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	N/A	< 5	N/A	< 5
4,6-Dinitro-2-methylphenol	534-52-1	---	---	N/A	< 5	N/A	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	N/A	< 5	N/A	< 5
4-Chloro-3-methylphenol	59-50-7	---	---	N/A	< 5	N/A	< 5
4-Chloroaniline	106-47-8	---	---	N/A	< 5	N/A	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	N/A	< 5	N/A	< 5
4-Nitrophenol	100-02-7	---	---	N/A	< 5	N/A	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	N/A	< 5	N/A	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	N/A	< 5	N/A	< 5
Bis (2-chloroisopropyl)ether	108-60-1	---	---	N/A	< 5	N/A	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	N/A	< 5	N/A	< 5
Butylbenzylphthalate	85-68-7	---	---	N/A	< 5	N/A	< 5
Carbazole	86-74-8	---	---	N/A	< 5	N/A	< 5
Dibenzofuran	132-64-9	---	---	N/A	< 5	N/A	< 5
Diethylphthalate	84-66-2	monitor	2600	N/A	< 5	N/A	< 5
Dimethylphthalate	131-11-3	monitor	monitor	N/A	< 5	N/A	< 5
di-n-butylphthalate	84-74-2	monitor	350	N/A	< 5	N/A	< 5
Di-n-octylphthalate	117-84-0	---	---	N/A	< 5	N/A	< 5
Hexachlorobenzene	118-74-1	---	---	N/A	< 5	N/A	< 5
Hexachlorobutadiene	87-68-3	---	---	N/A	< 5	N/A	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	N/A	< 5	N/A	< 5
Hexachloroethane	67-72-1	---	---	N/A	< 5	N/A	< 5
Isophorone	78-59-1	---	---	N/A	< 5	N/A	< 5
m p-Phenol	106-44-5	monitor	140	N/A	< 5	N/A	< 5
Nitrobenzene	98-95-3	---	---	N/A	< 5	N/A	< 5
N-nitrosodiphenylamine	86-30-6	---	---	N/A	< 5	N/A	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	N/A	< 5	N/A	< 5
o-Cresol	95-48-7	---	---	N/A	< 5	N/A	< 5
Pentachlorophenol (total)	87-86-5	monitor	3 5	N/A	< 5	N/A	< 5
Phenol	108-95-2	monitor	monitor	N/A	< 5	N/A	< 5
2-Nitroaniline	88-74-4	---	---	NA	< 5	NA	< 5
3-Nitroaniline	99-09-2	---	---	NA	< 5	NA	< 5
4-Nitroaniline	100-01-6	---	---	NA	< 5	NA	< 5

**Attachment A 2016-17 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		December-16 12/1/2016	January-17 1/25/2017	February-17 2/1/2017	March-17 3/8/2017
		Discharge Limits					
		30 Day Avg	Daily Max				
PAHs (ug/L)							
Acenaphthene	83-32-9	monitor	67	N/A	< 5	N/A	< 5 1
Acenaphthylene	208-96-8	---	---	N/A	< 5	N/A	< 5 1
Anthracene	120-12-7	---	---	N/A	< 5	N/A	< 5 1
Benzo (a) anthracene	56-55-3	---	---	N/A	< 5	N/A	< 5 1
Benzo (a) pyrene	50-32-8	---	---	N/A	< 5	N/A	< 5 1
Benzo (b) flouranthene	205-99-2	---	---	N/A	< 5	N/A	< 5 1
Benzo (g,h,i) perylene	191-24-2	---	---	N/A	< 5	N/A	< 5 1
Benzo (k) flouranthene	207-08-9	---	---	N/A	< 5	N/A	< 5 1
Chrysene	218-01-9	---	---	N/A	< 5	N/A	< 5 1
Dibenz (a,h) anthracene	53-70-3	---	---	N/A	< 5	N/A	< 5 1
Fluoranthene	206-44-0	66	200	N/A	< 5	N/A	< 5 1
Fluorene	86-73-7	---	---	N/A	< 5	N/A	< 5 1
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	N/A	< 5	N/A	< 5 1
Naphthalene	91-20-3	monitor	160	N/A	< 5	N/A	< 5 1
Phenanthrene	85-01-8	---	---	N/A	< 5	N/A	< 5 1
Pyrene	129-00-0	---	---	N/A	< 5	N/A	< 5 1
Total PAHs		0 376	monitor	N/A	0	N/A	0
VOCs (ug/L)							
1,1,1-Trichloroethane	71-55-6	---	---	N/A	< 1	N/A	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	N/A	< 1	N/A	< 1
1,1,2-Trichloroethane	79-00-5	---	---	N/A	< 1	N/A	< 1
1,1-Dichloroethane	75-34-3	---	---	N/A	< 1	N/A	< 1
1,1-Dichloroethene	75-35-4	---	---	N/A	< 1	N/A	< 1
1,2-Dichloroethane	107-06-2	180	574	N/A	< 1	N/A	< 1
1,2-Dichloropropane	78-87-5	---	---	N/A	< 1	N/A	< 1
2-Butanone	78-93-3	---	---	N/A	< 5	N/A	< 5
2-Hexanone	591-78-6	---	---	N/A	< 5	N/A	< 5
4-Methyl-2-pentanone	108-10-1	---	---	N/A	< 1	N/A	< 1
Acetone (total)	67-64-1	monitor	550	N/A	1 2	N/A	< 10
Benzene	71-43-2	57	134	N/A	< 1	N/A	< 1
Bromodichloromethane	75-27-4	---	---	N/A	< 1	N/A	< 1
Bromoform	75-25-2	---	---	N/A	< 1	N/A	< 1
Bromomethane	74-83-9	---	---	N/A	< 1	N/A	< 1
Carbon Disulfide	75-15-0	---	---	N/A	< 1	N/A	< 1
Carbon Tetrachloride	56-23-5	---	---	N/A	< 1	N/A	< 1
Chlorobenzene	108-90-7	---	---	N/A	< 1	N/A	< 1
Chloroethane	75-00-3	---	---	N/A	< 1	N/A	< 1
Chloroform	67-66-3	---	---	N/A	< 1	N/A	< 1
Chloromethane	74-87-3	---	---	N/A	< 1	N/A	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	N/A	< 1	N/A	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	N/A	< 1	N/A	< 1
Dibromochloromethane	124-48-1	---	---	N/A	< 1	N/A	< 1
Ethylbenzene	100-41-4	142	380	N/A	< 1	N/A	< 1
Methylene Chloride	75-09-2	---	---	N/A	< 5	N/A	< 5
Styrene	100-42-5	monitor	1300	N/A	< 1	N/A	< 1
Tetrachloroethene	127-18-4	52	164	N/A	< 1	N/A	< 1
Toluene	108-88-3	28	74	N/A	< 1	N/A	< 1
Trans-1,2-Dichloroethene	156-60-5	---	---	N/A	< 1	N/A	< 1
Trans-1,3-Dichloropropene	10061-02-6	---	---	N/A	< 1	N/A	< 1
Trichloroethene	79-01-6	---	---	N/A	< 1	N/A	< 1
Vinyl Chloride	75-01-4	---	---	N/A	< 1	N/A	< 1
Total Xylene	1330-20-7	---	---	N/A	< 3	N/A	< 3

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

J - Analyte is present at an estimated concentration between the MDL and Report Limit

H - Analyzed outside of Holding Time

X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

**Attachment A 2016-17 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		November-16 11/28/2016	December-16 12/1/2016	January-17 1/25/2017	February-17 2/1/2017
		Discharge Limits					
		30 Day Avg	Daily Max				
Metals (mg/L)							
Mercury	7439-97-6	0 000013	0.0011	< 0 0002	N/A	0 000033 J	N/A
Antimony	7440-36-0	monitor	monitor	< 0 005	N/A	< 0 005	N/A
Arsenic	7440-38-2	0.122	0.36	< 0 005	N/A	0 00088 J	N/A
Beryllium	7440-41-7	0 00142	1	< 0 002	N/A	< 0 002	N/A
Cadmium	7440-43-9	monitor	0 0089	< 0 0002	N/A	< 0 0002	N/A
Chromium	7440-47-3	0 119	2.6	< 0 005	N/A	0 00075 J	N/A
Copper	7440-50-8	monitor	0.027	0 0082	N/A	0 0072	N/A
Lead	7439-92-1	0 121	0 23	< 0 005	N/A	< 0 005	N/A
Nickel	7440-02-0	0 24	2 3	0 0073	N/A	0 005	N/A
Silver	7440-22-4	monitor	0.0034	< 0 005	N/A	< 0 005	N/A
Zinc	7440-66-6	monitor	0 17	0 12	N/A	0 031	N/A
Cyanide (free)	57-12-5	monitor	0.046	< 0 005	N/A	< 0 005	N/A
Conventionals (mg/L)							
BOD	BOD	monitor	monitor	< 2	N/A	< 2	N/A
pH (Min and Max) (S U)	pH	6.5	9	6 46 H	N/A	7 69	N/A
TSS	TSS	30	45	< 2 4	N/A	< 2 4	N/A
Ammonia Nitrogen	7664-41-7	monitor	monitor	1 2	N/A	3	N/A
Oil & Grease (total)	O&G	10	10	< 5	N/A	< 5	N/A
Pesticides (ug/L)							
p,p-DDD	72-54-8	---	---	< 0 02	N/A	< 0 02	N/A
p,p-DDE	72-55-9	---	---	< 0 02	N/A	< 0 02	N/A
p,p-DDT	50-29-3	0.000227	monitor	< 0 02	N/A	< 0 02	N/A
Aldrin	309-00-2	0.000884	monitor	< 0 02	N/A	< 0 01	N/A
Alpha BHC	319-84-6	---	---	< 0 02	N/A	< 0 01	N/A
Alpha Chlordane	5103-71-9	---	---	< 0 02	N/A	< 0 02	N/A
Beta BHC	319-85-7	---	---	< 0 02	N/A	< 0 01	N/A
Delta BHC	319-86-8	---	---	< 0 02	N/A	< 0 01	N/A
Dieldrin	60-57-1	---	---	< 0 02	N/A	< 0 02	N/A
Endosulfan I	959-98-8	---	---	< 0 02	N/A	< 0 02	N/A
Endosulfan II	33213-65-9	---	---	< 0 02	N/A	< 0 02	N/A
Endosulfan Sulfate	1031-07-8	---	---	< 0 02	N/A	< 0 02	N/A
Endrin	72-20-8	---	---	< 0 02	N/A	< 0 02	N/A
Endrin Aldehyde	7421-93-4	---	---	< 0 02	N/A	< 0 02	N/A
Endrin Ketone	53494-70-5	---	---	< 0 02	N/A	< 0 02	N/A
Gamma BHC-Lindane	58-89-9	---	---	< 0 02	N/A	< 0 01	N/A
Gamma Chlordane	5103-74-2	---	---	< 0 02	N/A	< 0 02	N/A
Heptachlor	76-44-8	0 00331	monitor	< 0 02	N/A	< 0 01	N/A
Heptachlor Epoxide	1024-57-3	---	---	< 0 02	N/A	< 0 01	N/A
Methoxychlor	72-43-5	---	---	< 0 02	N/A	< 0 04	N/A
Toxaphene	8001-35-2	---	---	< 4	N/A	< 2	N/A
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0 2	N/A	< 0 2	N/A
PCB-1221	11104-28-2	---	---	< 0 2	N/A	< 0 2	N/A
PCB-1232	11141-16-5	---	---	< 0 2	N/A	< 0 2	N/A
PCB-1242	53469-21-9	---	---	< 0 2	N/A	< 0 2	N/A
PCB-1248	12672-29-6	---	---	< 0 2	N/A	< 0 2	N/A
PCB-1254	11097-69-1	---	---	< 0 2	N/A	< 0 2	N/A
PCB-1260	11096-82-5	---	---	< 0 2	N/A	< 0 2	N/A
TOTAL PCBs		0 000967	monitor	0	N/A	0	N/A

Attachment A

2016-17 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit		November-16	December-16	January-17	February-17
		Discharge Limits					
		30 Day Avg.	Daily Max.				
Semi-VOCs (ug/L)							
1,2,4-Trichlorobenzene	120-82-1	---	---	< 5	N/A	< 5	N/A
1,2-Dichlorobenzene	95-50-1	---	---	< 5	N/A	< 5	N/A
1,3-Dichlorobenzene	541-73-1	---	---	< 5	N/A	< 5	N/A
1,4-Dichlorobenzene	106-46-7	---	---	< 5	N/A	< 5	N/A
2,4,5-Trichlorophenol	95-95-4	---	---	< 5	N/A	< 5	N/A
2,4,6-Trichlorophenol	88-06-2	---	---	< 5	N/A	< 5	N/A
2,4-Dichlorophenol	120-83-2	---	---	< 5	N/A	< 5	N/A
2,4-Dimethylphenol	105-67-9	---	---	< 5	N/A	< 5	N/A
2,4-Dinitrophenol	51-28-5	---	---	< 5	N/A	< 5	N/A
2,4-Dinitrotoluene	121-14-2	---	---	< 5	N/A	< 5	N/A
2,6-Dinitrotoluene	606-20-2	---	---	< 5	N/A	< 5	N/A
2-Chloronaphthalene	91-58-7	---	---	< 5	N/A	< 5	N/A
2-Chlorophenol	95-57-8	---	---	< 5	N/A	< 5	N/A
2-Methylnaphthalene	91-57-6	---	---	< 5	N/A	< 5	N/A
2-Nitrophenol	88-75-5	---	---	< 5	N/A	< 5	N/A
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	N/A	< 5	N/A
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 5	N/A	< 5	N/A
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	N/A	< 5	N/A
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	N/A	< 5	N/A
4-Chloroaniline	106-47-8	---	---	< 5	N/A	< 5	N/A
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	N/A	< 5	N/A
4-Nitrophenol	100-02-7	---	---	< 5	N/A	< 5	N/A
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	N/A	< 5	N/A
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	N/A	< 5	N/A
Bis (2-chloroisopropyl)ether	108-60-1	---	---	< 5	N/A	< 5	N/A
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	N/A	< 5	N/A
Butylbenzylphthalate	85-68-7	---	---	< 5	N/A	< 5	N/A
Carbazole	86-74-8	---	---	< 5	N/A	< 5	N/A
Dibenzofuran	132-64-9	---	---	< 5	N/A	< 5	N/A
Diethylphthalate	84-66-2	monitor	2600	N/A	N/A	< 5	N/A
Dimethylphthalate	131-11-3	monitor	monitor	< 5	N/A	< 5	N/A
di-n-butylphthalate	84-74-2	monitor	350	< 5	N/A	< 5	N/A
Di-n-octylphthalate	117-84-0	---	---	< 5	N/A	< 5	N/A
Hexachlorobenzene	118-74-1	---	---	< 5	N/A	< 5	N/A
Hexachlorobutadiene	87-68-3	---	---	< 5	N/A	< 5	N/A
Hexachlorocyclopentadiene	77-47-4	---	---	< 5	N/A	< 5	N/A
Hexachloroethane	67-72-1	---	---	< 5	N/A	< 5	N/A
Isophorone	78-59-1	---	---	< 5	N/A	< 5	N/A
m p-Phenol	106-44-5	monitor	140	< 5	N/A	< 5	N/A
Nitrobenzene	98-95-3	---	---	< 5	N/A	< 5	N/A
N-nitrosodiphenylamine	86-30-6	---	---	< 5	N/A	< 5	N/A
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	N/A	< 5	N/A
o-Cresol	95-48-7	---	---	< 5	N/A	< 5	N/A
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	N/A	< 5	N/A
Phenol	108-95-2	monitor	monitor	< 5	N/A	< 5	N/A
2-Nitroaniline	88-74-4	---	---	NA	NA	< 5	NA
3-Nitroaniline	99-09-2	---	---	NA	NA	< 5	NA
4-Nitroaniline	100-01-6	---	---	NA	NA	< 5	NA

**Attachment A 2016-17 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		November-16 11/28/2016	December-16 12/1/2016	January-17 1/25/2017	February-17 2/1/2017
		Discharge Limits					
		30 Day Avg	Daily Max				
PAHs (ug/L)							
Acenaphthene	83-32-9	monitor	67	< 5	N/A	< 5	N/A
Acenaphthylene	208-96-8	---	---	< 5	N/A	< 5	N/A
Anthracene	120-12-7	---	---	< 5	N/A	< 5	N/A
Benzo (a) anthracene	56-55-3	---	---	< 5	N/A	< 5	N/A
Benzo (a) pyrene	50-32-8	---	---	< 5	N/A	< 5	N/A
Benzo (b) flouranthene	205-99-2	---	---	< 5	N/A	< 5	N/A
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	N/A	< 5	N/A
Benzo (k) flouranthene	207-08-9	---	---	< 5	N/A	< 5	N/A
Chrysene	218-01-9	---	---	< 5	N/A	< 5	N/A
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	N/A	< 5	N/A
Fluoranthene	206-44-0	66	200	< 5	N/A	< 5	N/A
Fluorene	86-73-7	---	---	< 5	N/A	< 5	N/A
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	N/A	< 5	N/A
Naphthalene	91-20-3	monitor	160	< 5	N/A	< 5	N/A
Phenanthrene	85-01-8	---	---	< 5	N/A	< 5	N/A
Pyrene	129-00-0	---	---	< 5	N/A	< 5	N/A
Total PAHs		0 376	monitor	0	N/A	0	N/A
VOCs (ug/L)							
1,1,1-Trichloroethane	71-55-6	---	---	< 1	N/A	< 1	N/A
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	N/A	< 1	N/A
1,1 2-Trichloroethane	79-00-5	---	---	< 1	N/A	< 1	N/A
1,1-Dichloroethane	75-34-3	---	---	< 1	N/A	< 1	N/A
1,1-Dichloroethene	75-35-4	---	---	< 1	N/A	< 1	N/A
1,2-Dichloroethane	107-06-2	180	574	< 1	N/A	< 1	N/A
1,2-Dichloropropane	78-87-5	---	---	< 1	N/A	< 1	N/A
2-Butanone	78-93-3	---	---	< 5	N/A	< 5	N/A
2-Hexanone	591-78-6	---	---	< 5	N/A	< 5	N/A
4-Methyl-2-pentanone	108-10-1	---	---	< 5	N/A	< 1	N/A
Acetone (total)	67-64-1	monitor	550	< 10	N/A	1.2 J	N/A
Benzene	71-43-2	57	134	< 1	N/A	< 1	N/A
Bromodichloromethane	75-27-4	---	---	< 1	N/A	< 1	N/A
Bromoform	75-25-2	---	---	< 1	N/A	< 1	N/A
Bromomethane	74-83-9	---	---	< 1	N/A	< 1	N/A
Carbon Disulfide	75-15-0	---	---	< 1	N/A	< 1	N/A
Carbon Tetrachloride	56-23-5	---	---	< 1	N/A	< 1	N/A
Chlorobenzene	108-90-7	---	---	< 1	N/A	< 1	N/A
Chloroethane	75-00-3	---	---	< 1	N/A	< 1	N/A
Chloroform	67-66-3	---	---	< 1	N/A	< 1	N/A
Chloromethane	74-87-3	---	---	< 1	N/A	< 1	N/A
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	N/A	< 1	N/A
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	N/A	< 1	N/A
Dibromochloromethane	124-48-1	---	---	< 1	N/A	< 1	N/A
Ethylbenzene	100-41-4	142	380	< 1	N/A	< 1	N/A
Methylene Chloride	75-09-2	---	---	< 5	N/A	< 5	N/A
Styrene	100-42-5	monitor	1300	< 1	N/A	< 1	N/A
Tetrachloroethene	127-18-4	52	164	< 1	N/A	< 1	N/A
Toluene	108-88-3	28	74	< 1	N/A	< 1	N/A
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	N/A	< 1	N/A
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	N/A	< 1	N/A
Trichloroethene	79-01-6	---	---	< 1	N/A	< 1	N/A
Vinyl Chloride	75-01-4	---	---	< 1	N/A	< 1	N/A
Total Xylene	1330-20-7	---	---	< 3	N/A	< 3	N/A

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

J - Analyte is present at an estimated concentration between the MDL and Report Limit

H - Analyzed outside of Holding Time

X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

**Attachment A 2016-17 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit Discharge Limits		September-16	October-16	November-16	December-16	January-17
		30 Day Avg	Daily Max	9/22/2016	10/1/2016	11/28/2016	12/1/2016	1/25/2017
Metals (mg/L)								
Mercury	7439-97-6	0.00013	0.0011	< 0.0002	N/A	< 0.0002	N/A	0.000033 J
Antimony	7440-36-0	monitor	monitor	0.0003 J	N/A	< 0.005	N/A	< 0.005
Arsenic	7440-38-2	0.122	0.36	0.001 J	N/A	< 0.005	N/A	0.00088 J
Beryllium	7440-41-7	0.00142	1	< 0.002	N/A	< 0.002	N/A	< 0.002
Cadmium	7440-43-9	monitor	0.0089	0.00007 J	N/A	< 0.0002	N/A	< 0.0002
Chromium	7440-47-3	0.119	2.6	< 0.005	N/A	< 0.005	N/A	0.00075 J
Copper	7440-50-8	monitor	0.027	0.024	N/A	0.0082	N/A	0.0072
Lead	7439-92-1	0.121	0.23	0.0031 J	N/A	< 0.005	N/A	< 0.005
Nickel	7440-02-0	0.24	2.3	0.013	N/A	0.0073	N/A	0.005
Silver	7440-22-4	monitor	0.0034	0.0021 J	N/A	< 0.005	N/A	< 0.005
Zinc	7440-66-6	monitor	0.17	0.096	N/A	0.12	N/A	0.031
Cyanide (free)	57-12-5	monitor	0.046	< 0.005	N/A	< 0.005	N/A	< 0.005
Conventional (mg/L)								
BOD	BOD	monitor	monitor	7.8	N/A	< 2	N/A	< 2
pH (Min and Max) (S U)	pH	6.5	9	6.78 H	N/A	6.46 H	N/A	7.69
TSS	TSS	30	45	< 3	N/A	< 2.4	N/A	< 2.4
Ammonia Nitrogen	7664-41-7	monitor	monitor	3.3	N/A	1.2	N/A	3
Oil & Grease (total)	O&G	10	10	< 5	N/A	< 5	N/A	< 5
Pesticides (ug/L)								
p,p-DDD	72-54-8	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
p,p-DDE	72-55-9	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
p,p-DDT	50-29-3	0.000227	monitor	< 0.02	N/A	< 0.02	N/A	< 0.02
Aldrin	309-00-2	0.000884	monitor	< 0.02	N/A	< 0.02	N/A	< 0.01
Alpha BHC	319-84-6	---	---	< 0.02	N/A	< 0.02	N/A	< 0.01
Alpha Chlordane	5103-71-9	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Beta BHC	319-85-7	---	---	< 0.02	N/A	< 0.02	N/A	< 0.01
Delta BHC	319-86-8	---	---	< 0.02	N/A	< 0.02	N/A	< 0.01
Dieldrin	60-57-1	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Endosulfan I	959-98-8	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Endosulfan II	33213-65-9	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Endosulfan Sulfate	1031-07-8	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Endrin	72-20-8	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Endrin Aldehyde	7421-93-4	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Endrin Ketone	53494-70-5	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Gamma BHC-Lindane	58-89-9	---	---	< 0.02	N/A	< 0.02	N/A	< 0.01
Gamma Chlordane	5103-74-2	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Heptachlor	76-44-8	0.00331	monitor	< 0.02	N/A	< 0.02	N/A	< 0.01
Heptachlor Epoxide	1024-57-3	---	---	< 0.02	N/A	< 0.02	N/A	< 0.01
Methoxychlor	72-43-5	---	---	< 0.02	N/A	< 0.02	N/A	< 0.04
Toxaphene	8001-35-2	---	---	< 4	N/A	< 4	N/A	< 2
PCBs (ug/L)								
PCB-1016	12674-11-2	---	---	< 0.2	N/A	< 0.2	N/A	< 0.2
PCB-1221	11104-28-2	---	---	< 0.2	N/A	< 0.2	N/A	< 0.2
PCB-1232	11141-16-5	---	---	< 0.2	N/A	< 0.2	N/A	< 0.2
PCB-1242	53469-21-9	---	---	< 0.2	N/A	< 0.2	N/A	< 0.2
PCB-1248	12672-29-6	---	---	< 0.2	N/A	< 0.2	N/A	< 0.2
PCB-1254	11097-69-1	---	---	< 0.2	N/A	< 0.2	N/A	< 0.2
PCB-1260	11096-82-5	---	---	< 0.2	N/A	< 0.2	N/A	< 0.2
TOTAL PCBs		0.000967	monitor	0	N/A	0	N/A	0

**Attachment A 2016-17 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		September-16	October-16	November-16	December-16	January-17
		30 Day Avg	Daily Max.	9/22/2016	10/1/2016	11/28/2016	12/1/2016	1/25/2017
Semi-VOCs (ug/L)								
1,2,4-Trichlorobenzene	120-82-1	---	---	< 5	N/A	< 5	N/A	< 5
1,2-Dichlorobenzene	95-50-1	---	---	< 5	N/A	< 5	N/A	< 5
1,3-Dichlorobenzene	541-73-1	---	---	< 5	N/A	< 5	N/A	< 5
1,4-Dichlorobenzene	106-46-7	---	---	< 5	N/A	< 5	N/A	< 5
2,4,5-Trichlorophenol	95-95-4	---	---	< 5	N/A	< 5	N/A	< 5
2,4,6-Trichlorophenol	88-06-2	---	---	< 5	N/A	< 5	N/A	< 5
2,4-Dichlorophenol	120-83-2	---	---	< 5	N/A	< 5	N/A	< 5
2,4-Dimethylphenol	105-67-9	---	---	< 5	N/A	< 5	N/A	< 5
2,4-Dinitrophenol	51-28-5	---	---	< 5	N/A	< 5	N/A	< 5
2,4-Dinitrotoluene	121-14-2	---	---	< 5	N/A	< 5	N/A	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 5	N/A	< 5	N/A	< 5
2-Chloronaphthalene	91-58-7	---	---	< 5	N/A	< 5	N/A	< 5
2-Chlorophenol	95-57-8	---	---	< 5	N/A	< 5	N/A	< 5
2-Methylnaphthalene	91-57-6	---	---	< 5	N/A	< 5	N/A	< 5
2-Nitrophenol	88-75-5	---	---	< 5	N/A	< 5	N/A	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	N/A	< 5	N/A	< 5
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 5	N/A	< 5	N/A	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	N/A	< 5	N/A	< 5
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	N/A	< 5	N/A	< 5
4-Chloroaniline	106-47-8	---	---	< 5	N/A	< 5	N/A	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	N/A	< 5	N/A	< 5
4-Nitrophenol	100-02-7	---	---	< 5	N/A	< 5	N/A	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	N/A	< 5	N/A	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	N/A	< 5	N/A	< 5
Bis (2-chloroisopropyl)ether	108-60-1	---	---	< 5	N/A	< 5	N/A	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	N/A	< 5	N/A	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	N/A	< 5	N/A	< 5
Carbazole	86-74-8	---	---	< 5	N/A	< 5	N/A	< 5
Dibenzofuran	132-64-9	---	---	< 5	N/A	< 5	N/A	< 5
Dimethylphthalate	131-11-3	monitor	monitor	< 5	N/A	< 5	N/A	< 5
di-n-butylphthalate	84-74-2	monitor	350	< 5	N/A	< 5	N/A	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	N/A	< 5	N/A	< 5
Hexachlorobenzene	118-74-1	---	---	< 5	N/A	< 5	N/A	< 5
Hexachlorobutadiene	87-68-3	---	---	< 5	N/A	< 5	N/A	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	< 5	N/A	< 5	N/A	< 5
Hexachloroethane	67-72-1	---	---	< 5	N/A	< 5	N/A	< 5
Isophorone	78-59-1	---	---	< 5	N/A	< 5	N/A	< 5
m p-Phenol	106-44-5	monitor	140	< 5	N/A	< 5	N/A	< 5
Nitrobenzene	98-95-3	---	---	< 5	N/A	< 5	N/A	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 5	N/A	< 5	N/A	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	N/A	< 5	N/A	< 5
o-Cresol	95-48-7	---	---	< 5	N/A	< 5	N/A	< 5
Pentachlorophenol (total)	87-86-5	monitor	3 5	< 5	N/A	< 5	N/A	< 5
Phenol	108-95-2	monitor	monitor	< 5	N/A	< 5	N/A	< 5

**Attachment A 2016-17 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		September-16 9/22/2016	October-16 10/1/2016	November-16 11/28/2016	December-16 12/1/2016	January-17 1/25/2017
		Discharge Limits						
		30 Day Avg	Daily Max.					
PAHs (ug/L)								
Acenaphthene	83-32-9	monitor	67	< 5	N/A	< 5	N/A	< 5
Acenaphthylene	208-96-8	---	---	< 5	N/A	< 5	N/A	< 5
Anthracene	120-12-7	---	---	< 5	N/A	< 5	N/A	< 5
Benzo (a) anthracene	56-55-3	---	---	< 5	N/A	< 5	N/A	< 5
Benzo (a) pyrene	50-32-8	---	---	< 5	N/A	< 5	N/A	< 5
Benzo (b) flouranthene	205-99-2	---	---	< 5	N/A	< 5	N/A	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	N/A	< 5	N/A	< 5
Benzo (k) flouranthene	207-08-9	---	---	< 5	N/A	< 5	N/A	< 5
Chrysene	218-01-9	---	---	< 5	N/A	< 5	N/A	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	N/A	< 5	N/A	< 5
Fluoranthene	206-44-0	66	200	< 5	N/A	< 5	N/A	< 5
Fluorene	86-73-7	---	---	< 5	N/A	< 5	N/A	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	N/A	< 5	N/A	< 5
Naphthalene	91-20-3	monitor	160	< 5	N/A	< 5	N/A	< 5
Phenanthrene	85-01-8	---	---	< 5	N/A	< 5	N/A	< 5
Pyrene	129-00-0	---	---	< 5	N/A	< 5	N/A	< 5
Total PAHs		0.376	monitor	0	N/A	0	N/A	0
VOCs (ug/L)								
1,1,1-Trichloroethane	71-55-6	---	---	< 1	N/A	< 1	N/A	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	N/A	< 1	N/A	< 1
1,1,2-Trichloroethane	79-00-5	---	---	< 1	N/A	< 1	N/A	< 1
1,1-Dichloroethane	75-34-3	---	---	< 1	N/A	< 1	N/A	< 1
1,1-Dichloroethene	75-35-4	---	---	< 1	N/A	< 1	N/A	< 1
1,2-Dichloroethane	107-06-2	180	574	< 1	N/A	< 1	N/A	< 1
1,2-Dichloropropane	78-87-5	---	---	< 1	N/A	< 1	N/A	< 1
2-Butanone	78-93-3	---	---	< 5	N/A	< 5	N/A	< 5
2-Hexanone	591-78-6	---	---	< 5	N/A	< 5	N/A	< 5
4-Methyl-2-pentanone	108-10-1	---	---	< 5	N/A	< 5	N/A	< 1
Acetone (total)	67-64-1	monitor	550	< 10	N/A	< 10	N/A	1.2 J
Benzene	71-43-2	57	134	< 1	N/A	< 1	N/A	< 1
Bromodichloromethane	75-27-4	---	---	< 1	N/A	< 1	N/A	< 1
Bromofom	75-25-2	---	---	< 1	N/A	< 1	N/A	< 1
Bromomethane	74-83-9	---	---	< 1	N/A	< 1	N/A	< 1
Carbon Disulfide	75-15-0	---	---	< 1	N/A	< 1	N/A	< 1
Carbon Tetrachloride	56-23-5	---	---	< 1	N/A	< 1	N/A	< 1
Chlorobenzene	108-90-7	---	---	< 1	N/A	< 1	N/A	< 1
Chloroethane	75-00-3	---	---	< 1	N/A	< 1	N/A	< 1
Chloroform	67-66-3	---	---	< 1	N/A	< 1	N/A	< 1
Chloromethane	74-87-3	---	---	< 1	N/A	< 1	N/A	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	N/A	< 1	N/A	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	N/A	< 1	N/A	< 1
Dibromochloromethane	124-48-1	---	---	< 1	N/A	< 1	N/A	< 1
Ethylbenzene	100-41-4	142	380	< 1	N/A	< 1	N/A	< 1
Methylene Chloride	75-09-2	---	---	< 5	N/A	< 5	N/A	< 5
Styrene	100-42-5	monitor	1300	< 1	N/A	< 1	N/A	< 1
Tetrachloroethene	127-18-4	52	164	< 1	N/A	< 1	N/A	< 1
Toluene	108-88-3	28	74	< 1	N/A	< 1	N/A	< 1
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	N/A	< 1	N/A	< 1
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	N/A	< 1	N/A	< 1
Trichloroethene	79-01-6	---	---	< 1	N/A	< 1	N/A	< 1
Vinyl Chloride	75-01-4	---	---	< 1	N/A	< 1	N/A	< 1
Total Xylene	1330-20-7	---	---	< 3	N/A	< 3	N/A	< 3

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed
 J - Analyte is present at an estimated concentration between the MDL and Report Limit
 H - Analyzed outside of Holding Time
 X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit Discharge Limits		August-16	September-16	October-16	November-16	December-16
		30 Day Avg.	Daily Max	8/3/2016	9/22/2016	10/1/2016	11/28/2016	12/1/2016
Metals (mg/L)								
Mercury	7439-97-6	0 000013	0.0011	< 0 0002	< 0 0002	N/A	< 0 0002	N/A
Antimony	7440-36-0	monitor	monitor	< 0 005	0 0003 J	N/A	< 0 005	N/A
Arsenic	7440-38-2	0.122	0.36	< 0 005	0 001 J	N/A	< 0 005	N/A
Beryllium	7440-41-7	0 00142	1	< 0 002	< 0 002	N/A	< 0 002	N/A
Cadmium	7440-43-9	monitor	0 0089	< 0 0002	0 00007 J	N/A	< 0 0002	N/A
Chromium	7440-47-3	0 119	2.6	< 0 005	< 0 005	N/A	< 0 005	N/A
Copper	7440-50-8	monitor	0 027	0 02	0 024	N/A	0 0082	N/A
Lead	7439-92-1	0 121	0.23	0 00052 J	0 0031 J	N/A	< 0 005	N/A
Nickel	7440-02-0	0 24	2.3	0 0095	0 013	N/A	0 0073	N/A
Silver	7440-22-4	monitor	0.0034	< 0 005	0 0021 J	N/A	< 0 005	N/A
Zinc	7440-66-6	monitor	0.17	0 11	0 096	N/A	0 12	N/A
Cyanide (free)	57-12-5	monitor	0 046	< 0 005	< 0 005	N/A	< 0 005	N/A
Conventionals (mg/L)								
BOD	BOD	monitor	monitor	< 2	7 8	N/A	< 2	N/A
pH (Min and Max) (S U)	pH	6.5	9	6 72 H	6 78 H	N/A	6 46 H	N/A
TSS	TSS	30	45	< 3	< 3	N/A	< 2 4	N/A
Ammonia Nitrogen	7664-41-7	monitor	monitor	3	3 3	N/A	1 2	N/A
Oil & Grease (total)	O&G	10	10	< 5	< 5	N/A	< 5	N/A
Pesticides (ug/L)								
p,p-DDD	72-54-8	---	---	< 0 02	< 0 02	N/A	< 0 02	N/A
p,p-DDE	72-55-9	---	---	< 0 02	< 0 02	N/A	< 0 02	N/A
p,p-DDT	50-29-3	0 000227	monitor	< 0 02	< 0 02	N/A	< 0 02	N/A
Aldnn	309-00-2	0 000884	monitor	< 0 02	< 0 02	N/A	< 0 02	N/A
Alpha BHC	319-84-6	---	---	< 0 02	< 0 02	N/A	< 0 02	N/A
Alpha Chlordane	5103-71-9	---	---	< 0 02	< 0 02	N/A	< 0 02	N/A
Beta BHC	319-85-7	---	---	< 0 02	< 0 02	N/A	< 0 02	N/A
Delta BHC	319-86-8	---	---	< 0 02	< 0 02	N/A	< 0 02	N/A
Dieldrn	60-57-1	---	---	< 0 02	< 0 02	N/A	< 0 02	N/A
Endosulfan I	959-98-8	---	---	< 0 02	< 0 02	N/A	< 0 02	N/A
Endosulfan II	33213-65-9	---	---	< 0 02	< 0 02	N/A	< 0 02	N/A
Endosulfan Sulfate	1031-07-8	---	---	< 0 02	< 0 02	N/A	< 0 02	N/A
Endnn	72-20-8	---	---	< 0 02	< 0 02	N/A	< 0 02	N/A
Endnn Aldehyde	7421-93-4	---	---	< 0 02	< 0 02	N/A	< 0 02	N/A
Endnn Ketone	53494-70-5	---	---	< 0 02	< 0 02	N/A	< 0 02	N/A
Gamma BHC-Lindane	58-89-9	---	---	< 0 02	< 0 02	N/A	< 0 02	N/A
Gamma Chlordane	5103-74-2	---	---	< 0 02	< 0 02	N/A	< 0 02	N/A
Heptachlor	76-44-8	0 00331	monitor	< 0 02	< 0 02	N/A	< 0 02	N/A
Heptachlor Epoxide	1024-57-3	---	---	< 0 02	< 0 02	N/A	< 0 02	N/A
Methoxychlor	72-43-5	---	---	< 0 02	< 0 02	N/A	< 0 02	N/A
Toxaphene	8001-35-2	---	---	< 4	< 4	N/A	< 4	N/A
PCBs (ug/L)								
PCB-1016	12674-11-2	---	---	< 0 2	< 0 2	N/A	< 0 2	N/A
PCB-1221	11104-28-2	---	---	< 0 2	< 0 2	N/A	< 0 2	N/A
PCB-1232	11141-16-5	---	---	< 0 2	< 0 2	N/A	< 0 2	N/A
PCB-1242	53469-21-9	---	---	< 0 2	< 0 2	N/A	< 0 2	N/A
PCB-1248	12672-29-6	---	---	< 0 2	< 0 2	N/A	< 0 2	N/A
PCB-1254	11097-69-1	---	---	< 0 2	< 0 2	N/A	< 0 2	N/A
PCB-1260	11096-82-5	---	---	< 0 2	< 0 2	N/A	< 0 2	N/A
TOTAL PCBs		0 000967	monitor	0	0	N/A	0	N/A

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit Discharge Limits		August-16	September-16	October-16	November-16	December-16
		30 Day Avg.	Daily Max.	8/3/2016	9/22/2016	10/1/2016	11/28/2016	12/1/2016
Semi-VOCs (ug/L)								
1,2,4-Trichlorobenzene	120-82-1	---	---	< 5	< 5	N/A	< 5	N/A
1,2-Dichlorobenzene	95-50-1	---	---	< 5	< 5	N/A	< 5	N/A
1,3-Dichlorobenzene	541-73-1	---	---	< 5	< 5	N/A	< 5	N/A
1,4-Dichlorobenzene	106-46-7	---	---	< 5	< 5	N/A	< 5	N/A
2,4,5-Trichlorophenol	95-95-4	---	---	< 5	< 5	N/A	< 5	N/A
2,4,6-Trichlorophenol	88-06-2	---	---	< 5	< 5	N/A	< 5	N/A
2,4-Dichlorophenol	120-83-2	---	---	< 5	< 5	N/A	< 5	N/A
2,4-Dimethylphenol	105-67-9	---	---	< 5	< 5	N/A	< 5	N/A
2,4-Dinitrophenol	51-28-5	---	---	< 5	< 5	N/A	< 5	N/A
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5	N/A	< 5	N/A
2,6-Dinitrotoluene	606-20-2	---	---	< 5	< 5	N/A	< 5	N/A
2-Chloronaphthalene	91-58-7	---	---	< 5	< 5	N/A	< 5	N/A
2-Chlorophenol	95-57-8	---	---	< 5	< 5	N/A	< 5	N/A
2-Methylnaphthalene	91-57-6	---	---	< 5	< 5	N/A	< 5	N/A
2-Nitrophenol	88-75-5	---	---	< 5	< 5	N/A	< 5	N/A
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	< 5	N/A	< 5	N/A
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 5	< 5	N/A	< 5	N/A
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	< 5	N/A	< 5	N/A
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	< 5	N/A	< 5	N/A
4-Chloroaniline	106-47-8	---	---	< 5	< 5	N/A	< 5	N/A
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	< 5	N/A	< 5	N/A
4-Nitrophenol	100-02-7	---	---	< 5	< 5	N/A	< 5	N/A
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	< 5	N/A	< 5	N/A
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	< 5	N/A	< 5	N/A
Bis (2-chloroisopropyl)ether	108-60-1	---	---	< 5	< 5	N/A	< 5	N/A
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5	N/A	< 5	N/A
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5	N/A	< 5	N/A
Carbazole	86-74-8	---	---	< 5	< 5	N/A	< 5	N/A
Dibenzofuran	132-64-9	---	---	< 5	< 5	N/A	< 5	N/A
Dimethylphthalate	131-11-3	monitor	monitor	< 5	< 5	N/A	< 5	N/A
di-n-butylphthalate	84-74-2	monitor	350	< 5	< 5	N/A	< 5	N/A
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5	N/A	< 5	N/A
Hexachlorobenzene	118-74-1	---	---	< 5	< 5	N/A	< 5	N/A
Hexachlorobutadiene	87-68-3	---	---	< 5	< 5	N/A	< 5	N/A
Hexachlorocyclopentadiene	77-47-4	---	---	< 5	< 5	N/A	< 5	N/A
Hexachloroethane	67-72-1	---	---	< 5	< 5	N/A	< 5	N/A
Isophorone	78-59-1	---	---	< 5	< 5	N/A	< 5	N/A
m p-Phenol	106-44-5	monitor	140	< 5	< 5	N/A	< 5	N/A
Nitrobenzene	98-95-3	---	---	< 5	< 5	N/A	< 5	N/A
N-nitrosodiphenylamine	86-30-6	---	---	< 5	< 5	N/A	< 5	N/A
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	< 5	N/A	< 5	N/A
o-Cresol	95-48-7	---	---	< 5	< 5	N/A	< 5	N/A
Pentachlorophenol (total)	87-86-5	monitor	3 5	< 5	< 5	N/A	< 5	N/A
Phenol	108-95-2	monitor	monitor	< 5	< 5	N/A	< 5	N/A

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		August-16	September-16	October-16	November-16	December-16
		Discharge Limits		8/3/2016	9/22/2016	10/1/2016	11/28/2016	12/1/2016
		30 Day Avg	Daily Max.					
PAHs (ug/L)								
Acenaphthene	83-32-9	monitor	67	< 5	< 5	N/A	< 5	N/A
Acenaphthylene	208-96-8	---	---	< 5	< 5	N/A	< 5	N/A
Anthracene	120-12-7	---	---	< 5	< 5	N/A	< 5	N/A
Benzo (a) anthracene	56-55-3	---	---	< 5	< 5	N/A	< 5	N/A
Benzo (a) pyrene	50-32-8	---	---	< 5	< 5	N/A	< 5	N/A
Benzo (b) flouranthene	205-99-2	---	---	< 5	< 5	N/A	< 5	N/A
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	< 5	N/A	< 5	N/A
Benzo (k) flouranthene	207-08-9	---	---	< 5	< 5	N/A	< 5	N/A
Chrysene	218-01-9	---	---	< 5	< 5	N/A	< 5	N/A
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	< 5	N/A	< 5	N/A
Fluoranthene	206-44-0	66	200	< 5	< 5	N/A	< 5	N/A
Fluorene	86-73-7	---	---	< 5	< 5	N/A	< 5	N/A
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	< 5	N/A	< 5	N/A
Naphthalene	91-20-3	monitor	160	< 5	< 5	N/A	< 5	N/A
Phenanthrene	85-01-8	---	---	< 5	< 5	N/A	< 5	N/A
Pyrene	129-00-0	---	---	< 5	< 5	N/A	< 5	N/A
Total PAHs		0 376	monitor	0	0	N/A	0	N/A
VOCs (ug/L)								
1,1,1-Trichloroethane	71-55-6	---	---	< 1	< 1	N/A	< 1	N/A
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	< 1	N/A	< 1	N/A
1,1,2-Trichloroethane	79-00-5	---	---	< 1	< 1	N/A	< 1	N/A
1,1-Dichloroethane	75-34-3	---	---	< 1	< 1	N/A	< 1	N/A
1,1-Dichloroethene	75-35-4	---	---	< 1	< 1	N/A	< 1	N/A
1,2-Dichloroethane	107-06-2	180	574	< 1	< 1	N/A	< 1	N/A
1,2-Dichloropropane	78-87-5	---	---	< 1	< 1	N/A	< 1	N/A
2-Butanone	78-93-3	---	---	< 5	< 5	N/A	< 5	N/A
2-Hexanone	591-78-6	---	---	< 5	< 5	N/A	< 5	N/A
4-Methyl-2-pentanone	108-10-1	---	---	< 5	< 5	N/A	< 5	N/A
Acetone (total)	67-64-1	monitor	550	< 10	< 10	N/A	< 10	N/A
Benzene	71-43-2	57	134	< 1	< 1	N/A	< 1	N/A
Bromodichloromethane	75-27-4	---	---	< 1	< 1	N/A	< 1	N/A
Bromoform	75-25-2	---	---	< 1	< 1	N/A	< 1	N/A
Bromomethane	74-83-9	---	---	< 1	< 1	N/A	< 1	N/A
Carbon Disulfide	75-15-0	---	---	< 1	< 1	N/A	< 1	N/A
Carbon Tetrachloride	56-23-5	---	---	< 1	< 1	N/A	< 1	N/A
Chlorobenzene	108-90-7	---	---	< 1	< 1	N/A	< 1	N/A
Chloroethane	75-00-3	---	---	< 1	< 1	N/A	< 1	N/A
Chloroform	67-66-3	---	---	< 1	< 1	N/A	< 1	N/A
Chloromethane	74-87-3	---	---	< 1	< 1	N/A	< 1	N/A
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	< 1	N/A	< 1	N/A
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	< 1	N/A	< 1	N/A
Dibromochloromethane	124-48-1	---	---	< 1	< 1	N/A	< 1	N/A
Ethylbenzene	100-41-4	142	380	< 1	< 1	N/A	< 1	N/A
Methylene Chloride	75-09-2	---	---	< 5	< 5	N/A	< 5	N/A
Styrene	100-42-5	monitor	1300	< 1	< 1	N/A	< 1	N/A
Tetrachloroethene	127-18-4	52	164	< 1	< 1	N/A	< 1	N/A
Toluene	108-88-3	28	74	< 1	< 1	N/A	< 1	N/A
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	< 1	N/A	< 1	N/A
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	< 1	N/A	< 1	N/A
Trichloroethene	79-01-6	---	---	< 1	< 1	N/A	< 1	N/A
Vinyl Chloride	75-01-4	---	---	< 1	< 1	N/A	< 1	N/A
Total Xylene	1330-20-7	---	---	< 3	< 3	N/A	< 3	N/A

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

J - Analyte is present at an estimated concentration between the MDL and Report Limit

H - Analyzed outside of Holding Time

X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		July-16	August-16	September-16	October-16	November-16
		Discharge Limits						
		30 Day Avg	Daily Max.					
		7/1/2016	8/3/2016	9/22/2016	10/1/2016	11/28/2016		
Metals (mg/L)								
Mercury	7439-97-6	0 000013	0 0011	N/A	< 0 0002	< 0 0002	N/A	< 0 0002
Antimony	7440-36-0	monitor	monitor	N/A	< 0 005	0 0003 J	N/A	< 0 005
Chromium	7440-47-3	0.119	2 6	N/A	< 0 005	< 0 005	N/A	< 0 005
Copper	7440-50-8	monitor	0 027	N/A	0 02	0 024	N/A	0 0082
Lead	7439-92-1	0.121	0 23	N/A	0 00052 J	0 0031 J	N/A	< 0 005
Nickel	7440-02-0	0.24	2 3	N/A	0 0095	0 013	N/A	0 0073
Zinc	7440-66-6	monitor	0 17	N/A	0 11	0 096	N/A	0 12
Arsenic	7440-38-2	0 122	0 36	N/A	< 0 005	0 001 J	N/A	< 0 005
Beryllium	7440-41-7	0 00142	1	N/A	< 0 002	< 0 002	N/A	< 0 002
Cadmium	7440-43-9	monitor	0 0089	N/A	< 0 0002	0 00007 J	N/A	< 0 0002
Silver	7440-22-4	monitor	0 0034	N/A	< 0 005	0 0021 J	N/A	< 0 005
Cyanide (free)	57-12-5	monitor	0.046	N/A	< 0 005	< 0 005	N/A	< 0 005
Conventional (mg/L)								
pH (Min and Max) (S U)	pH	6 5	9	N/A	6 72 H	6 78 H	N/A	6 46 H
TSS	TSS	30	45	N/A	< 3	< 3	N/A	< 2 4
Ammonia Nitrogen	7664-41-7	monitor	monitor	N/A	3	3 3	N/A	1 2
Oil & Grease (total)	O&G	10	10	N/A	< 5	< 5	N/A	< 5
BOD	BOD	monitor	monitor	N/A	< 2	7 8	N/A	< 2
Pesticides (ug/L)								
Endrin Ketone	53494-70-5	---	---	N/A	< 0 02	< 0 02	N/A	< 0 02
Alpha Chlordane	5103-71-9	---	---	N/A	< 0 02	< 0 02	N/A	< 0 02
Gamma Chlordane	5103-74-2	---	---	N/A	< 0 02	< 0 02	N/A	< 0 02
Alpha BHC	319-84-6	---	---	N/A	< 0 02	< 0 02	N/A	< 0 02
Beta BHC	319-85-7	---	---	N/A	< 0 02	< 0 02	N/A	< 0 02
Gamma BHC-Lindane	58-89-9	---	---	N/A	< 0 02	< 0 02	N/A	< 0 02
Delta BHC	319-86-8	---	---	N/A	< 0 02	< 0 02	N/A	< 0 02
Heptachlor	76-44-8	0 00331	monitor	N/A	< 0 02	< 0 02	N/A	< 0 02
Aldrin	309-00-2	0 000884	monitor	N/A	< 0 02	< 0 02	N/A	< 0 02
Heptachlor Epoxide	1024-57-3	---	---	N/A	< 0 02	< 0 02	N/A	< 0 02
p,p-DDE	72-55-9	---	---	N/A	< 0 02	< 0 02	N/A	< 0 02
p,p-DDD	72-54-8	---	---	N/A	< 0 02	< 0 02	N/A	< 0 02
p,p-DDT	50-29-3	0 000227	monitor	N/A	< 0 02	< 0 02	N/A	< 0 02
Dieldrin	60-57-1	---	---	N/A	< 0 02	< 0 02	N/A	< 0 02
Endrin	72-20-8	---	---	N/A	< 0 02	< 0 02	N/A	< 0 02
Toxaphene	8001-35-2	---	---	N/A	< 4	< 4	N/A	< 4
Endosulfan II	33213-65-9	---	---	N/A	< 0 02	< 0 02	N/A	< 0 02
Endosulfan I	959-98-8	---	---	N/A	< 0 02	< 0 02	N/A	< 0 02
Endosulfan Sulfate	1031-07-8	---	---	N/A	< 0 02	< 0 02	N/A	< 0 02
Endrin Aldehyde	7421-93-4	---	---	N/A	< 0 02	< 0 02	N/A	< 0 02
Methoxychlor	72-43-5	---	---	N/A	< 0 02	< 0 02	N/A	< 0 02
PCBs (ug/L)								
PCB-1016	12674-11-2	---	---	N/A	< 0 2	< 0 2	N/A	< 0 2
PCB-1221	11104-28-2	---	---	N/A	< 0 2	< 0 2	N/A	< 0 2
PCB-1232	11141-16-5	---	---	N/A	< 0 2	< 0 2	N/A	< 0 2
PCB-1242	53469-21-9	---	---	N/A	< 0 2	< 0 2	N/A	< 0 2
PCB-1248	12672-29-6	---	---	N/A	< 0 2	< 0 2	N/A	< 0 2
PCB-1254	11097-69-1	---	---	N/A	< 0 2	< 0 2	N/A	< 0 2
PCB-1260	11096-82-5	---	---	N/A	< 0 2	< 0 2	N/A	< 0 2
TOTAL PCBs		0.000967	monitor	N/A	0	0	N/A	0

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		July-16 7/1/2016	August-16 8/3/2016	September-16 9/22/2016	October-16 10/1/2016	November-16 11/28/2016
		Discharge Limits						
		30 Day Avg	Daily Max.					
Semi-VOCs (ug/L)								
4-Chloroaniline	106-47-8	---	---	N/A	< 5	< 5	N/A	< 5
2-Methylnaphthalene	91-57-6	---	---	N/A	< 5	< 5	N/A	< 5
2-Nitroaniline	88-74-4	---	---	N/A	< 5	< 5	N/A	< 5
2,4,5-Trichlorophenol	95-95-4	---	---	N/A	< 5	< 5	N/A	< 5
2-Chlorophenol	95-57-8	---	---	N/A	< 5	< 5	N/A	< 5
Phenol	108-95-2	monitor	monitor	N/A	< 5	< 5	N/A	< 5
2-Nitrophenol	88-75-5	---	---	N/A	< 5	< 5	N/A	< 5
2,4-Dimethylphenol	105-67-9	---	---	N/A	< 5	< 5	N/A	< 5
2,4-Dichlorophenol	120-83-2	---	---	N/A	< 5	< 5	N/A	< 5
4-Chloro-3-methylphenol	59-50-7	---	---	N/A	< 5	< 5	N/A	< 5
2,4,6-Trichlorophenol	88-06-2	---	---	N/A	< 5	< 5	N/A	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	N/A	< 5	< 5	N/A	< 5
1,3-Dichlorobenzene	541-73-1	---	---	N/A	< 5	< 5	N/A	< 5
1,4-Dichlorobenzene	106-46-7	---	---	N/A	< 5	< 5	N/A	< 5
1,2-Dichlorobenzene	95-50-1	---	---	N/A	< 5	< 5	N/A	< 5
Hexachloroethane	67-72-1	---	---	N/A	< 5	< 5	N/A	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	N/A	< 5	< 5	N/A	< 5
Nitrobenzene	98-95-3	---	---	N/A	< 5	< 5	N/A	< 5
Isophorone	78-59-1	---	---	N/A	< 5	< 5	N/A	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	N/A	< 5	< 5	N/A	< 5
1,2,4-Trichlorobenzene	120-82-1	---	---	N/A	< 5	< 5	N/A	< 5
Hexachlorobutadiene	87-68-3	---	---	N/A	< 5	< 5	N/A	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	N/A	< 5	< 5	N/A	< 5
2-Chloronaphthalene	91-58-7	---	---	N/A	< 5	< 5	N/A	< 5
Dimethylphthalate	131-11-3	monitor	monitor	N/A	< 5	< 5	N/A	< 5
2-methylphenol	95-48-7	---	---	N/A	< 5	< 5	N/A	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	N/A	< 5	< 5	N/A	< 5
4-methylphenol (total)	106-44-5	monitor	140	N/A	< 5	< 5	N/A	< 5
Dibenzofuran	132-64-9	---	---	N/A	< 5	< 5	N/A	< 5
3-Nitroaniline	99-09-2	---	---	N/A	< 5	< 5	N/A	< 5
4-Nitroaniline	100-01-6	---	---	N/A	< 5	< 5	N/A	< 5
2,4-Dinitrophenol	51-28-5	---	---	N/A	< 5	< 5	N/A	< 5
4-Nitrophenol	100-02-7	---	---	N/A	< 5	< 5	N/A	< 5
4,6-Dinitro-2-methylphenol	534-52-1	---	---	N/A	< 5	< 5	N/A	< 5
Pentachlorophenol (total)	87-86-5	monitor	3.5	N/A	< 5	< 5	N/A	< 5
2,6-Dinitrotoluene	606-20-2	---	---	N/A	< 5	< 5	N/A	< 5
2,4-Dinitrotoluene	121-14-2	---	---	N/A	< 5	< 5	N/A	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	N/A	< 5	< 5	N/A	< 5
Diethylphthalate	84-66-2	monitor	2600	N/A	< 5	< 5	N/A	< 5
N-nitrosodiphenylamine	86-30-6	---	---	N/A	< 5	< 5	N/A	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	N/A	< 5	< 5	N/A	< 5
Hexachlorobenzene	118-74-1	---	---	N/A	< 5	< 5	N/A	< 5
di-n-butylphthalate	84-74-2	monitor	350	N/A	< 5	< 5	N/A	< 5
Butylbenzylphthalate	85-68-7	---	---	N/A	< 5	< 5	N/A	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	N/A	< 5	< 5	N/A	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	N/A	< 5	< 5	N/A	< 5
Di-n-octylphthalate	117-84-0	---	---	N/A	< 5	< 5	N/A	< 5
Carbazole	86-74-8	---	---	N/A	< 5	< 5	N/A	< 5

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Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		July-16 7/1/2016	August-16 8/3/2016	September-16 9/22/2016	October-16 10/1/2016	November-16 11/28/2016
		Discharge Limits						
		30 Day Avg.	Daily Max					
PAHs (ug/L)								
Naphthalene	91-20-3	monitor	160	N/A	< 5	< 5	N/A	< 5
Acenaphthylene	208-96-8	---	---	N/A	< 5	< 5	N/A	< 5
Anthracene	120-12-7	---	---	N/A	< 5	< 5	N/A	< 5
Fluorene	86-73-7	---	---	N/A	< 5	< 5	N/A	< 5
Phenanthrene	85-01-8	---	---	N/A	< 5	< 5	N/A	< 5
Acenaphthene	83-32-9	monitor	67	N/A	< 5	< 5	N/A	< 5
Benzo (a) pyrene	50-32-8	---	---	N/A	< 5	< 5	N/A	< 5
Chrysene	218-01-9	---	---	N/A	< 5	< 5	N/A	< 5
Fluoranthene	206-44-0	66	200	N/A	< 5	< 5	N/A	< 5
Pyrene	129-00-0	---	---	N/A	< 5	< 5	N/A	< 5
Benzo (a) anthracene	56-55-3	---	---	N/A	< 5	< 5	N/A	< 5
Benzo (k) flouranthene	207-08-9	---	---	N/A	< 5	< 5	N/A	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	N/A	< 5	< 5	N/A	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	N/A	< 5	< 5	N/A	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	N/A	< 5	< 5	N/A	< 5
Benzo (b) flouranthene	205-99-2	---	---	N/A	< 5	< 5	N/A	< 5
Total PAHs		0.376	monitor	N/A	0	0	N/A	0
VOCs (ug/L)								
Chloromethane	74-87-3	---	---	N/A	< 1	< 1	N/A	< 1
Vinyl Chloride	75-01-4	---	---	N/A	< 1	< 1	N/A	< 1
Bromomethane	74-83-9	---	---	N/A	< 1	< 1	N/A	< 1
Chloroethane	75-00-3	---	---	N/A	< 1	< 1	N/A	< 1
1,1-Dichloroethene	75-35-4	---	---	N/A	< 1	< 1	N/A	< 1
Methylene Chloride	75-09-2	---	---	N/A	< 5	< 5	N/A	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	N/A	< 1	< 1	N/A	< 1
1,1-Dichloroethane	75-34-3	---	---	N/A	< 1	< 1	N/A	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	N/A	< 1	< 1	N/A	< 1
Chloroform	67-66-3	---	---	N/A	< 1	< 1	N/A	< 1
1,1,1-Trichloroethane	71-55-6	---	---	N/A	< 1	< 1	N/A	< 1
Carbon Tetrachloride	56-23-5	---	---	N/A	< 1	< 1	N/A	< 1
Benzene	71-43-2	57	134	N/A	< 1	< 1	N/A	< 1
1,2-Dichloroethane	107-06-2	180	574	N/A	< 1	< 1	N/A	< 1
Trichloroethene	79-01-6	---	---	N/A	< 1	< 1	N/A	< 1
1,2-Dichloropropane	78-87-5	---	---	N/A	< 1	< 1	N/A	< 1
Bromodichloromethane	75-27-4	---	---	N/A	< 1	< 1	N/A	< 1
Toluene	108-88-3	28	74	N/A	< 1	< 1	N/A	< 1
1,1,2-Trichloroethane	79-00-5	---	---	N/A	< 1	< 1	N/A	< 1
Tetrachloroethene	127-18-4	52	164	N/A	< 1	< 1	N/A	< 1
Dibromochloromethane	124-48-1	---	---	N/A	< 1	< 1	N/A	< 1
Chlorobenzene	108-90-7	---	---	N/A	< 1	< 1	N/A	< 1
Ethylbenzene	100-41-4	142	380	N/A	< 1	< 1	N/A	< 1
Styrene	100-42-5	monitor	1300	N/A	< 1	< 1	N/A	< 1
Bromoform	75-25-2	---	---	N/A	< 1	< 1	N/A	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	N/A	< 1	< 1	N/A	< 1
Acetone (total)	67-64-1	monitor	550	N/A	< 10	< 10	N/A	< 10
Carbon Disulfide	75-15-0	---	---	N/A	< 1	< 1	N/A	< 1
2-Butanone	78-93-3	---	---	N/A	< 5	< 5	N/A	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	N/A	< 1	< 1	N/A	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	N/A	< 1	< 1	N/A	< 1
4-Methyl-2-pentanone	108-10-1	---	---	N/A	< 5	< 5	N/A	< 5
2-Hexanone	591-78-6	---	---	N/A	< 5	< 5	N/A	< 5
Total Xylene	1330-20-7	---	---	N/A	< 3	< 3	N/A	< 3

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed
 J - Analyte is present at an estimated concentration between the MDL and Report Limit
 H - Analyzed outside of Holding Time
 X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		June-16 6/9/2016	July-16 7/1/2016	August-16 8/3/2016	September-16 9/22/2016	October-16 10/1/2016
		Discharge Limits						
		30 Day Avg	Daily Max.					
Metals (mg/L)								
Mercury	7439-97-6	0 000013	0.0011	< 0 0002	N/A	< 0 0002	< 0 0002	N/A
Antimony	7440-36-0	monitor	monitor	< 0 005	N/A	< 0 005	0 0003 J	N/A
Chromium	7440-47-3	0.119	2.6	0 0029 J	N/A	< 0 005	< 0 005	N/A
Copper	7440-50-8	monitor	0 027	0 014	N/A	0 02	0 024	N/A
Lead	7439-92-1	0 121	0 23	< 0 005	N/A	0 00052 J	0 0031 J	N/A
Nickel	7440-02-0	0 24	2 3	0 0074	N/A	0 0095	0 013	N/A
Zinc	7440-66-6	monitor	0 17	0 079	N/A	0 11	0 096	N/A
Arsenic	7440-38-2	0 122	0.36	< 0 005	N/A	< 0 005	0 001 J	N/A
Beryllium	7440-41-7	0 00142	1	< 0 002	N/A	< 0 002	< 0 002	N/A
Cadmium	7440-43-9	monitor	0 0089	< 0 0002	N/A	< 0 0002	0 00007 J	N/A
Silver	7440-22-4	monitor	0 0034	< 0 005	N/A	< 0 005	0 0021 J	N/A
Cyanide (free)	57-12-5	monitor	0 046	< 0 005	N/A	< 0 005	< 0 005	N/A
Conventionals (mg/L)								
pH (Min and Max) (S U)	pH	6 5	9	6 97 H	N/A	6 72 H	6 78 H	N/A
TSS	TSS	30	45	< 3	N/A	< 3	< 3	N/A
Ammonia Nitrogen	7664-41-7	monitor	monitor	3 3	N/A	3	3 3	N/A
Oil & Grease (total)	O&G	10	10	1 4 J	N/A	< 5	< 5	N/A
BOD	BOD	monitor	monitor	< 2	N/A	< 2	7 8	N/A
Pesticides (ug/L)								
Endrin Ketone	53494-70-5	---	---	< 0 02	N/A	< 0 02	< 0 02	N/A
Alpha Chlordane	5103-71-9	---	---	< 0 02	N/A	< 0 02	< 0 02	N/A
Gamma Chlordane	5103-74-2	---	---	< 0 02	N/A	< 0 02	< 0 02	N/A
Alpha BHC	319-84-6	---	---	< 0 02	N/A	< 0 02	< 0 02	N/A
Beta BHC	319-85-7	---	---	< 0 02	N/A	< 0 02	< 0 02	N/A
Gamma BHC-Lindane	58-89-9	---	---	< 0 02	N/A	< 0 02	< 0 02	N/A
Delta BHC	319-86-8	---	---	< 0 02	N/A	< 0 02	< 0 02	N/A
Heptachlor	76-44-8	0 00331	monitor	< 0 02	N/A	< 0 02	< 0 02	N/A
Aldrin	309-00-2	0.000884	monitor	< 0 02	N/A	< 0 02	< 0 02	N/A
Heptachlor Epoxide	1024-57-3	---	---	< 0 02	N/A	< 0 02	< 0 02	N/A
p,p-DDE	72-55-9	---	---	< 0 02	N/A	< 0 02	< 0 02	N/A
p,p-DDD	72-54-8	---	---	< 0 02	N/A	< 0 02	< 0 02	N/A
p,p-DDT	50-29-3	0 000227	monitor	< 0 02	N/A	< 0 02	< 0 02	N/A
Dieldrin	60-57-1	---	---	< 0 02	N/A	< 0 02	< 0 02	N/A
Endrin	72-20-8	---	---	< 0 02	N/A	< 0 02	< 0 02	N/A
Toxaphene	8001-35-2	---	---	< 4	N/A	< 4	< 4	N/A
Endosulfan II	33213-65-9	---	---	< 0 02	N/A	< 0 02	< 0 02	N/A
Endosulfan I	959-98-8	---	---	< 0 02	N/A	< 0 02	< 0 02	N/A
Endosulfan Sulfate	1031-07-8	---	---	< 0 02	N/A	< 0 02	< 0 02	N/A
Endrin Aldehyde	7421-93-4	---	---	< 0 02	N/A	< 0 02	< 0 02	N/A
Methoxychlor	72-43-5	---	---	< 0 02	N/A	< 0 02	< 0 02	N/A
PCBs (ug/L)								
PCB-1016	12674-11-2	---	---	< 0 2	N/A	< 0 2	< 0 2	N/A
PCB-1221	11104-28-2	---	---	< 0 2	N/A	< 0 2	< 0 2	N/A
PCB-1232	11141-16-5	---	---	< 0 2	N/A	< 0 2	< 0 2	N/A
PCB-1242	53469-21-9	---	---	< 0 2	N/A	< 0 2	< 0 2	N/A
PCB-1248	12672-29-6	---	---	< 0 2	N/A	< 0 2	< 0 2	N/A
PCB-1254	11097-69-1	---	---	< 0 2	N/A	< 0 2	< 0 2	N/A
PCB-1260	11096-82-5	---	---	< 0 2	N/A	< 0 2	< 0 2	N/A
TOTAL PCBs		0 000967	monitor	0	N/A	0	0	N/A

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		June-16	July-16	August-16	September-16	October-16
		Discharge Limits		6/9/2016	7/1/2016	8/3/2016	9/22/2016	10/1/2016
		30 Day Avg.	Daily Max.					
Semi-VOCs (ug/L)								
4-Chloroaniline	106-47-8	---	---	< 5	N/A	< 5	< 5	N/A
2-Methylnaphthalene	91-57-6	---	---	< 5	N/A	< 5	< 5	N/A
2-Nitroaniline	88-74-4	---	---	< 5	N/A	< 5	< 5	N/A
2,4,5-Trichlorophenol	95-95-4	---	---	< 5	N/A	< 5	< 5	N/A
2-Chlorophenol	95-57-8	---	---	< 5	N/A	< 5	< 5	N/A
Phenol	108-95-2	monitor	monitor	< 5	N/A	< 5	< 5	N/A
2-Nitrophenol	88-75-5	---	---	< 5	N/A	< 5	< 5	N/A
2,4-Dimethylphenol	105-67-9	---	---	< 5	N/A	< 5	< 5	N/A
2,4-Dichlorophenol	120-83-2	---	---	< 5	N/A	< 5	< 5	N/A
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	N/A	< 5	< 5	N/A
2,4,6-Trichlorophenol	88-06-2	---	---	< 5	N/A	< 5	< 5	N/A
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	N/A	< 5	< 5	N/A
1,3-Dichlorobenzene	541-73-1	---	---	< 5	N/A	< 5	< 5	N/A
1,4-Dichlorobenzene	106-46-7	---	---	< 5	N/A	< 5	< 5	N/A
1,2-Dichlorobenzene	95-50-1	---	---	< 5	N/A	< 5	< 5	N/A
Hexachloroethane	67-72-1	---	---	< 5	N/A	< 5	< 5	N/A
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	N/A	< 5	< 5	N/A
Nitrobenzene	98-95-3	---	---	< 5	N/A	< 5	< 5	N/A
Isophorone	78-59-1	---	---	< 5	N/A	< 5	< 5	N/A
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	N/A	< 5	< 5	N/A
1,2,4-Trichlorobenzene	120-82-1	---	---	< 5	N/A	< 5	< 5	N/A
Hexachlorobutadiene	87-68-3	---	---	< 5	N/A	< 5	< 5	N/A
Hexachlorocyclopentadiene	77-47-4	---	---	< 5	N/A	< 5	< 5	N/A
2-Chloronaphthalene	91-58-7	---	---	< 5	N/A	< 5	< 5	N/A
Dimethylphthalate	131-11-3	monitor	monitor	< 5	N/A	< 5	< 5	N/A
2-methylphenol	95-48-7	---	---	< 5	N/A	< 5	< 5	N/A
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 5	N/A	< 5	< 5	N/A
4-methylphenol (total)	106-44-5	monitor	140	< 5	N/A	< 5	< 5	N/A
Dibenzofuran	132-64-9	---	---	< 5	N/A	< 5	< 5	N/A
3-Nitroaniline	99-09-2	---	---	< 5	N/A	< 5	< 5	N/A
4-Nitroaniline	100-01-6	---	---	< 5	N/A	< 5	< 5	N/A
2,4-Dinitrophenol	51-28-5	---	---	< 5	N/A	< 5	< 5	N/A
4-Nitrophenol	100-02-7	---	---	< 5	N/A	< 5	< 5	N/A
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 5	N/A	< 5	< 5	N/A
Pentachlorophenol (total)	87-86-5	monitor	3 5	< 5	N/A	< 5	< 5	N/A
2,6-Dinitrotoluene	606-20-2	---	---	< 5	N/A	< 5	< 5	N/A
2,4-Dinitrotoluene	121-14-2	---	---	< 5	N/A	< 5	< 5	N/A
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	N/A	< 5	< 5	N/A
Diethylphthalate	84-66-2	monitor	2600	< 5	N/A	< 5	< 5	N/A
N-nitrosodiphenylamine	86-30-6	---	---	< 5	N/A	< 5	< 5	N/A
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	N/A	< 5	< 5	N/A
Hexachlorobenzene	118-74-1	---	---	< 5	N/A	< 5	< 5	N/A
di-n-butylphthalate	84-74-2	monitor	350	< 5	N/A	< 5	< 5	N/A
Butylbenzylphthalate	85-68-7	---	---	< 5	N/A	< 5	< 5	N/A
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	N/A	< 5	< 5	N/A
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	2 1	J	N/A	< 5	< 5
Di-n-octylphthalate	117-84-0	---	---	1 6	J	N/A	< 5	< 5
Carbazole	86-74-8	---	---	< 5	N/A	< 5	< 5	N/A

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		June-16	July-16	August-16	September-16	October-16
		Discharge Limits		6/9/2016	7/1/2016	8/3/2016	9/22/2016	10/1/2016
		30 Day Avg.	Daily Max.					
PAHs (ug/L)								
Naphthalene	91-20-3	monitor	160	< 5	N/A	< 5	< 5	N/A
Acenaphthylene	208-96-8	---	---	< 5	N/A	< 5	< 5	N/A
Anthracene	120-12-7	---	---	< 5	N/A	< 5	< 5	N/A
Fluorene	86-73-7	---	---	< 5	N/A	< 5	< 5	N/A
Phenanthrene	85-01-8	---	---	< 5	N/A	< 5	< 5	N/A
Acenaphthene	83-32-9	monitor	67	< 5	N/A	< 5	< 5	N/A
Benzo (a) pyrene	50-32-8	---	---	< 5	N/A	< 5	< 5	N/A
Chrysene	218-01-9	---	---	< 5	N/A	< 5	< 5	N/A
Fluoranthene	206-44-0	66	200	< 5	N/A	< 5	< 5	N/A
Pyrene	129-00-0	---	---	< 5	N/A	< 5	< 5	N/A
Benzo (a) anthracene	56-55-3	---	---	< 5	N/A	< 5	< 5	N/A
Benzo (k) flouranthene	207-08-9	---	---	< 5	N/A	< 5	< 5	N/A
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	N/A	< 5	< 5	N/A
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	N/A	< 5	< 5	N/A
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	N/A	< 5	< 5	N/A
Benzo (b) flouranthene	205-99-2	---	---	< 5	N/A	< 5	< 5	N/A
Total PAHs		0.376	monitor	0	N/A	0	0	N/A
VOCs (ug/L)								
Chloromethane	74-87-3	---	---	< 1	N/A	< 1	< 1	N/A
Vinyl Chloride	75-01-4	---	---	< 1	N/A	< 1	< 1	N/A
Bromomethane	74-83-9	---	---	< 1	N/A	< 1	< 1	N/A
Chloroethane	75-00-3	---	---	< 1	N/A	< 1	< 1	N/A
1,1-Dichloroethene	75-35-4	---	---	< 1	N/A	< 1	< 1	N/A
Methylene Chloride	75-09-2	---	---	< 5	N/A	< 5	< 5	N/A
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	N/A	< 1	< 1	N/A
1,1-Dichloroethane	75-34-3	---	---	< 1	N/A	< 1	< 1	N/A
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	N/A	< 1	< 1	N/A
Chloroform	67-66-3	---	---	< 1	N/A	< 1	< 1	N/A
1,1,1-Trichloroethane	71-55-6	---	---	< 1	N/A	< 1	< 1	N/A
Carbon Tetrachloride	56-23-5	---	---	< 1	N/A	< 1	< 1	N/A
Benzene	71-43-2	57	134	< 1	N/A	< 1	< 1	N/A
1,2-Dichloroethane	107-06-2	180	574	< 1	N/A	< 1	< 1	N/A
Trichloroethene	79-01-6	---	---	< 1	N/A	< 1	< 1	N/A
1,2-Dichloropropane	78-87-5	---	---	< 1	N/A	< 1	< 1	N/A
Bromodichloromethane	75-27-4	---	---	< 1	N/A	< 1	< 1	N/A
Toluene	108-88-3	28	74	< 1	N/A	< 1	< 1	N/A
1,1,2-Trichloroethane	79-00-5	---	---	< 1	N/A	< 1	< 1	N/A
Tetrachloroethene	127-18-4	52	164	< 1	N/A	< 1	< 1	N/A
Dibromochloromethane	124-48-1	---	---	< 1	N/A	< 1	< 1	N/A
Chlorobenzene	108-90-7	---	---	< 1	N/A	< 1	< 1	N/A
Ethylbenzene	100-41-4	142	380	< 1	N/A	< 1	< 1	N/A
Styrene	100-42-5	monitor	1300	< 1	N/A	< 1	< 1	N/A
Bromoform	75-25-2	---	---	< 1	N/A	< 1	< 1	N/A
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	N/A	< 1	< 1	N/A
Acetone (total)	67-64-1	monitor	550	< 10	N/A	< 10	< 10	N/A
Carbon Disulfide	75-15-0	---	---	< 1	N/A	< 1	< 1	N/A
2-Butanone	78-93-3	---	---	< 5	N/A	< 5	< 5	N/A
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	N/A	< 1	< 1	N/A
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	N/A	< 1	< 1	N/A
4-Methyl-2-pentanone	108-10-1	---	---	< 5	N/A	< 5	< 5	N/A
2-Hexanone	591-78-6	---	---	< 5	N/A	< 5	< 5	N/A
Total Xylene	1330-20-7	---	---	< 3	N/A	< 3	< 3	N/A

Notes

- Indicates no Established Effluent Criteria
- NA - Not Analyzed
- J - Analyte is present at an estimated concentration between the MDL and Report Limit
- H - Analyzed outside of Holding Time
- X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		May-16 5/1/2016	June-16 6/9/2016	July-16 7/1/2016	August-16 8/3/2016	September-16 9/22/2016
		Discharge Limits						
		30 Day Avg	Daily Max.					
Metals (mg/L)								
Mercury	7439-97-6	0.000013	0 0011	N/A	< 0 0002	N/A	< 0 0002	< 0 0002
Antimony	7440-36-0	monitor	monitor	N/A	< 0 005	N/A	< 0 005	0 0003 J
Chromium	7440-47-3	0 119	2.6	N/A	0 0029 J	N/A	< 0 005	< 0 005
Copper	7440-50-8	monitor	0.027	N/A	0 014	N/A	0 02	0 024
Lead	7439-92-1	0 121	0.23	N/A	< 0 005	N/A	0 00052 J	0 0031 J
Nickel	7440-02-0	0 24	2 3	N/A	0 0074	N/A	0 0095	0 013
Zinc	7440-66-6	monitor	0 17	N/A	0 079	N/A	0 11	0 096
Arsenic	7440-38-2	0 122	0 36	N/A	< 0 005	N/A	< 0 005	0 001 J
Beryllium	7440-41-7	0 00142	1	N/A	< 0 002	N/A	< 0 002	< 0 002
Cadmium	7440-43-9	monitor	0 0089	N/A	< 0 0002	N/A	< 0 0002	0 00007 J
Silver	7440-22-4	monitor	0 0034	N/A	< 0 005	N/A	< 0 005	0 0021 J
Cyanide (free)	57-12-5	monitor	0 046	N/A	< 0 005	N/A	< 0 005	< 0 005
Conventional (mg/L)								
pH (Min and Max) (S U)	pH	6 5	9	N/A	6 97 H	N/A	6 72 H	6 78 H
TSS	TSS	30	45	N/A	< 3	N/A	< 3	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	N/A	3 3	N/A	3	3 3
Oil & Grease (total)	O&G	10	10	N/A	1 4 J	N/A	< 5	< 5
BOD	BOD	monitor	monitor	N/A	< 2	N/A	< 2	7 8
Pesticides (ug/L)								
Endrin Ketone	53494-70-5	---	---	N/A	< 0 02	N/A	< 0 02	< 0 02
Alpha Chlordane	5103-71-9	---	---	N/A	< 0 02	N/A	< 0 02	< 0 02
Gamma Chlordane	5103-74-2	---	---	N/A	< 0 02	N/A	< 0 02	< 0 02
Alpha BHC	319-84-6	---	---	N/A	< 0 02	N/A	< 0 02	< 0 02
Beta BHC	319-85-7	---	---	N/A	< 0 02	N/A	< 0 02	< 0 02
Gamma BHC-Lindane	58-89-9	---	---	N/A	< 0 02	N/A	< 0 02	< 0 02
Delta BHC	319-86-8	---	---	N/A	< 0 02	N/A	< 0 02	< 0 02
Heptachlor	76-44-8	0 00331	monitor	N/A	< 0 02	N/A	< 0 02	< 0 02
Aldrin	309-00-2	0 000884	monitor	N/A	< 0 02	N/A	< 0 02	< 0 02
Heptachlor Epoxide	1024-57-3	---	---	N/A	< 0 02	N/A	< 0 02	< 0 02
p,p-DDE	72-55-9	---	---	N/A	< 0 02	N/A	< 0 02	< 0 02
p,p-DDD	72-54-8	---	---	N/A	< 0 02	N/A	< 0 02	< 0 02
p,p-DDT	50-29-3	0.000227	monitor	N/A	< 0 02	N/A	< 0 02	< 0 02
Dieldrin	60-57-1	---	---	N/A	< 0 02	N/A	< 0 02	< 0 02
Endrin	72-20-8	---	---	N/A	< 0 02	N/A	< 0 02	< 0 02
Toxaphene	8001-35-2	---	---	N/A	< 4	N/A	< 4	< 4
Endosulfan II	33213-65-9	---	---	N/A	< 0 02	N/A	< 0 02	< 0 02
Endosulfan I	959-98-8	---	---	N/A	< 0 02	N/A	< 0 02	< 0 02
Endosulfan Sulfate	1031-07-8	---	---	N/A	< 0 02	N/A	< 0 02	< 0 02
Endrin Aldehyde	7421-93-4	---	---	N/A	< 0 02	N/A	< 0 02	< 0 02
Methoxychlor	72-43-5	---	---	N/A	< 0 02	N/A	< 0 02	< 0 02
PCBs (ug/L)								
PCB-1016	12674-11-2	---	---	N/A	< 0 2	N/A	< 0 2	< 0 2
PCB-1221	11104-28-2	---	---	N/A	< 0 2	N/A	< 0 2	< 0 2
PCB-1232	11141-16-5	---	---	N/A	< 0 2	N/A	< 0 2	< 0 2
PCB-1242	53469-21-9	---	---	N/A	< 0 2	N/A	< 0 2	< 0 2
PCB-1248	12672-29-6	---	---	N/A	< 0 2	N/A	< 0 2	< 0 2
PCB-1254	11097-69-1	---	---	N/A	< 0 2	N/A	< 0 2	< 0 2
PCB-1260	11096-82-5	---	---	N/A	< 0 2	N/A	< 0 2	< 0 2
TOTAL PCBs		0.000967	monitor	N/A	0	N/A	0	0

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		May-16 5/1/2016	June-16 6/9/2016	July-16 7/1/2016	August-16 8/3/2016	September-16 9/22/2016
		Discharge Limits						
		30 Day Avg	Daily Max.					
Semi-VOCs (ug/L)								
4-Chloroaniline	106-47-8	---	---	N/A	< 5	N/A	< 5	< 5
2-Methylnaphthalene	91-57-6	---	---	N/A	< 5	N/A	< 5	< 5
2-Nitroaniline	88-74-4	---	---	N/A	< 5	N/A	< 5	< 5
2,4,5-Trchlorophenol	95-95-4	---	---	N/A	< 5	N/A	< 5	< 5
2-Chlorophenol	95-57-8	---	---	N/A	< 5	N/A	< 5	< 5
Phenol	108-95-2	monitor	monitor	N/A	< 5	N/A	< 5	< 5
2-Nitrophenol	88-75-5	---	---	N/A	< 5	N/A	< 5	< 5
2,4-Dimethylphenol	105-67-9	---	---	N/A	< 5	N/A	< 5	< 5
2,4-Dichlorophenol	120-83-2	---	---	N/A	< 5	N/A	< 5	< 5
4-Chloro-3-methylphenol	59-50-7	---	---	N/A	< 5	N/A	< 5	< 5
2,4,6-Trchlorophenol	88-06-2	---	---	N/A	< 5	N/A	< 5	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	N/A	< 5	N/A	< 5	< 5
1,3-Dichlorobenzene	541-73-1	---	---	N/A	< 5	N/A	< 5	< 5
1,4-Dichlorobenzene	106-46-7	---	---	N/A	< 5	N/A	< 5	< 5
1,2-Dichlorobenzene	95-50-1	---	---	N/A	< 5	N/A	< 5	< 5
Hexachloroethane	67-72-1	---	---	N/A	< 5	N/A	< 5	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	N/A	< 5	N/A	< 5	< 5
Nitrobenzene	98-95-3	---	---	N/A	< 5	N/A	< 5	< 5
Isophorone	78-59-1	---	---	N/A	< 5	N/A	< 5	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	N/A	< 5	N/A	< 5	< 5
1,2,4-Trchlorobenzene	120-82-1	---	---	N/A	< 5	N/A	< 5	< 5
Hexachlorobutadiene	87-68-3	---	---	N/A	< 5	N/A	< 5	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	N/A	< 5	N/A	< 5	< 5
2-Chloronaphthalene	91-58-7	---	---	N/A	< 5	N/A	< 5	< 5
Dimethylphthalate	131-11-3	monitor	monitor	N/A	< 5	N/A	< 5	< 5
2-methylphenol	95-48-7	---	---	N/A	< 5	N/A	< 5	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	N/A	< 5	N/A	< 5	< 5
4-methylphenol (total)	106-44-5	monitor	140	N/A	< 5	N/A	< 5	< 5
Dibenzofuran	132-64-9	---	---	N/A	< 5	N/A	< 5	< 5
3-Nitroaniline	99-09-2	---	---	N/A	< 5	N/A	< 5	< 5
4-Nitroaniline	100-01-6	---	---	N/A	< 5	N/A	< 5	< 5
2,4-Dinitrophenol	51-28-5	---	---	N/A	< 5	N/A	< 5	< 5
4-Nitrophenol	100-02-7	---	---	N/A	< 5	N/A	< 5	< 5
4,6-Dinitro-2-methylphenol	534-52-1	---	---	N/A	< 5	N/A	< 5	< 5
Pentachlorophenol (total)	87-86-5	monitor	3 5	N/A	< 5	N/A	< 5	< 5
2,6-Dinitrotoluene	606-20-2	---	---	N/A	< 5	N/A	< 5	< 5
2,4-Dinitrotoluene	121-14-2	---	---	N/A	< 5	N/A	< 5	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	N/A	< 5	N/A	< 5	< 5
Diethylphthalate	84-66-2	monitor	2600	N/A	< 5	N/A	< 5	< 5
N-nitrosodiphenylamine	86-30-6	---	---	N/A	< 5	N/A	< 5	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	N/A	< 5	N/A	< 5	< 5
Hexachlorobenzene	118-74-1	---	---	N/A	< 5	N/A	< 5	< 5
di-n-butylphthalate	84-74-2	monitor	350	N/A	< 5	N/A	< 5	< 5
Butylbenzylphthalate	85-68-7	---	---	N/A	< 5	N/A	< 5	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	N/A	< 5	N/A	< 5	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	N/A	2 1 J	N/A	< 5	< 5
Di-n-octylphthalate	117-84-0	---	---	N/A	1 6 J	N/A	< 5	< 5
Carbazole	86-74-8	---	---	N/A	< 5	N/A	< 5	< 5

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		May-16	June-16	July-16	August-16	September-16
		30 Day Avg	Daily Max.	5/1/2016	6/9/2016	7/1/2016	8/3/2016	9/22/2016
PAHs (ug/L)								
Naphthalene	91-20-3	monitor	160	N/A	< 5	N/A	< 5	< 5
Acenaphthylene	208-96-8	---	---	N/A	< 5	N/A	< 5	< 5
Anthracene	120-12-7	---	---	N/A	< 5	N/A	< 5	< 5
Fluorene	86-73-7	---	---	N/A	< 5	N/A	< 5	< 5
Phenanthrene	85-01-8	---	---	N/A	< 5	N/A	< 5	< 5
Acenaphthene	83-32-9	monitor	67	N/A	< 5	N/A	< 5	< 5
Benzo (a) pyrene	50-32-8	---	---	N/A	< 5	N/A	< 5	< 5
Chrysene	218-01-9	---	---	N/A	< 5	N/A	< 5	< 5
Fluoranthene	206-44-0	66	200	N/A	< 5	N/A	< 5	< 5
Pyrene	129-00-0	---	---	N/A	< 5	N/A	< 5	< 5
Benzo (a) anthracene	56-55-3	---	---	N/A	< 5	N/A	< 5	< 5
Benzo (k) flouranthene	207-08-9	---	---	N/A	< 5	N/A	< 5	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	N/A	< 5	N/A	< 5	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	N/A	< 5	N/A	< 5	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	N/A	< 5	N/A	< 5	< 5
Benzo (b) flouranthene	205-99-2	---	---	N/A	< 5	N/A	< 5	< 5
Total PAHs		0.376	monitor	N/A	0	N/A	0	0
VOCs (ug/L)								
Chloromethane	74-87-3	---	---	N/A	< 1	N/A	< 1	< 1
Vinyl Chloride	75-01-4	---	---	N/A	< 1	N/A	< 1	< 1
Bromomethane	74-83-9	---	---	N/A	< 1	N/A	< 1	< 1
Chloroethane	75-00-3	---	---	N/A	< 1	N/A	< 1	< 1
1,1-Dichloroethene	75-35-4	---	---	N/A	< 1	N/A	< 1	< 1
Methylene Chloride	75-09-2	---	---	N/A	< 5	N/A	< 5	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	N/A	< 1	N/A	< 1	< 1
1,1-Dichloroethane	75-34-3	---	---	N/A	< 1	N/A	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	N/A	< 1	N/A	< 1	< 1
Chloroform	67-66-3	---	---	N/A	< 1	N/A	< 1	< 1
1,1,1-Trichloroethane	71-55-6	---	---	N/A	< 1	N/A	< 1	< 1
Carbon Tetrachloride	56-23-5	---	---	N/A	< 1	N/A	< 1	< 1
Benzene	71-43-2	57	134	N/A	< 1	N/A	< 1	< 1
1,2-Dichloroethane	107-06-2	180	574	N/A	< 1	N/A	< 1	< 1
Trichloroethene	79-01-6	---	---	N/A	< 1	N/A	< 1	< 1
1,2-Dichloropropane	78-87-5	---	---	N/A	< 1	N/A	< 1	< 1
Bromodichloromethane	75-27-4	---	---	N/A	< 1	N/A	< 1	< 1
Toluene	108-88-3	28	74	N/A	< 1	N/A	< 1	< 1
1,1,2-Trichloroethane	79-00-5	---	---	N/A	< 1	N/A	< 1	< 1
Tetrachloroethene	127-18-4	52	164	N/A	< 1	N/A	< 1	< 1
Dibromochloromethane	124-48-1	---	---	N/A	< 1	N/A	< 1	< 1
Chlorobenzene	108-90-7	---	---	N/A	< 1	N/A	< 1	< 1
Ethylbenzene	100-41-4	142	380	N/A	< 1	N/A	< 1	< 1
Styrene	100-42-5	monitor	1300	N/A	< 1	N/A	< 1	< 1
Bromoform	75-25-2	---	---	N/A	< 1	N/A	< 1	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	N/A	< 1	N/A	< 1	< 1
Acetone (total)	67-64-1	monitor	550	N/A	< 10	N/A	< 10	< 10
Carbon Disulfide	75-15-0	---	---	N/A	< 1	N/A	< 1	< 1
2-Butanone	78-93-3	---	---	N/A	< 5	N/A	< 5	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	N/A	< 1	N/A	< 1	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	N/A	< 1	N/A	< 1	< 1
4-Methyl-2-pentanone	108-10-1	---	---	N/A	< 5	N/A	< 5	< 5
2-Hexanone	591-78-6	---	---	N/A	< 5	N/A	< 5	< 5
Total Xylene	1330-20-7	---	---	N/A	< 3	N/A	< 3	< 3

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed
 J - Analyte is present at an estimated concentration between the MDL and Report Limit
 H - Analyzed outside of Holding Time
 X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		April-16 4/21/2016	May-16 5/1/2016	June-16 6/9/2016	July-16 7/1/2016	August-16 8/3/2016
		Discharge Limits						
		30 Day Avg.	Daily Max.					
Metals (mg/L)								
Mercury	7439-97-6	0.000013	0.0011	< 0.0002	N/A	< 0.0002	N/A	< 0.0002
Antimony	7440-36-0	monitor	monitor	< 0.005	N/A	< 0.005	N/A	< 0.005
Chromium	7440-47-3	0.119	2.6	0.00013 J	N/A	0.0029 J	N/A	< 0.005
Copper	7440-50-8	monitor	0.027	0.011	N/A	0.014	N/A	0.02
Lead	7439-92-1	0.121	0.23	0.00035 J	N/A	< 0.005	N/A	0.00052 J
Nickel	7440-02-0	0.24	2.3	0.0072	N/A	0.0074	N/A	0.0095
Zinc	7440-66-6	monitor	0.17	0.12	N/A	0.079	N/A	0.11
Arsenic	7440-38-2	0.122	0.36	< 0.005	N/A	< 0.005	N/A	< 0.005
Beryllium	7440-41-7	0.00142	1	< 0.002	N/A	< 0.002	N/A	< 0.002
Cadmium	7440-43-9	monitor	0.0089	< 0.0002	N/A	< 0.0002	N/A	< 0.0002
Silver	7440-22-4	monitor	0.0034	< 0.005	N/A	< 0.005	N/A	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	< 0.005	N/A	< 0.005	N/A	< 0.005
Conventionals (mg/L)								
pH (Min and Max) (S U)	pH	6.5	9	7.01	N/A	6.97 H	N/A	6.72 H
TSS	TSS	30	45	< 3	N/A	< 3	N/A	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	3.3	N/A	3.3	N/A	3
Oil & Grease (total)	O&G	10	10	< 5	N/A	1.4 J	N/A	< 5
BOD	BOD	monitor	monitor	< 2	N/A	< 2	N/A	< 2
Pesticides (ug/L)								
Endrin Ketone	53494-70-5	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Alpha Chlordane	5103-71-9	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Gamma Chlordane	5103-74-2	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Alpha BHC	319-84-6	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Beta BHC	319-85-7	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Gamma BHC-Lindane	58-89-9	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Delta BHC	319-86-8	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Heptachlor	76-44-8	0.00331	monitor	< 0.02	N/A	< 0.02	N/A	< 0.02
Aldrin	309-00-2	0.000884	monitor	< 0.02	N/A	< 0.02	N/A	< 0.02
Heptachlor Epoxide	1024-57-3	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
p,p-DDE	72-55-9	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
p,p-DDD	72-54-8	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
p,p-DDT	50-29-3	0.000227	monitor	< 0.02	N/A	< 0.02	N/A	< 0.02
Dieldrin	60-57-1	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Endrin	72-20-8	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Toxaphene	8001-35-2	---	---	< 4	N/A	< 4	N/A	< 4
Endosulfan II	33213-65-9	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Endosulfan I	959-98-8	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Endosulfan Sulfate	1031-07-8	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Endrin Aldehyde	7421-93-4	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
Methoxychlor	72-43-5	---	---	< 0.02	N/A	< 0.02	N/A	< 0.02
PCBs (ug/L)								
PCB-1016	12674-11-2	---	---	< 0.2	N/A	< 0.2	N/A	< 0.2
PCB-1221	11104-28-2	---	---	< 0.2	N/A	< 0.2	N/A	< 0.2
PCB-1232	11141-16-5	---	---	< 0.2	N/A	< 0.2	N/A	< 0.2
PCB-1242	53469-21-9	---	---	< 0.2	N/A	< 0.2	N/A	< 0.2
PCB-1248	12672-29-6	---	---	< 0.2	N/A	< 0.2	N/A	< 0.2
PCB-1254	11097-69-1	---	---	< 0.2	N/A	< 0.2	N/A	< 0.2
PCB-1260	11096-82-5	---	---	< 0.2	N/A	< 0.2	N/A	< 0.2
TOTAL PCBs		0.000967	monitor	0	N/A	0	N/A	0

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		April-16 4/21/2016	May-16 5/1/2016	June-16 6/9/2016	July-16 7/1/2016	August-16 8/3/2016
		Discharge Limits						
		30 Day Avg	Daily Max					
Semi-VOCs (ug/L)								
4-Chloroaniline	106-47-8	---	---	< 5	N/A	< 5	N/A	< 5
2-Methylnaphthalene	91-57-6	---	---	< 5	N/A	< 5	N/A	< 5
2-Nitroaniline	88-74-4	---	---	< 5	N/A	< 5	N/A	< 5
2,4,5-Trichlorophenol	95-95-4	---	---	< 5	N/A	< 5	N/A	< 5
2-Chlorophenol	95-57-8	---	---	< 5	N/A	< 5	N/A	< 5
Phenol	108-95-2	monitor	monitor	< 5	N/A	< 5	N/A	< 5
2-Nitrophenol	88-75-5	---	---	< 5	N/A	< 5	N/A	< 5
2,4-Dimethylphenol	105-67-9	---	---	< 5	N/A	< 5	N/A	< 5
2,4-Dichlorophenol	120-83-2	---	---	< 5	N/A	< 5	N/A	< 5
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	N/A	< 5	N/A	< 5
2,4,6-Trichlorophenol	88-06-2	---	---	< 5	N/A	< 5	N/A	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	N/A	< 5	N/A	< 5
1,3-Dichlorobenzene	541-73-1	---	---	< 5	N/A	< 5	N/A	< 5
1,4-Dichlorobenzene	106-46-7	---	---	< 5	N/A	< 5	N/A	< 5
1,2-Dichlorobenzene	95-50-1	---	---	< 5	N/A	< 5	N/A	< 5
Hexachloroethane	67-72-1	---	---	< 5	N/A	< 5	N/A	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	N/A	< 5	N/A	< 5
Nitrobenzene	98-95-3	---	---	< 5	N/A	< 5	N/A	< 5
Isophorone	78-59-1	---	---	< 5	N/A	< 5	N/A	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	N/A	< 5	N/A	< 5
1,2,4-Trichlorobenzene	120-82-1	---	---	< 5	N/A	< 5	N/A	< 5
Hexachlorobutadiene	87-68-3	---	---	< 5	N/A	< 5	N/A	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	< 5	N/A	< 5	N/A	< 5
2-Chloronaphthalene	91-58-7	---	---	< 5	N/A	< 5	N/A	< 5
Dimethylphthalate	131-11-3	monitor	monitor	< 5	N/A	< 5	N/A	< 5
2-methylphenol	95-48-7	---	---	< 5	N/A	< 5	N/A	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 5	N/A	< 5	N/A	< 5
4-methylphenol (total)	106-44-5	monitor	140	< 5	N/A	< 5	N/A	< 5
Dibenzofuran	132-64-9	---	---	< 5	N/A	< 5	N/A	< 5
3-Nitroaniline	99-09-2	---	---	< 5	N/A	< 5	N/A	< 5
4-Nitroaniline	100-01-6	---	---	< 5	N/A	< 5	N/A	< 5
2,4-Dinitrophenol	51-28-5	---	---	< 5	N/A	< 5	N/A	< 5
4-Nitrophenol	100-02-7	---	---	< 5	N/A	< 5	N/A	< 5
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 5	N/A	< 5	N/A	< 5
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	N/A	< 5	N/A	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 5	N/A	< 5	N/A	< 5
2,4-Dinitrotoluene	121-14-2	---	---	< 5	N/A	< 5	N/A	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	N/A	< 5	N/A	< 5
Diethylphthalate	84-66-2	monitor	2600	< 5	N/A	< 5	N/A	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 5	N/A	< 5	N/A	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	N/A	< 5	N/A	< 5
Hexachlorobenzene	118-74-1	---	---	< 5	N/A	< 5	N/A	< 5
di-n-butylphthalate	84-74-2	monitor	350	< 5	N/A	< 5	N/A	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	N/A	< 5	N/A	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	N/A	< 5	N/A	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	N/A	2.1	J	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	N/A	1.6	J	< 5
Carbazole	86-74-8	---	---	< 5	N/A	< 5	N/A	< 5

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		April-16 4/21/2016	May-16 5/1/2016	June-16 6/9/2016	July-16 7/1/2016	August-16 8/3/2016
		Discharge Limits						
		30 Day Avg	Daily Max.					
PAHs (ug/L)								
Naphthalene	91-20-3	monitor	160	< 5	N/A	< 5	N/A	< 5
Acenaphthylene	208-96-8	---	---	< 5	N/A	< 5	N/A	< 5
Anthracene	120-12-7	---	---	< 5	N/A	< 5	N/A	< 5
Fluorene	86-73-7	---	---	< 5	N/A	< 5	N/A	< 5
Phenanthrene	85-01-8	---	---	< 5	N/A	< 5	N/A	< 5
Acenaphthene	83-32-9	monitor	67	< 5	N/A	< 5	N/A	< 5
Benzo (a) pyrene	50-32-8	---	---	< 5	N/A	< 5	N/A	< 5
Chrysene	218-01-9	---	---	< 5	N/A	< 5	N/A	< 5
Fluoranthene	206-44-0	66	200	< 5	N/A	< 5	N/A	< 5
Pyrene	129-00-0	---	---	< 5	N/A	< 5	N/A	< 5
Benzo (a) anthracene	56-55-3	---	---	< 5	N/A	< 5	N/A	< 5
Benzo (k) flouranthene	207-08-9	---	---	< 5	N/A	< 5	N/A	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	N/A	< 5	N/A	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	N/A	< 5	N/A	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	N/A	< 5	N/A	< 5
Benzo (b) flouranthene	205-99-2	---	---	< 5	N/A	< 5	N/A	< 5
Total PAHs		0.376	monitor	0	N/A	0	N/A	0
VOCs (ug/L)								
Chloromethane	74-87-3	---	---	< 1	N/A	< 1	N/A	< 1
Vinyl Chloride	75-01-4	---	---	< 1	N/A	< 1	N/A	< 1
Bromomethane	74-83-9	---	---	< 1	N/A	< 1	N/A	< 1
Chloroethane	75-00-3	---	---	< 1	N/A	< 1	N/A	< 1
1,1-Dichloroethene	75-35-4	---	---	< 1	N/A	< 1	N/A	< 1
Methylene Chloride	75-09-2	---	---	< 5	N/A	< 5	N/A	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	N/A	< 1	N/A	< 1
1,1-Dichloroethane	75-34-3	---	---	< 1	N/A	< 1	N/A	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	N/A	< 1	N/A	< 1
Chloroform	67-66-3	---	---	< 1	N/A	< 1	N/A	< 1
1,1,1-Trichloroethane	71-55-6	---	---	< 1	N/A	< 1	N/A	< 1
Carbon Tetrachloride	56-23-5	---	---	< 1	N/A	< 1	N/A	< 1
Benzene	71-43-2	57	134	< 1	N/A	< 1	N/A	< 1
1,2-Dichloroethane	107-06-2	180	574	< 1	N/A	< 1	N/A	< 1
Trichloroethene	79-01-6	---	---	< 1	N/A	< 1	N/A	< 1
1,2-Dichloropropane	78-87-5	---	---	< 1	N/A	< 1	N/A	< 1
Bromodichloromethane	75-27-4	---	---	< 1	N/A	< 1	N/A	< 1
Toluene	108-88-3	28	74	< 1	N/A	< 1	N/A	< 1
1,1,2-Trichloroethane	79-00-5	---	---	< 1	N/A	< 1	N/A	< 1
Tetrachloroethene	127-18-4	52	164	< 1	N/A	< 1	N/A	< 1
Dibromochloromethane	124-48-1	---	---	< 1	N/A	< 1	N/A	< 1
Chlorobenzene	108-90-7	---	---	< 1	N/A	< 1	N/A	< 1
Ethylbenzene	100-41-4	142	380	< 1	N/A	< 1	N/A	< 1
Styrene	100-42-5	monitor	1300	< 1	N/A	< 1	N/A	< 1
Bromoform	75-25-2	---	---	< 1	N/A	< 1	N/A	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	N/A	< 1	N/A	< 1
Acetone (total)	67-64-1	monitor	550	< 10	N/A	< 10	N/A	< 10
Carbon Disulfide	75-15-0	---	---	< 1	N/A	< 1	N/A	< 1
2-Butanone	78-93-3	---	---	< 5	N/A	< 5	N/A	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	N/A	< 1	N/A	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	N/A	< 1	N/A	< 1
4-Methyl-2-pentanone	108-10-1	---	---	< 5	N/A	< 5	N/A	< 5
2-Hexanone	591-78-6	---	---	< 5	N/A	< 5	N/A	< 5
Total Xylene	1330-20-7	---	---	< 3	N/A	< 3	N/A	< 3

Notes

- Indicates no Established Effluent Criteria
- NA - Not Analyzed
- J - Analyte is present at an estimated concentration between the MDL and Report Limit
- X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		March-16	April-16	May-16	June-16	July-16
		Discharge Limits						
		30 Day Avg.	Daily Max.					
Metals (mg/L)								
Mercury	7439-97-6	0.000013	0.0011	< 0.0002	< 0.0002	N/A	< 0.0002	N/A
Antimony	7440-36-0	monitor	monitor	< 0.005	< 0.005	N/A	< 0.005	N/A
Chromium	7440-47-3	0.119	2.6	< 0.005	0.00013 J	N/A	0.0029 J	N/A
Copper	7440-50-8	monitor	0.027	0.014	0.011	N/A	0.014	N/A
Lead	7439-92-1	0.121	0.23	0.00021 J	0.00035 J	N/A	< 0.005	N/A
Nickel	7440-02-0	0.24	2.3	0.0069	0.0072	N/A	0.0074	N/A
Zinc	7440-66-6	monitor	0.17	0.081	0.12	N/A	0.079	N/A
Arsenic	7440-38-2	0.122	0.36	< 0.005	< 0.005	N/A	< 0.005	N/A
Beryllium	7440-41-7	0.00142	1	< 0.002	< 0.002	N/A	< 0.002	N/A
Cadmium	7440-43-9	monitor	0.0089	< 0.0002	< 0.0002	N/A	< 0.0002	N/A
Silver	7440-22-4	monitor	0.0034	< 0.005	< 0.005	N/A	< 0.005	N/A
Cyanide (free)	57-12-5	monitor	0.046	0.0049 J	< 0.005	N/A	< 0.005	N/A
Conventionals (mg/L)								
pH (Min and Max) (S U)	pH	6.5	9	7.24	7.01	N/A	6.97 H	N/A
TSS	TSS	30	45	< 3	< 3	N/A	< 3	N/A
Ammonia Nitrogen	7664-41-7	monitor	monitor	3.1	3.3	N/A	3.3	N/A
Oil & Grease (total)	O&G	10	10	2.6	< 5	N/A	1.4 J	N/A
BOD	BOD	monitor	monitor	< 2	< 2	N/A	< 2	N/A
Pesticides (ug/L)								
Endrin Ketone	53494-70-5	---	---	< 0.02	< 0.02	N/A	< 0.02	N/A
Alpha Chlordane	5103-71-9	---	---	< 0.02	< 0.02	N/A	< 0.02	N/A
Gamma Chlordane	5103-74-2	---	---	< 0.02	< 0.02	N/A	< 0.02	N/A
Alpha BHC	319-84-6	---	---	< 0.02	< 0.02	N/A	< 0.02	N/A
Beta BHC	319-85-7	---	---	< 0.02	< 0.02	N/A	< 0.02	N/A
Gamma BHC-Lindane	58-89-9	---	---	< 0.02	< 0.02	N/A	< 0.02	N/A
Delta BHC	319-86-8	---	---	< 0.02	< 0.02	N/A	< 0.02	N/A
Heptachlor	76-44-8	0.00331	monitor	< 0.02	< 0.02	N/A	< 0.02	N/A
Aldrin	309-00-2	0.000884	monitor	< 0.02	< 0.02	N/A	< 0.02	N/A
Heptachlor Epoxide	1024-57-3	---	---	< 0.02	< 0.02	N/A	< 0.02	N/A
p,p-DDE	72-55-9	---	---	< 0.02	< 0.02	N/A	< 0.02	N/A
p,p-DDD	72-54-8	---	---	< 0.02	< 0.02	N/A	< 0.02	N/A
p,p-DDT	50-29-3	0.000227	monitor	< 0.02	< 0.02	N/A	< 0.02	N/A
Dieldrin	60-57-1	---	---	< 0.02	< 0.02	N/A	< 0.02	N/A
Endrin	72-20-8	---	---	< 0.02	< 0.02	N/A	< 0.02	N/A
Toxaphene	8001-35-2	---	---	< 4	< 4	N/A	< 4	N/A
Endosulfan II	33213-65-9	---	---	< 0.02	< 0.02	N/A	< 0.02	N/A
Endosulfan I	959-98-8	---	---	< 0.02	< 0.02	N/A	< 0.02	N/A
Endosulfan Sulfate	1031-07-8	---	---	< 0.02	< 0.02	N/A	< 0.02	N/A
Endrin Aldehyde	7421-93-4	---	---	< 0.02	< 0.02	N/A	< 0.02	N/A
Methoxychlor	72-43-5	---	---	< 0.02	< 0.02	N/A	< 0.02	N/A
PCBs (ug/L)								
PCB-1016	12674-11-2	---	---	< 0.2	< 0.2	N/A	< 0.2	N/A
PCB-1221	11104-28-2	---	---	< 0.2	< 0.2	N/A	< 0.2	N/A
PCB-1232	11141-16-5	---	---	< 0.2	< 0.2	N/A	< 0.2	N/A
PCB-1242	53469-21-9	---	---	< 0.2	< 0.2	N/A	< 0.2	N/A
PCB-1248	12672-29-6	---	---	< 0.2	< 0.2	N/A	< 0.2	N/A
PCB-1254	11097-69-1	---	---	< 0.2	< 0.2	N/A	< 0.2	N/A
PCB-1260	11096-82-5	---	---	< 0.2	< 0.2	N/A	< 0.2	N/A
TOTAL PCBs		0.000967	monitor	0	0	N/A	0	N/A

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		March-16 3/17/2016	April-16 4/21/2016	May-16 5/1/2016	June-16 6/9/2016	July-16 7/1/2016
		Discharge Limits						
		30 Day Avg	Daily Max.					
Semi-VOCs (ug/L)								
4-Chloroaniline	106-47-8	---	---	< 5	< 5	N/A	< 5	N/A
2-Methylnaphthalene	91-57-6	---	---	< 5	< 5	N/A	< 5	N/A
2-Nitroaniline	88-74-4	---	---	< 5	< 5	N/A	< 5	N/A
2,4,5-Trichlorophenol	95-95-4	---	---	< 5	< 5	N/A	< 5	N/A
2-Chlorophenol	95-57-8	---	---	< 5	< 5	N/A	< 5	N/A
Phenol	108-95-2	monitor	monitor	< 5	< 5	N/A	< 5	N/A
2-Nitrophenol	88-75-5	---	---	< 5	< 5	N/A	< 5	N/A
2,4-Dimethylphenol	105-67-9	---	---	< 5	< 5	N/A	< 5	N/A
2,4-Dichlorophenol	120-83-2	---	---	< 5	< 5	N/A	< 5	N/A
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	< 5	N/A	< 5	N/A
2,4,6-Trichlorophenol	88-06-2	---	---	< 5	< 5	N/A	< 5	N/A
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	< 5	N/A	< 5	N/A
1,3-Dichlorobenzene	541-73-1	---	---	< 5	< 5	N/A	< 5	N/A
1,4-Dichlorobenzene	106-46-7	---	---	< 5	< 5	N/A	< 5	N/A
1,2-Dichlorobenzene	95-50-1	---	---	< 5	< 5	N/A	< 5	N/A
Hexachloroethane	67-72-1	---	---	< 5	< 5	N/A	< 5	N/A
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	< 5	N/A	< 5	N/A
Nitrobenzene	98-95-3	---	---	< 5	< 5	N/A	< 5	N/A
Isophorone	78-59-1	---	---	< 5	< 5	N/A	< 5	N/A
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	< 5	N/A	< 5	N/A
1,2,4-Trichlorobenzene	120-82-1	---	---	< 5	< 5	N/A	< 5	N/A
Hexachlorobutadiene	87-68-3	---	---	< 5	< 5	N/A	< 5	N/A
Hexachlorocyclopentadiene	77-47-4	---	---	< 5	< 5	N/A	< 5	N/A
2-Chloronaphthalene	91-58-7	---	---	< 5	< 5	N/A	< 5	N/A
Dimethylphthalate	131-11-3	monitor	monitor	< 5	< 5	N/A	< 5	N/A
2-methylphenol	95-48-7	---	---	< 5	< 5	N/A	< 5	N/A
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 5	< 5	N/A	< 5	N/A
4-methylphenol (total)	106-44-5	monitor	140	< 5	< 5	N/A	< 5	N/A
Dibenzofuran	132-64-9	---	---	< 5	< 5	N/A	< 5	N/A
3-Nitroaniline	99-09-2	---	---	< 5	< 5	N/A	< 5	N/A
4-Nitroaniline	100-01-6	---	---	< 5	< 5	N/A	< 5	N/A
2,4-Dinitrophenol	51-28-5	---	---	< 5	< 5	N/A	< 5	N/A
4-Nitrophenol	100-02-7	---	---	< 5	< 5	N/A	< 5	N/A
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 5	< 5	N/A	< 5	N/A
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	< 5	N/A	< 5	N/A
2,6-Dinitrotoluene	606-20-2	---	---	< 5	< 5	N/A	< 5	N/A
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5	N/A	< 5	N/A
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	< 5	N/A	< 5	N/A
Diethylphthalate	84-66-2	monitor	2600	< 5	< 5	N/A	< 5	N/A
N-nitrosodiphenylamine	86-30-6	---	---	< 5	< 5	N/A	< 5	N/A
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	< 5	N/A	< 5	N/A
Hexachlorobenzene	118-74-1	---	---	< 5	< 5	N/A	< 5	N/A
di-n-butylphthalate	84-74-2	monitor	350	< 5	< 5	N/A	< 5	N/A
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5	N/A	< 5	N/A
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	< 5	N/A	< 5	N/A
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5	N/A	2.1 J	N/A
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5	N/A	1.6 J	N/A
Carbazole	86-74-8	---	---	< 5	< 5	N/A	< 5	N/A

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		March-16 3/17/2016	April-16 4/21/2016	May-16 5/1/2016	June-16 6/9/2016	July-16 7/1/2016
		Discharge Limits						
		30 Day Avg.	Daily Max					
PAHs (ug/L)								
Naphthalene	91-20-3	monitor	160	< 5	< 5	N/A	< 5	N/A
Acenaphthylene	208-96-8	---	---	< 5	< 5	N/A	< 5	N/A
Anthracene	120-12-7	---	---	< 5	< 5	N/A	< 5	N/A
Fluorene	86-73-7	---	---	< 5	< 5	N/A	< 5	N/A
Phenanthrene	85-01-8	---	---	< 5	< 5	N/A	< 5	N/A
Acenaphthene	83-32-9	monitor	67	< 5	< 5	N/A	< 5	N/A
Benzo (a) pyrene	50-32-8	---	---	< 5	< 5	N/A	< 5	N/A
Chrysene	218-01-9	---	---	< 5	< 5	N/A	< 5	N/A
Fluoranthene	206-44-0	66	200	< 5	< 5	N/A	< 5	N/A
Pyrene	129-00-0	---	---	< 5	< 5	N/A	< 5	N/A
Benzo (a) anthracene	56-55-3	---	---	< 5	< 5	N/A	< 5	N/A
Benzo (k) flouranthene	207-08-9	---	---	< 5	< 5	N/A	< 5	N/A
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	< 5	N/A	< 5	N/A
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	< 5	N/A	< 5	N/A
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	< 5	N/A	< 5	N/A
Benzo (b) flouranthene	205-99-2	---	---	< 5	< 5	N/A	< 5	N/A
Total PAHs		0 376	monitor	0	0	N/A	0	N/A
VOCs (ug/L)								
Chloromethane	74-87-3	---	---	14	< 1	N/A	< 1	N/A
Vinyl Chloride	75-01-4	---	---	< 1	< 1	N/A	< 1	N/A
Bromomethane	74-83-9	---	---	< 1	< 1	N/A	< 1	N/A
Chloroethane	75-00-3	---	---	< 1	< 1	N/A	< 1	N/A
1,1-Dichloroethene	75-35-4	---	---	< 1	< 1	N/A	< 1	N/A
Methylene Chloride	75-09-2	---	---	< 5	< 5	N/A	< 5	N/A
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	< 1	N/A	< 1	N/A
1,1-Dichloroethane	75-34-3	---	---	< 1	< 1	N/A	< 1	N/A
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	< 1	N/A	< 1	N/A
Chloroform	67-66-3	---	---	< 1	< 1	N/A	< 1	N/A
1,1,1-Trichloroethane	71-55-6	---	---	< 1	< 1	N/A	< 1	N/A
Carbon Tetrachloride	56-23-5	---	---	< 1	< 1	N/A	< 1	N/A
Benzene	71-43-2	57	134	< 1	< 1	N/A	< 1	N/A
1,2-Dichloroethane	107-06-2	180	574	< 1	< 1	N/A	< 1	N/A
Trichloroethene	79-01-6	---	---	< 1	< 1	N/A	< 1	N/A
1,2-Dichloropropane	78-87-5	---	---	< 1	< 1	N/A	< 1	N/A
Bromodichloromethane	75-27-4	---	---	< 1	< 1	N/A	< 1	N/A
Toluene	108-88-3	28	74	< 1	< 1	N/A	< 1	N/A
1,1,2-Trichloroethane	79-00-5	---	---	< 1	< 1	N/A	< 1	N/A
Tetrachloroethene	127-18-4	52	164	< 1	< 1	N/A	< 1	N/A
Dibromochloromethane	124-48-1	---	---	< 1	< 1	N/A	< 1	N/A
Chlorobenzene	108-90-7	---	---	< 1	< 1	N/A	< 1	N/A
Ethylbenzene	100-41-4	142	380	< 1	< 1	N/A	< 1	N/A
Styrene	100-42-5	monitor	1300	< 1	< 1	N/A	< 1	N/A
Bromoform	75-25-2	---	---	< 1	< 1	N/A	< 1	N/A
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	< 1	N/A	< 1	N/A
Acetone (total)	67-64-1	monitor	550	< 10	< 10	N/A	< 10	N/A
Carbon Disulfide	75-15-0	---	---	< 1	< 1	N/A	< 1	N/A
2-Butanone	78-93-3	---	---	< 5	< 5	N/A	< 5	N/A
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	< 1	N/A	< 1	N/A
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	< 1	N/A	< 1	N/A
4-Methyl-2-pentanone	108-10-1	---	---	< 5	< 5	N/A	< 5	N/A
2-Hexanone	591-78-6	---	---	< 5	< 5	N/A	< 5	N/A
Total Xylene	1330-20-7	---	---	< 3	< 3	N/A	< 3	N/A

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

J - Analyte is present at an estimated concentration between the MDL and Report Limit

X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		February-16 2/4/2016	March-16 3/17/2016	April-16 4/21/2016	May-16 5/1/2016	June-16 6/9/2016
		Discharge Limits						
		30 Day Avg	Daily Max.					
Metals (mg/L)								
Mercury	7439-97-6	0.000013	0.0011	< 0.0002	< 0.0002	< 0.0002	N/A	< 0.0002
Antimony	7440-36-0	monitor	monitor	< 0.005	< 0.005	< 0.005	N/A	< 0.005
Chromium	7440-47-3	0.119	2.6	< 0.005	< 0.005	0.00013 J	N/A	0.0029 J
Copper	7440-50-8	monitor	0.027	0.015	0.014	0.011	N/A	0.014
Lead	7439-92-1	0.121	0.23	< 0.005	0.00021 J	0.00035 J	N/A	< 0.005
Nickel	7440-02-0	0.24	2.3	0.007	0.0069	0.0072	N/A	0.0074
Zinc	7440-66-6	monitor	0.17	0.056	0.081	0.12	N/A	0.079
Arsenic	7440-38-2	0.122	0.36	< 0.005	< 0.005	< 0.005	N/A	< 0.005
Beryllium	7440-41-7	0.00142	1	< 0.002	< 0.002	< 0.002	N/A	< 0.002
Cadmium	7440-43-9	monitor	0.0089	< 0.0002	< 0.0002	< 0.0002	N/A	< 0.0002
Silver	7440-22-4	monitor	0.0034	< 0.005	< 0.005	< 0.005	N/A	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	0.0049 J	0.0049 J	< 0.005	N/A	< 0.005
Conventionals (mg/L)								
pH (Min and Max) (S U)	pH	6.5	9	6.93	7.24	7.01	N/A	6.97 H
TSS	TSS	30	45	< 3	< 3	< 3	N/A	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	3.1	3.1	3.3	N/A	3.3
Oil & Grease (total)	O&G	10	10	< 5	2.6	< 5	N/A	1.4 J
BOD	BOD	monitor	monitor	< 2	< 2	< 2	N/A	< 2
Pesticides (ug/L)								
Endrin Ketone	53494-70-5	---	---	< 0.02	< 0.02	< 0.02	N/A	< 0.02
Alpha Chlordane	5103-71-9	---	---	< 0.02	< 0.02	< 0.02	N/A	< 0.02
Gamma Chlordane	5103-74-2	---	---	< 0.02	< 0.02	< 0.02	N/A	< 0.02
Alpha BHC	319-84-6	---	---	< 0.02	< 0.02	< 0.02	N/A	< 0.02
Beta BHC	319-85-7	---	---	< 0.02	< 0.02	< 0.02	N/A	< 0.02
Gamma BHC-Lindane	58-89-9	---	---	< 0.02	< 0.02	< 0.02	N/A	< 0.02
Delta BHC	319-86-8	---	---	< 0.02	< 0.02	< 0.02	N/A	< 0.02
Heptachlor	76-44-8	0.00331	monitor	< 0.02	< 0.02	< 0.02	N/A	< 0.02
Aldrin	309-00-2	0.000884	monitor	< 0.02	< 0.02	< 0.02	N/A	< 0.02
Heptachlor Epoxide	1024-57-3	---	---	< 0.02	< 0.02	< 0.02	N/A	< 0.02
p,p-DDE	72-55-9	---	---	< 0.02	< 0.02	< 0.02	N/A	< 0.02
p,p-DDD	72-54-8	---	---	< 0.02	< 0.02	< 0.02	N/A	< 0.02
p,p-DDT	50-29-3	0.000227	monitor	< 0.02	< 0.02	< 0.02	N/A	< 0.02
Dieldrin	60-57-1	---	---	< 0.02	< 0.02	< 0.02	N/A	< 0.02
Endrin	72-20-8	---	---	< 0.02	< 0.02	< 0.02	N/A	< 0.02
Toxaphene	8001-35-2	---	---	< 4	< 4	< 4	N/A	< 4
Endosulfan II	33213-65-9	---	---	< 0.02	< 0.02	< 0.02	N/A	< 0.02
Endosulfan I	959-98-8	---	---	< 0.02	< 0.02	< 0.02	N/A	< 0.02
Endosulfan Sulfate	1031-07-8	---	---	< 0.02	< 0.02	< 0.02	N/A	< 0.02
Endrin Aldehyde	7421-93-4	---	---	< 0.02	< 0.02	< 0.02	N/A	< 0.02
Methoxychlor	72-43-5	---	---	< 0.02	< 0.02	< 0.02	N/A	< 0.02
PCBs (ug/L)								
PCB-1016	12674-11-2	---	---	< 0.2	< 0.2	< 0.2	N/A	< 0.2
PCB-1221	11104-28-2	---	---	< 0.2	< 0.2	< 0.2	N/A	< 0.2
PCB-1232	11141-16-5	---	---	< 0.2	< 0.2	< 0.2	N/A	< 0.2
PCB-1242	53469-21-9	---	---	< 0.2	< 0.2	< 0.2	N/A	< 0.2
PCB-1248	12672-29-6	---	---	< 0.2	< 0.2	< 0.2	N/A	< 0.2
PCB-1254	11097-69-1	---	---	< 0.2	< 0.2	< 0.2	N/A	< 0.2
PCB-1260	11096-82-5	---	---	< 0.2	< 0.2	< 0.2	N/A	< 0.2
TOTAL PCBS		0.000967	monitor	0	0	0	N/A	0

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		February-16 2/4/2016	March-16 3/17/2016	April-16 4/21/2016	May-16 5/1/2016	June-16 6/9/2016
		Discharge Limits						
		30 Day Avg.	Daily Max.					
Semi-VOCs (ug/L)								
4-Chloroaniline	106-47-8	---	---	< 5	< 5	< 5	N/A	< 5
2-Methylnaphthalene	91-57-6	---	---	< 5	< 5	< 5	N/A	< 5
2-Nitroaniline	88-74-4	---	---	< 5	< 5	< 5	N/A	< 5
2,4,5-Trichlorophenol	95-95-4	---	---	< 5	< 5	< 5	N/A	< 5
2-Chlorophenol	95-57-8	---	---	< 5	< 5	< 5	N/A	< 5
Phenol	108-95-2	monitor	monitor	< 5	< 5	< 5	N/A	< 5
2-Nitrophenol	88-75-5	---	---	< 5	< 5	< 5	N/A	< 5
2,4-Dimethylphenol	105-67-9	---	---	< 5	< 5	< 5	N/A	< 5
2,4-Dichlorophenol	120-83-2	---	---	< 5	< 5	< 5	N/A	< 5
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	< 5	< 5	N/A	< 5
2,4,6-Trichlorophenol	88-06-2	---	---	< 5	< 5	< 5	N/A	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	< 5	< 5	N/A	< 5
1,3-Dichlorobenzene	541-73-1	---	---	< 5	< 5	< 5	N/A	< 5
1,4-Dichlorobenzene	106-46-7	---	---	< 5	< 5	< 5	N/A	< 5
1,2-Dichlorobenzene	95-50-1	---	---	< 5	< 5	< 5	N/A	< 5
Hexachloroethane	67-72-1	---	---	< 5	< 5	< 5	N/A	< 5
N-Nitroso-d-n-propylamine	621-64-7	---	---	< 5	< 5	< 5	N/A	< 5
Nitrobenzene	98-95-3	---	---	< 5	< 5	< 5	N/A	< 5
Isophorone	78-59-1	---	---	< 5	< 5	< 5	N/A	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	< 5	< 5	N/A	< 5
1,2,4-Trichlorobenzene	120-82-1	---	---	< 5	< 5	< 5	N/A	< 5
Hexachlorobutadiene	87-68-3	---	---	< 5	< 5	< 5	N/A	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	< 5	< 5	< 5	N/A	< 5
2-Chloronaphthalene	91-58-7	---	---	< 5	< 5	< 5	N/A	< 5
Dimethylphthalate	131-11-3	monitor	monitor	< 5	< 5	< 5	N/A	< 5
2-methylphenol	95-48-7	---	---	< 5	< 5	< 5	N/A	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 5	< 5	< 5	N/A	< 5
4-methylphenol (total)	106-44-5	monitor	140	< 5	< 5	< 5	N/A	< 5
Dibenzofuran	132-64-9	---	---	< 5	< 5	< 5	N/A	< 5
3-Nitroaniline	99-09-2	---	---	< 5	< 5	< 5	N/A	< 5
4-Nitroaniline	100-01-6	---	---	< 5	< 5	< 5	N/A	< 5
2,4-Dinitrophenol	51-28-5	---	---	< 5	< 5	< 5	N/A	< 5
4-Nitrophenol	100-02-7	---	---	< 5	< 5	< 5	N/A	< 5
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 5	< 5	< 5	N/A	< 5
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	< 5	< 5	N/A	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 5	< 5	< 5	N/A	< 5
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5	< 5	N/A	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	< 5	< 5	N/A	< 5
Diethylphthalate	84-66-2	monitor	2600	< 5	< 5	< 5	N/A	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 5	< 5	< 5	N/A	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	< 5	< 5	N/A	< 5
Hexachlorobenzene	118-74-1	---	---	< 5	< 5	< 5	N/A	< 5
di-n-butylphthalate	84-74-2	monitor	350	0.35	< 5	< 5	N/A	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5	< 5	N/A	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	< 5	< 5	N/A	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5	< 5	N/A	2.1
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5	< 5	N/A	1.6
Carbazole	86-74-8	---	---	< 5	< 5	< 5	N/A	< 5

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		February-16	March-16	April-16	May-16	June-16
		Discharge Limits		2/4/2016	3/17/2016	4/21/2016	5/1/2016	6/9/2016
		30 Day Avg	Daily Max.					
PAHs (ug/L)								
Naphthalene	91-20-3	monitor	160	< 5	< 5	< 5	N/A	< 5
Acenaphthylene	208-96-8	---	---	< 5	< 5	< 5	N/A	< 5
Anthracene	120-12-7	---	---	< 5	< 5	< 5	N/A	< 5
Fluorene	86-73-7	---	---	< 5	< 5	< 5	N/A	< 5
Phenanthrene	85-01-8	---	---	< 5	< 5	< 5	N/A	< 5
Acenaphthene	83-32-9	monitor	67	< 5	< 5	< 5	N/A	< 5
Benzo (a) pyrene	50-32-8	---	---	< 5	< 5	< 5	N/A	< 5
Chrysene	218-01-9	---	---	< 5	< 5	< 5	N/A	< 5
Fluoranthene	206-44-0	66	200	< 5	< 5	< 5	N/A	< 5
Pyrene	129-00-0	---	---	< 5	< 5	< 5	N/A	< 5
Benzo (a) anthracene	56-55-3	---	---	< 5	< 5	< 5	N/A	< 5
Benzo (k) flouranthene	207-08-9	---	---	< 5	< 5	< 5	N/A	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	< 5	< 5	N/A	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	< 5	< 5	N/A	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	< 5	< 5	N/A	< 5
Benzo (b) flouranthene	205-99-2	---	---	< 5	< 5	< 5	N/A	< 5
Total PAHs		0 376	monitor	0	0	0	N/A	0
VOCs (ug/L)								
Chloromethane	74-87-3	---	---	< 1	14	< 1	N/A	< 1
Vinyl Chloride	75-01-4	---	---	< 1	< 1	< 1	N/A	< 1
Bromomethane	74-83-9	---	---	< 1	< 1	< 1	N/A	< 1
Chloroethane	75-00-3	---	---	< 1	< 1	< 1	N/A	< 1
1,1-Dichloroethene	75-35-4	---	---	< 1	< 1	< 1	N/A	< 1
Methylene Chloride	75-09-2	---	---	< 5	< 5	< 5	N/A	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	< 1	< 1	N/A	< 1
1,1-Dichloroethane	75-34-3	---	---	< 1	< 1	< 1	N/A	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	< 1	< 1	N/A	< 1
Chloroform	67-66-3	---	---	< 1	< 1	< 1	N/A	< 1
1,1,1-Trichloroethane	71-55-6	---	---	< 1	< 1	< 1	N/A	< 1
Carbon Tetrachloride	56-23-5	---	---	< 1	< 1	< 1	N/A	< 1
Benzene	71-43-2	57	134	< 1	< 1	< 1	N/A	< 1
1,2-Dichloroethane	107-06-2	180	574	< 1	< 1	< 1	N/A	< 1
Trichloroethene	79-01-6	---	---	< 1	< 1	< 1	N/A	< 1
1,2-Dichloropropane	78-87-5	---	---	< 1	< 1	< 1	N/A	< 1
Bromodichloromethane	75-27-4	---	---	< 1	< 1	< 1	N/A	< 1
Toluene	108-88-3	28	74	< 1	< 1	< 1	N/A	< 1
1,1,2-Trichloroethane	79-00-5	---	---	< 1	< 1	< 1	N/A	< 1
Tetrachloroethene	127-18-4	52	164	< 1	< 1	< 1	N/A	< 1
Dibromochloromethane	124-48-1	---	---	< 1	< 1	< 1	N/A	< 1
Chlorobenzene	108-90-7	---	---	< 1	< 1	< 1	N/A	< 1
Ethylbenzene	100-41-4	142	380	< 1	< 1	< 1	N/A	< 1
Styrene	100-42-5	monitor	1300	< 1	< 1	< 1	N/A	< 1
Bromoform	75-25-2	---	---	< 1	< 1	< 1	N/A	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	< 1	< 1	N/A	< 1
Acetone (total)	67-64-1	monitor	550	< 10	< 10	< 10	N/A	< 10
Carbon Disulfide	75-15-0	---	---	< 1	< 1	< 1	N/A	< 1
2-Butanone	78-93-3	---	---	< 5	< 5	< 5	N/A	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	< 1	< 1	N/A	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	< 1	< 1	N/A	< 1
4-Methyl-2-pentanone	108-10-1	---	---	< 5	< 5	< 5	N/A	< 5
2-Hexanone	591-78-6	---	---	< 5	< 5	< 5	N/A	< 5
Total Xylene	1330-20-7	---	---	< 3	< 3	< 3	N/A	< 3

Notes

- Indicates no Established Effluent Criteria
- NA - Not Analyzed
- J - Analyte is present at an estimated concentration between the MDL and Report Limit
- X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		January-16	February-16	March-16	April-16
		Discharge Limits					
		30 Day Avg.	Daily Max.				
Metals (mg/L)							
Mercury	7439-97-6	0 000013	0.0011	< 0 0002	< 0 0002	< 0 0002	< 0 0002
Antimony	7440-36-0	monitor	monitor	< 0 005	< 0 005	< 0 005	< 0 005
Chromium	7440-47-3	0 119	2 6	< 0 005	< 0 005	< 0 005	0 00013 J
Copper	7440-50-8	monitor	0 027	0 012	0 015	0 014	0 011
Lead	7439-92-1	0 121	0.23	0 0033 J	< 0 005	0 00021 J	0 00035 J
Nickel	7440-02-0	0.24	2 3	0 007	0 007	0 0069	0 0072
Zinc	7440-66-6	monitor	0.17	0 44	0 056	0 081	0 12
Arsenic	7440-38-2	0 122	0.36	0 001 J	< 0 005	< 0 005	< 0 005
Beryllium	7440-41-7	0 00142	1	< 0 002	< 0 002	< 0 002	< 0 002
Cadmium	7440-43-9	monitor	0.0089	< 0 0002	< 0 0002	< 0 0002	< 0 0002
Silver	7440-22-4	monitor	0.0034	< 0 005	< 0 005	< 0 005	< 0 005
Cyanide (free)	57-12-5	monitor	0 046	0 0026 J	0 0049 J	0 0049 J	< 0 005
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	6 86	6 93	7 24	7 01
TSS	TSS	30	45	< 3	< 3	< 3	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	2 7	3 1	3 1	3 3
Oil & Grease (total)	O&G	10	10	< 5	< 5	2 6	< 5
BOD	BOD	monitor	monitor	< 2	< 2	< 2	< 2
Pesticides (ug/L)							
Endrin Ketone	53494-70-5	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Alpha Chlordane	5103-71-9	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Gamma Chlordane	5103-74-2	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Alpha BHC	319-84-6	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Beta BHC	319-85-7	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Gamma BHC-Lindane	58-89-9	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Delta BHC	319-86-8	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Heptachlor	76-44-8	0 00331	monitor	< 0 1	< 0 02	< 0 02	< 0 02
Aldrin	309-00-2	0.000884	monitor	< 0 1	< 0 02	< 0 02	< 0 02
Heptachlor Epoxide	1024-57-3	---	---	< 0 1	< 0 02	< 0 02	< 0 02
p,p-DDE	72-55-9	---	---	< 0 1	< 0 02	< 0 02	< 0 02
p,p-DDD	72-54-8	---	---	< 0 1	< 0 02	< 0 02	< 0 02
p,p-DDT	50-29-3	0 000227	monitor	< 0 1	< 0 02	< 0 02	< 0 02
Dieldrin	60-57-1	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Endrin	72-20-8	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Toxaphene	8001-35-2	---	---	< 20	< 4	< 4	< 4
Endosulfan II	33213-65-9	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Endosulfan I	959-98-8	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Endosulfan Sulfate	1031-07-8	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Endrin Aldehyde	7421-93-4	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Methoxychlor	72-43-5	---	---	< 0 1	< 0 02	< 0 02	< 0 02
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0 2	< 0 2	< 0 2	< 0 2
PCB-1221	11104-28-2	---	---	< 0 2	< 0 2	< 0 2	< 0 2
PCB-1232	11141-16-5	---	---	< 0 2	< 0 2	< 0 2	< 0 2
PCB-1242	53469-21-9	---	---	< 0 2	< 0 2	< 0 2	< 0 2
PCB-1248	12672-29-6	---	---	< 0 2	< 0 2	< 0 2	< 0 2
PCB-1254	11097-69-1	---	---	0 067 J	< 0 2	< 0 2	< 0 2
PCB-1260	11096-82-5	---	---	< 0 2	< 0 2	< 0 2	< 0 2
TOTAL PCBs		0 000967	monitor	0	0	0	0

Attachment A

2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit		January-16 1/6/2016	February-16 2/4/2016	March-16 3/17/2016	April-16 4/21/2016
		Discharge Limits					
		30 Day Avg.	Daily Max				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 5	< 5	< 5	< 5
2-Methylnaphthalene	91-57-6	---	---	< 5	< 5	< 5	< 5
2-Nitroaniline	88-74-4	---	---	< 5	< 5	< 5	< 5
2,4,5-Trichlorophenol	95-95-4	---	---	< 5	< 5	< 5	< 5
2-Chlorophenol	95-57-8	---	---	< 5	< 5	< 5	< 5
Phenol	108-95-2	monitor	monitor	< 5	< 5	< 5	< 5
2-Nitrophenol	88-75-5	---	---	< 5	< 5	< 5	< 5
2,4-Dimethylphenol	105-67-9	---	---	< 5	< 5	< 5	< 5
2,4-Dichlorophenol	120-83-2	---	---	< 5	< 5	< 5	< 5
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	< 5	< 5	< 5
2,4,6-Trichlorophenol	88-06-2	---	---	< 5	< 5	< 5	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	541-73-1	---	---	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	106-46-7	---	---	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	95-50-1	---	---	< 5	< 5	< 5	< 5
Hexachloroethane	67-72-1	---	---	< 5	< 5	< 5	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	< 5	< 5	< 5
Nitrobenzene	98-95-3	---	---	< 5	< 5	< 5	< 5
Isophorone	78-59-1	---	---	< 5	< 5	< 5	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	< 5	< 5	< 5
1,2,4-Trichlorobenzene	120-82-1	---	---	< 5	< 5	< 5	< 5
Hexachlorobutadiene	87-68-3	---	---	< 5	< 5	< 5	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	< 5	< 5	< 5	< 5
2-Chloronaphthalene	91-58-7	---	---	< 5	< 5	< 5	< 5
Dimethylphthalate	131-11-3	monitor	monitor	< 5	< 5	< 5	< 5
2-methylphenol	95-48-7	---	---	< 5	< 5	< 5	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 5	< 5	< 5	< 5
4-methylphenol (total)	106-44-5	monitor	140	< 5	< 5	< 5	< 5
Dibenzofuran	132-64-9	---	---	< 5	< 5	< 5	< 5
3-Nitroaniline	99-09-2	---	---	< 5	< 5	< 5	< 5
4-Nitroaniline	100-01-6	---	---	< 5	< 5	< 5	< 5
2,4-Dinitrophenol	51-28-5	---	---	< 5	< 5	< 5	< 5
4-Nitrophenol	100-02-7	---	---	< 5	< 5	< 5	< 5
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 5	< 5	< 5	< 5
Pentachlorophenol (total)	87-86-5	monitor	3 5	< 5	< 5	< 5	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 5	< 5	< 5	< 5
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5	< 5	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	< 5	< 5	< 5
Diethylphthalate	84-66-2	monitor	2600	< 5	< 5	< 5	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 5	< 5	< 5	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	< 5	< 5	< 5
Hexachlorobenzene	118-74-1	---	---	< 5	< 5	< 5	< 5
di-n-butylphthalate	84-74-2	monitor	350	0.89	0.35	< 5	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5	< 5	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	< 5	< 5	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5	< 5	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5	< 5	< 5
Carbazole	86-74-8	---	---	< 5	< 5	< 5	< 5

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		January-16 1/6/2016	February-16 2/4/2016	March-16 3/17/2016	April-16 4/21/2016
		Discharge Limits					
		30 Day Avg.	Daily Max				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 5	< 5	< 5	< 5
Acenaphthylene	208-96-8	---	---	< 5	< 5	< 5	< 5
Anthracene	120-12-7	---	---	< 5	< 5	< 5	< 5
Fluorene	86-73-7	---	---	< 5	< 5	< 5	< 5
Phenanthrene	85-01-8	---	---	< 5	< 5	< 5	< 5
Acenaphthene	83-32-9	monitor	67	< 5	< 5	< 5	< 5
Benzo (a) pyrene	50-32-8	---	---	< 5	< 5	< 5	< 5
Chrysene	218-01-9	---	---	< 5	< 5	< 5	< 5
Fluoranthene	206-44-0	66	200	< 5	< 5	< 5	< 5
Pyrene	129-00-0	---	---	< 5	< 5	< 5	< 5
Benzo (a) anthracene	56-55-3	---	---	< 5	< 5	< 5	< 5
Benzo (k) flouranthene	207-08-9	---	---	< 5	< 5	< 5	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	< 5	< 5	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	< 5	< 5	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	< 5	< 5	< 5
Benzo (b) flouranthene	205-99-2	---	---	< 5	< 5	< 5	< 5
Total PAHs		0.376	monitor	0	0	0	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 1	< 1	14	< 1
Vinyl Chloride	75-01-4	---	---	< 1	< 1	< 1	< 1
Bromomethane	74-83-9	---	---	< 1	< 1	< 1	< 1
Chloroethane	75-00-3	---	---	< 1	< 1	< 1	< 1
1,1-Dichloroethene	75-35-4	---	---	< 1	< 1	< 1	< 1
Methylene Chloride	75-09-2	---	---	< 5	< 5	< 5	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	< 1	< 1	< 1
1,1-Dichloroethane	75-34-3	---	---	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	< 1	< 1	< 1
Chloroform	67-66-3	---	---	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	71-55-6	---	---	< 1	< 1	< 1	< 1
Carbon Tetrachloride	56-23-5	---	---	< 1	< 1	< 1	< 1
Benzene	71-43-2	57	134	< 1	< 1	< 1	< 1
1,2-Dichloroethane	107-06-2	180	574	< 1	< 1	< 1	< 1
Trichloroethene	79-01-6	---	---	< 1	< 1	< 1	< 1
1,2-Dichloropropane	78-87-5	---	---	< 1	< 1	< 1	< 1
Bromodichloromethane	75-27-4	---	---	< 1	< 1	< 1	< 1
Toluene	108-88-3	28	74	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	79-00-5	---	---	< 1	< 1	< 1	< 1
Tetrachloroethene	127-18-4	52	164	< 1	< 1	< 1	< 1
Dibromochloromethane	124-48-1	---	---	< 1	< 1	< 1	< 1
Chlorobenzene	108-90-7	---	---	< 1	< 1	< 1	< 1
Ethylbenzene	100-41-4	142	380	< 1	< 1	< 1	< 1
Styrene	100-42-5	monitor	1300	< 1	< 1	< 1	< 1
Bromoform	75-25-2	---	---	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	< 1	< 1	< 1
Acetone (total)	67-64-1	monitor	550	< 10	< 10	< 10	< 10
Carbon Disulfide	75-15-0	---	---	< 1	< 1	< 1	< 1
2-Butanone	78-93-3	---	---	< 5	< 5	< 5	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	108-10-1	---	---	< 5	< 5	< 5	< 5
2-Hexanone	591-78-6	---	---	< 5	< 5	< 5	< 5
Total Xylene	1330-20-7	---	---	< 3	< 3	< 3	< 3

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

J - Analyte is present at an estimated concentration between the MDL and Report Limit

X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		January-16 1/6/2016	February-16 2/4/2016	March-16 3/17/2016	April-16 4/21/2016
		Discharge Limits					
		30 Day Avg	Daily Max.				
Metals (mg/L)							
Mercury	7439-97-6	0 000013	0 0011	< 0 0002	< 0 0002	< 0 0002	< 0 0002
Antimony	7440-36-0	monitor	monitor	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Chromium	7440-47-3	0.119	2 6	< 0 0005	< 0 0005	< 0 0005	0 00013 J
Copper	7440-50-8	monitor	0.027	0 012	0 015	0 014	0 011
Lead	7439-92-1	0.121	0 23	0 0033 J	< 0 0005	0 00021 J	0 00035 J
Nickel	7440-02-0	0 24	2 3	0 007	0 007	0 0069	0 0072
Zinc	7440-66-6	monitor	0 17	0 44	0 056	0 081	0 12
Arsenic	7440-38-2	0.122	0 36	0 001 J	< 0 0005	< 0 0005	< 0 0005
Beryllium	7440-41-7	0.00142	1	< 0 0002	< 0 0002	< 0 0002	< 0 0002
Cadmium	7440-43-9	monitor	0 0089	< 0 0002	< 0 0002	< 0 0002	< 0 0002
Silver	7440-22-4	monitor	0 0034	< 0 0005	< 0 0005	< 0 0005	< 0 0005
Cyanide (free)	57-12-5	monitor	0 046	0 0026 J	0 0049 J	0 0049 J	< 0 0005
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	6 86	6 93	7 24	7 01
TSS	TSS	30	45	< 3	< 3	< 3	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	2 7	3 1	3 1	3 3
Oil & Grease (total)	O&G	10	10	< 5	< 5	2 6	< 5
BOD	BOD	monitor	monitor	< 2	< 2	< 2	< 2
Pesticides (ug/L)							
Endrin Ketone	53494-70-5	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Alpha Chlordane	5103-71-9	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Gamma Chlordane	5103-74-2	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Alpha BHC	319-84-6	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Beta BHC	319-85-7	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Gamma BHC-Lindane	58-89-9	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Delta BHC	319-86-8	---	---	< 0 1	3 19	< 0 02	< 0 02
Heptachlor	76-44-8	0 00331	monitor	< 0 1	< 0 02	< 0 02	< 0 02
Aldrin	309-00-2	0.000884	monitor	< 0 1	< 0 02	< 0 02	< 0 02
Heptachlor Epoxide	1024-57-3	---	---	< 0 1	< 0 02	< 0 02	< 0 02
p,p-DDE	72-55-9	---	---	< 0 1	< 0 02	< 0 02	< 0 02
p,p-DDD	72-54-8	---	---	< 0 1	< 0 02	< 0 02	< 0 02
p,p-DDT	50-29-3	0 000227	monitor	< 0 1	< 0 02	< 0 02	< 0 02
Dieldrin	60-57-1	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Endrin	72-20-8	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Toxaphene	8001-35-2	---	---	< 20	< 4	< 4	< 4
Endosulfan II	33213-65-9	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Endosulfan I	959-98-8	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Endosulfan Sulfate	1031-07-8	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Endrin Aldehyde	7421-93-4	---	---	< 0 1	< 0 02	< 0 02	< 0 02
Methoxychlor	72-43-5	---	---	< 0 1	< 0 02	< 0 02	< 0 02
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0 2	< 0 2	< 0 2	< 0 2
PCB-1221	11104-28-2	---	---	< 0 2	< 0 2	< 0 2	< 0 2
PCB-1232	11141-16-5	---	---	< 0 2	< 0 2	< 0 2	< 0 2
PCB-1242	53469-21-9	---	---	< 0 2	< 0 2	< 0 2	< 0 2
PCB-1248	12672-29-6	---	---	< 0 2	< 0 2	< 0 2	< 0 2
PCB-1254	11097-69-1	---	---	0 067 J	< 0 2	< 0 2	< 0 2
PCB-1260	11096-82-5	---	---	< 0 2	< 0 2	< 0 2	< 0 2
TOTAL PCBs		0 000967	monitor	0	0	0	0

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		January-16 1/6/2016	February-16 2/4/2016	March-16 3/17/2016	April-16 4/21/2016
		Discharge Limits					
		30 Day Avg	Daily Max.				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 5	< 5	< 5	< 5
2-Methylnaphthalene	91-57-6	---	---	< 5	< 5	< 5	< 5
2-Nitroaniline	88-74-4	---	---	< 5	< 5	< 5	< 5
2,4,5-Trichlorophenol	95-95-4	---	---	< 5	< 5	< 5	< 5
2-Chlorophenol	95-57-8	---	---	< 5	< 5	< 5	< 5
Phenol	108-95-2	monitor	monitor	< 5	< 5	< 5	< 5
2-Nitrophenol	88-75-5	---	---	< 5	< 5	< 5	< 5
2,4-Dimethylphenol	105-67-9	---	---	< 5	< 5	< 5	< 5
2,4-Dichlorophenol	120-83-2	---	---	< 5	< 5	< 5	< 5
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	< 5	< 5	< 5
4,6-Trichlorophenol	88-06-2	---	---	< 5	< 5	< 5	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	541-73-1	---	---	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	106-46-7	---	---	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	95-50-1	---	---	< 5	< 5	< 5	< 5
Hexachloroethane	67-72-1	---	---	< 5	< 5	< 5	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	< 5	< 5	< 5
Nitrobenzene	98-95-3	---	---	< 5	< 5	< 5	< 5
Isophorone	78-59-1	---	---	< 5	< 5	< 5	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	< 5	< 5	< 5
1,2,4-Trichlorobenzene	120-82-1	---	---	< 5	< 5	< 5	< 5
Hexachlorobutadiene	87-68-3	---	---	< 5	< 5	< 5	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	< 5	< 5	< 5	< 5
2-Chloronaphthalene	91-58-7	---	---	< 5	< 5	< 5	< 5
Dimethylphthalate	131-11-3	monitor	monitor	< 5	< 5	< 5	< 5
2-methylphenol	95-48-7	---	---	< 5	< 5	< 5	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 5	< 5	< 5	< 5
4-methylphenol (total)	106-44-5	monitor	140	< 5	< 5	< 5	< 5
Dibenzofuran	132-64-9	---	---	< 5	< 5	< 5	< 5
3-Nitroaniline	99-09-2	---	---	< 5	< 5	< 5	< 5
4-Nitroaniline	100-01-6	---	---	< 5	< 5	< 5	< 5
2,4-Dinitrophenol	51-28-5	---	---	< 5	< 5	< 5	< 5
4-Nitrophenol	100-02-7	---	---	< 5	< 5	< 5	< 5
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 5	< 5	< 5	< 5
Pentachlorophenol (total)	87-86-5	monitor	3 5	< 5	< 5	< 5	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 5	< 5	< 5	< 5
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5	< 5	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	< 5	< 5	< 5
Diethylphthalate	84-66-2	monitor	2600	< 5	< 5	< 5	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 5	< 5	< 5	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	< 5	< 5	< 5
Hexachlorobenzene	118-74-1	---	---	< 5	< 5	< 5	< 5
di-n-butylphthalate	84-74-2	monitor	350	0 89	J 0 35	J < 5	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5	< 5	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	< 5	< 5	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5	< 5	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5	< 5	< 5
Carbazole	86-74-8	---	---	< 5	< 5	< 5	< 5

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit					
		Discharge Limits		January-16	February-16	March-16	April-16
		30 Day Avg	Daily Max.	1/6/2016	2/4/2016	3/17/2016	4/21/2016
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 5	< 5	< 5	< 5
Acenaphthylene	208-96-8	---	---	< 5	< 5	< 5	< 5
Anthracene	120-12-7	---	---	< 5	< 5	< 5	< 5
Fluorene	86-73-7	---	---	< 5	< 5	< 5	< 5
Phenanthrene	85-01-8	---	---	< 5	< 5	< 5	< 5
Acenaphthene	83-32-9	monitor	67	< 5	< 5	< 5	< 5
Benzo (a) pyrene	50-32-8	---	---	< 5	< 5	< 5	< 5
Chrysene	218-01-9	---	---	< 5	< 5	< 5	< 5
Fluoranthene	206-44-0	66	200	< 5	< 5	< 5	< 5
Pyrene	129-00-0	---	---	< 5	< 5	< 5	< 5
Benzo (a) anthracene	56-55-3	---	---	< 5	< 5	< 5	< 5
Benzo (k) flouranthene	207-08-9	---	---	< 5	< 5	< 5	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	< 5	< 5	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	< 5	< 5	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	< 5	< 5	< 5
Benzo (b) flouranthene	205-99-2	---	---	< 5	< 5	< 5	< 5
Total PAHs		0 376	monitor	0	0	0	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 1	< 1	14	< 1
Vinyl Chloride	75-01-4	---	---	< 1	< 1	< 1	< 1
Bromomethane	74-83-9	---	---	< 1	< 1	< 1	< 1
Chloroethane	75-00-3	---	---	< 1	< 1	< 1	< 1
1,1-Dichloroethene	75-35-4	---	---	< 1	< 1	< 1	< 1
Methylene Chloride	75-09-2	---	---	< 5	< 5	< 5	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	< 1	< 1	< 1
1,1-Dichloroethane	75-34-3	---	---	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	< 1	< 1	< 1
Chloroform	67-66-3	---	---	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	71-55-6	---	---	< 1	< 1	< 1	< 1
Carbon Tetrachloride	56-23-5	---	---	< 1	< 1	< 1	< 1
Benzene	71-43-2	57	134	< 1	< 1	< 1	< 1
1,2-Dichloroethane	107-06-2	180	574	< 1	< 1	< 1	< 1
Trichloroethene	79-01-6	---	---	< 1	< 1	< 1	< 1
1,2-Dichloropropane	78-87-5	---	---	< 1	< 1	< 1	< 1
Bromodichloromethane	75-27-4	---	---	< 1	< 1	< 1	< 1
Toluene	108-88-3	28	74	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	79-00-5	---	---	< 1	< 1	< 1	< 1
Tetrachloroethene	127-18-4	52	164	< 1	< 1	< 1	< 1
Dibromochloromethane	124-48-1	---	---	< 1	< 1	< 1	< 1
Chlorobenzene	108-90-7	---	---	< 1	< 1	< 1	< 1
Ethylbenzene	100-41-4	142	380	< 1	< 1	< 1	< 1
Styrene	100-42-5	monitor	1300	< 1	< 1	< 1	< 1
Bromoform	75-25-2	---	---	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	< 1	< 1	< 1
Acetone (total)	67-64-1	monitor	550	< 10	< 10	< 10	< 10
Carbon Disulfide	75-15-0	---	---	< 1	< 1	< 1	< 1
2-Butanone	78-93-3	---	---	< 5	< 5	< 5	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	108-10-1	---	---	< 5	< 5	< 5	< 5
2-Hexanone	591-78-6	---	---	< 5	< 5	< 5	< 5
Total Xylene	1330-20-7	---	---	< 3	< 3	< 3	< 3

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

J - Analyte is present at an estimated concentration between the MDL and Report Limit

X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

Attachment A

2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit		December-15 12/1/2015	January-16 1/6/2016	February-16 2/4/2016	March-16 3/17/2016
		Discharge Limits					
		30 Day Avg.	Daily Max				
Metals (mg/L)							
Mercury	7439-97-6	0.000013	0 0011	NA	< 0 0002	< 0 0002	< 0 0002
Antimony	7440-36-0	monitor	monitor	NA	< 0 005	< 0 005	< 0 005
Chromium	7440-47-3	0.119	2 6	NA	< 0 005	< 0 005	< 0 005
Copper	7440-50-8	monitor	0 027	NA	0 012	0 015	0 014
Lead	7439-92-1	0.121	0 23	NA	0 0033	J < 0 005	0 00021 J
Nickel	7440-02-0	0 24	2 3	NA	0 007	0 007	0 0069
Zinc	7440-66-6	monitor	0 17	NA	0 44	0 056	0 081
Arsenic	7440-38-2	0.122	0 36	NA	0 001	J < 0 005	< 0 005
Beryllium	7440-41-7	0.00142	1	NA	< 0 002	< 0 002	< 0 002
Cadmium	7440-43-9	monitor	0 0089	NA	< 0 0002	< 0 0002	< 0 0002
Silver	7440-22-4	monitor	0 0034	NA	< 0 005	< 0 005	< 0 005
Cyanide (free)	57-12-5	monitor	0 046	NA	0 0026	J 0 0049	J 0 0049
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	NA	6 86	6 93	7 24
TSS	TSS	30	45	NA	< 3	< 3	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	NA	2 7	3 1	3 1
Oil & Grease (total)	O&G	10	10	NA	< 5	< 5	2 6
BOD	BOD	monitor	monitor	NA	< 2	< 2	< 2
Pesticides (ug/L)							
Endrin Ketone	53494-70-5	---	---	NA	< 0 1	< 0 02	< 0 02
Alpha Chlordane	5103-71-9	---	---	NA	< 0 1	< 0 02	< 0 02
Gamma Chlordane	5103-74-2	---	---	NA	< 0 1	< 0 02	< 0 02
Alpha BHC	319-84-6	---	---	NA	< 0 1	< 0 02	< 0 02
Beta BHC	319-85-7	---	---	NA	< 0 1	< 0 02	< 0 02
Gamma BHC-Lindane	58-89-9	---	---	NA	< 0 1	< 0 02	< 0 02
Delta BHC	319-86-8	---	---	NA	< 0 1	< 0 02	< 0 02
Heptachlor	76-44-8	0 00331	monitor	NA	< 0 1	< 0 02	< 0 02
Aldrin	309-00-2	0.000884	monitor	NA	< 0 1	< 0 02	< 0 02
Heptachlor Epoxide	1024-57-3	---	---	NA	< 0 1	< 0 02	< 0 02
p,p-DDE	72-55-9	---	---	NA	< 0 1	< 0 02	< 0 02
p,p-DDD	72-54-8	---	---	NA	< 0 1	< 0 02	< 0 02
p,p-DDT	50-29-3	0.000227	monitor	NA	< 0 1	< 0 02	< 0 02
Dieldrin	60-57-1	---	---	NA	< 0 1	< 0 02	< 0 02
Endrin	72-20-8	---	---	NA	< 0 1	< 0 02	< 0 02
Toxaphene	8001-35-2	---	---	NA	< 20	< 4	< 4
Endosulfan II	33213-65-9	---	---	NA	< 0 1	< 0 02	< 0 02
Endosulfan I	959-98-8	---	---	NA	< 0 1	< 0 02	< 0 02
Endosulfan Sulfate	1031-07-8	---	---	NA	< 0 1	< 0 02	< 0 02
Endrin Aldehyde	7421-93-4	---	---	NA	< 0 1	< 0 02	< 0 02
Methoxychlor	72-43-5	---	---	NA	< 0 1	< 0 02	< 0 02
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	NA	< 0 2	< 0 2	< 0 2
PCB-1221	11104-28-2	---	---	NA	< 0 2	< 0 2	< 0 2
PCB-1232	11141-16-5	---	---	NA	< 0 2	< 0 2	< 0 2
PCB-1242	53469-21-9	---	---	NA	< 0 2	< 0 2	< 0 2
PCB-1248	12672-29-6	---	---	NA	< 0 2	< 0 2	< 0 2
PCB-1254	11097-69-1	---	---	NA	0 067	J < 0 2	< 0 2
PCB-1260	11096-82-5	---	---	NA	< 0 2	< 0 2	< 0 2
TOTAL PCBS		0 000967	monitor		0	0	0

Attachment A

2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit		December-15	January-16	February-16	March-16
		Discharge Limits					
		30 Day Avg.	Daily Max				
		12/1/2015	1/6/2016	2/4/2016	3/17/2016		
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	NA	< 5	< 5	< 5
2-Methylnaphthalene	91-57-6	---	---	NA	< 5	< 5	< 5
2-Nitroaniline	88-74-4	---	---	NA	< 5	< 5	< 5
2,4,5-Trichlorophenol	95-95-4	---	---	NA	< 5	< 5	< 5
2-Chlorophenol	95-57-8	---	---	NA	< 5	< 5	< 5
Phenol	108-95-2	monitor	monitor	NA	< 5	< 5	< 5
2-Nitrophenol	88-75-5	---	---	NA	< 5	< 5	< 5
2,4-Dimethylphenol	105-67-9	---	---	NA	< 5	< 5	< 5
2,4-Dichlorophenol	120-83-2	---	---	NA	< 5	< 5	< 5
4-Chloro-3-methylphenol	59-50-7	---	---	NA	< 5	< 5	< 5
2,4,6-Trichlorophenol	88-06-2	---	---	NA	< 5	< 5	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	NA	< 5	< 5	< 5
1,3-Dichlorobenzene	541-73-1	---	---	NA	< 5	< 5	< 5
1,4-Dichlorobenzene	106-46-7	---	---	NA	< 5	< 5	< 5
1,2-Dichlorobenzene	95-50-1	---	---	NA	< 5	< 5	< 5
Hexachloroethane	67-72-1	---	---	NA	< 5	< 5	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	NA	< 5	< 5	< 5
Nitrobenzene	98-95-3	---	---	NA	< 5	< 5	< 5
Isophorone	78-59-1	---	---	NA	< 5	< 5	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	NA	< 5	< 5	< 5
1,2,4-Trichlorobenzene	120-82-1	---	---	NA	< 5	< 5	< 5
Hexachlorobutadiene	87-68-3	---	---	NA	< 5	< 5	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	NA	< 5	< 5	< 5
2-Chloronaphthalene	91-58-7	---	---	NA	< 5	< 5	< 5
Dimethylphthalate	131-11-3	monitor	monitor	NA	< 5	< 5	< 5
2-methylphenol	95-48-7	---	---	NA	< 5	< 5	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	NA	< 5	< 5	< 5
4-methylphenol (total)	106-44-5	monitor	140	NA	< 5	< 5	< 5
Dibenzofuran	132-64-9	---	---	NA	< 5	< 5	< 5
3-Nitroaniline	99-09-2	---	---	NA	< 5	< 5	< 5
4-Nitroaniline	100-01-6	---	---	NA	< 5	< 5	< 5
2,4-Dinitrophenol	51-28-5	---	---	NA	< 5	< 5	< 5
4-Nitrophenol	100-02-7	---	---	NA	< 5	< 5	< 5
4,6-Dinitro-2-methylphenol	534-52-1	---	---	NA	< 5	< 5	< 5
Pentachlorophenol (total)	87-86-5	monitor	3 5	NA	< 5	< 5	< 5
2,6-Dinitrotoluene	606-20-2	---	---	NA	< 5	< 5	< 5
2,4-Dinitrotoluene	121-14-2	---	---	NA	< 5	< 5	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	NA	< 5	< 5	< 5
Diethylphthalate	84-66-2	monitor	2600	NA	< 5	< 5	< 5
N-nitrosodiphenylamine	86-30-6	---	---	NA	< 5	< 5	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	NA	< 5	< 5	< 5
Hexachlorobenzene	118-74-1	---	---	NA	< 5	< 5	< 5
di-n-butylphthalate	84-74-2	monitor	350	NA	0 89 J	0 35 J	< 5
Butylbenzylphthalate	85-68-7	---	---	NA	< 5	< 5	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	NA	< 5	< 5	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	NA	< 5	< 5	< 5
Di-n-octylphthalate	117-84-0	---	---	NA	< 5	< 5	< 5
Carbazole	86-74-8	---	---	NA	< 5	< 5	< 5

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		December-15 12/1/2015	January-16 1/6/2016	February-16 2/4/2016	March-16 3/17/2016
		Discharge Limits					
		30 Day Avg	Daily Max.				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	NA	< 5	< 5	< 5
Acenaphthylene	208-96-8	---	---	NA	< 5	< 5	< 5
Anthracene	120-12-7	---	---	NA	< 5	< 5	< 5
Fluorene	86-73-7	---	---	NA	< 5	< 5	< 5
Phenanthrene	85-01-8	---	---	NA	< 5	< 5	< 5
Acenaphthene	83-32-9	monitor	67	NA	< 5	< 5	< 5
Benzo (a) pyrene	50-32-8	---	---	NA	< 5	< 5	< 5
Chrysene	218-01-9	---	---	NA	< 5	< 5	< 5
Fluoranthene	206-44-0	66	200	NA	< 5	< 5	< 5
Pyrene	129-00-0	---	---	NA	< 5	< 5	< 5
Benzo (a) anthracene	56-55-3	---	---	NA	< 5	< 5	< 5
Benzo (k) flouranthene	207-08-9	---	---	NA	< 5	< 5	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	NA	< 5	< 5	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	NA	< 5	< 5	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	NA	< 5	< 5	< 5
Benzo (b) flouranthene	205-99-2	---	---	NA	< 5	< 5	< 5
Total PAHs		0.376	monitor	NA	0	0	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	NA	< 1	< 1	14
Vinyl Chloride	75-01-4	---	---	NA	< 1	< 1	< 1
Bromomethane	74-83-9	---	---	NA	< 1	< 1	< 1
Chloroethane	75-00-3	---	---	NA	< 1	< 1	< 1
1,1-Dichloroethene	75-35-4	---	---	NA	< 1	< 1	< 1
Methylene Chloride	75-09-2	---	---	NA	< 5	< 5	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	NA	< 1	< 1	< 1
1,1-Dichloroethane	75-34-3	---	---	NA	< 1	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	NA	< 1	< 1	< 1
Chloroform	67-66-3	---	---	NA	< 1	< 1	< 1
1,1,1-Trichloroethane	71-55-6	---	---	NA	< 1	< 1	< 1
Carbon Tetrachloride	56-23-5	---	---	NA	< 1	< 1	< 1
Benzene	71-43-2	57	134	NA	< 1	< 1	< 1
1,2-Dichloroethane	107-06-2	180	574	NA	< 1	< 1	< 1
Trichloroethene	79-01-6	---	---	NA	< 1	< 1	< 1
1,2-Dichloropropane	78-87-5	---	---	NA	< 1	< 1	< 1
Bromodichloromethane	75-27-4	---	---	NA	< 1	< 1	< 1
Toluene	108-88-3	28	74	NA	< 1	< 1	< 1
1,1,2-Trichloroethane	79-00-5	---	---	NA	< 1	< 1	< 1
Tetrachloroethene	127-18-4	52	164	NA	< 1	< 1	< 1
Dibromochloromethane	124-48-1	---	---	NA	< 1	< 1	< 1
Chlorobenzene	108-90-7	---	---	NA	< 1	< 1	< 1
Ethylbenzene	100-41-4	142	380	NA	< 1	< 1	< 1
Styrene	100-42-5	monitor	1300	NA	< 1	< 1	< 1
Bromoform	75-25-2	---	---	NA	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	NA	< 1	< 1	< 1
Acetone (total)	67-64-1	monitor	550	NA	< 10	< 10	< 10
Carbon Disulfide	75-15-0	---	---	NA	< 1	< 1	< 1
2-Butanone	78-93-3	---	---	NA	< 5	< 5	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	NA	< 1	< 1	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	NA	< 1	< 1	< 1
4-Methyl-2-pentanone	108-10-1	---	---	NA	< 5	< 5	< 5
2-Hexanone	591-78-6	---	---	NA	< 5	< 5	< 5
Total Xylene	1330-20-7	---	---	NA	< 3	< 3	< 3

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

J - Analyte is present at an estimated concentration between the MDL and Report Limit

X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

Attachment A

2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit		November-15 11/19/2015	December-15 12/1/2015	January-16 1/6/2016	February-16 2/4/2016
		Discharge Limits					
		30 Day Avg.	Daily Max.				
Metals (mg/L)							
Mercury	7439-97-6	0.00013	0.0011	< 0.0002	NA	< 0.0002	< 0.0002
Antimony	7440-36-0	monitor	monitor	< 0.005	NA	< 0.005	< 0.005
Chromium	7440-47-3	0.119	2.6	0.00075 JX	NA	< 0.005	< 0.005
Copper	7440-50-8	monitor	0.027	0.013 X	NA	0.012	0.015
Lead	7439-92-1	0.121	0.23	0.00024 J	NA	0.0033 J	< 0.005
Nickel	7440-02-0	0.24	2.3	0.0063	NA	0.007	0.007
Zinc	7440-66-6	monitor	0.17	0.049	NA	0.44	0.056
Arsenic	7440-38-2	0.122	0.36	< 0.005	NA	0.001 J	< 0.005
Beryllium	7440-41-7	0.00142	1	< 0.002	NA	< 0.002	< 0.002
Cadmium	7440-43-9	monitor	0.0089	< 0.0002	NA	< 0.0002	< 0.0002
Silver	7440-22-4	monitor	0.0034	< 0.005	NA	< 0.005	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	0.0023 J	NA	0.0026 J	0.0049 J
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	6.94	NA	6.86	6.93
TSS	TSS	30	45	< 3	NA	< 3	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	2.9	NA	2.7	3.1
Oil & Grease (total)	O&G	10	10	< 5	NA	< 5	< 5
BOD	BOD	monitor	monitor	< 2	NA	< 2	< 2
Pesticides (ug/L)							
Endrin Ketone	53494-70-5	---	---	< 0.02	NA	< 0.1	< 0.02
Alpha Chlordane	5103-71-9	---	---	< 0.02	NA	< 0.1	< 0.02
Gamma Chlordane	5103-74-2	---	---	< 0.02	NA	< 0.1	< 0.02
Alpha BHC	319-84-6	---	---	< 0.02	NA	< 0.1	< 0.02
Beta BHC	319-85-7	---	---	< 0.02	NA	< 0.1	< 0.02
Gamma BHC-Lindane	58-89-9	---	---	< 0.02	NA	< 0.1	< 0.02
Delta BHC	319-86-8	---	---	< 0.02	NA	< 0.1	< 0.02
Heptachlor	76-44-8	0.00331	monitor	< 0.02	NA	< 0.1	< 0.02
Aldrin	309-00-2	0.000884	monitor	< 0.02	NA	< 0.1	< 0.02
Heptachlor Epoxide	1024-57-3	---	---	< 0.02	NA	< 0.1	< 0.02
p,p-DDE	72-55-9	---	---	< 0.02	NA	< 0.1	< 0.02
p,p-DDD	72-54-8	---	---	< 0.02	NA	< 0.1	< 0.02
p,p-DDT	50-29-3	0.000227	monitor	< 0.02	NA	< 0.1	< 0.02
Dieldrin	60-57-1	---	---	< 0.02	NA	< 0.1	< 0.02
Endrin	72-20-8	---	---	< 0.02	NA	< 0.1	< 0.02
Toxaphene	8001-35-2	---	---	< 4	NA	< 20	< 4
Endosulfan II	33213-65-9	---	---	< 0.02	NA	< 0.1	< 0.02
Endosulfan I	959-98-8	---	---	< 0.02	NA	< 0.1	< 0.02
Endosulfan Sulfate	1031-07-8	---	---	< 0.02	NA	< 0.1	< 0.02
Endrin Aldehyde	7421-93-4	---	---	< 0.02	NA	< 0.1	< 0.02
Methoxychlor	72-43-5	---	---	< 0.02	NA	< 0.1	< 0.02
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0.2	NA	< 0.2	< 0.2
PCB-1221	11104-28-2	---	---	< 0.2	NA	< 0.2	< 0.2
PCB-1232	11141-16-5	---	---	< 0.2	NA	< 0.2	< 0.2
PCB-1242	53469-21-9	---	---	< 0.2	NA	< 0.2	< 0.2
PCB-1248	12672-29-6	---	---	< 0.2	NA	< 0.2	< 0.2
PCB-1254	11097-69-1	---	---	< 0.2	NA	0.067 J	< 0.2
PCB-1260	11096-82-5	---	---	< 0.2	NA	< 0.2	< 0.2
TOTAL PCBs		0.000967	monitor	0		0	0

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		November-15 11/19/2015	December-15 12/1/2015	January-16 1/6/2016	February-16 2/4/2016
		Discharge Limits					
		30 Day Avg.	Daily Max				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 5	NA	< 5	< 5
2-Methylnaphthalene	91-57-6	---	---	< 5	NA	< 5	< 5
2-Nitroaniline	88-74-4	---	---	< 5	NA	< 5	< 5
2,4,5-Trichlorophenol	95-95-4	---	---	< 5	NA	< 5	< 5
2-Chlorophenol	95-57-8	---	---	< 5	NA	< 5	< 5
Phenol	108-95-2	monitor	monitor	< 5	NA	< 5	< 5
2-Nitrophenol	88-75-5	---	---	< 5	NA	< 5	< 5
2,4-Dimethylphenol	105-67-9	---	---	< 5	NA	< 5	< 5
2,4-Dichlorophenol	120-83-2	---	---	< 5	NA	< 5	< 5
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	NA	< 5	< 5
2,4,6-Trichlorophenol	88-06-2	---	---	< 5	NA	< 5	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	NA	< 5	< 5
1,3-Dichlorobenzene	541-73-1	---	---	< 5	NA	< 5	< 5
1,4-Dichlorobenzene	106-46-7	---	---	< 5	NA	< 5	< 5
1,2-Dichlorobenzene	95-50-1	---	---	< 5	NA	< 5	< 5
Hexachloroethane	67-72-1	---	---	< 5	NA	< 5	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	NA	< 5	< 5
Nitrobenzene	98-95-3	---	---	< 5	NA	< 5	< 5
Isophorone	78-59-1	---	---	< 5	NA	< 5	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	NA	< 5	< 5
1,2,4-Trichlorobenzene	120-82-1	---	---	< 5	NA	< 5	< 5
Hexachlorobutadiene	87-68-3	---	---	< 5	NA	< 5	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	< 5	NA	< 5	< 5
2-Chloronaphthalene	91-58-7	---	---	< 5	NA	< 5	< 5
Dimethylphthalate	131-11-3	monitor	monitor	< 5	NA	< 5	< 5
2-methylphenol	95-48-7	---	---	< 5	NA	< 5	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 5	NA	< 5	< 5
4-methylphenol (total)	106-44-5	monitor	140	< 5	NA	< 5	< 5
Dibenzofuran	132-64-9	---	---	< 5	NA	< 5	< 5
3-Nitroaniline	99-09-2	---	---	< 5	NA	< 5	< 5
4-Nitroaniline	100-01-6	---	---	< 5	NA	< 5	< 5
2,4-Dinitrophenol	51-28-5	---	---	< 5	NA	< 5	< 5
4-Nitrophenol	100-02-7	---	---	< 5	NA	< 5	< 5
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 5	NA	< 5	< 5
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	NA	< 5	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 5	NA	< 5	< 5
2,4-Dinitrotoluene	121-14-2	---	---	< 5	NA	< 5	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	NA	< 5	< 5
Diethylphthalate	84-66-2	monitor	2600	< 5	NA	< 5	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 5	NA	< 5	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	NA	< 5	< 5
Hexachlorobenzene	118-74-1	---	---	< 5	NA	< 5	< 5
di-n-butylphthalate	84-74-2	monitor	350	< 5	NA	0.89 J	0.35 J
Butylbenzylphthalate	85-68-7	---	---	< 5	NA	< 5	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	NA	< 5	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	NA	< 5	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	NA	< 5	< 5
Carbazole	86-74-8	---	---	< 5	NA	< 5	< 5

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		November-15 11/19/2015	December-15 12/1/2015	January-16 1/6/2016	February-16 2/4/2016
		Discharge Limits					
		30 Day Avg.	Daily Max.				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 5	NA	< 5	< 5
Acenaphthylene	208-96-8	---	---	< 5	NA	< 5	< 5
Anthracene	120-12-7	---	---	< 5	NA	< 5	< 5
Fluorene	86-73-7	---	---	< 5	NA	< 5	< 5
Phenanthrene	85-01-8	---	---	< 5	NA	< 5	< 5
Acenaphthene	83-32-9	monitor	67	< 5	NA	< 5	< 5
Benzo (a) pyrene	50-32-8	---	---	< 5	NA	< 5	< 5
Chrysene	218-01-9	---	---	< 5	NA	< 5	< 5
Fluoranthene	206-44-0	66	200	< 5	NA	< 5	< 5
Pyrene	129-00-0	---	---	< 5	NA	< 5	< 5
Benzo (a) anthracene	56-55-3	---	---	< 5	NA	< 5	< 5
Benzo (k) flouranthene	207-08-9	---	---	< 5	NA	< 5	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	NA	< 5	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	NA	< 5	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	NA	< 5	< 5
Benzo (b) flouranthene	205-99-2	---	---	< 5	NA	< 5	< 5
Total PAHs		0 376	monitor	0	NA	0	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 1	NA	< 1	< 1
Vinyl Chloride	75-01-4	---	---	< 1	NA	< 1	< 1
Bromomethane	74-83-9	---	---	< 1	NA	< 1	< 1
Chloroethane	75-00-3	---	---	< 1	NA	< 1	< 1
1,1-Dichloroethene	75-35-4	---	---	< 1	NA	< 1	< 1
Methylene Chloride	75-09-2	---	---	< 5	NA	< 5	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	NA	< 1	< 1
1,1-Dichloroethane	75-34-3	---	---	< 1	NA	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	NA	< 1	< 1
Chloroform	67-66-3	---	---	< 1	NA	< 1	< 1
1,1,1-Trichloroethane	71-55-6	---	---	< 1	NA	< 1	< 1
Carbon Tetrachloride	56-23-5	---	---	< 1	NA	< 1	< 1
Benzene	71-43-2	57	134	< 1	NA	< 1	< 1
1,2-Dichloroethane	107-06-2	180	574	< 1	NA	< 1	< 1
Trichloroethene	79-01-6	---	---	< 1	NA	< 1	< 1
1,2-Dichloropropane	78-87-5	---	---	< 1	NA	< 1	< 1
Bromodichloromethane	75-27-4	---	---	< 1	NA	< 1	< 1
Toluene	108-88-3	28	74	< 1	NA	< 1	< 1
1,1,2-Trichloroethane	79-00-5	---	---	< 1	NA	< 1	< 1
Tetrachloroethene	127-18-4	52	164	< 1	NA	< 1	< 1
Dibromochloromethane	124-48-1	---	---	< 1	NA	< 1	< 1
Chlorobenzene	108-90-7	---	---	< 1	NA	< 1	< 1
Ethylbenzene	100-41-4	142	380	< 1	NA	< 1	< 1
Styrene	100-42-5	monitor	1300	< 1	NA	< 1	< 1
Bromoform	75-25-2	---	---	< 1	NA	< 1	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	NA	< 1	< 1
Acetone (total)	67-64-1	monitor	550	< 10	NA	< 10	< 10
Carbon Disulfide	75-15-0	---	---	< 1	NA	< 1	< 1
2-Butanone	78-93-3	---	---	< 5	NA	< 5	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	NA	< 1	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	NA	< 1	< 1
4-Methyl-2-pentanone	108-10-1	---	---	< 5	NA	< 5	< 5
2-Hexanone	591-78-6	---	---	< 5	NA	< 5	< 5
Total Xylene	1330-20-7	---	---	< 3	NA	< 3	< 3

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

J - Analyte is present at an estimated concentration between the MDL and Report Limit

X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

Attachment A

2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit Discharge Limits		October-15	November-15	December-15	January-16
		30 Day Avg.	Daily Max.	10/1/2015	11/19/2015	12/1/2015	1/6/2016
Metals (mg/L)							
Mercury	7439-97-6	0.000013	0.0011	NA	< 0.0002	NA	< 0.0002
Antimony	7440-36-0	monitor	monitor	NA	< 0.005	NA	< 0.005
Chromium	7440-47-3	0.119	2.6	NA	0.00075 JX	NA	< 0.005
Copper	7440-50-8	monitor	0.027	NA	0.013 X	NA	0.012
Lead	7439-92-1	0.121	0.23	NA	0.00024 J	NA	0.0033 J
Nickel	7440-02-0	0.24	2.3	NA	0.0063	NA	0.007
Zinc	7440-66-6	monitor	0.17	NA	0.049	NA	0.44
Arsenic	7440-38-2	0.122	0.36	NA	< 0.005	NA	0.001 J
Beryllium	7440-41-7	0.00142	1	NA	< 0.002	NA	< 0.002
Cadmium	7440-43-9	monitor	0.0089	NA	< 0.0002	NA	< 0.0002
Silver	7440-22-4	monitor	0.0034	NA	< 0.005	NA	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	NA	0.0023 J	NA	0.0026 J
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	NA	6.94	NA	6.86
TSS	TSS	30	45	NA	< 3	NA	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	NA	2.9	NA	2.7
Oil & Grease (total)	O&G	10	10	NA	< 5	NA	< 5
BOD	BOD	monitor	monitor	NA	< 2	NA	< 2
Pesticides (ug/L)							
Endrin Ketone	53494-70-5	---	---	NA	< 0.02	NA	< 0.1
Alpha Chlordane	5103-71-9	---	---	NA	< 0.02	NA	< 0.1
Gamma Chlordane	5103-74-2	---	---	NA	< 0.02	NA	< 0.1
Alpha BHC	319-84-6	---	---	NA	< 0.02	NA	< 0.1
Beta BHC	319-85-7	---	---	NA	< 0.02	NA	< 0.1
Gamma BHC-Lindane	58-89-9	---	---	NA	< 0.02	NA	< 0.1
Delta BHC	319-86-8	---	---	NA	< 0.02	NA	< 0.1
Heptachlor	76-44-8	0.00331	monitor	NA	< 0.02	NA	< 0.1
Aldrin	309-00-2	0.000884	monitor	NA	< 0.02	NA	< 0.1
Heptachlor Epoxide	1024-57-3	---	---	NA	< 0.02	NA	< 0.1
p,p-DDE	72-55-9	---	---	NA	< 0.02	NA	< 0.1
p,p-DDD	72-54-8	---	---	NA	< 0.02	NA	< 0.1
p,p-DDT	50-29-3	0.000227	monitor	NA	< 0.02	NA	< 0.1
Dieldrin	60-57-1	---	---	NA	< 0.02	NA	< 0.1
Endrin	72-20-8	---	---	NA	< 0.02	NA	< 0.1
Toxaphene	8001-35-2	---	---	NA	< 4	NA	< 20
Endosulfan II	33213-65-9	---	---	NA	< 0.02	NA	< 0.1
Endosulfan I	959-98-8	---	---	NA	< 0.02	NA	< 0.1
Endosulfan Sulfate	1031-07-8	---	---	NA	< 0.02	NA	< 0.1
Endrin Aldehyde	7421-93-4	---	---	NA	< 0.02	NA	< 0.1
Methoxychlor	72-43-5	---	---	NA	< 0.02	NA	< 0.1
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	NA	< 0.2	NA	< 0.2
PCB-1221	11104-28-2	---	---	NA	< 0.2	NA	< 0.2
PCB-1232	11141-16-5	---	---	NA	< 0.2	NA	< 0.2
PCB-1242	53469-21-9	---	---	NA	< 0.2	NA	< 0.2
PCB-1248	12672-29-6	---	---	NA	< 0.2	NA	< 0.2
PCB-1254	11097-69-1	---	---	NA	< 0.2	NA	0.067 J
PCB-1260	11096-82-5	---	---	NA	< 0.2	NA	< 0.2
TOTAL PCBs		0.000967	monitor		0		0

**Attachment A 2016 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		October-15	November-15	December-15	January-16
		Discharge Limits		10/1/2015	11/19/2015	12/1/2015	1/6/2016
		30 Day Avg.	Daily Max.				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	NA	< 5	NA	< 5
2-Methylnaphthalene	91-57-6	---	---	NA	< 5	NA	< 5
2-Nitroaniline	88-74-4	---	---	NA	< 5	NA	< 5
2,4,5-Trichlorophenol	95-95-4	---	---	NA	< 5	NA	< 5
2-Chlorophenol	95-57-8	---	---	NA	< 5	NA	< 5
Phenol	108-95-2	monitor	monitor	NA	< 5	NA	< 5
2-Nitrophenol	88-75-5	---	---	NA	< 5	NA	< 5
2,4-Dimethylphenol	105-67-9	---	---	NA	< 5	NA	< 5
2,4-Dichlorophenol	120-83-2	---	---	NA	< 5	NA	< 5
4-Chloro-3-methylphenol	59-50-7	---	---	NA	< 5	NA	< 5
2,4,6-Trichlorophenol	88-06-2	---	---	NA	< 5	NA	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	NA	< 5	NA	< 5
1,3-Dichlorobenzene	541-73-1	---	---	NA	< 5	NA	< 5
1,4-Dichlorobenzene	106-46-7	---	---	NA	< 5	NA	< 5
1,2-Dichlorobenzene	95-50-1	---	---	NA	< 5	NA	< 5
Hexachloroethane	67-72-1	---	---	NA	< 5	NA	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	NA	< 5	NA	< 5
Nitrobenzene	98-95-3	---	---	NA	< 5	NA	< 5
Isophorone	78-59-1	---	---	NA	< 5	NA	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	NA	< 5	NA	< 5
1,2,4-Trichlorobenzene	120-82-1	---	---	NA	< 5	NA	< 5
Hexachlorobutadiene	87-68-3	---	---	NA	< 5	NA	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	NA	< 5	NA	< 5
2-Chloronaphthalene	91-58-7	---	---	NA	< 5	NA	< 5
Dimethylphthalate	131-11-3	monitor	monitor	NA	< 5	NA	< 5
2-methylphenol	95-48-7	---	---	NA	< 5	NA	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	NA	< 5	NA	< 5
4-methylphenol (total)	106-44-5	monitor	140	NA	< 5	NA	< 5
Dibenzofuran	132-64-9	---	---	NA	< 5	NA	< 5
3-Nitroaniline	99-09-2	---	---	NA	< 5	NA	< 5
4-Nitroaniline	100-01-6	---	---	NA	< 5	NA	< 5
2,4-Dinitrophenol	51-28-5	---	---	NA	< 5	NA	< 5
4-Nitrophenol	100-02-7	---	---	NA	< 5	NA	< 5
4,6-Dinitro-2-methylphenol	534-52-1	---	---	NA	< 5	NA	< 5
Pentachlorophenol (total)	87-86-5	monitor	3.5	NA	< 5	NA	< 5
2,6-Dinitrotoluene	606-20-2	---	---	NA	< 5	NA	< 5
2,4-Dinitrotoluene	121-14-2	---	---	NA	< 5	NA	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	NA	< 5	NA	< 5
Diethylphthalate	84-66-2	monitor	2600	NA	< 5	NA	< 5
N-nitrosodiphenylamine	86-30-6	---	---	NA	< 5	NA	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	NA	< 5	NA	< 5
Hexachlorobenzene	118-74-1	---	---	NA	< 5	NA	< 5
di-n-butylphthalate	84-74-2	monitor	350	NA	< 5	NA	0.89 J
Butylbenzylphthalate	85-68-7	---	---	NA	< 5	NA	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	NA	< 5	NA	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	NA	< 5	NA	< 5
Di-n-octylphthalate	117-84-0	---	---	NA	< 5	NA	< 5
Carbazole	86-74-8	---	---	NA	< 5	NA	< 5

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Parameter	Cas No.	Draft Permit		October-15	November-15	December-15	January-16
		Discharge Limits		10/1/2015	11/19/2015	12/1/2015	1/6/2016
		30 Day Avg.	Daily Max.				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	NA	< 5	NA	< 5
Acenaphthylene	208-96-8	---	---	NA	< 5	NA	< 5
Anthracene	120-12-7	---	---	NA	< 5	NA	< 5
Fluorene	86-73-7	---	---	NA	< 5	NA	< 5
Phenanthrene	85-01-8	---	---	NA	< 5	NA	< 5
Acenaphthene	83-32-9	monitor	67	NA	< 5	NA	< 5
Benzo (a) pyrene	50-32-8	---	---	NA	< 5	NA	< 5
Chrysene	218-01-9	---	---	NA	< 5	NA	< 5
Fluoranthene	206-44-0	66	200	NA	< 5	NA	< 5
Pyrene	129-00-0	---	---	NA	< 5	NA	< 5
Benzo (a) anthracene	56-55-3	---	---	NA	< 5	NA	< 5
Benzo (k) flouranthene	207-08-9	---	---	NA	< 5	NA	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	NA	< 5	NA	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	NA	< 5	NA	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	NA	< 5	NA	< 5
Benzo (b) flouranthene	205-99-2	---	---	NA	< 5	NA	< 5
Total PAHs		0 376	monitor	NA	0	NA	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	NA	< 1	NA	< 1
Vinyl Chloride	75-01-4	---	---	NA	< 1	NA	< 1
Bromomethane	74-83-9	---	---	NA	< 1	NA	< 1
Chloroethane	75-00-3	---	---	NA	< 1	NA	< 1
1,1-Dichloroethane	75-35-4	---	---	NA	< 1	NA	< 1
Methylene Chloride	75-09-2	---	---	NA	< 5	NA	< 5
Trans-1,2-Dichloroethane	156-60-5	---	---	NA	< 1	NA	< 1
1,1-Dichloroethane	75-34-3	---	---	NA	< 1	NA	< 1
cis-1,2-Dichloroethane	156-59-2	---	---	NA	< 1	NA	< 1
Chloroform	67-66-3	---	---	NA	< 1	NA	< 1
1,1,1-Trichloroethane	71-55-6	---	---	NA	< 1	NA	< 1
Carbon Tetrachloride	56-23-5	---	---	NA	< 1	NA	< 1
Benzene	71-43-2	57	134	NA	< 1	NA	< 1
1,2-Dichloroethane	107-06-2	180	574	NA	< 1	NA	< 1
Trichloroethane	79-01-6	---	---	NA	< 1	NA	< 1
1,2-Dichloropropane	78-87-5	---	---	NA	< 1	NA	< 1
Bromodichloromethane	75-27-4	---	---	NA	< 1	NA	< 1
Toluene	108-88-3	28	74	NA	< 1	NA	< 1
1,1,2-Trichloroethane	79-00-5	---	---	NA	< 1	NA	< 1
Tetrachloroethane	127-18-4	52	164	NA	< 1	NA	< 1
Dibromochloromethane	124-48-1	---	---	NA	< 1	NA	< 1
Chlorobenzene	108-90-7	---	---	NA	< 1	NA	< 1
Ethylbenzene	100-41-4	142	380	NA	< 1	NA	< 1
Styrene	100-42-5	monitor	1300	NA	< 1	NA	< 1
Bromoform	75-25-2	---	---	NA	< 1	NA	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	NA	< 1	NA	< 1
Acetone (total)	67-64-1	monitor	550	NA	< 10	NA	< 10
Carbon Disulfide	75-15-0	---	---	NA	< 1	NA	< 1
2-Butanone	78-93-3	---	---	NA	< 5	NA	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	NA	< 1	NA	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	NA	< 1	NA	< 1
4-Methyl-2-pentanone	108-10-1	---	---	NA	< 5	NA	< 5
2-Hexanone	591-78-6	---	---	NA	< 5	NA	< 5
Total Xylene	1330-20-7	---	---	NA	< 3	NA	< 3

Notes

--- indicates no Established Effluent Criteria

NA - Not Analyzed

J - Analyte is present at an estimated concentration between the MDL and Report Limit

X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

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Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		September-15	October-15	November-15	December-15
		30 Day Avg	Daily Max	9/1/2015	10/1/2015	11/19/2015	12/1/2015
Metals (mg/L)							
Mercury	7439-97-6	0 000013	0.0011	< 0 0002	NA	< 0 0002	NA
Antimony	7440-36-0	monitor	monitor	< 0 005	NA	< 0 005	NA
Chromium	7440-47-3	0 119	2 6	< 0 005	NA	0 00075 JX	NA
Copper	7440-50-8	monitor	0.027	0 028	NA	0 013 X	NA
Lead	7439-92-1	0.121	0 23	0 00034 J	NA	0 00024 J	NA
Nickel	7440-02-0	0.24	2.3	0 011	NA	0 0063	NA
Zinc	7440-66-6	monitor	0 17	0 074	NA	0 049	NA
Arsenic	7440-38-2	0 122	0 36	0 00074 J	NA	< 0 005	NA
Beryllium	7440-41-7	0 00142	1	< 0 002	NA	< 0 002	NA
Cadmium	7440-43-9	monitor	0 0089	< 0 0002	NA	< 0 0002	NA
Silver	7440-22-4	monitor	0 0034	< 0 005	NA	< 0 005	NA
Cyanide (free)	57-12-5	monitor	0.046	< 0 005	NA	0 0023 J	NA
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6 5	9	7 02	NA	6 94	NA
TSS	TSS	30	45	< 3	NA	< 3	NA
Ammonia Nitrogen	7664-41-7	monitor	monitor	2 9	NA	2 9	NA
Oil & Grease (total)	O&G	10	10	< 5	NA	< 5	NA
BOD	BOD	monitor	monitor	< 7 2	NA	< 2	NA
Pesticides (ug/L)							
Endrin Ketone	53494-70-5	---	---	< 0 02	NA	< 0 02	NA
Alpha Chlordane	5103-71-9	---	---	< 0 02	NA	< 0 02	NA
Gamma Chlordane	5103-74-2	---	---	< 0 02	NA	< 0 02	NA
Alpha BHC	319-84-6	---	---	< 0 02	NA	< 0 02	NA
Beta BHC	319-85-7	---	---	< 0 02	NA	< 0 02	NA
Gamma BHC-Lindane	58-89-9	---	---	< 0 02	NA	< 0 02	NA
Delta BHC	319-86-8	---	---	< 0 02	NA	< 0 02	NA
Heptachlor	76-44-8	0 00331	monitor	< 0 02	NA	< 0 02	NA
Aldrin	309-00-2	0 000884	monitor	< 0 02	NA	< 0 02	NA
Heptachlor Epoxide	1024-57-3	---	---	< 0 02	NA	< 0 02	NA
p,p-DDE	72-55-9	---	---	< 0 02	NA	< 0 02	NA
p,p-DDD	72-54-8	---	---	< 0 02	NA	< 0 02	NA
p,p-DDT	50-29-3	0 000227	monitor	< 0 02	NA	< 0 02	NA
Dieldrin	60-57-1	---	---	< 0 02	NA	< 0 02	NA
Endrin	72-20-8	---	---	< 0 02	NA	< 0 02	NA
Toxaphene	8001-35-2	---	---	< 4	NA	< 4	NA
Endosulfan II	33213-65-9	---	---	< 0 02	NA	< 0 02	NA
Endosulfan I	959-98-8	---	---	< 0 02	NA	< 0 02	NA
Endosulfan Sulfate	1031-07-8	---	---	< 0 02	NA	< 0 02	NA
Endrin Aldehyde	7421-93-4	---	---	< 0 02	NA	< 0 02	NA
Methoxychlor	72-43-5	---	---	< 0 02	NA	< 0 02	NA
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0 2	NA	< 0 2	NA
PCB-1221	11104-28-2	---	---	< 0 2	NA	< 0 2	NA
PCB-1232	11141-16-5	---	---	< 0 2	NA	< 0 2	NA
PCB-1242	53469-21-9	---	---	< 0 2	NA	< 0 2	NA
PCB-1248	12672-29-6	---	---	< 0 2	NA	< 0 2	NA
PCB-1254	11097-69-1	---	---	< 0 2	NA	< 0 2	NA
PCB-1260	11096-82-5	---	---	< 0 2	NA	< 0 2	NA
TOTAL PCBs		0 000967	monitor	0		0	

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		Discharge Limits					
		30 Day Avg.	Daily Max.				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 5	NA	< 5	NA
2-Methylnaphthalene	91-57-6	---	---	< 5	NA	< 5	NA
2-Nitroaniline	88-74-4	---	---	< 5	NA	< 5	NA
2,4,5-Trchlorophenol	95-95-4	---	---	< 5	NA	< 5	NA
2-Chlorophenol	95-57-8	---	---	< 5	NA	< 5	NA
Phenol	108-95-2	monitor	monitor	< 5	NA	< 5	NA
2-Nitrophenol	88-75-5	---	---	< 5	NA	< 5	NA
2,4-Dimethylphenol	105-67-9	---	---	< 5	NA	< 5	NA
2,4-Dichlorophenol	120-83-2	---	---	< 5	NA	< 5	NA
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	NA	< 5	NA
2,4,6-Trchlorophenol	88-06-2	---	---	< 5	NA	< 5	NA
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	NA	< 5	NA
1,3-Dichlorobenzene	541-73-1	---	---	< 5	NA	< 5	NA
1,4-Dichlorobenzene	106-46-7	---	---	< 5	NA	< 5	NA
1,2-Dichlorobenzene	95-50-1	---	---	< 5	NA	< 5	NA
Hexachloroethane	67-72-1	---	---	< 5	NA	< 5	NA
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	NA	< 5	NA
Nitrobenzene	98-95-3	---	---	< 5	NA	< 5	NA
Isophorone	78-59-1	---	---	< 5	NA	< 5	NA
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	NA	< 5	NA
1,2,4-Trchlorobenzene	120-82-1	---	---	< 5	NA	< 5	NA
Hexachlorobutadiene	87-68-3	---	---	< 5	NA	< 5	NA
Hexachlorocyclopentadiene	77-47-4	---	---	< 5	NA	< 5	NA
2-Chloronaphthalene	91-58-7	---	---	< 5	NA	< 5	NA
Dimethylphthalate	131-11-3	monitor	monitor	< 5	NA	< 5	NA
2-methylphenol	95-48-7	---	---	< 5	NA	< 5	NA
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 5	NA	< 5	NA
4-methylphenol (total)	106-44-5	monitor	140	< 5	NA	< 5	NA
Dibenzofuran	132-64-9	---	---	< 5	NA	< 5	NA
3-Nitroaniline	99-09-2	---	---	< 5	NA	< 5	NA
4-Nitroaniline	100-01-6	---	---	< 5	NA	< 5	NA
2,4-Dinitrophenol	51-28-5	---	---	< 5	NA	< 5	NA
4-Nitrophenol	100-02-7	---	---	< 5	NA	< 5	NA
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 5	NA	< 5	NA
Pentachlorophenol (total)	87-86-5	monitor	3 5	< 5	NA	< 5	NA
2,6-Dinitrotoluene	606-20-2	---	---	< 5	NA	< 5	NA
2,4-Dinitrotoluene	121-14-2	---	---	< 5	NA	< 5	NA
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	NA	< 5	NA
Diethylphthalate	84-66-2	monitor	2600	< 5	NA	< 5	NA
N-nitrosodiphenylamine	86-30-6	---	---	< 5	NA	< 5	NA
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	NA	< 5	NA
Hexachlorobenzene	118-74-1	---	---	< 5	NA	< 5	NA
di-n-butylphthalate	84-74-2	monitor	350	< 5	NA	< 5	NA
Butylbenzylphthalate	85-68-7	---	---	< 5	NA	< 5	NA
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	NA	< 5	NA
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	NA	< 5	NA
Di-n-octylphthalate	117-84-0	---	---	< 5	NA	< 5	NA
Carbazole	86-74-8	---	---	< 5	NA	< 5	NA

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		Discharge Limits					
		30 Day Avg	Daily Max.				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 5	NA	< 5	NA
Acenaphthylene	208-96-8	---	---	< 5	NA	< 5	NA
Anthracene	120-12-7	---	---	< 5	NA	< 5	NA
Fluorene	86-73-7	---	---	< 5	NA	< 5	NA
Phenanthrene	85-01-8	---	---	< 5	NA	< 5	NA
Acenaphthene	83-32-9	monitor	67	< 5	NA	< 5	NA
Benzo (a) pyrene	50-32-8	---	---	< 5	NA	< 5	NA
Chrysene	218-01-9	---	---	< 5	NA	< 5	NA
Fluoranthene	206-44-0	66	200	< 5	NA	< 5	NA
Pyrene	129-00-0	---	---	< 5	NA	< 5	NA
Benzo (a) anthracene	56-55-3	---	---	< 5	NA	< 5	NA
Benzo (k) flouranthene	207-08-9	---	---	< 5	NA	< 5	NA
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	NA	< 5	NA
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	NA	< 5	NA
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	NA	< 5	NA
Benzo (b) flouranthene	205-99-2	---	---	< 5	NA	< 5	NA
Total PAHs		0 376	monitor	0	NA	0	NA
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 1	NA	< 1	NA
Vinyl Chloride	75-01-4	---	---	< 1	NA	< 1	NA
Bromomethane	74-83-9	---	---	< 1	NA	< 1	NA
Chloroethane	75-00-3	---	---	< 1	NA	< 1	NA
1,1-Dichloroethene	75-35-4	---	---	< 1	NA	< 1	NA
Methylene Chloride	75-09-2	---	---	< 5	NA	< 5	NA
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	NA	< 1	NA
1,1-Dichloroethane	75-34-3	---	---	< 1	NA	< 1	NA
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	NA	< 1	NA
Chloroform	67-66-3	---	---	< 1	NA	< 1	NA
1,1,1-Trichloroethane	71-55-6	---	---	< 1	NA	< 1	NA
Carbon Tetrachloride	56-23-5	---	---	< 1	NA	< 1	NA
Benzene	71-43-2	57	134	< 1	NA	< 1	NA
1,2-Dichloroethane	107-06-2	180	574	< 1	NA	< 1	NA
Trichloroethene	79-01-6	---	---	< 1	NA	< 1	NA
1,2-Dichloropropane	78-87-5	---	---	< 1	NA	< 1	NA
Bromodichloromethane	75-27-4	---	---	< 1	NA	< 1	NA
Toluene	108-88-3	28	74	< 1	NA	< 1	NA
1,1,2-Trichloroethane	79-00-5	---	---	< 1	NA	< 1	NA
Tetrachloroethene	127-18-4	52	164	< 1	NA	< 1	NA
Dibromochloromethane	124-48-1	---	---	< 1	NA	< 1	NA
Chlorobenzene	108-90-7	---	---	< 1	NA	< 1	NA
Ethylbenzene	100-41-4	142	380	< 1	NA	< 1	NA
Styrene	100-42-5	monitor	1300	< 1	NA	< 1	NA
Bromoform	75-25-2	---	---	< 1	NA	< 1	NA
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	NA	< 1	NA
Acetone (total)	67-64-1	monitor	550	< 10	NA	< 10	NA
Carbon Disulfide	75-15-0	---	---	< 1	NA	< 1	NA
2-Butanone	78-93-3	---	---	< 5	NA	< 5	NA
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	NA	< 1	NA
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	NA	< 1	NA
4-Methyl-2-pentanone	108-10-1	---	---	< 5	NA	< 5	NA
2-Hexanone	591-78-6	---	---	< 5	NA	< 5	NA
Total Xylene	1330-20-7	---	---	< 3	NA	< 3	NA

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

J - Analyte is present at an estimated concentration between the MDL and Report Limit

X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

Attachment A

2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit		August-15	September-15	October-15	November-15
		Discharge Limits		8/5/2015	9/1/2015	10/1/2015	11/19/2015
		30 Day Avg	Daily Max				
Metals (mg/L)							
Mercury	7439-97-6	0 000013	0 0011	< 0 0002	< 0 0002	NA	< 0 0002
Antimony	7440-36-0	monitor	monitor	< 0 005	< 0 005	NA	< 0 005
Chromium	7440-47-3	0 119	2 6	0 00024 J	< 0 005	NA	0 00075 JX
Copper	7440-50-8	monitor	0 027	0 037	0 028	NA	0 013 X
Lead	7439-92-1	0 121	0.23	0 00039 J	0 00034 J	NA	0 00024 J
Nickel	7440-02-0	0.24	2 3	0 015	0 011	NA	0 0063
Zinc	7440-66-6	monitor	0.17	0 058	0 074	NA	0 049
Arsenic	7440-38-2	0.122	0.36	0 00077 J	0 00074 J	NA	< 0 005
Beryllium	7440-41-7	0.00142	1	< 0 002	< 0 002	NA	< 0 002
Cadmium	7440-43-9	monitor	0.0089	< 0 0002	< 0 0002	NA	< 0 0002
Silver	7440-22-4	monitor	0 0034	< 0 005	< 0 005	NA	< 0 005
Cyanide (free)	57-12-5	monitor	0.046	< 0 005	< 0 005	NA	0 0023 J
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	7 41	7 02	NA	6 94
TSS	TSS	30	45	< 3	< 3	NA	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	2 8	2 9	NA	2 9
Oil & Grease (total)	O&G	10	10	1 6 J	< 5	NA	< 5
BOD	BOD	monitor	monitor	< 7 2	< 7 2	NA	< 2
Pesticides (ug/L)							
Endnn Ketone	53494-70-5	---	---	< 0 02	< 0 02	NA	< 0 02
Alpha Chlordane	5103-71-9	---	---	< 0 02	< 0 02	NA	< 0 02
Gamma Chlordane	5103-74-2	---	---	< 0 02	< 0 02	NA	< 0 02
Alpha BHC	319-84-6	---	---	< 0 02	< 0 02	NA	< 0 02
Beta BHC	319-85-7	---	---	< 0 02	< 0 02	NA	< 0 02
Gamma BHC-Lindane	58-89-9	---	---	< 0 02	< 0 02	NA	< 0 02
Delta BHC	319-86-8	---	---	< 0 02	< 0 02	NA	< 0 02
Heptachlor	76-44-8	0.00331	monitor	< 0 02	< 0 02	NA	< 0 02
Aldnn	309-00-2	0.000884	monitor	< 0 02	< 0 02	NA	< 0 02
Heptachlor Epoxide	1024-57-3	---	---	< 0 02	< 0 02	NA	< 0 02
p,p-DDE	72-55-9	---	---	< 0 02	< 0 02	NA	< 0 02
p,p-DDD	72-54-8	---	---	< 0 02	< 0 02	NA	< 0 02
p,p-DDT	50-29-3	0 000227	monitor	< 0 02	< 0 02	NA	< 0 02
Dieldnn	60-57-1	---	---	< 0 02	< 0 02	NA	< 0 02
Endnn	72-20-8	---	---	< 0 02	< 0 02	NA	< 0 02
Toxaphene	8001-35-2	---	---	< 4	< 4	NA	< 4
Endosulfan II	33213-65-9	---	---	< 0 02	< 0 02	NA	< 0 02
Endosulfan I	959-98-8	---	---	< 0 02	< 0 02	NA	< 0 02
Endosulfan Sulfate	1031-07-8	---	---	< 0 02	< 0 02	NA	< 0 02
Endnn Aldehyde	7421-93-4	---	---	< 0 02	< 0 02	NA	< 0 02
Methoxychlor	72-43-5	---	---	< 0 02	< 0 02	NA	< 0 02
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0 2	< 0 2	NA	< 0 2
PCB-1221	11104-28-2	---	---	< 0 2	< 0 2	NA	< 0 2
PCB-1232	11141-16-5	---	---	< 0 2	< 0 2	NA	< 0 2
PCB-1242	53469-21-9	---	---	< 0 2	< 0 2	NA	< 0 2
PCB-1248	12672-29-6	---	---	< 0 2	< 0 2	NA	< 0 2
PCB-1254	11097-69-1	---	---	< 0 2	< 0 2	NA	< 0 2
PCB-1260	11096-82-5	---	---	< 0 2	< 0 2	NA	< 0 2
TOTAL PCBs		0.000967	monitor	0	0		0

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		August-15 8/5/2015	September-15 9/1/2015	October-15 10/1/2015	November-15 11/19/2015
		Discharge Limits 30 Day Avg	Daily Max.				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 5	< 5	NA	< 5
2-Methylnaphthalene	91-57-6	---	---	< 5	< 5	NA	< 5
2-Nitroaniline	88-74-4	---	---	< 5	< 5	NA	< 5
2,4,5-Trchlorophenol	95-95-4	---	---	< 5	< 5	NA	< 5
2-Chlorophenol	95-57-8	---	---	< 5	< 5	NA	< 5
Phenol	108-95-2	monitor	monitor	< 5	< 5	NA	< 5
2-Nitrophenol	88-75-5	---	---	< 5	< 5	NA	< 5
2,4-Dimethylphenol	105-67-9	---	---	< 5	< 5	NA	< 5
2,4-Dichlorophenol	120-83-2	---	---	< 5	< 5	NA	< 5
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	< 5	NA	< 5
2,4,6-Trchlorophenol	88-06-2	---	---	< 5	< 5	NA	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	< 5	NA	< 5
1,3-Dichlorobenzene	541-73-1	---	---	< 5	< 5	NA	< 5
1,4-Dichlorobenzene	106-46-7	---	---	< 5	< 5	NA	< 5
1,2-Dichlorobenzene	95-50-1	---	---	< 5	< 5	NA	< 5
Hexachloroethane	67-72-1	---	---	< 5	< 5	NA	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	< 5	NA	< 5
Nitrobenzene	98-95-3	---	---	< 5	< 5	NA	< 5
Isophorone	78-59-1	---	---	< 5	< 5	NA	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	< 5	NA	< 5
1,2,4-Trchlorobenzene	120-82-1	---	---	< 5	< 5	NA	< 5
Hexachlorobutadiene	87-68-3	---	---	< 5	< 5	NA	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	< 5	< 5	NA	< 5
2-Chloronaphthalene	91-58-7	---	---	< 5	< 5	NA	< 5
Dimethylphthalate	131-11-3	monitor	monitor	< 5	< 5	NA	< 5
2-methylphenol	95-48-7	---	---	< 5	< 5	NA	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 5	< 5	NA	< 5
4-methylphenol (total)	106-44-5	monitor	140	< 5	< 5	NA	< 5
Dibenzofuran	132-64-9	---	---	< 5	< 5	NA	< 5
3-Nitroaniline	99-09-2	---	---	< 5	< 5	NA	< 5
4-Nitroaniline	100-01-6	---	---	< 5	< 5	NA	< 5
2,4-Dinitrophenol	51-28-5	---	---	< 5	< 5	NA	< 5
4-Nitrophenol	100-02-7	---	---	< 5	< 5	NA	< 5
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 5	< 5	NA	< 5
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	< 5	NA	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 5	< 5	NA	< 5
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5	NA	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	< 5	NA	< 5
Diethylphthalate	84-66-2	monitor	2600	< 5	< 5	NA	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 5	< 5	NA	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	< 5	NA	< 5
Hexachlorobenzene	118-74-1	---	---	< 5	< 5	NA	< 5
di-n-butylphthalate	84-74-2	monitor	350	< 5	< 5	NA	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5	NA	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	< 5	NA	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5	NA	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5	NA	< 5
Carbazole	86-74-8	---	---	< 5	< 5	NA	< 5

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit Discharge Limits		August-15	September-15	October-15	November-15
		30 Day Avg	Daily Max	8/5/2015	9/1/2015	10/1/2015	11/19/2015
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 5	< 5	NA	< 5
Acenaphthylene	208-96-8	---	---	< 5	< 5	NA	< 5
Anthracene	120-12-7	---	---	< 5	< 5	NA	< 5
Fluorene	86-73-7	---	---	< 5	< 5	NA	< 5
Phenanthrene	85-01-8	---	---	< 5	< 5	NA	< 5
Acenaphthene	83-32-9	monitor	67	< 5	< 5	NA	< 5
Benzo (a) pyrene	50-32-8	---	---	< 5	< 5	NA	< 5
Chrysene	218-01-9	---	---	< 5	< 5	NA	< 5
Fluoranthene	206-44-0	66	200	< 5	< 5	NA	< 5
Pyrene	129-00-0	---	---	< 5	< 5	NA	< 5
Benzo (a) anthracene	56-55-3	---	---	< 5	< 5	NA	< 5
Benzo (k) flouranthene	207-08-9	---	---	< 5	< 5	NA	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	< 5	NA	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	< 5	NA	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	< 5	NA	< 5
Benzo (b) flouranthene	205-99-2	---	---	< 5	< 5	NA	< 5
Total PAHs		0.376	monitor	0	0	NA	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 1	< 1	NA	< 1
Vinyl Chloride	75-01-4	---	---	< 1	< 1	NA	< 1
Bromomethane	74-83-9	---	---	< 1	< 1	NA	< 1
Chloroethane	75-00-3	---	---	< 1	< 1	NA	< 1
1,1-Dichloroethene	75-35-4	---	---	< 1	< 1	NA	< 1
Methylene Chloride	75-09-2	---	---	< 5	< 5	NA	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	< 1	NA	< 1
1,1-Dichloroethane	75-34-3	---	---	< 1	< 1	NA	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	< 1	NA	< 1
Chloroform	67-66-3	---	---	< 1	< 1	NA	< 1
1,1,1-Trichloroethane	71-55-6	---	---	< 1	< 1	NA	< 1
Carbon Tetrachloride	56-23-5	---	---	< 1	< 1	NA	< 1
Benzene	71-43-2	57	134	< 1	< 1	NA	< 1
1,2-Dichloroethane	107-06-2	180	574	< 1	< 1	NA	< 1
Trichloroethene	79-01-6	---	---	< 1	< 1	NA	< 1
1,2-Dichloropropane	78-87-5	---	---	< 1	< 1	NA	< 1
Bromodichloromethane	75-27-4	---	---	< 1	< 1	NA	< 1
Toluene	108-88-3	28	74	< 1	< 1	NA	< 1
1,1,2-Trichloroethane	79-00-5	---	---	< 1	< 1	NA	< 1
Tetrachloroethene	127-18-4	52	164	< 1	< 1	NA	< 1
Dibromochloromethane	124-48-1	---	---	< 1	< 1	NA	< 1
Chlorobenzene	108-90-7	---	---	< 1	< 1	NA	< 1
Ethylbenzene	100-41-4	142	380	< 1	< 1	NA	< 1
Styrene	100-42-5	monitor	1300	< 1	< 1	NA	< 1
Bromoform	75-25-2	---	---	< 1	< 1	NA	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	< 1	NA	< 1
Acetone (total)	67-64-1	monitor	550	< 10	< 10	NA	< 10
Carbon Disulfide	75-15-0	---	---	< 1	< 1	NA	< 1
2-Butanone	78-93-3	---	---	< 5	< 5	NA	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	< 1	NA	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	< 1	NA	< 1
4-Methyl-2-pentanone	108-10-1	---	---	< 5	< 5	NA	< 5
2-Hexanone	591-78-6	---	---	< 5	< 5	NA	< 5
Total Xylene	1330-20-7	---	---	< 3	< 3	NA	< 3

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

J - Analyte is present at an estimated concentration between the MDL and Report Limit

X - Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		July-15	August-15	September-15	October-15
		30 Day Avg	Daily Max.	7/1/2015	8/5/2015	9/1/2015	10/1/2015
Metals (mg/L)							
Mercury	7439-97-6	0.00013	0.0011	NA	< 0.0002	< 0.0002	NA
Antimony	7440-36-0	monitor	monitor	NA	< 0.005	< 0.005	NA
Chromium	7440-47-3	0.119	2.6	NA	0.00024 J	< 0.005	NA
Copper	7440-50-8	monitor	0.027	NA	0.037	0.028	NA
Lead	7439-92-1	0.121	0.23	NA	0.00039 J	0.00034 J	NA
Nickel	7440-02-0	0.24	2.3	NA	0.015	0.011	NA
Zinc	7440-66-6	monitor	0.17	NA	0.058	0.074	NA
Arsenic	7440-38-2	0.122	0.36	NA	0.00077 J	0.00074 J	NA
Beryllium	7440-41-7	0.00142	1	NA	< 0.002	< 0.002	NA
Cadmium	7440-43-9	monitor	0.0089	NA	< 0.0002	< 0.0002	NA
Silver	7440-22-4	monitor	0.0034	NA	< 0.005	< 0.005	NA
Cyanide (free)	57-12-5	monitor	0.046	NA	< 0.005	< 0.005	NA
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	NA	7.41	7.02	NA
TSS	TSS	30	45	NA	< 3	< 3	NA
Ammonia Nitrogen	7664-41-7	monitor	monitor	NA	2.8	2.9	NA
Oil & Grease (total)	O&G	10	10	NA	1.6 J	< 5	NA
BOD	BOD	monitor	monitor	NA	< 7.2	< 7.2	NA
Pesticides (ug/L)							
Endrin Ketone	53494-70-5	---	---	NA	< 0.02	< 0.02	NA
Alpha Chlordane	5103-71-9	---	---	NA	< 0.02	< 0.02	NA
Gamma Chlordane	5103-74-2	---	---	NA	< 0.02	< 0.02	NA
Alpha BHC	319-84-6	---	---	NA	< 0.02	< 0.02	NA
Beta BHC	319-85-7	---	---	NA	< 0.02	< 0.02	NA
Gamma BHC-Lindane	58-89-9	---	---	NA	< 0.02	< 0.02	NA
Delta BHC	319-86-8	---	---	NA	< 0.02	< 0.02	NA
Heptachlor	76-44-8	0.00331	monitor	NA	< 0.02	< 0.02	NA
Aldrin	309-00-2	0.000884	monitor	NA	< 0.02	< 0.02	NA
Heptachlor Epoxide	1024-57-3	---	---	NA	< 0.02	< 0.02	NA
p,p-DDE	72-55-9	---	---	NA	< 0.02	< 0.02	NA
p,p-DDD	72-54-8	---	---	NA	< 0.02	< 0.02	NA
p,p-DDT	50-29-3	0.000227	monitor	NA	< 0.02	< 0.02	NA
Dieldrin	60-57-1	---	---	NA	< 0.02	< 0.02	NA
Endrin	72-20-8	---	---	NA	< 0.02	< 0.02	NA
Toxaphene	8001-35-2	---	---	NA	< 4	< 4	NA
Endosulfan II	33213-65-9	---	---	NA	< 0.02	< 0.02	NA
Endosulfan I	959-98-8	---	---	NA	< 0.02	< 0.02	NA
Endosulfan Sulfate	1031-07-8	---	---	NA	< 0.02	< 0.02	NA
Endrin Aldehyde	7421-93-4	---	---	NA	< 0.02	< 0.02	NA
Methoxychlor	72-43-5	---	---	NA	< 0.02	< 0.02	NA
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	NA	< 0.2	< 0.2	NA
PCB-1221	11104-28-2	---	---	NA	< 0.2	< 0.2	NA
PCB-1232	11141-16-5	---	---	NA	< 0.2	< 0.2	NA
PCB-1242	53469-21-9	---	---	NA	< 0.2	< 0.2	NA
PCB-1248	12672-29-6	---	---	NA	< 0.2	< 0.2	NA
PCB-1254	11097-69-1	---	---	NA	< 0.2	< 0.2	NA
PCB-1260	11096-82-5	---	---	NA	< 0.2	< 0.2	NA
TOTAL PCBs		0.000967	monitor		0	0	

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit Discharge Limits		July-15	August-15	September-15	October-15
		30 Day Avg	Daily Max	7/1/2015	8/5/2015	9/1/2015	10/1/2015
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	NA	< 5	< 5	NA
2-Methylnaphthalene	91-57-6	---	---	NA	< 5	< 5	NA
2-Nitroaniline	88-74-4	---	---	NA	< 5	< 5	NA
2,4,5-Trchlorophenol	95-95-4	---	---	NA	< 5	< 5	NA
2-Chlorophenol	95-57-8	---	---	NA	< 5	< 5	NA
Phenol	108-95-2	monitor	monitor	NA	< 5	< 5	NA
2-Nitrophenol	88-75-5	---	---	NA	< 5	< 5	NA
2,4-Dimethylphenol	105-67-9	---	---	NA	< 5	< 5	NA
2,4-Dichlorophenol	120-83-2	---	---	NA	< 5	< 5	NA
4-Chloro-3-methylphenol	59-50-7	---	---	NA	< 5	< 5	NA
2,4,6-Trchlorophenol	88-06-2	---	---	NA	< 5	< 5	NA
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	NA	< 5	< 5	NA
1,3-Dichlorobenzene	541-73-1	---	---	NA	< 5	< 5	NA
1,4-Dichlorobenzene	106-46-7	---	---	NA	< 5	< 5	NA
1,2-Dichlorobenzene	95-50-1	---	---	NA	< 5	< 5	NA
Hexachloroethane	67-72-1	---	---	NA	< 5	< 5	NA
N-Nitroso-di-n-propylamine	621-64-7	---	---	NA	< 5	< 5	NA
Nitrobenzene	98-95-3	---	---	NA	< 5	< 5	NA
Isophorone	78-59-1	---	---	NA	< 5	< 5	NA
Bis(2-Chloroethoxy)methane	111-91-1	---	---	NA	< 5	< 5	NA
1,2,4-Trchlorobenzene	120-82-1	---	---	NA	< 5	< 5	NA
Hexachlorobutadiene	87-88-3	---	---	NA	< 5	< 5	NA
Hexachlorocyclopentadiene	77-47-4	---	---	NA	< 5	< 5	NA
2-Chloronaphthalene	91-58-7	---	---	NA	< 5	< 5	NA
Dimethylphthalate	131-11-3	monitor	monitor	NA	< 5	< 5	NA
2-methylphenol	95-48-7	---	---	NA	< 5	< 5	NA
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	NA	< 5	< 5	NA
4-methylphenol (total)	106-44-5	monitor	140	NA	< 5	< 5	NA
Dibenzofuran	132-64-9	---	---	NA	< 5	< 5	NA
3-Nitroaniline	99-09-2	---	---	NA	< 5	< 5	NA
4-Nitroaniline	100-01-6	---	---	NA	< 5	< 5	NA
2,4-Dinitrophenol	51-28-5	---	---	NA	< 5	< 5	NA
4-Nitrophenol	100-02-7	---	---	NA	< 5	< 5	NA
4,6-Dinitro-2-methylphenol	534-52-1	---	---	NA	< 5	< 5	NA
Pentachlorophenol (total)	87-86-5	monitor	3 5	NA	< 5	< 5	NA
2,6-Dinitrotoluene	606-20-2	---	---	NA	< 5	< 5	NA
2,4-Dinitrotoluene	121-14-2	---	---	NA	< 5	< 5	NA
4-Chlorophenyl-phenylether	7005-72-3	---	---	NA	< 5	< 5	NA
Diethylphthalate	84-66-2	monitor	2600	NA	< 5	< 5	NA
N-nitrosodiphenylamine	86-30-6	---	---	NA	< 5	< 5	NA
4-Bromophenyl-phenylether	101-55-3	---	---	NA	< 5	< 5	NA
Hexachlorobenzene	118-74-1	---	---	NA	< 5	< 5	NA
di-n-butylphthalate	84-74-2	monitor	350	NA	< 5	< 5	NA
Butylbenzylphthalate	85-68-7	---	---	NA	< 5	< 5	NA
3,3'-Dichlorobenzidine	91-94-1	---	---	NA	< 5	< 5	NA
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	NA	< 5	< 5	NA
Di-n-octylphthalate	117-84-0	---	---	NA	< 5	< 5	NA
Carbazole	86-74-8	---	---	NA	< 5	< 5	NA

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit Discharge Limits		July-15	August-15	September-15	October-15
		30 Day Avg.	Daily Max	7/1/2015	8/5/2015	9/1/2015	10/1/2015
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	NA	< 5	< 5	NA
Acenaphthylene	208-96-8	---	---	NA	< 5	< 5	NA
Anthracene	120-12-7	---	---	NA	< 5	< 5	NA
Fluorene	86-73-7	---	---	NA	< 5	< 5	NA
Phenanthrene	85-01-8	---	---	NA	< 5	< 5	NA
Acenaphthene	83-32-9	monitor	67	NA	< 5	< 5	NA
Benzo (a) pyrene	50-32-8	---	---	NA	< 5	< 5	NA
Chrysene	218-01-9	---	---	NA	< 5	< 5	NA
Fluoranthene	206-44-0	66	200	NA	< 5	< 5	NA
Pyrene	129-00-0	---	---	NA	< 5	< 5	NA
Benzo (a) anthracene	56-55-3	---	---	NA	< 5	< 5	NA
Benzo (k) flouranthene	207-08-9	---	---	NA	< 5	< 5	NA
Benzo (g,h,i) perylene	191-24-2	---	---	NA	< 5	< 5	NA
Dibenz (a,h) anthracene	53-70-3	---	---	NA	< 5	< 5	NA
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	NA	< 5	< 5	NA
Benzo (b) flouranthene	205-99-2	---	---	NA	< 5	< 5	NA
Total PAHs		0.376	monitor	NA	0	0	NA
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	NA	< 1	< 1	NA
Vinyl Chloride	75-01-4	---	---	NA	< 1	< 1	NA
Bromomethane	74-83-9	---	---	NA	< 1	< 1	NA
Chloroethane	75-00-3	---	---	NA	< 1	< 1	NA
1,1-Dichloroethene	75-35-4	---	---	NA	< 1	< 1	NA
Methylene Chloride	75-09-2	---	---	NA	< 5	< 5	NA
Trans-1,2-Dichloroethene	156-60-5	---	---	NA	< 1	< 1	NA
1,1-Dichloroethane	75-34-3	---	---	NA	< 1	< 1	NA
cis-1,2-Dichloroethene	156-59-2	---	---	NA	< 1	< 1	NA
Chloroform	67-66-3	---	---	NA	< 1	< 1	NA
1,1,1-Trichloroethane	71-55-6	---	---	NA	< 1	< 1	NA
Carbon Tetrachloride	56-23-5	---	---	NA	< 1	< 1	NA
Benzene	71-43-2	57	134	NA	< 1	< 1	NA
1,2-Dichloroethane	107-06-2	180	574	NA	< 1	< 1	NA
Trichloroethene	79-01-6	---	---	NA	< 1	< 1	NA
1,2-Dichloropropane	78-87-5	---	---	NA	< 1	< 1	NA
Bromodichloromethane	75-27-4	---	---	NA	< 1	< 1	NA
Toluene	108-88-3	28	74	NA	< 1	< 1	NA
1,1,2-Trichloroethane	79-00-5	---	---	NA	< 1	< 1	NA
Tetrachloroethene	127-18-4	52	164	NA	< 1	< 1	NA
Dibromochloromethane	124-48-1	---	---	NA	< 1	< 1	NA
Chlorobenzene	108-90-7	---	---	NA	< 1	< 1	NA
Ethylbenzene	100-41-4	142	380	NA	< 1	< 1	NA
Styrene	100-42-5	monitor	1300	NA	< 1	< 1	NA
Bromoform	75-25-2	---	---	NA	< 1	< 1	NA
1,1,2,2-Tetrachloroethane	79-34-5	---	---	NA	< 1	< 1	NA
Acetone (total)	67-64-1	monitor	550	NA	< 10	< 10	NA
Carbon Disulfide	75-15-0	---	---	NA	< 1	< 1	NA
2-Butanone	78-93-3	---	---	NA	< 5	< 5	NA
Trans-1,3-Dichloropropene	10061-02-6	---	---	NA	< 1	< 1	NA
cis-1,3-Dichloropropene	10061-01-5	---	---	NA	< 1	< 1	NA
4-Methyl-2-pentanone	108-10-1	---	---	NA	< 5	< 5	NA
2-Hexanone	591-78-6	---	---	NA	< 5	< 5	NA
Total Xylene	1330-20-7	---	---	NA	< 3	< 3	NA

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit Discharge Limits		June-15	July-15	August-15	September-15
		30 Day Avg.	Daily Max	6/24/2015	7/1/2015	8/5/2015	9/1/2015
Metals (mg/L)							
Mercury	7439-97-6	0.00013	0.0011	< 0.0002	NA	< 0.0002	< 0.0002
Antimony	7440-36-0	monitor	monitor	< 0.005	NA	< 0.005	< 0.005
Chromium	7440-47-3	0.119	2.6	0.00015 J	NA	0.00024 J	< 0.005
Copper	7440-50-8	monitor	0.027	0.03	NA	0.037	0.028
Lead	7439-92-1	0.121	0.23	0.00042 J	NA	0.00039 J	0.00034 J
Nickel	7440-02-0	0.24	2.3	0.012	NA	0.015	0.011
Zinc	7440-66-6	monitor	0.17	0.11	NA	0.058	0.074
Arsenic	7440-38-2	0.122	0.36	< 0.005	NA	0.00077 J	0.00074 J
Beryllium	7440-41-7	0.00142	1	< 0.002	NA	< 0.002	< 0.002
Cadmium	7440-43-9	monitor	0.0089	< 0.0002	NA	< 0.0002	< 0.0002
Silver	7440-22-4	monitor	0.0034	< 0.005	NA	< 0.005	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	< 0.005	NA	< 0.005	< 0.005
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	NA	NA	7.41	7.02
TSS	TSS	30	45	NA	NA	< 3	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	2.0	NA	2.8	2.9
Oil & Grease (total)	O&G	10	10	NA	NA	1.6 J	< 5
BOD	BOD	monitor	monitor	NA	NA	< 7.2	< 7.2
Pesticides (ug/L)							
Endnn Ketone	53494-70-5	---	---	NA	NA	< 0.02	< 0.02
Alpha Chlordane	5103-71-9	---	---	NA	NA	< 0.02	< 0.02
Gamma Chlordane	5103-74-2	---	---	NA	NA	< 0.02	< 0.02
Alpha BHC	319-84-6	---	---	NA	NA	< 0.02	< 0.02
Beta BHC	319-85-7	---	---	NA	NA	< 0.02	< 0.02
Gamma BHC-Lindane	58-89-9	---	---	NA	NA	< 0.02	< 0.02
Delta BHC	319-86-8	---	---	NA	NA	< 0.02	< 0.02
Heptachlor	76-44-8	0.00331	monitor	NA	NA	< 0.02	< 0.02
Aldnn	309-00-2	0.000884	monitor	NA	NA	< 0.02	< 0.02
Heptachlor Epoxide	1024-57-3	---	---	NA	NA	< 0.02	< 0.02
p,p-DDE	72-55-9	---	---	NA	NA	< 0.02	< 0.02
p,p-DDD	72-54-8	---	---	NA	NA	< 0.02	< 0.02
p,p-DDT	50-29-3	0.000227	monitor	NA	NA	< 0.02	< 0.02
Dieldnn	60-57-1	---	---	NA	NA	< 0.02	< 0.02
Endnn	72-20-8	---	---	NA	NA	< 0.02	< 0.02
Toxaphene	8001-35-2	---	---	NA	NA	< 4	< 4
Endosulfan II	33213-65-9	---	---	NA	NA	< 0.02	< 0.02
Endosulfan I	959-98-8	---	---	NA	NA	< 0.02	< 0.02
Endosulfan Sulfate	1031-07-8	---	---	NA	NA	< 0.02	< 0.02
Endnn Aldehyde	7421-93-4	---	---	NA	NA	< 0.02	< 0.02
Methoxychlor	72-43-5	---	---	NA	NA	< 0.02	< 0.02
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	NA	NA	< 0.2	< 0.2
PCB-1221	11104-28-2	---	---	NA	NA	< 0.2	< 0.2
PCB-1232	11141-16-5	---	---	NA	NA	< 0.2	< 0.2
PCB-1242	53469-21-9	---	---	NA	NA	< 0.2	< 0.2
PCB-1248	12672-29-6	---	---	NA	NA	< 0.2	< 0.2
PCB-1254	11097-69-1	---	---	NA	NA	< 0.2	< 0.2
PCB-1260	11096-82-5	---	---	NA	NA	< 0.2	< 0.2
TOTAL PCBs		0.000967	monitor			0	0

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		June-15	July-15	August-15	September-15
		30 Day Avg	Daily Max.	6/24/2015	7/1/2015	8/5/2015	9/1/2015
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	NA	NA	< 5	< 5
2-Methylnaphthalene	91-57-6	---	---	NA	NA	< 5	< 5
2-Nitroaniline	88-74-4	---	---	NA	NA	< 5	< 5
2,4,5-Trchlorophenol	95-95-4	---	---	NA	NA	< 5	< 5
2-Chlorophenol	95-57-8	---	---	NA	NA	< 5	< 5
Phenol	108-95-2	monitor	monitor	NA	NA	< 5	< 5
2-Nitrophenol	88-75-5	---	---	NA	NA	< 5	< 5
2,4-Dimethylphenol	105-67-9	---	---	NA	NA	< 5	< 5
2,4-Dichlorophenol	120-83-2	---	---	NA	NA	< 5	< 5
4-Chloro-3-methylphenol	59-50-7	---	---	NA	NA	< 5	< 5
2,4,6-Trchlorophenol	88-06-2	---	---	NA	NA	< 5	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	NA	NA	< 5	< 5
1,3-Dichlorobenzene	541-73-1	---	---	NA	NA	< 5	< 5
1,4-Dichlorobenzene	106-46-7	---	---	NA	NA	< 5	< 5
1,2-Dichlorobenzene	95-50-1	---	---	NA	NA	< 5	< 5
Hexachloroethane	67-72-1	---	---	NA	NA	< 5	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	NA	NA	< 5	< 5
Nitrobenzene	98-95-3	---	---	NA	NA	< 5	< 5
Isophorone	78-59-1	---	---	NA	NA	< 5	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	NA	NA	< 5	< 5
1,2,4-Trchlorobenzene	120-82-1	---	---	NA	NA	< 5	< 5
Hexachlorobutadiene	87-68-3	---	---	NA	NA	< 5	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	NA	NA	< 5	< 5
2-Chloronaphthalene	91-58-7	---	---	NA	NA	< 5	< 5
Dimethylphthalate	131-11-3	monitor	monitor	NA	NA	< 5	< 5
2-methylphenol	95-48-7	---	---	NA	NA	< 5	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	NA	NA	< 5	< 5
4-methylphenol (total)	106-44-5	monitor	140	NA	NA	< 5	< 5
Dibenzofuran	132-64-9	---	---	NA	NA	< 5	< 5
3-Nitroaniline	99-09-2	---	---	NA	NA	< 5	< 5
4-Nitroaniline	100-01-6	---	---	NA	NA	< 5	< 5
2,4-Dinitrophenol	51-28-5	---	---	NA	NA	< 5	< 5
4-Nitrophenol	100-02-7	---	---	NA	NA	< 5	< 5
4,6-Dinitro-2-methylphenol	534-52-1	---	---	NA	NA	< 5	< 5
Pentachlorophenol (total)	87-86-5	monitor	3.5	NA	NA	< 5	< 5
2,6-Dinitrotoluene	606-20-2	---	---	NA	NA	< 5	< 5
2,4-Dinitrotoluene	121-14-2	---	---	NA	NA	< 5	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	NA	NA	< 5	< 5
Diethylphthalate	84-66-2	monitor	2600	NA	NA	< 5	< 5
N-nitrosodiphenylamine	86-30-6	---	---	NA	NA	< 5	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	NA	NA	< 5	< 5
Hexachlorobenzene	118-74-1	---	---	NA	NA	< 5	< 5
di-n-butylphthalate	84-74-2	monitor	350	NA	NA	< 5	< 5
Butylbenzylphthalate	85-68-7	---	---	NA	NA	< 5	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	NA	NA	< 5	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	NA	NA	< 5	< 5
Di-n-octylphthalate	117-84-0	---	---	NA	NA	< 5	< 5
Carbazole	86-74-8	---	---	NA	NA	< 5	< 5

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		June-15 6/24/2015	July-15 7/1/2015	August-15 8/5/2015	September-15 9/1/2015
		Discharge Limits					
		30 Day Avg.	Daily Max				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	NA	NA	< 5	< 5
Acenaphthylene	208-96-8	---	---	NA	NA	< 5	< 5
Anthracene	120-12-7	---	---	NA	NA	< 5	< 5
Fluorene	86-73-7	---	---	NA	NA	< 5	< 5
Phenanthrene	85-01-8	---	---	NA	NA	< 5	< 5
Acenaphthene	83-32-9	monitor	67	NA	NA	< 5	< 5
Benzo (a) pyrene	50-32-8	---	---	NA	NA	< 5	< 5
Chrysene	218-01-9	---	---	NA	NA	< 5	< 5
Fluoranthene	206-44-0	66	200	NA	NA	< 5	< 5
Pyrene	129-00-0	---	---	NA	NA	< 5	< 5
Benzo (a) anthracene	56-55-3	---	---	NA	NA	< 5	< 5
Benzo (k) flouranthene	207-08-9	---	---	NA	NA	< 5	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	NA	NA	< 5	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	NA	NA	< 5	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	NA	NA	< 5	< 5
Benzo (b) flouranthene	205-99-2	---	---	NA	NA	< 5	< 5
Total PAHs		0.376	monitor	NA	NA	0	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	NA	NA	< 1	< 1
Vinyl Chloride	75-01-4	---	---	NA	NA	< 1	< 1
Bromomethane	74-83-9	---	---	NA	NA	< 1	< 1
Chloroethane	75-00-3	---	---	NA	NA	< 1	< 1
1,1-Dichloroethene	75-35-4	---	---	NA	NA	< 1	< 1
Methylene Chloride	75-09-2	---	---	NA	NA	< 5	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	NA	NA	< 1	< 1
1,1-Dichloroethane	75-34-3	---	---	NA	NA	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	NA	NA	< 1	< 1
Chloroform	67-66-3	---	---	NA	NA	< 1	< 1
1,1,1-Trichloroethane	71-55-6	---	---	NA	NA	< 1	< 1
Carbon Tetrachloride	56-23-5	---	---	NA	NA	< 1	< 1
Benzene	71-43-2	57	134	NA	NA	< 1	< 1
1,2-Dichloroethane	107-06-2	180	574	NA	NA	< 1	< 1
Trichloroethene	79-01-6	---	---	NA	NA	< 1	< 1
1,2-Dichloropropane	78-87-5	---	---	NA	NA	< 1	< 1
Bromodichloromethane	75-27-4	---	---	NA	NA	< 1	< 1
Toluene	108-88-3	28	74	NA	NA	< 1	< 1
1,1,2-Trichloroethane	79-00-5	---	---	NA	NA	< 1	< 1
Tetrachloroethene	127-18-4	52	164	NA	NA	< 1	< 1
Dibromochloromethane	124-48-1	---	---	NA	NA	< 1	< 1
Chlorobenzene	108-90-7	---	---	NA	NA	< 1	< 1
Ethylbenzene	100-41-4	142	380	NA	NA	< 1	< 1
Styrene	100-42-5	monitor	1300	NA	NA	< 1	< 1
Bromoform	75-25-2	---	---	NA	NA	< 1	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	NA	NA	< 1	< 1
Acetone (total)	67-64-1	monitor	550	NA	NA	< 10	< 10
Carbon Disulfide	75-15-0	---	---	NA	NA	< 1	< 1
2-Butanone	78-93-3	---	---	NA	NA	< 5	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	NA	NA	< 1	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	NA	NA	< 1	< 1
4-Methyl-2-pentanone	108-10-1	---	---	NA	NA	< 5	< 5
2-Hexanone	591-78-6	---	---	NA	NA	< 5	< 5
Total Xylene	1330-20-7	---	---	NA	NA	< 3	< 3

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit Discharge Limits		June-15	June-15	July-15	August-15
		30 Day Avg	Daily Max	6/3/2015	6/24/2015	7/1/2015	8/5/2015
Metals (mg/L)							
Mercury	7439-97-6	0.00013	0.0011	< 0.0002	< 0.0002	NA	< 0.0002
Antimony	7440-36-0	monitor	monitor	< 0.005	< 0.005	NA	< 0.005
Chromium	7440-47-3	0.119	2.6	< 0.005	0.00015 J	NA	0.00024 J
Copper	7440-50-8	monitor	0.027	0.025	0.03	NA	0.037
Lead	7439-92-1	0.121	0.23	0.00024 J	0.00042 J	NA	0.00039 J
Nickel	7440-02-0	0.24	2.3	0.011	0.012	NA	0.015
Zinc	7440-66-6	monitor	0.17	0.084	0.11	NA	0.058
Arsenic	7440-38-2	0.122	0.36	0.0011 J	< 0.005	NA	0.00077 J
Beryllium	7440-41-7	0.00142	1	< 0.002	< 0.002	NA	< 0.002
Cadmium	7440-43-9	monitor	0.0089	< 0.0002	< 0.0002	NA	< 0.0002
Silver	7440-22-4	monitor	0.0034	< 0.005	< 0.005	NA	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	< 0.005	< 0.005	NA	< 0.005
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	7.07	NA	NA	7.41
TSS	TSS	30	45	< 3	NA	NA	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	2.9	2.0	NA	2.8
Oil & Grease (total)	O&G	10	10	< 5	NA	NA	1.6 J
BOD	BOD	monitor	monitor	< 7.2	NA	NA	< 7.2
Pesticides (ug/L)							
Endrin Ketone	53494-70-5	---	---	< 0.02	NA	NA	< 0.02
Alpha Chlordane	5103-71-9	---	---	< 0.02	NA	NA	< 0.02
Gamma Chlordane	5103-74-2	---	---	< 0.02	NA	NA	< 0.02
Alpha BHC	319-84-6	---	---	< 0.02	NA	NA	< 0.02
Beta BHC	319-85-7	---	---	< 0.02	NA	NA	< 0.02
Gamma BHC-Lindane	58-89-9	---	---	< 0.02	NA	NA	< 0.02
Delta BHC	319-86-8	---	---	< 0.02	NA	NA	< 0.02
Heptachlor	76-44-8	0.00331	monitor	< 0.02	NA	NA	< 0.02
Aldrin	309-00-2	0.000884	monitor	< 0.02	NA	NA	< 0.02
Heptachlor Epoxide	1024-57-3	---	---	< 0.02	NA	NA	< 0.02
p,p-DDE	72-55-9	---	---	< 0.02	NA	NA	< 0.02
p,p-DDD	72-54-8	---	---	< 0.02	NA	NA	< 0.02
p,p-DDT	50-29-3	0.000227	monitor	< 0.02	NA	NA	< 0.02
Dieldrin	60-57-1	---	---	< 0.02	NA	NA	< 0.02
Endrin	72-20-8	---	---	< 0.02	NA	NA	< 0.02
Toxaphene	8001-35-2	---	---	< 4	NA	NA	< 4
Endosulfan II	33213-65-9	---	---	< 0.02	NA	NA	< 0.02
Endosulfan I	959-98-8	---	---	< 0.02	NA	NA	< 0.02
Endosulfan Sulfate	1031-07-8	---	---	< 0.02	NA	NA	< 0.02
Endrin Aldehyde	7421-93-4	---	---	< 0.02	NA	NA	< 0.02
Methoxychlor	72-43-5	---	---	< 0.02	NA	NA	< 0.02
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0.2	NA	NA	< 0.2
PCB-1221	11104-28-2	---	---	< 0.2	NA	NA	< 0.2
PCB-1232	11141-16-5	---	---	< 0.2	NA	NA	< 0.2
PCB-1242	53469-21-9	---	---	< 0.2	NA	NA	< 0.2
PCB-1248	12672-29-6	---	---	< 0.2	NA	NA	< 0.2
PCB-1254	11097-69-1	---	---	< 0.2	NA	NA	< 0.2
PCB-1260	11096-82-5	---	---	< 0.2	NA	NA	< 0.2
TOTAL PCBs		0.000967	monitor	0			0

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		June-15	June-15	July-15	August-15
		Discharge Limits		6/3/2015	6/24/2015	7/1/2015	8/5/2015
		30 Day Avg	Daily Max.				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 5	NA	NA	< 5
2-Methylnaphthalene	91-57-6	---	---	< 5	NA	NA	< 5
2-Nitroaniline	88-74-4	---	---	< 5	NA	NA	< 5
2,4,5-Trchlorophenol	95-95-4	---	---	< 5	NA	NA	< 5
2-Chlorophenol	95-57-8	---	---	< 5	NA	NA	< 5
Phenol	108-95-2	monitor	monitor	< 5	NA	NA	< 5
2-Nitrophenol	88-75-5	---	---	< 5	NA	NA	< 5
2,4-Dimethylphenol	105-67-9	---	---	< 5	NA	NA	< 5
2,4-Dichlorophenol	120-83-2	---	---	< 5	NA	NA	< 5
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	NA	NA	< 5
2,4,6-Trchlorophenol	88-06-2	---	---	< 5	NA	NA	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	NA	NA	< 5
1,3-Dichlorobenzene	541-73-1	---	---	< 5	NA	NA	< 5
1,4-Dichlorobenzene	106-46-7	---	---	< 5	NA	NA	< 5
1,2-Dichlorobenzene	95-50-1	---	---	< 5	NA	NA	< 5
Hexachloroethane	67-72-1	---	---	< 5	NA	NA	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	NA	NA	< 5
Nitrobenzene	98-95-3	---	---	< 5	NA	NA	< 5
Isophorone	78-59-1	---	---	< 5	NA	NA	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	NA	NA	< 5
1,2,4-Trchlorobenzene	120-82-1	---	---	< 5	NA	NA	< 5
Hexachlorobutadiene	87-68-3	---	---	< 5	NA	NA	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	< 5	NA	NA	< 5
2-Chloronaphthalene	91-58-7	---	---	< 5	NA	NA	< 5
Dimethylphthalate	131-11-3	monitor	monitor	< 5	NA	NA	< 5
2-methylphenol	95-48-7	---	---	< 5	NA	NA	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 5	NA	NA	< 5
4-methylphenol (total)	106-44-5	monitor	140	< 5	NA	NA	< 5
Dibenzofuran	132-64-9	---	---	< 5	NA	NA	< 5
3-Nitroaniline	99-09-2	---	---	< 5	NA	NA	< 5
4-Nitroaniline	100-01-6	---	---	< 5	NA	NA	< 5
2,4-Dinitrophenol	51-28-5	---	---	< 5	NA	NA	< 5
4-Nitrophenol	100-02-7	---	---	< 5	NA	NA	< 5
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 5	NA	NA	< 5
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	NA	NA	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 5	NA	NA	< 5
2,4-Dinitrotoluene	121-14-2	---	---	< 5	NA	NA	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	NA	NA	< 5
Diethylphthalate	84-66-2	monitor	2600	< 5	NA	NA	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 5	NA	NA	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	NA	NA	< 5
Hexachlorobenzene	118-74-1	---	---	< 5	NA	NA	< 5
di-n-butylphthalate	84-74-2	monitor	350	< 5	NA	NA	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	NA	NA	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	NA	NA	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	NA	NA	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	NA	NA	< 5
Carbazole	86-74-8	---	---	< 5	NA	NA	< 5

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		June-15	June-15	July-15	August-15
		Discharge Limits		6/3/2015	6/24/2015	7/1/2015	8/5/2015
		30 Day Avg	Daily Max				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 5	NA	NA	< 5
Acenaphthylene	208-96-8	---	---	< 5	NA	NA	< 5
Anthracene	120-12-7	---	---	< 5	NA	NA	< 5
Fluorene	86-73-7	---	---	< 5	NA	NA	< 5
Phenanthrene	85-01-8	---	---	< 5	NA	NA	< 5
Acenaphthene	83-32-9	monitor	67	< 5	NA	NA	< 5
Benzo (a) pyrene	50-32-8	---	---	< 5	NA	NA	< 5
Chrysene	218-01-9	---	---	< 5	NA	NA	< 5
Fluoranthene	206-44-0	66	200	< 5	NA	NA	< 5
Pyrene	129-00-0	---	---	< 5	NA	NA	< 5
Benzo (a) anthracene	56-55-3	---	---	< 5	NA	NA	< 5
Benzo (k) flouranthene	207-08-9	---	---	< 5	NA	NA	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	NA	NA	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	NA	NA	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	NA	NA	< 5
Benzo (b) flouranthene	205-99-2	---	---	< 5	NA	NA	< 5
Total PAHs		0 376	monitor	0	NA	NA	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 1	NA	NA	< 1
Vinyl Chloride	75-01-4	---	---	< 1	NA	NA	< 1
Bromomethane	74-83-9	---	---	< 1	NA	NA	< 1
Chloroethane	75-00-3	---	---	< 1	NA	NA	< 1
1,1-Dichloroethene	75-35-4	---	---	< 1	NA	NA	< 1
Methylene Chloride	75-09-2	---	---	< 5	NA	NA	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	NA	NA	< 1
1,1-Dichloroethane	75-34-3	---	---	< 1	NA	NA	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	NA	NA	< 1
Chloroform	67-66-3	---	---	< 1	NA	NA	< 1
1,1,1-Trichloroethane	71-55-6	---	---	< 1	NA	NA	< 1
Carbon Tetrachloride	56-23-5	---	---	< 1	NA	NA	< 1
Benzene	71-43-2	57	134	< 1	NA	NA	< 1
1,2-Dichloroethane	107-06-2	180	574	< 1	NA	NA	< 1
Trichloroethene	79-01-6	---	---	< 1	NA	NA	< 1
1,2-Dichloropropane	78-87-5	---	---	< 1	NA	NA	< 1
Bromodichloromethane	75-27-4	---	---	< 1	NA	NA	< 1
Toluene	108-88-3	28	74	< 1	NA	NA	< 1
1,1,2-Trichloroethane	79-00-5	---	---	< 1	NA	NA	< 1
Tetrachloroethene	127-18-4	52	164	< 1	NA	NA	< 1
Dibromochloromethane	124-48-1	---	---	< 1	NA	NA	< 1
Chlorobenzene	108-90-7	---	---	< 1	NA	NA	< 1
Ethylbenzene	100-41-4	142	380	< 1	NA	NA	< 1
Styrene	100-42-5	monitor	1300	< 1	NA	NA	< 1
Bromoform	75-25-2	---	---	< 1	NA	NA	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	NA	NA	< 1
Acetone (total)	67-64-1	monitor	550	< 10	NA	NA	< 10
Carbon Disulfide	75-15-0	---	---	< 1	NA	NA	< 1
2-Butanone	78-93-3	---	---	< 5	NA	NA	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	NA	NA	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	NA	NA	< 1
4-Methyl-2-pentanone	108-10-1	---	---	< 5	NA	NA	< 5
2-Hexanone	591-78-6	---	---	< 5	NA	NA	< 5
Total Xylene	1330-20-7	---	---	< 3	NA	NA	< 3

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		May-15	June-15	June-15
		30 Day Avg.	Daily Max	5/1/2015	6/3/2015	6/24/2015
Metals (mg/L)						
Mercury	7439-97-6	0.000013	0.0011	NA	< 0.0002	< 0.0002
Antimony	7440-36-0	monitor	monitor	NA	< 0.005	< 0.005
Chromium	7440-47-3	0.119	2.6	NA	< 0.005	0.00015 J
Copper	7440-50-8	monitor	0.027	NA	0.025	0.03
Lead	7439-92-1	0.121	0.23	NA	0.00024 J	0.00042 J
Nickel	7440-02-0	0.24	2.3	NA	0.011	0.012
Zinc	7440-66-6	monitor	0.17	NA	0.084	0.11
Arsenic	7440-38-2	0.122	0.36	NA	0.0011 J	< 0.005
Beryllium	7440-41-7	0.00142	1	NA	< 0.002	< 0.002
Cadmium	7440-43-9	monitor	0.0089	NA	< 0.0002	< 0.0002
Silver	7440-22-4	monitor	0.0034	NA	< 0.005	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	NA	< 0.005	< 0.005
Conventionals (mg/L)						
pH (Min and Max) (S U)	pH	6.5	9	NA	7.07	NA
TSS	TSS	30	45	NA	< 3	NA
Ammonia Nitrogen	7664-41-7	monitor	monitor	NA	2.9	2.0
Oil & Grease (total)	O&G	10	10	NA	< 5	NA
BOD	BOD	monitor	monitor	NA	< 7.2	NA
Pesticides (ug/L)						
Endnn Ketone	53494-70-5	---	---	NA	< 0.02	NA
Alpha Chlordane	5103-71-9	---	---	NA	< 0.02	NA
Gamma Chlordane	5103-74-2	---	---	NA	< 0.02	NA
Alpha BHC	319-84-6	---	---	NA	< 0.02	NA
Beta BHC	319-85-7	---	---	NA	< 0.02	NA
Gamma BHC-Lindane	58-89-9	---	---	NA	< 0.02	NA
Delta BHC	319-86-8	---	---	NA	< 0.02	NA
Heptachlor	76-44-8	0.00331	monitor	NA	< 0.02	NA
Aldnn	309-00-2	0.000884	monitor	NA	< 0.02	NA
Heptachlor Epoxide	1024-57-3	---	---	NA	< 0.02	NA
p,p-DDE	72-55-9	---	---	NA	< 0.02	NA
p,p-DDD	72-54-8	---	---	NA	< 0.02	NA
p,p-DDT	50-29-3	0.000227	monitor	NA	< 0.02	NA
Dieldnn	60-57-1	---	---	NA	< 0.02	NA
Endnn	72-20-8	---	---	NA	< 0.02	NA
Toxaphene	8001-35-2	---	---	NA	< 4	NA
Endosulfan II	33213-65-9	---	---	NA	< 0.02	NA
Endosulfan I	959-98-8	---	---	NA	< 0.02	NA
Endosulfan Sulfate	1031-07-8	---	---	NA	< 0.02	NA
Endnn Aldehyde	7421-93-4	---	---	NA	< 0.02	NA
Methoxychlor	72-43-5	---	---	NA	< 0.02	NA
PCBs (ug/L)						
PCB-1016	12674-11-2	---	---	NA	< 0.2	NA
PCB-1221	11104-28-2	---	---	NA	< 0.2	NA
PCB-1232	11141-16-5	---	---	NA	< 0.2	NA
PCB-1242	53469-21-9	---	---	NA	< 0.2	NA
PCB-1248	12672-29-6	---	---	NA	< 0.2	NA
PCB-1254	11097-69-1	---	---	NA	< 0.2	NA
PCB-1260	11096-82-5	---	---	NA	< 0.2	NA
TOTAL PCBs		0.000967	monitor		0	

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		May-15	June-15	June-15
		30 Day Avg	Daily Max.	5/1/2015	6/3/2015	6/24/2015
Semi-VOCs (ug/L)						
4-Chloroaniline	106-47-8	---	---	NA	< 5	NA
2-Methylnaphthalene	91-57-6	---	---	NA	< 5	NA
2-Nitroaniline	88-74-4	---	---	NA	< 5	NA
2,4,5-Trchlorophenol	95-95-4	---	---	NA	< 5	NA
2-Chlorophenol	95-57-8	---	---	NA	< 5	NA
Phenol	108-95-2	monitor	monitor	NA	< 5	NA
2-Nitrophenol	88-75-5	---	---	NA	< 5	NA
2,4-Dimethylphenol	105-67-9	---	---	NA	< 5	NA
2,4-Dichlorophenol	120-83-2	---	---	NA	< 5	NA
4-Chloro-3-methylphenol	59-50-7	---	---	NA	< 5	NA
2,4,6-Trchlorophenol	88-06-2	---	---	NA	< 5	NA
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	NA	< 5	NA
1,3-Dichlorobenzene	541-73-1	---	---	NA	< 5	NA
1,4-Dichlorobenzene	106-46-7	---	---	NA	< 5	NA
1,2-Dichlorobenzene	95-50-1	---	---	NA	< 5	NA
Hexachloroethane	67-72-1	---	---	NA	< 5	NA
N-Nitroso-di-n-propylamine	621-64-7	---	---	NA	< 5	NA
Nitrobenzene	98-95-3	---	---	NA	< 5	NA
Isophorone	78-59-1	---	---	NA	< 5	NA
Bis(2-Chloroethoxy)methane	111-91-1	---	---	NA	< 5	NA
1,2,4-Trchlorobenzene	120-82-1	---	---	NA	< 5	NA
Hexachlorobutadiene	87-68-3	---	---	NA	< 5	NA
Hexachlorocyclopentadiene	77-47-4	---	---	NA	< 5	NA
2-Chloronaphthalene	91-58-7	---	---	NA	< 5	NA
Dimethylphthalate	131-11-3	monitor	monitor	NA	< 5	NA
2-methylphenol	95-48-7	---	---	NA	< 5	NA
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	NA	< 5	NA
4-methylphenol (total)	106-44-5	monitor	140	NA	< 5	NA
Dibenzofuran	132-64-9	---	---	NA	< 5	NA
3-Nitroaniline	99-09-2	---	---	NA	< 5	NA
4-Nitroaniline	100-01-6	---	---	NA	< 5	NA
2,4-Dinitrophenol	51-28-5	---	---	NA	< 5	NA
4-Nitrophenol	100-02-7	---	---	NA	< 5	NA
4,6-Dinitro-2-methylphenol	534-52-1	---	---	NA	< 5	NA
Pentachlorophenol (total)	87-86-5	monitor	3.5	NA	< 5	NA
2,6-Dinitrotoluene	606-20-2	---	---	NA	< 5	NA
2,4-Dinitrotoluene	121-14-2	---	---	NA	< 5	NA
4-Chlorophenyl-phenylether	7005-72-3	---	---	NA	< 5	NA
Diethylphthalate	84-66-2	monitor	2600	NA	< 5	NA
N-nitrosodiphenylamine	86-30-6	---	---	NA	< 5	NA
4-Bromophenyl-phenylether	101-55-3	---	---	NA	< 5	NA
Hexachlorobenzene	118-74-1	---	---	NA	< 5	NA
di-n-butylphthalate	84-74-2	monitor	350	NA	< 5	NA
Butylbenzylphthalate	85-68-7	---	---	NA	< 5	NA
3,3'-Dichlorobenzidine	91-94-1	---	---	NA	< 5	NA
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	NA	< 5	NA
Di-n-octylphthalate	117-84-0	---	---	NA	< 5	NA
Carbazole	86-74-8	---	---	NA	< 5	NA

Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit		May-15 5/1/2015	June-15 6/3/2015	June-15 6/24/2015
		Discharge Limits				
		30 Day Avg.	Daily Max			
PAHs (ug/L)						
Naphthalene	91-20-3	monitor	160	NA	< 5	NA
Acenaphthylene	208-96-8	---	---	NA	< 5	NA
Anthracene	120-12-7	---	---	NA	< 5	NA
Fluorene	86-73-7	---	---	NA	< 5	NA
Phenanthrene	85-01-8	---	---	NA	< 5	NA
Acenaphthene	83-32-9	monitor	67	NA	< 5	NA
Benzo (a) pyrene	50-32-8	---	---	NA	< 5	NA
Chrysene	218-01-9	---	---	NA	< 5	NA
Fluoranthene	206-44-0	66	200	NA	< 5	NA
Pyrene	129-00-0	---	---	NA	< 5	NA
Benzo (a) anthracene	56-55-3	---	---	NA	< 5	NA
Benzo (k) flouranthene	207-08-9	---	---	NA	< 5	NA
Benzo (g,h,i) perylene	191-24-2	---	---	NA	< 5	NA
Dibenz (a,h) anthracene	53-70-3	---	---	NA	< 5	NA
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	NA	< 5	NA
Benzo (b) flouranthene	205-99-2	---	---	NA	< 5	NA
Total PAHs		0 376	monitor	NA	0	NA
VOCs (ug/L)						
Chloromethane	74-87-3	---	---	NA	< 1	NA
Vinyl Chloride	75-01-4	---	---	NA	< 1	NA
Bromomethane	74-83-9	---	---	NA	< 1	NA
Chloroethane	75-00-3	---	---	NA	< 1	NA
1,1-Dichloroethene	75-35-4	---	---	NA	< 1	NA
Methylene Chloride	75-09-2	---	---	NA	< 5	NA
Trans-1,2-Dichloroethene	156-60-5	---	---	NA	< 1	NA
1,1-Dichloroethane	75-34-3	---	---	NA	< 1	NA
cis-1,2-Dichloroethene	156-59-2	---	---	NA	< 1	NA
Chloroform	67-66-3	---	---	NA	< 1	NA
1,1,1-Trichloroethane	71-55-6	---	---	NA	< 1	NA
Carbon Tetrachloride	56-23-5	---	---	NA	< 1	NA
Benzene	71-43-2	57	134	NA	< 1	NA
1,2-Dichloroethane	107-06-2	180	574	NA	< 1	NA
Trichloroethene	79-01-6	---	---	NA	< 1	NA
1,2-Dichloropropane	78-87-5	---	---	NA	< 1	NA
Bromodichloromethane	75-27-4	---	---	NA	< 1	NA
Toluene	108-88-3	28	74	NA	< 1	NA
1,1,2-Trichloroethane	79-00-5	---	---	NA	< 1	NA
Tetrachloroethene	127-18-4	52	164	NA	< 1	NA
Dibromochloromethane	124-48-1	---	---	NA	< 1	NA
Chlorobenzene	108-90-7	---	---	NA	< 1	NA
Ethylbenzene	100-41-4	142	380	NA	< 1	NA
Styrene	100-42-5	monitor	1300	NA	< 1	NA
Bromoform	75-25-2	---	---	NA	< 1	NA
1,1,2,2-Tetrachloroethane	79-34-5	---	---	NA	< 1	NA
Acetone (total)	67-64-1	monitor	550	NA	< 10	NA
Carbon Disulfide	75-15-0	---	---	NA	< 1	NA
2-Butanone	78-93-3	---	---	NA	< 5	NA
Trans-1,3-Dichloropropene	10061-02-6	---	---	NA	< 1	NA
cis-1,3-Dichloropropene	10061-01-5	---	---	NA	< 1	NA
4-Methyl-2-pentanone	108-10-1	---	---	NA	< 5	NA
2-Hexanone	591-78-6	---	---	NA	< 5	NA
Total Xylene	1330-20-7	---	---	NA	< 3	NA

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		April-15	May-15	June-15	June-15
		30 Day Avg.	Daily Max	4/15/2015	5/1/2015	6/3/2015	6/24/2015
Metals (mg/L)							
Mercury	7439-97-6	0 000013	0.0011	< 0 0002	NA	< 0 0002	< 0 0002
Antimony	7440-36-0	monitor	monitor	< 0 005	NA	< 0 005	< 0 005
Chromium	7440-47-3	0 119	2 6	< 0 005	NA	< 0 005	0 00015 J
Copper	7440-50-8	monitor	0 027	0 016	NA	0 025	0 03
Lead	7439-92-1	0 121	0 23	0 00036 J	NA	0 00024 J	0 00042 J
Nickel	7440-02-0	0.24	2.3	0 0091	NA	0 011	0 012
Zinc	7440-66-6	monitor	0 17	0 13	NA	0 084	0 11
Arsenic	7440-38-2	0 122	0 36	0 0011 J	NA	0 0011 J	< 0 005
Beryllium	7440-41-7	0 00142	1	< 0 002	NA	< 0 002	< 0 002
Cadmium	7440-43-9	monitor	0 0089	< 0 0002	NA	< 0 0002	< 0 0002
Silver	7440-22-4	monitor	0 0034	< 0 005	NA	< 0 005	< 0 005
Cyanide (free)	57-12-5	monitor	0.046	< 0 005	NA	< 0 005	< 0 005
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	7 04	NA	7 07	NA
TSS	TSS	30	45	< 3	NA	< 3	NA
Ammonia Nitrogen	7664-41-7	monitor	monitor	2 9	NA	2 9	2 0
Oil & Grease (total)	O&G	10	10	< 5	NA	< 5	NA
BOD	BOD	monitor	monitor	< 7 2	NA	< 7 2	NA
Pesticides (ug/L)							
Endrin Ketone	53494-70-5	---	---	< 0 1	NA	< 0 02	NA
Alpha Chlordane	5103-71-9	---	---	< 0 1	NA	< 0 02	NA
Gamma Chlordane	5103-74-2	---	---	< 0 1	NA	< 0 02	NA
Alpha BHC	319-84-6	---	---	< 0 1	NA	< 0 02	NA
Beta BHC	319-85-7	---	---	< 0 1	NA	< 0 02	NA
Gamma BHC-Lindane	58-89-9	---	---	< 0 1	NA	< 0 02	NA
Delta BHC	319-86-8	---	---	< 0 1	NA	< 0 02	NA
Heptachlor	76-44-8	0 00331	monitor	< 0 1	NA	< 0 02	NA
Aldrin	309-00-2	0 000884	monitor	< 0 1	NA	< 0 02	NA
Heptachlor Epoxide	1024-57-3	---	---	< 0 1	NA	< 0 02	NA
p,p-DDE	72-55-9	---	---	< 0 1	NA	< 0 02	NA
p,p-DDD	72-54-8	---	---	< 0 1	NA	< 0 02	NA
p,p-DDT	50-29-3	0.000227	monitor	< 0 1	NA	< 0 02	NA
Dieldrin	60-57-1	---	---	< 0 1	NA	< 0 02	NA
Endrin	72-20-8	---	---	< 0 1	NA	< 0 02	NA
Toxaphene	8001-35-2	---	---	< 20	NA	< 4	NA
Endosulfan II	33213-65-9	---	---	< 0 1	NA	< 0 02	NA
Endosulfan I	959-98-8	---	---	< 0 1	NA	< 0 02	NA
Endosulfan Sulfate	1031-07-8	---	---	< 0 1	NA	< 0 02	NA
Endrin Aldehyde	7421-93-4	---	---	< 0 1	NA	< 0 02	NA
Methoxychlor	72-43-5	---	---	< 0 1	NA	< 0 02	NA
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0 2	NA	< 0 2	NA
PCB-1221	11104-28-2	---	---	< 0 2	NA	< 0 2	NA
PCB-1232	11141-16-5	---	---	< 0 2	NA	< 0 2	NA
PCB-1242	53469-21-9	---	---	< 0 2	NA	< 0 2	NA
PCB-1248	12672-29-6	---	---	< 0 2	NA	< 0 2	NA
PCB-1254	11097-69-1	---	---	< 0 2	NA	< 0 2	NA
PCB-1260	11096-82-5	---	---	< 0 2	NA	< 0 2	NA
TOTAL PCBs		0 000967	monitor	0		0	

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		April-15 4/15/2015	May-15 5/1/2015	June-15 6/3/2015	June-15 6/24/2015
		Discharge Limits					
		30 Day Avg	Daily Max				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 5	NA	< 5	NA
2-Methylnaphthalene	91-57-6	---	---	< 5	NA	< 5	NA
2-Nitroaniline	88-74-4	---	---	< 5	NA	< 5	NA
2,4,5-Trchlorophenol	95-95-4	---	---	< 5	NA	< 5	NA
2-Chlorophenol	95-57-8	---	---	< 5	NA	< 5	NA
Phenol	108-95-2	monitor	monitor	< 5	NA	< 5	NA
2-Nitrophenol	88-75-5	---	---	< 5	NA	< 5	NA
2,4-Dimethylphenol	105-67-9	---	---	< 5	NA	< 5	NA
2,4-Dichlorophenol	120-83-2	---	---	< 5	NA	< 5	NA
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	NA	< 5	NA
2,4,6-Trchlorophenol	88-06-2	---	---	< 5	NA	< 5	NA
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	NA	< 5	NA
1,3-Dichlorobenzene	541-73-1	---	---	< 5	NA	< 5	NA
1,4-Dichlorobenzene	106-46-7	---	---	< 5	NA	< 5	NA
1,2-Dichlorobenzene	95-50-1	---	---	< 5	NA	< 5	NA
Hexachloroethane	67-72-1	---	---	< 5	NA	< 5	NA
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	NA	< 5	NA
Nitrobenzene	98-95-3	---	---	< 5	NA	< 5	NA
Isophorone	78-59-1	---	---	< 5	NA	< 5	NA
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	NA	< 5	NA
1,2,4-Trchlorobenzene	120-82-1	---	---	< 5	NA	< 5	NA
Hexachlorobutadiene	87-68-3	---	---	< 5	NA	< 5	NA
Hexachlorocyclopentadiene	77-47-4	---	---	< 5	NA	< 5	NA
2-Chloronaphthalene	91-58-7	---	---	< 5	NA	< 5	NA
Dimethylphthalate	131-11-3	monitor	monitor	< 5	NA	< 5	NA
2-methylphenol	95-48-7	---	---	< 5	NA	< 5	NA
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 5	NA	< 5	NA
4-methylphenol (total)	106-44-5	monitor	140	< 5	NA	< 5	NA
Dibenzofuran	132-64-9	---	---	< 5	NA	< 5	NA
3-Nitroaniline	99-09-2	---	---	< 5	NA	< 5	NA
4-Nitroaniline	100-01-6	---	---	< 5	NA	< 5	NA
2,4-Dinitrophenol	51-28-5	---	---	< 5	NA	< 5	NA
4-Nitrophenol	100-02-7	---	---	< 5	NA	< 5	NA
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 5	NA	< 5	NA
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	NA	< 5	NA
2,6-Dinitrotoluene	606-20-2	---	---	< 5	NA	< 5	NA
2,4-Dinitrotoluene	121-14-2	---	---	< 5	NA	< 5	NA
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	NA	< 5	NA
Diethylphthalate	84-66-2	monitor	2600	< 5	NA	< 5	NA
N-nitrosodiphenylamine	86-30-6	---	---	< 5	NA	< 5	NA
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	NA	< 5	NA
Hexachlorobenzene	118-74-1	---	---	< 5	NA	< 5	NA
di-n-butylphthalate	84-74-2	monitor	350	< 5	NA	< 5	NA
Butylbenzylphthalate	85-68-7	---	---	< 5	NA	< 5	NA
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	NA	< 5	NA
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	NA	< 5	NA
Di-n-octylphthalate	117-84-0	---	---	< 5	NA	< 5	NA
Carbazole	86-74-8	---	---	< 5	NA	< 5	NA

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit Discharge Limits		Apr-15	May-15	June-15	June-15
		30 Day Avg.	Daily Max.	4/15/2015	5/1/2015	6/3/2015	6/24/2015
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 5	NA	< 5	NA
Acenaphthylene	208-96-8	---	---	< 5	NA	< 5	NA
Anthracene	120-12-7	---	---	< 5	NA	< 5	NA
Fluorene	86-73-7	---	---	< 5	NA	< 5	NA
Phenanthrene	85-01-8	---	---	< 5	NA	< 5	NA
Acenaphthene	83-32-9	monitor	67	< 5	NA	< 5	NA
Benzo (a) pyrene	50-32-8	---	---	< 5	NA	< 5	NA
Chrysene	218-01-9	---	---	< 5	NA	< 5	NA
Fluoranthene	206-44-0	66	200	< 5	NA	< 5	NA
Pyrene	129-00-0	---	---	< 5	NA	< 5	NA
Benzo (a) anthracene	56-55-3	---	---	< 5	NA	< 5	NA
Benzo (k) flouranthene	207-08-9	---	---	< 5	NA	< 5	NA
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	NA	< 5	NA
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	NA	< 5	NA
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	NA	< 5	NA
Benzo (b) flouranthene	205-99-2	---	---	< 5	NA	< 5	NA
Total PAHs		0.376	monitor	0	NA	0	NA
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 1	NA	< 1	NA
Vinyl Chloride	75-01-4	---	---	< 1	NA	< 1	NA
Bromomethane	74-83-9	---	---	< 1	NA	< 1	NA
Chloroethane	75-00-3	---	---	< 1	NA	< 1	NA
1,1-Dichloroethene	75-35-4	---	---	< 1	NA	< 1	NA
Methylene Chloride	75-09-2	---	---	< 5	NA	< 5	NA
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	NA	< 1	NA
1,1-Dichloroethane	75-34-3	---	---	< 1	NA	< 1	NA
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	NA	< 1	NA
Chloroform	67-66-3	---	---	< 1	NA	< 1	NA
1,1,1-Trichloroethane	71-55-6	---	---	< 1	NA	< 1	NA
Carbon Tetrachloride	56-23-5	---	---	< 1	NA	< 1	NA
Benzene	71-43-2	57	134	< 1	NA	< 1	NA
1,2-Dichloroethane	107-06-2	180	574	< 1	NA	< 1	NA
Trichloroethene	79-01-6	---	---	< 1	NA	< 1	NA
1,2-Dichloropropane	78-87-5	---	---	< 1	NA	< 1	NA
Bromodichloromethane	75-27-4	---	---	< 1	NA	< 1	NA
Toluene	108-88-3	28	74	< 1	NA	< 1	NA
1,1,2-Trichloroethane	79-00-5	---	---	< 1	NA	< 1	NA
Tetrachloroethene	127-18-4	52	164	< 1	NA	< 1	NA
Dibromochloromethane	124-48-1	---	---	< 1	NA	< 1	NA
Chlorobenzene	108-90-7	---	---	< 1	NA	< 1	NA
Ethylbenzene	100-41-4	142	380	< 1	NA	< 1	NA
Styrene	100-42-5	monitor	1300	< 1	NA	< 1	NA
Bromoform	75-25-2	---	---	< 1	NA	< 1	NA
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	NA	< 1	NA
Acetone (total)	67-64-1	monitor	550	< 10	NA	< 10	NA
Carbon Disulfide	75-15-0	---	---	< 1	NA	< 1	NA
2-Butanone	78-93-3	---	---	< 5	NA	< 5	NA
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	NA	< 1	NA
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	NA	< 1	NA
4-Methyl-2-pentanone	108-10-1	---	---	< 5	NA	< 5	NA
2-Hexanone	591-78-6	---	---	< 5	NA	< 5	NA
Total Xylene	1330-20-7	---	---	< 3	NA	< 3	NA

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		February-15	March-15	April-15	May-15
		30 Day Avg.	Daily Max.	2/1/2015	3/11/2015	4/15/2015	5/1/2015
Metals (mg/L)							
Mercury	7439-97-6	0.000013	0.0011	NA	< 0.0002	< 0.0002	NA
Antimony	7440-36-0	monitor	monitor	NA	< 0.005	< 0.005	NA
Chromium	7440-47-3	0.119	2.6	NA	0.00015 J	< 0.005	NA
Copper	7440-50-8	monitor	0.027	NA	0.017	0.016	NA
Lead	7439-92-1	0.121	0.23	NA	< 0.005	0.00036 J	NA
Nickel	7440-02-0	0.24	2.3	NA	0.0085	0.0091	NA
Zinc	7440-66-6	monitor	0.17	NA	0.083	0.13	NA
Arsenic	7440-38-2	0.122	0.36	NA	0.00058 J	0.0011 J	NA
Beryllium	7440-41-7	0.00142	1	NA	< 0.002	< 0.002	NA
Cadmium	7440-43-9	monitor	0.0089	NA	< 0.0002	< 0.0002	NA
Silver	7440-22-4	monitor	0.0034	NA	< 0.005	< 0.005	NA
Cyanide (free)	57-12-5	monitor	0.046	NA	< 0.005	< 0.005	NA
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	NA	6.9	7.04	NA
TSS	TSS	30	45	NA	< 3	< 3	NA
Ammonia Nitrogen	7664-41-7	monitor	monitor	NA	1.4	2.9	NA
Oil & Grease (total)	O&G	10	10	NA	2.1 J	< 5	NA
BOD	BOD	monitor	monitor	NA	< 7.2	< 7.2	NA
Pesticides (ug/L)							
Endrin Ketone	53494-70-5	---	---	NA	< 0.02	< 0.1	NA
Alpha Chlordane	5103-71-9	---	---	NA	< 0.02	< 0.1	NA
Gamma Chlordane	5103-74-2	---	---	NA	< 0.02	< 0.1	NA
Alpha BHC	319-84-6	---	---	NA	< 0.02	< 0.1	NA
Beta BHC	319-85-7	---	---	NA	< 0.02	< 0.1	NA
Gamma BHC-Lindane	58-89-9	---	---	NA	< 0.02	< 0.1	NA
Delta BHC	319-86-8	---	---	NA	< 0.02	< 0.1	NA
Heptachlor	76-44-8	0.00331	monitor	NA	< 0.02	< 0.1	NA
Aldrin	309-00-2	0.000884	monitor	NA	< 0.02	< 0.1	NA
Heptachlor Epoxide	1024-57-3	---	---	NA	< 0.02	< 0.1	NA
p,p-DDE	72-55-9	---	---	NA	< 0.02	< 0.1	NA
p,p-DDD	72-54-8	---	---	NA	< 0.02	< 0.1	NA
p,p-DDT	50-29-3	0.000227	monitor	NA	< 0.02	< 0.1	NA
Dieldrin	60-57-1	---	---	NA	< 0.02	< 0.1	NA
Endrin	72-20-8	---	---	NA	< 0.02	< 0.1	NA
Toxaphene	8001-35-2	---	---	NA	< 4	< 20	NA
Endosulfan II	33213-65-9	---	---	NA	< 0.02	< 0.1	NA
Endosulfan I	959-98-8	---	---	NA	< 0.02	< 0.1	NA
Endosulfan Sulfate	1031-07-8	---	---	NA	< 0.02	< 0.1	NA
Endrin Aldehyde	7421-93-4	---	---	NA	< 0.02	< 0.1	NA
Methoxychlor	72-43-5	---	---	NA	< 0.02	< 0.1	NA
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	NA	< 0.2	< 0.2	NA
PCB-1221	11104-28-2	---	---	NA	< 0.2	< 0.2	NA
PCB-1232	11141-16-5	---	---	NA	< 0.2	< 0.2	NA
PCB-1242	53469-21-9	---	---	NA	< 0.2	< 0.2	NA
PCB-1248	12672-29-6	---	---	NA	< 0.2	< 0.2	NA
PCB-1254	11097-69-1	---	---	NA	< 0.2	< 0.2	NA
PCB-1260	11096-82-5	---	---	NA	< 0.2	< 0.2	NA
TOTAL PCBs		0.000967	monitor		0	0	

Attachment A

**2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		February-15	March-15	April-15	May-15
		Discharge Limits		2/1/2015	3/11/2015	4/15/2015	5/1/2015
		30 Day Avg.	Daily Max				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	NA	< 20	< 5	NA
2-Methylnaphthalene	91-57-6	---	---	NA	< 5	< 5	NA
2-Nitroaniline	88-74-4	---	---	NA	< 5	< 5	NA
2,4,5-Trchlorophenol	95-95-4	---	---	NA	< 5	< 5	NA
2-Chlorophenol	95-57-8	---	---	NA	< 5	< 5	NA
Phenol	108-95-2	monitor	monitor	NA	< 5	< 5	NA
2-Nitrophenol	88-75-5	---	---	NA	< 5	< 5	NA
2,4-Dimethylphenol	105-67-9	---	---	NA	< 5	< 5	NA
2,4-Dichlorophenol	120-83-2	---	---	NA	< 10	< 5	NA
4-Chloro-3-methylphenol	59-50-7	---	---	NA	< 5	< 5	NA
2,4,6-Trchlorophenol	88-06-2	---	---	NA	< 5	< 5	NA
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	NA	< 5	< 5	NA
1,3-Dichlorobenzene	541-73-1	---	---	NA	< 5	< 5	NA
1,4-Dichlorobenzene	106-46-7	---	---	NA	< 5	< 5	NA
1,2-Dichlorobenzene	95-50-1	---	---	NA	< 5	< 5	NA
Hexachloroethane	67-72-1	---	---	NA	< 5	< 5	NA
N-Nitroso-di-n-propylamine	621-64-7	---	---	NA	< 5	< 5	NA
Nitrobenzene	98-95-3	---	---	NA	< 5	< 5	NA
Isophorone	78-59-1	---	---	NA	< 5	< 5	NA
Bis(2-Chloroethoxy)methane	111-91-1	---	---	NA	< 5	< 5	NA
1,2,4-Trchlorobenzene	120-82-1	---	---	NA	< 5	< 5	NA
Hexachlorobutadiene	87-68-3	---	---	NA	< 5	< 5	NA
Hexachlorocyclopentadiene	77-47-4	---	---	NA	< 20	< 5	NA
2-Chloronaphthalene	91-58-7	---	---	NA	< 5	< 5	NA
Dimethylphthalate	131-11-3	monitor	monitor	NA	< 20	< 5	NA
2-methylphenol	95-48-7	---	---	NA	< 5	< 5	NA
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	NA	< 5	< 5	NA
4-methylphenol (total)	106-44-5	monitor	140	NA	< 5	< 5	NA
Dibenzofuran	132-64-9	---	---	NA	< 5	< 5	NA
3-Nitroaniline	99-09-2	---	---	NA	< 5	< 5	NA
4-Nitroaniline	100-01-6	---	---	NA	< 5	< 5	NA
2,4-Dinitrophenol	51-28-5	---	---	NA	< 20	< 5	NA
4-Nitrophenol	100-02-7	---	---	NA	< 20	< 5	NA
4,6-Dinitro-2-methylphenol	534-52-1	---	---	NA	< 20	< 5	NA
Pentachlorophenol (total)	87-86-5	monitor	3.5	NA	< 20	< 5	NA
2,6-Dinitrotoluene	606-20-2	---	---	NA	< 5	< 5	NA
2,4-Dinitrotoluene	121-14-2	---	---	NA	< 5	< 5	NA
4-Chlorophenyl-phenylether	7005-72-3	---	---	NA	< 5	< 5	NA
Diethylphthalate	84-66-2	monitor	2600	NA	< 5	< 5	NA
N-nitrosodiphenylamine	86-30-6	---	---	NA	< 5	< 5	NA
4-Bromophenyl-phenylether	101-55-3	---	---	NA	< 5	< 5	NA
Hexachlorobenzene	118-74-1	---	---	NA	< 5	< 5	NA
di-n-butylphthalate	84-74-2	monitor	350	NA	< 5	< 5	NA
Butylbenzylphthalate	85-68-7	---	---	NA	< 5	< 5	NA
3,3'-Dichlorobenzidine	91-94-1	---	---	NA	< 20	< 5	NA
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	NA	< 5	< 5	NA
Di-n-octylphthalate	117-84-0	---	---	NA	< 5	< 5	NA
Carbazole	86-74-8	---	---	NA	< 10	< 5	NA

**Attachment A 2015 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		February-15 2/1/2015	March-15 3/11/2015	April-15 4/15/2015	May-15 5/1/2015
		Discharge Limits					
		30 Day Avg	Daily Max				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	NA	< 5	< 5	NA
Acenaphthylene	208-96-8	---	---	NA	< 5	< 5	NA
Anthracene	120-12-7	---	---	NA	< 5	< 5	NA
Fluorene	86-73-7	---	---	NA	< 5	< 5	NA
Phenanthrene	85-01-8	---	---	NA	< 5	< 5	NA
Acenaphthene	83-32-9	monitor	67	NA	< 5	< 5	NA
Benzo (a) pyrene	50-32-8	---	---	NA	< 5	< 5	NA
Chrysene	218-01-9	---	---	NA	< 5	< 5	NA
Fluoranthene	206-44-0	66	200	NA	< 5	< 5	NA
Pyrene	129-00-0	---	---	NA	< 5	< 5	NA
Benzo (a) anthracene	56-55-3	---	---	NA	< 5	< 5	NA
Benzo (k) flouranthene	207-08-9	---	---	NA	< 5	< 5	NA
Benzo (g,h,i) perylene	191-24-2	---	---	NA	< 5	< 5	NA
Dibenz (a,h) anthracene	53-70-3	---	---	NA	< 5	< 5	NA
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	NA	< 5	< 5	NA
Benzo (b) flouranthene	205-99-2	---	---	NA	< 5	< 5	NA
Total PAHs		0 376	monitor	NA	0	0	NA
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	NA	< 1	< 1	NA
Vinyl Chloride	75-01-4	---	---	NA	< 1	< 1	NA
Bromomethane	74-83-9	---	---	NA	< 1	< 1	NA
Chloroethane	75-00-3	---	---	NA	< 1	< 1	NA
1,1-Dichloroethene	75-35-4	---	---	NA	< 1	< 1	NA
Methylene Chloride	75-09-2	---	---	NA	< 5	< 5	NA
Trans-1,2-Dichloroethene	156-60-5	---	---	NA	< 1	< 1	NA
1,1-Dichloroethane	75-34-3	---	---	NA	< 1	< 1	NA
cis-1,2-Dichloroethene	156-59-2	---	---	NA	< 1	< 1	NA
Chloroform	67-66-3	---	---	NA	< 1	< 1	NA
1,1,1-Trichloroethane	71-55-6	---	---	NA	< 1	< 1	NA
Carbon Tetrachloride	56-23-5	---	---	NA	< 1	< 1	NA
Benzene	71-43-2	57	134	NA	< 1	< 1	NA
1,2-Dichloroethane	107-06-2	180	574	NA	< 1	< 1	NA
Trichloroethene	79-01-6	---	---	NA	< 1	< 1	NA
1,2-Dichloropropane	78-87-5	---	---	NA	< 1	< 1	NA
Bromodichloromethane	75-27-4	---	---	NA	< 1	< 1	NA
Toluene	108-88-3	28	74	NA	< 1	< 1	NA
1,1,2-Trichloroethane	79-00-5	---	---	NA	< 1	< 1	NA
Tetrachloroethene	127-18-4	52	164	NA	< 1	< 1	NA
Dibromochloromethane	124-48-1	---	---	NA	< 1	< 1	NA
Chlorobenzene	108-90-7	---	---	NA	< 1	< 1	NA
Ethylbenzene	100-41-4	142	380	NA	< 1	< 1	NA
Styrene	100-42-5	monitor	1300	NA	< 1	< 1	NA
Bromoform	75-25-2	---	---	NA	< 1	< 1	NA
1,1,2,2-Tetrachloroethane	79-34-5	---	---	NA	< 1	< 1	NA
Acetone (total)	67-64-1	monitor	550	NA	< 10	< 10	NA
Carbon Disulfide	75-15-0	---	---	NA	< 1	< 1	NA
2-Butanone	78-93-3	---	---	NA	< 5	< 5	NA
Trans-1,3-Dichloropropene	10061-02-6	---	---	NA	< 1	< 1	NA
cis-1,3-Dichloropropene	10061-01-5	---	---	NA	< 1	< 1	NA
4-Methyl-2-pentanone	108-10-1	---	---	NA	< 5	< 5	NA
2-Hexanone	591-78-6	---	---	NA	< 5	< 5	NA
Total Xylene	1330-20-7	---	---	NA	< 3	< 3	NA

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

Attachment A

2014-15 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit		January-15 1/21/2015	February-15 2/1/2015	March-15 3/11/2015	April-15 4/15/2015
		Discharge Limits					
		30 Day Avg.	Daily Max.				
Metals (mg/L)							
Mercury	7439-97-6	0.000013	0.0011	< 0.0002	NA	< 0.0002	< 0.0002
Antimony	7440-36-0	monitor	monitor	< 0.005	NA	< 0.005	< 0.005
Chromium	7440-47-3	0.119	2.6	0.0003 J	NA	0.00015 J	< 0.005
Copper	7440-50-8	monitor	0.027	0.021	NA	0.017	0.016
Lead	7439-92-1	0.121	0.23	< 0.005	NA	< 0.005	0.00036 J
Nickel	7440-02-0	0.24	2.3	0.011	NA	0.0085	0.0091
Zinc	7440-66-6	monitor	0.17	0.066	NA	0.083	0.13
Arsenic	7440-38-2	0.122	0.36	0.00067 J	NA	0.00058 J	0.0011 J
Beryllium	7440-41-7	0.00142	1	< 0.002	NA	< 0.002	< 0.002
Cadmium	7440-43-9	monitor	0.0089	< 0.0002	NA	< 0.0002	< 0.0002
Silver	7440-22-4	monitor	0.0034	< 0.005	NA	< 0.005	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	< 0.005	NA	< 0.005	< 0.005
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	6.9	NA	6.9	7.04
TSS	TSS	30	45	< 3	NA	< 3	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	2.4	NA	1.4	2.9
Oil & Grease (total)	O&G	10	10	1.6 J	NA	2.1 J	< 5
BOD	BOD	monitor	monitor	< 7.2	NA	< 7.2	< 7.2
Pesticides (ug/L)							
Endnn Ketone	53494-70-5	---	---	< 0.02	NA	< 0.02	< 0.1
Alpha Chlordane	5103-71-9	---	---	< 0.02	NA	< 0.02	< 0.1
Gamma Chlordane	5103-74-2	---	---	< 0.02	NA	< 0.02	< 0.1
Alpha BHC	319-84-6	---	---	< 0.02	NA	< 0.02	< 0.1
Beta BHC	319-85-7	---	---	< 0.02	NA	< 0.02	< 0.1
Gamma BHC-Lindane	58-89-9	---	---	< 0.02	NA	< 0.02	< 0.1
Delta BHC	319-86-8	---	---	< 0.02	NA	< 0.02	< 0.1
Heptachlor	76-44-8	0.00331	monitor	< 0.02	NA	< 0.02	< 0.1
Aldnn	309-00-2	0.000884	monitor	< 0.02	NA	< 0.02	< 0.1
Heptachlor Epoxide	1024-57-3	---	---	< 0.02	NA	< 0.02	< 0.1
p,p-DDE	72-55-9	---	---	< 0.02	NA	< 0.02	< 0.1
p,p-DDD	72-54-8	---	---	< 0.02	NA	< 0.02	< 0.1
p,p-DDT	50-29-3	0.000227	monitor	< 0.02	NA	< 0.02	< 0.1
Diendnn	60-57-1	---	---	< 0.02	NA	< 0.02	< 0.1
Endnn	72-20-8	---	---	< 0.02	NA	< 0.02	< 0.1
Toxaphene	8001-35-2	---	---	< 4	NA	< 4	< 20
Endosulfan II	33213-65-9	---	---	< 0.02	NA	< 0.02	< 0.1
Endosulfan I	959-98-8	---	---	< 0.02	NA	< 0.02	< 0.1
Endosulfan Sulfate	1031-07-8	---	---	< 0.02	NA	< 0.02	< 0.1
Endnn Aldehyde	7421-93-4	---	---	< 0.02	NA	< 0.02	< 0.1
Methoxychlor	72-43-5	---	---	< 0.02	NA	< 0.02	< 0.1
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0.2	NA	< 0.2	< 0.2
PCB-1221	11104-28-2	---	---	< 0.2	NA	< 0.2	< 0.2
PCB-1232	11141-16-5	---	---	< 0.2	NA	< 0.2	< 0.2
PCB-1242	53469-21-9	---	---	< 0.2	NA	< 0.2	< 0.2
PCB-1248	12672-29-6	---	---	< 0.2	NA	< 0.2	< 0.2
PCB-1254	11097-69-1	---	---	< 0.2	NA	< 0.2	< 0.2
PCB-1260	11096-82-5	---	---	< 0.2	NA	< 0.2	< 0.2
TOTAL PCBs		0.000967	monitor	0		0	0

**Attachment A 2014-15 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit Discharge Limits		January-15	February-15	March-15	April-15
		30 Day Avg.	Daily Max	1/21/2015	2/1/2015	3/11/2015	4/15/2015
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 20	NA	< 20	< 5
2-Methylnaphthalene	91-57-6	---	---	< 5	NA	< 5	< 5
2-Nitroaniline	88-74-4	---	---	< 5	NA	< 5	< 5
2,4,5-Trchlorophenol	95-95-4	---	---	< 5	NA	< 5	< 5
2-Chlorophenol	95-57-8	---	---	< 5	NA	< 5	< 5
Phenol	108-95-2	monitor	monitor	< 5	NA	< 5	< 5
2-Nitrophenol	88-75-5	---	---	< 5	NA	< 5	< 5
2,4-Dimethylphenol	105-67-9	---	---	< 5	NA	< 5	< 5
2,4-Dichlorophenol	120-83-2	---	---	< 10	NA	< 10	< 5
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	NA	< 5	< 5
2,4,6-Trchlorophenol	88-06-2	---	---	< 5	NA	< 5	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	NA	< 5	< 5
1,3-Dichlorobenzene	541-73-1	---	---	< 5	NA	< 5	< 5
1,4-Dichlorobenzene	106-46-7	---	---	< 5	NA	< 5	< 5
1,2-Dichlorobenzene	95-50-1	---	---	< 5	NA	< 5	< 5
Hexachloroethane	67-72-1	---	---	< 5	NA	< 5	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	NA	< 5	< 5
Nitrobenzene	98-95-3	---	---	< 5	NA	< 5	< 5
Isophorone	78-59-1	---	---	< 5	NA	< 5	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	NA	< 5	< 5
1,2,4-Trchlorobenzene	120-82-1	---	---	< 5	NA	< 5	< 5
Hexachlorobutadiene	87-68-3	---	---	< 5	NA	< 5	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	< 20	NA	< 20	< 5
2-Chloronaphthalene	91-58-7	---	---	< 5	NA	< 5	< 5
Dimethylphthalate	131-11-3	monitor	monitor	< 20	NA	< 20	< 5
2-methylphenol	95-48-7	---	---	< 5	NA	< 5	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 5	NA	< 5	< 5
4-methylphenol (total)	106-44-5	monitor	140	< 5	NA	< 5	< 5
Dibenzofuran	132-64-9	---	---	< 5	NA	< 5	< 5
3-Nitroaniline	99-09-2	---	---	< 5	NA	< 5	< 5
4-Nitroaniline	100-01-6	---	---	< 5	NA	< 5	< 5
2,4-Dinitrophenol	51-28-5	---	---	< 20	NA	< 20	< 5
4-Nitrophenol	100-02-7	---	---	< 20	NA	< 20	< 5
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 20	NA	< 20	< 5
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 20	NA	< 20	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 5	NA	< 5	< 5
2,4-Dinitrotoluene	121-14-2	---	---	< 5	NA	< 5	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	NA	< 5	< 5
Diethylphthalate	84-66-2	monitor	2600	< 5	NA	< 5	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 5	NA	< 5	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	NA	< 5	< 5
Hexachlorobenzene	118-74-1	---	---	< 5	NA	< 5	< 5
di-n-butylphthalate	84-74-2	monitor	350	< 5	NA	< 5	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	NA	< 5	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 20	NA	< 20	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	NA	< 5	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	NA	< 5	< 5
Carbazole	86-74-8	---	---	< 10	NA	< 10	< 5

**Attachment A 2014-15 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		January-15	February-15	March-15	April-15
		Discharge Limits		1/21/2015	2/1/2015	3/11/2015	4/15/2015
		30 Day Avg	Daily Max				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 5	NA	< 5	< 5
Acenaphthylene	208-96-8	---	---	< 5	NA	< 5	< 5
Anthracene	120-12-7	---	---	< 5	NA	< 5	< 5
Fluorene	86-73-7	---	---	< 5	NA	< 5	< 5
Phenanthrene	85-01-8	---	---	< 5	NA	< 5	< 5
Acenaphthene	83-32-9	monitor	67	< 5	NA	< 5	< 5
Benzo (a) pyrene	50-32-8	---	---	< 5	NA	< 5	< 5
Chrysene	218-01-9	---	---	< 5	NA	< 5	< 5
Fluoranthene	206-44-0	66	200	< 5	NA	< 5	< 5
Pyrene	129-00-0	---	---	< 5	NA	< 5	< 5
Benzo (a) anthracene	56-55-3	---	---	< 5	NA	< 5	< 5
Benzo (k) flouranthene	207-08-9	---	---	< 5	NA	< 5	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	NA	< 5	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	NA	< 5	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	NA	< 5	< 5
Benzo (b) flouranthene	205-99-2	---	---	< 5	NA	< 5	< 5
Total PAHs		0 376	monitor	0	NA	0	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 1	NA	< 1	< 1
Vinyl Chloride	75-01-4	---	---	< 1	NA	< 1	< 1
Bromomethane	74-83-9	---	---	< 1	NA	< 1	< 1
Chloroethane	75-00-3	---	---	< 1	NA	< 1	< 1
1,1-Dichloroethene	75-35-4	---	---	< 1	NA	< 1	< 1
Methylene Chloride	75-09-2	---	---	< 5	NA	< 5	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	NA	< 1	< 1
1,1-Dichloroethane	75-34-3	---	---	< 1	NA	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	NA	< 1	< 1
Chloroform	67-66-3	---	---	< 1	NA	< 1	< 1
1,1,1-Trichloroethane	71-55-6	---	---	< 1	NA	< 1	< 1
Carbon Tetrachloride	56-23-5	---	---	< 1	NA	< 1	< 1
Benzene	71-43-2	57	134	< 1	NA	< 1	< 1
1,2-Dichloroethane	107-06-2	180	574	< 1	NA	< 1	< 1
Trichloroethene	79-01-6	---	---	< 1	NA	< 1	< 1
1,2-Dichloropropane	78-87-5	---	---	< 1	NA	< 1	< 1
Bromodichloromethane	75-27-4	---	---	< 1	NA	< 1	< 1
Toluene	108-88-3	28	74	< 1	NA	< 1	< 1
1,1,2-Trichloroethane	79-00-5	---	---	< 1	NA	< 1	< 1
Tetrachloroethene	127-18-4	52	164	< 1	NA	< 1	< 1
Dibromochloromethane	124-48-1	---	---	< 1	NA	< 1	< 1
Chlorobenzene	108-90-7	---	---	< 1	NA	< 1	< 1
Ethylbenzene	100-41-4	142	380	< 1	NA	< 1	< 1
Styrene	100-42-5	monitor	1300	< 1	NA	< 1	< 1
Bromoform	75-25-2	---	---	< 1	NA	< 1	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	NA	< 1	< 1
Acetone (total)	67-64-1	monitor	550	< 10	NA	< 10	< 10
Carbon Disulfide	75-15-0	---	---	< 1	NA	< 1	< 1
2-Butanone	78-93-3	---	---	< 5	NA	< 5	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	NA	< 1	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	NA	< 1	< 1
4-Methyl-2-pentanone	108-10-1	---	---	< 5	NA	< 5	< 5
2-Hexanone	591-78-6	---	---	< 5	NA	< 5	< 5
Total Xylene	1330-20-7	---	---	< 3	NA	< 3	< 3

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

Attachment A

2014-15 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit Discharge Limits		December-14	January-15	February-15	March-15
		30 Day Avg.	Daily Max.	12/17/2014	1/21/2015	2/1/2015	3/11/2015
Metals (mg/L)							
Mercury	7439-97-6	0.000013	0.0011	< 0.0002	< 0.0002	NA	< 0.0002
Antimony	7440-36-0	monitor	monitor	< 0.005	< 0.005	NA	< 0.005
Chromium	7440-47-3	0.119	2.6	< 0.005	0.0003 J	NA	0.00015 J
Copper	7440-50-8	monitor	0.027	0.019	0.021	NA	0.017
Lead	7439-92-1	0.121	0.23	< 0.005	< 0.005	NA	< 0.005
Nickel	7440-02-0	0.24	2.3	0.011	0.011	NA	0.0085
Zinc	7440-66-6	monitor	0.17	0.062	0.066	NA	0.083
Arsenic	7440-38-2	0.122	0.36	0.00073 J	0.00067 J	NA	0.00058 J
Beryllium	7440-41-7	0.00142	1	< 0.002	< 0.002	NA	< 0.002
Cadmium	7440-43-9	monitor	0.0089	< 0.0002	< 0.0002	NA	< 0.0002
Silver	7440-22-4	monitor	0.0034	< 0.005	< 0.005	NA	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	< 0.005	< 0.005	NA	< 0.005
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	7	6.9	NA	6.9
TSS	TSS	30	45	< 3	< 3	NA	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	1.9	2.4	NA	1.4
Oil & Grease (total)	O&G	10	10	< 5	1.6 J	NA	2.1 J
BOD	BOD	monitor	monitor	< 7.2	< 7.2	NA	< 7.2
Pesticides (ug/L)							
Endrin Ketone	53494-70-5	---	---	< 0.02	< 0.02	NA	< 0.02
Alpha Chlordane	5103-71-9	---	---	< 0.02	< 0.02	NA	< 0.02
Gamma Chlordane	5103-74-2	---	---	< 0.02	< 0.02	NA	< 0.02
Alpha BHC	319-84-6	---	---	< 0.02	< 0.02	NA	< 0.02
Beta BHC	319-85-7	---	---	< 0.02	< 0.02	NA	< 0.02
Gamma BHC-Lindane	58-89-9	---	---	< 0.02	< 0.02	NA	< 0.02
Delta BHC	319-86-8	---	---	< 0.02	< 0.02	NA	< 0.02
Heptachlor	76-44-8	0.00331	monitor	< 0.02	< 0.02	NA	< 0.02
Aldrin	309-00-2	0.000884	monitor	< 0.02	< 0.02	NA	< 0.02
Heptachlor Epoxide	1024-57-3	---	---	< 0.02	< 0.02	NA	< 0.02
p,p-DDE	72-55-9	---	---	< 0.02	< 0.02	NA	< 0.02
p,p-DDD	72-54-8	---	---	< 0.02	< 0.02	NA	< 0.02
p,p-DDT	50-29-3	0.000227	monitor	< 0.02	< 0.02	NA	< 0.02
Dieldrin	60-57-1	---	---	< 0.02	< 0.02	NA	< 0.02
Endrin	72-20-8	---	---	< 0.02	< 0.02	NA	< 0.02
Toxaphene	8001-35-2	---	---	< 4	< 4	NA	< 4
Endosulfan II	33213-65-9	---	---	< 0.02	< 0.02	NA	< 0.02
Endosulfan I	959-98-8	---	---	< 0.02	< 0.02	NA	< 0.02
Endosulfan Sulfate	1031-07-8	---	---	< 0.02	< 0.02	NA	< 0.02
Endrin Aldehyde	7421-93-4	---	---	< 0.02	< 0.02	NA	< 0.02
Methoxychlor	72-43-5	---	---	< 0.02	< 0.02	NA	< 0.02
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0.22	< 0.2	NA	< 0.2
PCB-1221	11104-28-2	---	---	< 0.22	< 0.2	NA	< 0.2
PCB-1232	11141-16-5	---	---	< 0.22	< 0.2	NA	< 0.2
PCB-1242	53469-21-9	---	---	< 0.22	< 0.2	NA	< 0.2
PCB-1248	12672-29-6	---	---	< 0.22	< 0.2	NA	< 0.2
PCB-1254	11097-69-1	---	---	< 0.22	< 0.2	NA	< 0.2
PCB-1260	11096-82-5	---	---	< 0.22	< 0.2	NA	< 0.2
TOTAL PCBs		0.000967	monitor	0	0		0

**Attachment A 2014-15 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		December-14 12/17/2014	January-15 1/21/2015	February-15 2/1/2015	March-15 3/11/2015
		Discharge Limits					
		30 Day Avg.	Daily Max.				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 20	< 20	NA	< 20
2-Methylnaphthalene	91-57-6	---	---	< 5	< 5	NA	< 5
2-Nitroaniline	88-74-4	---	---	< 5	< 5	NA	< 5
2,4,5-Trchlorophenol	95-95-4	---	---	< 5	< 5	NA	< 5
2-Chlorophenol	95-57-8	---	---	< 5	< 5	NA	< 5
Phenol	108-95-2	monitor	monitor	< 5	< 5	NA	< 5
2-Nitrophenol	88-75-5	---	---	< 5	< 5	NA	< 5
2,4-Dimethylphenol	105-67-9	---	---	< 5	< 5	NA	< 5
2,4-Dichlorophenol	120-83-2	---	---	< 10	< 10	NA	< 10
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	< 5	NA	< 5
2,4,6-Trchlorophenol	88-06-2	---	---	< 5	< 5	NA	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	< 5	NA	< 5
1,3-Dichlorobenzene	541-73-1	---	---	< 5	< 5	NA	< 5
1,4-Dichlorobenzene	106-46-7	---	---	< 5	< 5	NA	< 5
1,2-Dichlorobenzene	95-50-1	---	---	< 5	< 5	NA	< 5
Hexachloroethane	67-72-1	---	---	< 5	< 5	NA	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	< 5	NA	< 5
Nitrobenzene	98-95-3	---	---	< 5	< 5	NA	< 5
Isophorone	78-59-1	---	---	< 5	< 5	NA	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	< 5	NA	< 5
1,2,4-Trchlorobenzene	120-82-1	---	---	< 5	< 5	NA	< 5
Hexachlorobutadiene	87-68-3	---	---	< 5	< 5	NA	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	< 20	< 20	NA	< 20
2-Chloronaphthalene	91-58-7	---	---	< 5	< 5	NA	< 5
Dimethylphthalate	131-11-3	monitor	monitor	< 20	< 20	NA	< 20
2-methylphenol	95-48-7	---	---	< 5	< 5	NA	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 5	< 5	NA	< 5
4-methylphenol (total)	106-44-5	monitor	140	< 5	< 5	NA	< 5
Dibenzofuran	132-64-9	---	---	< 5	< 5	NA	< 5
3-Nitroaniline	99-09-2	---	---	< 5	< 5	NA	< 5
4-Nitroaniline	100-01-6	---	---	< 5	< 5	NA	< 5
2,4-Dinitrophenol	51-28-5	---	---	< 20	< 20	NA	< 20
4-Nitrophenol	100-02-7	---	---	< 20	< 20	NA	< 20
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 20	< 20	NA	< 20
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 20	< 20	NA	< 20
2,6-Dinitrotoluene	606-20-2	---	---	< 5	< 5	NA	< 5
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5	NA	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	< 5	NA	< 5
Diethylphthalate	84-66-2	monitor	2600	< 5	< 5	NA	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 5	< 5	NA	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	< 5	NA	< 5
Hexachlorobenzene	118-74-1	---	---	< 5	< 5	NA	< 5
d-n-butylphthalate	84-74-2	monitor	350	< 5	< 5	NA	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5	NA	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 20	< 20	NA	< 20
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5	NA	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5	NA	< 5
Carbazole	86-74-8	---	---	< 10	< 10	NA	< 10

**Attachment A 2014-15 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		December-14 12/17/2014	January-15 1/21/2015	February-15 2/1/2015	March-15 3/11/2015
		Discharge Limits					
		30 Day Avg.	Daily Max				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 5	< 5	NA	< 5
Acenaphthylene	208-96-8	---	---	< 5	< 5	NA	< 5
Anthracene	120-12-7	---	---	< 5	< 5	NA	< 5
Fluorene	86-73-7	---	---	< 5	< 5	NA	< 5
Phenanthrene	85-01-8	---	---	< 5	< 5	NA	< 5
Acenaphthene	83-32-9	monitor	67	< 5	< 5	NA	< 5
Benzo (a) pyrene	50-32-8	---	---	< 5	< 5	NA	< 5
Chrysene	218-01-9	---	---	< 5	< 5	NA	< 5
Fluoranthene	206-44-0	66	200	< 5	< 5	NA	< 5
Pyrene	129-00-0	---	---	< 5	< 5	NA	< 5
Benzo (a) anthracene	56-55-3	---	---	< 5	< 5	NA	< 5
Benzo (k) flouranthene	207-08-9	---	---	< 5	< 5	NA	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	< 5	NA	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	< 5	NA	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	< 5	NA	< 5
Benzo (b) flouranthene	205-99-2	---	---	< 5	< 5	NA	< 5
Total PAHs		0.376	monitor	0	0	NA	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 1	< 1	NA	< 1
Vinyl Chloride	75-01-4	---	---	< 1	< 1	NA	< 1
Bromomethane	74-83-9	---	---	< 1	< 1	NA	< 1
Chloroethane	75-00-3	---	---	< 1	< 1	NA	< 1
1,1-Dichloroethene	75-35-4	---	---	< 1	< 1	NA	< 1
Methylene Chloride	75-09-2	---	---	< 5	< 5	NA	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	< 1	NA	< 1
1,1-Dichloroethane	75-34-3	---	---	< 1	< 1	NA	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	< 1	NA	< 1
Chloroform	67-66-3	---	---	< 1	< 1	NA	< 1
1,1,1-Trichloroethane	71-55-6	---	---	< 1	< 1	NA	< 1
Carbon Tetrachloride	56-23-5	---	---	< 1	< 1	NA	< 1
Benzene	71-43-2	57	134	< 1	< 1	NA	< 1
1,2-Dichloroethane	107-06-2	180	574	< 1	< 1	NA	< 1
Trichloroethene	79-01-6	---	---	< 1	< 1	NA	< 1
1,2-Dichloropropane	78-87-5	---	---	< 1	< 1	NA	< 1
Bromodichloromethane	75-27-4	---	---	< 1	< 1	NA	< 1
Toluene	108-88-3	28	74	< 1	< 1	NA	< 1
1,1,2-Trichloroethane	79-00-5	---	---	< 1	< 1	NA	< 1
Tetrachloroethene	127-18-4	52	164	< 1	< 1	NA	< 1
Dibromochloromethane	124-48-1	---	---	< 1	< 1	NA	< 1
Chlorobenzene	108-90-7	---	---	< 1	< 1	NA	< 1
Ethylbenzene	100-41-4	142	380	< 1	< 1	NA	< 1
Styrene	100-42-5	monitor	1300	< 1	< 1	NA	< 1
Bromoform	75-25-2	---	---	< 1	< 1	NA	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	< 1	NA	< 1
Acetone (total)	67-64-1	monitor	550	< 10	< 10	NA	< 10
Carbon Disulfide	75-15-0	---	---	< 1	< 1	NA	< 1
2-Butanone	78-93-3	---	---	< 5	< 5	NA	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	< 1	NA	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	< 1	NA	< 1
4-Methyl-2-pentanone	108-10-1	---	---	< 5	< 5	NA	< 5
2-Hexanone	591-78-6	---	---	< 5	< 5	NA	< 5
Total Xylene	1330-20-7	---	---	< 3	< 3	NA	< 3

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed

Attachment A

2014-15 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit Discharge Limits		November-14	December-14	January-15	February-15
		30 Day Avg.	Daily Max	11/12/2014	12/17/2014	1/21/2015	2/1/2015
Metals (mg/L)							
Mercury	7439-97-6	0.000013	0.0011	< 0.0002	< 0.0002	< 0.0002	NA
Antimony	7440-36-0	monitor	monitor	< 0.005	< 0.005	< 0.005	NA
Chromium	7440-47-3	0.119	2.6	0.00014 J	< 0.005	0.0003 J	NA
Copper	7440-50-8	monitor	0.027	0.026	0.019	0.021	NA
Lead	7439-92-1	0.121	0.23	< 0.005	< 0.005	< 0.005	NA
Nickel	7440-02-0	0.24	2.3	0.012	0.011	0.011	NA
Zinc	7440-66-6	monitor	0.17	0.074	0.062	0.066	NA
Arsenic	7440-38-2	0.122	0.36	0.00057 J	0.00073 J	0.00067 J	NA
Beryllium	7440-41-7	0.00142	1	< 0.002	< 0.002	< 0.002	NA
Cadmium	7440-43-9	monitor	0.0089	< 0.0002	< 0.0002	< 0.0002	NA
Silver	7440-22-4	monitor	0.0034	< 0.005	< 0.005	< 0.005	NA
Cyanide (free)	57-12-5	monitor	0.046	< 0.005	< 0.005	< 0.005	NA
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	7	7	6.9	NA
TSS	TSS	30	45	15 J	< 3	< 3	NA
Ammonia Nitrogen	7664-41-7	monitor	monitor	15	19	24	NA
Oil & Grease (total)	O&G	10	10	< 5	< 5	16 J	NA
BOD	BOD	monitor	monitor	< 2	< 7.2	< 7.2	NA
Pesticides (ug/L)							
Endrin Ketone	53494-70-5	---	---	< 0.02	< 0.02	< 0.02	NA
Alpha Chlordane	5103-71-9	---	---	< 0.02	< 0.02	< 0.02	NA
Gamma Chlordane	5103-74-2	---	---	< 0.02	< 0.02	< 0.02	NA
Alpha BHC	319-84-6	---	---	< 0.02	< 0.02	< 0.02	NA
Beta BHC	319-85-7	---	---	< 0.02	< 0.02	< 0.02	NA
Gamma BHC-Lindane	58-89-9	---	---	< 0.02	< 0.02	< 0.02	NA
Delta BHC	319-86-8	---	---	< 0.02	< 0.02	< 0.02	NA
Heptachlor	76-44-8	0.00331	monitor	< 0.02	< 0.02	< 0.02	NA
Aldrin	309-00-2	0.000884	monitor	< 0.02	< 0.02	< 0.02	NA
Heptachlor Epoxide	1024-57-3	---	---	< 0.02	< 0.02	< 0.02	NA
p,p-DDE	72-55-9	---	---	< 0.02	< 0.02	< 0.02	NA
p,p-DDD	72-54-8	---	---	< 0.02	< 0.02	< 0.02	NA
p,p-DDT	50-29-3	0.000227	monitor	< 0.02	< 0.02	< 0.02	NA
Dieldrin	60-57-1	---	---	< 0.02	< 0.02	< 0.02	NA
Endrin	72-20-8	---	---	< 0.02	< 0.02	< 0.02	NA
Toxaphene	8001-35-2	---	---	< 4	< 4	< 4	NA
Endosulfan II	33213-65-9	---	---	< 0.02	< 0.02	< 0.02	NA
Endosulfan I	959-98-8	---	---	< 0.02	< 0.02	< 0.02	NA
Endosulfan Sulfate	1031-07-8	---	---	< 0.02	< 0.02	< 0.02	NA
Endrin Aldehyde	7421-93-4	---	---	< 0.02	< 0.02	< 0.02	NA
Methoxychlor	72-43-5	---	---	< 0.02	< 0.02	< 0.02	NA
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0.2	< 0.22	< 0.2	NA
PCB-1221	11104-28-2	---	---	< 0.2	< 0.22	< 0.2	NA
PCB-1232	11141-16-5	---	---	< 0.2	< 0.22	< 0.2	NA
PCB-1242	53469-21-9	---	---	< 0.2	< 0.22	< 0.2	NA
PCB-1248	12672-29-6	---	---	< 0.2	< 0.22	< 0.2	NA
PCB-1254	11097-69-1	---	---	< 0.2	< 0.22	< 0.2	NA
PCB-1260	11096-82-5	---	---	< 0.2	< 0.22	< 0.2	NA
TOTAL PCBs		0.000967	monitor	0	0	0	

**Attachment A 2014-15 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		November-14	December-14	January-15	February-15
		Discharge Limits					
		30 Day Avg	Daily Max.				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 20	< 20	< 20	NA
2-Methylnaphthalene	91-57-6	---	---	< 5	< 5	< 5	NA
2-Nitroaniline	88-74-4	---	---	< 5	< 5	< 5	NA
2,4,5-Trichlorophenol	95-95-4	---	---	< 5	< 5	< 5	NA
2-Chlorophenol	95-57-8	---	---	< 5	< 5	< 5	NA
Phenol	108-95-2	monitor	monitor	< 5	< 5	< 5	NA
2-Nitrophenol	88-75-5	---	---	< 5	< 5	< 5	NA
2,4-Dimethylphenol	105-67-9	---	---	< 5	< 5	< 5	NA
2,4-Dichlorophenol	120-83-2	---	---	< 10	< 10	< 10	NA
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	< 5	< 5	NA
2,4,6-Trichlorophenol	88-06-2	---	---	< 5	< 5	< 5	NA
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	< 5	< 5	NA
1,3-Dichlorobenzene	541-73-1	---	---	< 5	< 5	< 5	NA
1,4-Dichlorobenzene	106-46-7	---	---	< 5	< 5	< 5	NA
1,2-Dichlorobenzene	95-50-1	---	---	< 5	< 5	< 5	NA
Hexachloroethane	67-72-1	---	---	< 5	< 5	< 5	NA
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	< 5	< 5	NA
Nitrobenzene	98-95-3	---	---	< 5	< 5	< 5	NA
Isophorone	78-59-1	---	---	< 5	< 5	< 5	NA
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	< 5	< 5	NA
1,2,4-Trichlorobenzene	120-82-1	---	---	< 5	< 5	< 5	NA
Hexachlorobutadiene	87-68-3	---	---	< 5	< 5	< 5	NA
Hexachlorocyclopentadiene	77-47-4	---	---	< 20	< 20	< 20	NA
2-Chloronaphthalene	91-58-7	---	---	< 5	< 5	< 5	NA
Dimethylphthalate	131-11-3	monitor	monitor	< 20	< 20	< 20	NA
2-methylphenol	95-48-7	---	---	< 5	< 5	< 5	NA
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 5	< 5	< 5	NA
4-methylphenol (total)	106-44-5	monitor	140	< 5	< 5	< 5	NA
Dibenzofuran	132-64-9	---	---	< 5	< 5	< 5	NA
3-Nitroaniline	99-09-2	---	---	< 5	< 5	< 5	NA
4-Nitroaniline	100-01-6	---	---	< 5	< 5	< 5	NA
2,4-Dinitrophenol	51-28-5	---	---	< 20	< 20	< 20	NA
4-Nitrophenol	100-02-7	---	---	< 20	< 20	< 20	NA
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 20	< 20	< 20	NA
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 20	< 20	< 20	NA
2,6-Dinitrotoluene	606-20-2	---	---	< 5	< 5	< 5	NA
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5	< 5	NA
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	< 5	< 5	NA
Diethylphthalate	84-66-2	monitor	2600	< 5	< 5	< 5	NA
N-nitrosodiphenylamine	86-30-6	---	---	< 5	< 5	< 5	NA
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	< 5	< 5	NA
Hexachlorobenzene	118-74-1	---	---	< 5	< 5	< 5	NA
di-n-butylphthalate	84-74-2	monitor	350	< 5	< 5	< 5	NA
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5	< 5	NA
3,3'-Dichlorobenzidine	91-94-1	---	---	< 20	< 20	< 20	NA
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5	< 5	NA
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5	< 5	NA
Carbazole	86-74-8	---	---	< 10	< 10	< 10	NA

**Attachment A 2014-15 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		November-14	December-14	January-15	February-15
		Discharge Limits					
		30 Day Avg.	Daily Max	11/12/2014	12/17/2014	1/21/2015	2/1/2015
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 5	< 5	< 5	NA
Acenaphthylene	208-96-8	---	---	< 5	< 5	< 5	NA
Anthracene	120-12-7	---	---	< 5	< 5	< 5	NA
Fluorene	86-73-7	---	---	< 5	< 5	< 5	NA
Phenanthrene	85-01-8	---	---	< 5	< 5	< 5	NA
Acenaphthene	83-32-9	monitor	67	< 5	< 5	< 5	NA
Benzo (a) pyrene	50-32-8	---	---	< 5	< 5	< 5	NA
Chrysene	218-01-9	---	---	< 5	< 5	< 5	NA
Fluoranthene	206-44-0	66	200	< 5	< 5	< 5	NA
Pyrene	129-00-0	---	---	< 5	< 5	< 5	NA
Benzo (a) anthracene	56-55-3	---	---	< 5	< 5	< 5	NA
Benzo (k) flouranthene	207-08-9	---	---	< 5	< 5	< 5	NA
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	< 5	< 5	NA
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	< 5	< 5	NA
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	< 5	< 5	NA
Benzo (b) flouranthene	205-99-2	---	---	< 5	< 5	< 5	NA
Total PAHs		0.376	monitor	0	0	0	NA
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 1	< 1	< 1	NA
Vinyl Chloride	75-01-4	---	---	< 1	< 1	< 1	NA
Bromomethane	74-83-9	---	---	< 1	< 1	< 1	NA
Chloroethane	75-00-3	---	---	< 1	< 1	< 1	NA
1,1-Dichloroethene	75-35-4	---	---	< 1	< 1	< 1	NA
Methylene Chloride	75-09-2	---	---	< 5	< 5	< 5	NA
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	< 1	< 1	NA
1,1-Dichloroethane	75-34-3	---	---	< 1	< 1	< 1	NA
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	< 1	< 1	NA
Chloroform	67-66-3	---	---	< 1	< 1	< 1	NA
1,1,1-Trichloroethane	71-55-6	---	---	< 1	< 1	< 1	NA
Carbon Tetrachloride	56-23-5	---	---	< 1	< 1	< 1	NA
Benzene	71-43-2	57	134	< 1	< 1	< 1	NA
1,2-Dichloroethane	107-06-2	180	574	< 1	< 1	< 1	NA
Trichloroethene	79-01-6	---	---	< 1	< 1	< 1	NA
1,2-Dichloropropane	78-87-5	---	---	< 1	< 1	< 1	NA
Bromodichloromethane	75-27-4	---	---	< 1	< 1	< 1	NA
Toluene	108-88-3	28	74	< 1	< 1	< 1	NA
1,1,2-Trichloroethane	79-00-5	---	---	< 1	< 1	< 1	NA
Tetrachloroethene	127-18-4	52	164	< 1	< 1	< 1	NA
Dibromochloromethane	124-48-1	---	---	< 1	< 1	< 1	NA
Chlorobenzene	108-90-7	---	---	< 1	< 1	< 1	NA
Ethylbenzene	100-41-4	142	380	< 1	< 1	< 1	NA
Styrene	100-42-5	monitor	1300	< 1	< 1	< 1	NA
Bromoform	75-25-2	---	---	< 1	< 1	< 1	NA
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	< 1	< 1	NA
Acetone (total)	67-64-1	monitor	550	< 10	< 10	< 10	NA
Carbon Disulfide	75-15-0	---	---	< 1	< 1	< 1	NA
2-Butanone	78-93-3	---	---	< 5	< 5	< 5	NA
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	< 1	< 1	NA
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	< 1	< 1	NA
4-Methyl-2-pentanone	108-10-1	---	---	< 5	< 5	< 5	NA
2-Hexanone	591-78-6	---	---	< 5	< 5	< 5	NA
Total Xylene	1330-20-7	---	---	< 3	< 3	< 3	NA

Notes

--- Indicates no Established Effluent Criteria
NA - Not Analyzed

**Attachment A 2014-15 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		October-14	November-14	December-14	January-15
		30 Day Avg	Daily Max	10/1/2014	11/12/2014	12/17/2014	1/21/2015
Metals (mg/L)							
Mercury	7439-97-6	0.000013	0.0011	NA	< 0.0002	< 0.0002	< 0.0002
Antimony	7440-36-0	monitor	monitor	NA	< 0.005	< 0.005	< 0.005
Chromium	7440-47-3	0.119	2.6	NA	0.00014 J	< 0.005	0.0003 J
Copper	7440-50-8	monitor	0.027	NA	0.026	0.019	0.021
Lead	7439-92-1	0.121	0.23	NA	< 0.005	< 0.005	< 0.005
Nickel	7440-02-0	0.24	2.3	NA	0.012	0.011	0.011
Zinc	7440-66-6	monitor	0.17	NA	0.074	0.062	0.066
Arsenic	7440-38-2	0.122	0.36	NA	0.00057 J	0.00073 J	0.00067 J
Beryllium	7440-41-7	0.00142	1	NA	< 0.002	< 0.002	< 0.002
Cadmium	7440-43-9	monitor	0.0089	NA	< 0.0002	< 0.0002	< 0.0002
Silver	7440-22-4	monitor	0.0034	NA	< 0.005	< 0.005	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	NA	< 0.005	< 0.005	< 0.005
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	NA	7	7	6.9
TSS	TSS	30	45	NA	1.5 J	< 3	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	NA	1.5	1.9	2.4
Oil & Grease (total)	O&G	10	10	NA	< 5	< 5	1.6 J
BOD	BOD	monitor	monitor	NA	< 2	< 7.2	< 7.2
Pesticides (ug/L)							
Endnn Ketone	53494-70-5	---	---	NA	< 0.02	< 0.02	< 0.02
Alpha Chlordane	5103-71-9	---	---	NA	< 0.02	< 0.02	< 0.02
Gamma Chlordane	5103-74-2	---	---	NA	< 0.02	< 0.02	< 0.02
Alpha BHC	319-84-6	---	---	NA	< 0.02	< 0.02	< 0.02
Beta BHC	319-85-7	---	---	NA	< 0.02	< 0.02	< 0.02
Gamma BHC-Lindane	58-89-9	---	---	NA	< 0.02	< 0.02	< 0.02
Delta BHC	319-86-8	---	---	NA	< 0.02	< 0.02	< 0.02
Heptachlor	76-44-8	0.00331	monitor	NA	< 0.02	< 0.02	< 0.02
Aldnn	309-00-2	0.000884	monitor	NA	< 0.02	< 0.02	< 0.02
Heptachlor Epoxide	1024-57-3	---	---	NA	< 0.02	< 0.02	< 0.02
p,p-DDE	72-55-9	---	---	NA	< 0.02	< 0.02	< 0.02
p,p-DDD	72-54-8	---	---	NA	< 0.02	< 0.02	< 0.02
p,p-DDT	50-29-3	0.000227	monitor	NA	< 0.02	< 0.02	< 0.02
Diendnn	60-57-1	---	---	NA	< 0.02	< 0.02	< 0.02
Endnn	72-20-8	---	---	NA	< 0.02	< 0.02	< 0.02
Toxaphene	8001-35-2	---	---	NA	< 4	< 4	< 4
Endosulfan II	33213-65-9	---	---	NA	< 0.02	< 0.02	< 0.02
Endosulfan I	959-98-8	---	---	NA	< 0.02	< 0.02	< 0.02
Endosulfan Sulfate	1031-07-8	---	---	NA	< 0.02	< 0.02	< 0.02
Endnn Aldehyde	7421-93-4	---	---	NA	< 0.02	< 0.02	< 0.02
Methoxychlor	72-43-5	---	---	NA	< 0.02	< 0.02	< 0.02
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	NA	< 0.2	< 0.22	< 0.2
PCB-1221	11104-28-2	---	---	NA	< 0.2	< 0.22	< 0.2
PCB-1232	11141-16-5	---	---	NA	< 0.2	< 0.22	< 0.2
PCB-1242	53469-21-9	---	---	NA	< 0.2	< 0.22	< 0.2
PCB-1248	12672-29-6	---	---	NA	< 0.2	< 0.22	< 0.2
PCB-1254	11097-69-1	---	---	NA	< 0.2	< 0.22	< 0.2
PCB-1260	11096-82-5	---	---	NA	< 0.2	< 0.22	< 0.2
TOTAL PCBs		0.000967	monitor		0	0	0

**Attachment A 2014-15 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		October-14	November-14	December-14	January-15
		30 Day Avg	Daily Max.	10/1/2014	11/12/2014	12/17/2014	1/21/2015
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	NA	< 20	< 20	< 20
2-Methylnaphthalene	91-57-6	---	---	NA	< 5	< 5	< 5
2-Nitroaniline	88-74-4	---	---	NA	< 5	< 5	< 5
2,4,5-Trchlorophenol	95-95-4	---	---	NA	< 5	< 5	< 5
2-Chlorophenol	95-57-8	---	---	NA	< 5	< 5	< 5
Phenol	108-95-2	monitor	monitor	NA	< 5	< 5	< 5
2-Nitrophenol	88-75-5	---	---	NA	< 5	< 5	< 5
2,4-Dimethylphenol	105-67-9	---	---	NA	< 5	< 5	< 5
2,4-Dichlorophenol	120-83-2	---	---	NA	< 10	< 10	< 10
4-Chloro-3-methylphenol	59-50-7	---	---	NA	< 5	< 5	< 5
2,4,6-Trchlorophenol	88-06-2	---	---	NA	< 5	< 5	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	NA	< 5	< 5	< 5
1,3-Dichlorobenzene	541-73-1	---	---	NA	< 5	< 5	< 5
1,4-Dichlorobenzene	106-46-7	---	---	NA	< 5	< 5	< 5
1,2-Dichlorobenzene	95-50-1	---	---	NA	< 5	< 5	< 5
Hexachloroethane	67-72-1	---	---	NA	< 5	< 5	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	NA	< 5	< 5	< 5
Nitrobenzene	98-95-3	---	---	NA	< 5	< 5	< 5
Isophorone	78-59-1	---	---	NA	< 5	< 5	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	NA	< 5	< 5	< 5
1,2,4-Trchlorobenzene	120-82-1	---	---	NA	< 5	< 5	< 5
Hexachlorobutadiene	87-68-3	---	---	NA	< 5	< 5	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	NA	< 20	< 20	< 20
2-Chloronaphthalene	91-58-7	---	---	NA	< 5	< 5	< 5
Dimethylphthalate	131-11-3	monitor	monitor	NA	< 20	< 20	< 20
2-methylphenol	95-48-7	---	---	NA	< 5	< 5	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	NA	< 5	< 5	< 5
4-methylphenol (total)	106-44-5	monitor	140	NA	< 5	< 5	< 5
Dibenzofuran	132-64-9	---	---	NA	< 5	< 5	< 5
3-Nitroaniline	99-09-2	---	---	NA	< 5	< 5	< 5
4-Nitroaniline	100-01-6	---	---	NA	< 5	< 5	< 5
2,4-Dinitrophenol	51-28-5	---	---	NA	< 20	< 20	< 20
4-Nitrophenol	100-02-7	---	---	NA	< 20	< 20	< 20
4,6-Dinitro-2-methylphenol	534-52-1	---	---	NA	< 20	< 20	< 20
Pentachlorophenol (total)	87-86-5	monitor	3 5	NA	< 20	< 20	< 20
2,6-Dinitrotoluene	606-20-2	---	---	NA	< 5	< 5	< 5
2,4-Dinitrotoluene	121-14-2	---	---	NA	< 5	< 5	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	NA	< 5	< 5	< 5
Diethylphthalate	84-66-2	monitor	2600	NA	< 5	< 5	< 5
N-nitrosodiphenylamine	86-30-6	---	---	NA	< 5	< 5	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	NA	< 5	< 5	< 5
Hexachlorobenzene	118-74-1	---	---	NA	< 5	< 5	< 5
di-n-butylphthalate	84-74-2	monitor	350	NA	< 5	< 5	< 5
Butylbenzylphthalate	85-68-7	---	---	NA	< 5	< 5	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	NA	< 20	< 20	< 20
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	NA	< 5	< 5	< 5
Di-n-octylphthalate	117-84-0	---	---	NA	< 5	< 5	< 5
Carbazole	86-74-8	---	---	NA	< 10	< 10	< 10

**Attachment A 2014-15 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		October-14	November-14	December-14	January-15
		Discharge Limits		10/1/2014	11/1/2014	12/17/2014	1/21/2015
		30 Day Avg	Daily Max				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	NA	< 5	< 5	< 5
Acenaphthylene	208-96-8	---	---	NA	< 5	< 5	< 5
Anthracene	120-12-7	---	---	NA	< 5	< 5	< 5
Fluorene	86-73-7	---	---	NA	< 5	< 5	< 5
Phenanthrene	85-01-8	---	---	NA	< 5	< 5	< 5
Acenaphthene	83-32-9	monitor	67	NA	< 5	< 5	< 5
Benzo (a) pyrene	50-32-8	---	---	NA	< 5	< 5	< 5
Chrysene	218-01-9	---	---	NA	< 5	< 5	< 5
Fluoranthene	206-44-0	66	200	NA	< 5	< 5	< 5
Pyrene	129-00-0	---	---	NA	< 5	< 5	< 5
Benzo (a) anthracene	56-55-3	---	---	NA	< 5	< 5	< 5
Benzo (k) flouranthene	207-08-9	---	---	NA	< 5	< 5	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	NA	< 5	< 5	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	NA	< 5	< 5	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	NA	< 5	< 5	< 5
Benzo (b) flouranthene	205-99-2	---	---	NA	< 5	< 5	< 5
Total PAHs		0.376	monitor	NA	0	0	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	NA	< 1	< 1	< 1
Vinyl Chloride	75-01-4	---	---	NA	< 1	< 1	< 1
Bromomethane	74-83-9	---	---	NA	< 1	< 1	< 1
Chloroethane	75-00-3	---	---	NA	< 1	< 1	< 1
1,1-Dichloroethene	75-35-4	---	---	NA	< 1	< 1	< 1
Methylene Chloride	75-09-2	---	---	NA	< 5	< 5	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	NA	< 1	< 1	< 1
1,1-Dichloroethane	75-34-3	---	---	NA	< 1	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	NA	< 1	< 1	< 1
Chloroform	67-66-3	---	---	NA	< 1	< 1	< 1
1,1,1-Trichloroethane	71-55-6	---	---	NA	< 1	< 1	< 1
Carbon Tetrachloride	56-23-5	---	---	NA	< 1	< 1	< 1
Benzene	71-43-2	57	134	NA	< 1	< 1	< 1
1,2-Dichloroethane	107-06-2	180	574	NA	< 1	< 1	< 1
Trichloroethene	79-01-6	---	---	NA	< 1	< 1	< 1
1,2-Dichloropropane	78-87-5	---	---	NA	< 1	< 1	< 1
Bromodichloromethane	75-27-4	---	---	NA	< 1	< 1	< 1
Toluene	108-88-3	28	74	NA	< 1	< 1	< 1
1,1,2-Trichloroethane	79-00-5	---	---	NA	< 1	< 1	< 1
Tetrachloroethene	127-18-4	52	164	NA	< 1	< 1	< 1
Dibromochloromethane	124-48-1	---	---	NA	< 1	< 1	< 1
Chlorobenzene	108-90-7	---	---	NA	< 1	< 1	< 1
Ethylbenzene	100-41-4	142	380	NA	< 1	< 1	< 1
Styrene	100-42-5	monitor	1300	NA	< 1	< 1	< 1
Bromoform	75-25-2	---	---	NA	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	NA	< 1	< 1	< 1
Acetone (total)	67-64-1	monitor	550	NA	< 10	< 10	< 10
Carbon Disulfide	75-15-0	---	---	NA	< 1	< 1	< 1
2-Butanone	78-93-3	---	---	NA	< 5	< 5	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	NA	< 1	< 1	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	NA	< 1	< 1	< 1
4-Methyl-2-pentanone	108-10-1	---	---	NA	< 5	< 5	< 5
2-Hexanone	591-78-6	---	---	NA	< 5	< 5	< 5
Total Xylene	1330-20-7	---	---	NA	< 3	< 3	< 3

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed

Attachment A

2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit Discharge Limits		September-14	October-14	November-14	December-14
		30 Day Avg	Daily Max	9/16/2014	10/1/2014	11/12/2014	12/17/2014
Metals (mg/L)							
Mercury	7439-97-6	0 000013	0 0011	0 000075 J	NA	< 0 0002	< 0 0002
Antimony	7440-36-0	monitor	monitor	0 000049 J	NA	< 0 005	< 0 005
Chromium	7440-47-3	0 119	2 6	< 0 005	NA	0 00014 J	< 0 005
Copper	7440-50-8	monitor	0.027	0 023	NA	0 026	0 019
Lead	7439-92-1	0 121	0 23	0 00029 J	NA	< 0 005	< 0 005
Nickel	7440-02-0	0.24	2 3	0 011	NA	0 012	0 011
Zinc	7440-66-6	monitor	0 17	0 074	NA	0 074	0 062
Arsenic	7440-38-2	0 122	0 36	< 0 005	NA	0 00057 J	0 00073 J
Beryllium	7440-41-7	0 00142	1	< 0 002	NA	< 0 002	< 0 002
Cadmium	7440-43-9	monitor	0 0089	< 0 0002	NA	< 0 0002	< 0 0002
Silver	7440-22-4	monitor	0 0034	< 0 005	NA	< 0 005	< 0 005
Cyanide (free)	57-12-5	monitor	0 046	0 0056	NA	< 0 005	< 0 005
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	6 9	NA	7	7
TSS	TSS	30	45	< 3	NA	1 5 J	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	1 4	NA	1 5	1 9
Oil & Grease (total)	O&G	10	10	1 6 J	NA	< 5	< 5
BOD	BOD	monitor	monitor	2 7	NA	< 2	< 7 2
Pesticides (ug/L)							
Endnn Ketone	53494-70-5	---	---	< 0 02	NA	< 0 02	< 0 02
Alpha Chlordane	5103-71-9	---	---	< 0 02	NA	< 0 02	< 0 02
Gamma Chlordane	5103-74-2	---	---	< 0 02	NA	< 0 02	< 0 02
Alpha BHC	319-84-6	---	---	< 0 02	NA	< 0 02	< 0 02
Beta BHC	319-85-7	---	---	< 0 02	NA	< 0 02	< 0 02
Gamma BHC-Lindane	58-89-9	---	---	< 0 02	NA	< 0 02	< 0 02
Delta BHC	319-86-8	---	---	< 0 02	NA	< 0 02	< 0 02
Heptachlor	76-44-8	0.00331	monitor	< 0 02	NA	< 0 02	< 0 02
Aldnn	309-00-2	0.000884	monitor	< 0 02	NA	< 0 02	< 0 02
Heptachlor Epoxide	1024-57-3	---	---	< 0 02	NA	< 0 02	< 0 02
p,p-DDE	72-55-9	---	---	< 0 02	NA	< 0 02	< 0 02
p,p-DDD	72-54-8	---	---	< 0 02	NA	< 0 02	< 0 02
p,p-DDT	50-29-3	0.000227	monitor	< 0 02	NA	< 0 02	< 0 02
Dieldnn	60-57-1	---	---	< 0 02	NA	< 0 02	< 0 02
Endnn	72-20-8	---	---	< 0 02	NA	< 0 02	< 0 02
Toxaphene	8001-35-2	---	---	< 4	NA	< 4	< 4
Endosulfan II	33213-65-9	---	---	< 0 02	NA	< 0 02	< 0 02
Endosulfan I	959-98-8	---	---	< 0 02	NA	< 0 02	< 0 02
Endosulfan Sulfate	1031-07-8	---	---	< 0 02	NA	< 0 02	< 0 02
Endnn Aldehyde	7421-93-4	---	---	< 0 02	NA	< 0 02	< 0 02
Methoxychlor	72-43-5	---	---	< 0 02	NA	< 0 02	< 0 02
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0 2	NA	< 0 2	< 0 22
PCB-1221	11104-28-2	---	---	< 0 2	NA	< 0 2	< 0 22
PCB-1232	11141-16-5	---	---	< 0 2	NA	< 0 2	< 0 22
PCB-1242	53469-21-9	---	---	< 0 2	NA	< 0 2	< 0 22
PCB-1248	12672-29-6	---	---	< 0 2	NA	< 0 2	< 0 22
PCB-1254	11097-69-1	---	---	< 0 2	NA	< 0 2	< 0 22
PCB-1260	11096-82-5	---	---	< 0 2	NA	< 0 2	< 0 22
TOTAL PCBs		0 000967	monitor	0		0	0

Attachment A

2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit		September-14 9/16/2014	October-14 10/1/2014	November-14 11/12/2014	December-14 12/17/2014
		Discharge Limits					
		30 Day Avg.	Daily Max				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 20	NA	< 20	< 20
2-Methylnaphthalene	91-57-6	---	---	< 5	NA	< 5	< 5
2-Nitroaniline	88-74-4	---	---	< 5	NA	< 5	< 5
2,4,5-Trichlorophenol	95-95-4	---	---	< 5	NA	< 5	< 5
2-Chlorophenol	95-57-8	---	---	< 5	NA	< 5	< 5
Phenol	108-95-2	monitor	monitor	< 5	NA	< 5	< 5
2-Nitrophenol	88-75-5	---	---	< 5	NA	< 5	< 5
2,4-Dimethylphenol	105-67-9	---	---	< 5	NA	< 5	< 5
2,4-Dichlorophenol	120-83-2	---	---	< 10	NA	< 10	< 10
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	NA	< 5	< 5
2,4,6-Trichlorophenol	88-06-2	---	---	< 5	NA	< 5	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	NA	< 5	< 5
1,3-Dichlorobenzene	541-73-1	---	---	< 5	NA	< 5	< 5
1,4-Dichlorobenzene	106-46-7	---	---	< 5	NA	< 5	< 5
1,2-Dichlorobenzene	95-50-1	---	---	< 5	NA	< 5	< 5
Hexachloroethane	67-72-1	---	---	< 5	NA	< 5	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	NA	< 5	< 5
Nitrobenzene	98-95-3	---	---	< 5	NA	< 5	< 5
Isophorone	78-59-1	---	---	< 5	NA	< 5	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	NA	< 5	< 5
1,2,4-Trichlorobenzene	120-82-1	---	---	< 5	NA	< 5	< 5
Hexachlorobutadiene	87-68-3	---	---	< 5	NA	< 5	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	< 20	NA	< 20	< 20
2-Chloronaphthalene	91-58-7	---	---	< 5	NA	< 5	< 5
Dimethylphthalate	131-11-3	monitor	monitor	< 20	NA	< 20	< 20
2-methylphenol	95-48-7	---	---	< 5	NA	< 5	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 5	NA	< 5	< 5
4-methylphenol (total)	106-44-5	monitor	140	< 5	NA	< 5	< 5
Dibenzofuran	132-64-9	---	---	< 5	NA	< 5	< 5
3-Nitroaniline	99-09-2	---	---	< 5	NA	< 5	< 5
4-Nitroaniline	100-01-6	---	---	< 5	NA	< 5	< 5
2,4-Dinitrophenol	51-28-5	---	---	< 20	NA	< 20	< 20
4-Nitrophenol	100-02-7	---	---	< 20	NA	< 20	< 20
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 20	NA	< 20	< 20
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 20	NA	< 20	< 20
2,6-Dinitrotoluene	606-20-2	---	---	< 5	NA	< 5	< 5
2,4-Dinitrotoluene	121-14-2	---	---	< 5	NA	< 5	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	NA	< 5	< 5
Diethylphthalate	84-66-2	monitor	2600	< 5	NA	< 5	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 5	NA	< 5	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	NA	< 5	< 5
Hexachlorobenzene	118-74-1	---	---	< 5	NA	< 5	< 5
di-n-butylphthalate	84-74-2	monitor	350	< 5	NA	< 5	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	NA	< 5	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 20	NA	< 20	< 20
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	NA	< 5	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	NA	< 5	< 5
Carbazole	86-74-8	---	---	< 10	NA	< 10	< 10

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		September-14	October-14	November-14	December-14
		30 Day Avg	Daily Max.	9/16/2014	10/1/2014	11/12/2014	12/17/2014
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 5	NA	< 5	< 5
Acenaphthylene	208-96-8	---	---	< 5	NA	< 5	< 5
Anthracene	120-12-7	---	---	< 5	NA	< 5	< 5
Fluorene	86-73-7	---	---	< 5	NA	< 5	< 5
Phenanthrene	85-01-8	---	---	< 5	NA	< 5	< 5
Acenaphthene	83-32-9	monitor	67	< 5	NA	< 5	< 5
Benzo (a) pyrene	50-32-8	---	---	< 5	NA	< 5	< 5
Chrysene	218-01-9	---	---	< 5	NA	< 5	< 5
Fluoranthene	206-44-0	66	200	< 5	NA	< 5	< 5
Pyrene	129-00-0	---	---	< 5	NA	< 5	< 5
Benzo (a) anthracene	56-55-3	---	---	< 5	NA	< 5	< 5
Benzo (k) flouranthene	207-08-9	---	---	< 5	NA	< 5	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	< 5	NA	< 5	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	< 5	NA	< 5	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 5	NA	< 5	< 5
Benzo (b) flouranthene	205-99-2	---	---	< 5	NA	< 5	< 5
Total PAHs		0 376	monitor	0	NA	0	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 1	NA	< 1	< 1
Vinyl Chloride	75-01-4	---	---	< 1	NA	< 1	< 1
Bromomethane	74-83-9	---	---	< 1	NA	< 1	< 1
Chloroethane	75-00-3	---	---	< 1	NA	< 1	< 1
1,1-Dichloroethene	75-35-4	---	---	< 1	NA	< 1	< 1
Methylene Chloride	75-09-2	---	---	< 5	NA	< 5	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	NA	< 1	< 1
1,1-Dichloroethane	75-34-3	---	---	< 1	NA	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	NA	< 1	< 1
Chloroform	67-66-3	---	---	< 1	NA	< 1	< 1
1,1,1-Trichloroethane	71-55-6	---	---	< 1	NA	< 1	< 1
Carbon Tetrachloride	56-23-5	---	---	< 1	NA	< 1	< 1
Benzene	71-43-2	57	134	< 1	NA	< 1	< 1
1,2-Dichloroethane	107-06-2	180	574	< 1	NA	< 1	< 1
Trichloroethene	79-01-6	---	---	< 1	NA	< 1	< 1
1,2-Dichloropropane	78-87-5	---	---	< 1	NA	< 1	< 1
Bromodichloromethane	75-27-4	---	---	< 1	NA	< 1	< 1
Toluene	108-88-3	28	74	< 1	NA	< 1	< 1
1,1,2-Trichloroethane	79-00-5	---	---	< 1	NA	< 1	< 1
Tetrachloroethene	127-18-4	52	164	< 1	NA	< 1	< 1
Dibromochloromethane	124-48-1	---	---	< 1	NA	< 1	< 1
Chlorobenzene	108-90-7	---	---	< 1	NA	< 1	< 1
Ethylbenzene	100-41-4	142	380	< 1	NA	< 1	< 1
Styrene	100-42-5	monitor	1300	< 1	NA	< 1	< 1
Bromoform	75-25-2	---	---	< 1	NA	< 1	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	NA	< 1	< 1
Acetone (total)	67-64-1	monitor	550	< 10	NA	< 10	< 10
Carbon Disulfide	75-15-0	---	---	< 1	NA	< 1	< 1
2-Butanone	78-93-3	---	---	< 5	NA	< 5	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	NA	< 1	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	NA	< 1	< 1
4-Methyl-2-pentanone	108-10-1	---	---	< 5	NA	< 5	< 5
2-Hexanone	591-78-6	---	---	< 5	NA	< 5	< 5
Total Xylene	1330-20-7	---	---	< 3	NA	< 3	< 3

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		August-14	September-14	October-14	November-14
		30 Day Avg	Daily Max.	8/1/2014	9/16/2014	10/1/2014	11/12/2014
Metals (mg/L)							
Mercury	7439-97-6	0.000013	0.0011	NA	0.000075 J	NA	< 0.0002
Antimony	7440-36-0	monitor	monitor	NA	0.000049 J	NA	< 0.005
Chromium	7440-47-3	0.119	2.6	NA	< 0.005	NA	0.00014 J
Copper	7440-50-8	monitor	0.027	NA	0.023	NA	0.026
Lead	7439-92-1	0.121	0.23	NA	0.00029 J	NA	< 0.005
Nickel	7440-02-0	0.24	2.3	NA	0.011	NA	0.012
Zinc	7440-66-6	monitor	0.17	NA	0.074	NA	0.074
Arsenic	7440-38-2	0.122	0.36	NA	< 0.005	NA	0.00057 J
Beryllium	7440-41-7	0.00142	1	NA	< 0.002	NA	< 0.002
Cadmium	7440-43-9	monitor	0.0089	NA	< 0.0002	NA	< 0.0002
Silver	7440-22-4	monitor	0.0034	NA	< 0.005	NA	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	NA	0.0056	NA	< 0.005
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	NA	6.9	NA	7
TSS	TSS	30	45	NA	< 3	NA	1.5 J
Ammonia Nitrogen	7664-41-7	monitor	monitor	NA	1.4	NA	1.5
Oil & Grease (total)	O&G	10	10	NA	1.6 J	NA	< 5
BOD	BOD	monitor	monitor	NA	2.7	NA	< 2
Pesticides (ug/L)							
Endnn Ketone	53494-70-5	---	---	NA	< 0.02	NA	< 0.02
Alpha Chlordane	5103-71-9	---	---	NA	< 0.02	NA	< 0.02
Gamma Chlordane	5103-74-2	---	---	NA	< 0.02	NA	< 0.02
Alpha BHC	319-84-6	---	---	NA	< 0.02	NA	< 0.02
Beta BHC	319-85-7	---	---	NA	< 0.02	NA	< 0.02
Gamma BHC-Lindane	58-89-9	---	---	NA	< 0.02	NA	< 0.02
Delta BHC	319-86-8	---	---	NA	< 0.02	NA	< 0.02
Heptachlor	76-44-8	0.00331	monitor	NA	< 0.02	NA	< 0.02
Aldnn	309-00-2	0.000884	monitor	NA	< 0.02	NA	< 0.02
Heptachlor Epoxide	1024-57-3	---	---	NA	< 0.02	NA	< 0.02
p,p-DDE	72-55-9	---	---	NA	< 0.02	NA	< 0.02
p,p-DDD	72-54-8	---	---	NA	< 0.02	NA	< 0.02
p,p-DDT	50-29-3	0.000227	monitor	NA	< 0.02	NA	< 0.02
Dieldnn	60-57-1	---	---	NA	< 0.02	NA	< 0.02
Endnn	72-20-8	---	---	NA	< 0.02	NA	< 0.02
Toxaphene	8001-35-2	---	---	NA	< 4	NA	< 4
Endosulfan II	33213-65-9	---	---	NA	< 0.02	NA	< 0.02
Endosulfan I	959-98-8	---	---	NA	< 0.02	NA	< 0.02
Endosulfan Sulfate	1031-07-8	---	---	NA	< 0.02	NA	< 0.02
Endnn Aldehyde	7421-93-4	---	---	NA	< 0.02	NA	< 0.02
Methoxychlor	72-43-5	---	---	NA	< 0.02	NA	< 0.02
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	NA	< 0.2	NA	< 0.2
PCB-1221	11104-28-2	---	---	NA	< 0.2	NA	< 0.2
PCB-1232	11141-16-5	---	---	NA	< 0.2	NA	< 0.2
PCB-1242	53469-21-9	---	---	NA	< 0.2	NA	< 0.2
PCB-1248	12672-29-6	---	---	NA	< 0.2	NA	< 0.2
PCB-1254	11097-69-1	---	---	NA	< 0.2	NA	< 0.2
PCB-1260	11096-82-5	---	---	NA	< 0.2	NA	< 0.2
TOTAL PCBs		0.000967	monitor		0		0

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		August-14	September-14	October-14	November-14
		30 Day Avg.	Daily Max.	8/1/2014	9/16/2014	10/1/2014	11/12/2014
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	NA	< 20	NA	< 20
2-Methylnaphthalene	91-57-6	---	---	NA	< 5	NA	< 5
2-Nitroaniline	88-74-4	---	---	NA	< 5	NA	< 5
2,4,5-Trichlorophenol	95-95-4	---	---	NA	< 5	NA	< 5
2-Chlorophenol	95-57-8	---	---	NA	< 5	NA	< 5
Phenol	108-95-2	monitor	monitor	NA	< 5	NA	< 5
2-Nitrophenol	88-75-5	---	---	NA	< 5	NA	< 5
2,4-Dimethylphenol	105-67-9	---	---	NA	< 5	NA	< 5
2,4-Dichlorophenol	120-83-2	---	---	NA	< 10	NA	< 10
4-Chloro-3-methylphenol	59-50-7	---	---	NA	< 5	NA	< 5
2,4,6-Trichlorophenol	88-06-2	---	---	NA	< 5	NA	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	NA	< 5	NA	< 5
1,3-Dichlorobenzene	541-73-1	---	---	NA	< 5	NA	< 5
1,4-Dichlorobenzene	106-46-7	---	---	NA	< 5	NA	< 5
1,2-Dichlorobenzene	95-50-1	---	---	NA	< 5	NA	< 5
Hexachloroethane	67-72-1	---	---	NA	< 5	NA	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	NA	< 5	NA	< 5
Nitrobenzene	98-95-3	---	---	NA	< 5	NA	< 5
Isophorone	78-59-1	---	---	NA	< 5	NA	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	NA	< 5	NA	< 5
1,2,4-Trichlorobenzene	120-82-1	---	---	NA	< 5	NA	< 5
Hexachlorobutadiene	87-68-3	---	---	NA	< 5	NA	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	NA	< 20	NA	< 20
2-Chloronaphthalene	91-58-7	---	---	NA	< 5	NA	< 5
Dimethylphthalate	131-11-3	monitor	monitor	NA	< 20	NA	< 20
2-methylphenol	95-48-7	---	---	NA	< 5	NA	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	NA	< 5	NA	< 5
4-methylphenol (total)	106-44-5	monitor	140	NA	< 5	NA	< 5
Dibenzofuran	132-64-9	---	---	NA	< 5	NA	< 5
3-Nitroaniline	99-09-2	---	---	NA	< 5	NA	< 5
4-Nitroaniline	100-01-6	---	---	NA	< 5	NA	< 5
2,4-Dinitrophenol	51-28-5	---	---	NA	< 20	NA	< 20
4-Nitrophenol	100-02-7	---	---	NA	< 20	NA	< 20
4,6-Dinitro-2-methylphenol	534-52-1	---	---	NA	< 20	NA	< 20
Pentachlorophenol (total)	87-86-5	monitor	3.5	NA	< 20	NA	< 20
2,6-Dinitrotoluene	606-20-2	---	---	NA	< 5	NA	< 5
2,4-Dinitrotoluene	121-14-2	---	---	NA	< 5	NA	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	NA	< 5	NA	< 5
Diethylphthalate	84-66-2	monitor	2600	NA	< 5	NA	< 5
N-nitrosodiphenylamine	86-30-6	---	---	NA	< 5	NA	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	NA	< 5	NA	< 5
Hexachlorobenzene	118-74-1	---	---	NA	< 5	NA	< 5
di-n-butylphthalate	84-74-2	monitor	350	NA	< 5	NA	< 5
Butylbenzylphthalate	85-68-7	---	---	NA	< 5	NA	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	NA	< 20	NA	< 20
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	NA	< 5	NA	< 5
Di-n-octylphthalate	117-84-0	---	---	NA	< 5	NA	< 5
Carbazole	86-74-8	---	---	NA	< 10	NA	< 10

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit Discharge Limits		August-14	September-14	October-14	November-14
		30 Day Avg.	Daily Max.	8/1/2014	9/16/2014	10/1/2014	11/12/2014
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	NA	< 5	NA	< 5
Acenaphthylene	208-96-8	---	---	NA	< 5	NA	< 5
Anthracene	120-12-7	---	---	NA	< 5	NA	< 5
Fluorene	86-73-7	---	---	NA	< 5	NA	< 5
Phenanthrene	85-01-8	---	---	NA	< 5	NA	< 5
Acenaphthene	83-32-9	monitor	67	NA	< 5	NA	< 5
Benzo (a) pyrene	50-32-8	---	---	NA	< 5	NA	< 5
Chrysene	218-01-9	---	---	NA	< 5	NA	< 5
Fluoranthene	206-44-0	66	200	NA	< 5	NA	< 5
Pyrene	129-00-0	---	---	NA	< 5	NA	< 5
Benzo (a) anthracene	56-55-3	---	---	NA	< 5	NA	< 5
Benzo (k) flouranthene	207-08-9	---	---	NA	< 5	NA	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	NA	< 5	NA	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	NA	< 5	NA	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	NA	< 5	NA	< 5
Benzo (b) flouranthene	205-99-2	---	---	NA	< 5	NA	< 5
Total PAHs		0.376	monitor	NA	0	NA	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	NA	< 1	NA	< 1
Vinyl Chloride	75-01-4	---	---	NA	< 1	NA	< 1
Bromomethane	74-83-9	---	---	NA	< 1	NA	< 1
Chloroethane	75-00-3	---	---	NA	< 1	NA	< 1
1,1-Dichloroethene	75-35-4	---	---	NA	< 1	NA	< 1
Methylene Chloride	75-09-2	---	---	NA	< 5	NA	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	NA	< 1	NA	< 1
1,1-Dichloroethane	75-34-3	---	---	NA	< 1	NA	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	NA	< 1	NA	< 1
Chloroform	67-66-3	---	---	NA	< 1	NA	< 1
1,1,1-Trichloroethane	71-55-6	---	---	NA	< 1	NA	< 1
Carbon Tetrachloride	56-23-5	---	---	NA	< 1	NA	< 1
Benzene	71-43-2	57	134	NA	< 1	NA	< 1
1,2-Dichloroethane	107-06-2	180	574	NA	< 1	NA	< 1
Trichloroethene	79-01-6	---	---	NA	< 1	NA	< 1
1,2-Dichloropropane	78-87-5	---	---	NA	< 1	NA	< 1
Bromodichloromethane	75-27-4	---	---	NA	< 1	NA	< 1
Toluene	108-88-3	28	74	NA	< 1	NA	< 1
1,1,2-Trichloroethane	79-00-5	---	---	NA	< 1	NA	< 1
Tetrachloroethene	127-18-4	52	164	NA	< 1	NA	< 1
Dibromochloromethane	124-48-1	---	---	NA	< 1	NA	< 1
Chlorobenzene	108-90-7	---	---	NA	< 1	NA	< 1
Ethylbenzene	100-41-4	142	380	NA	< 1	NA	< 1
Styrene	100-42-5	monitor	1300	NA	< 1	NA	< 1
Bromoform	75-25-2	---	---	NA	< 1	NA	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	NA	< 1	NA	< 1
Acetone (total)	67-64-1	monitor	550	NA	< 10	NA	< 10
Carbon Disulfide	75-15-0	---	---	NA	< 1	NA	< 1
2-Butanone	78-93-3	---	---	NA	< 5	NA	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	NA	< 1	NA	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	NA	< 1	NA	< 1
4-Methyl-2-pentanone	108-10-1	---	---	NA	< 5	NA	< 5
2-Hexanone	591-78-6	---	---	NA	< 5	NA	< 5
Total Xylene	1330-20-7	---	---	NA	< 3	NA	< 3

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		July-14	August-14	September-14	October-14
		30 Day Avg	Daily Max	7/17/2014	8/1/2014	9/16/2014	10/1/2014
Metals (mg/L)							
Mercury	7439-97-6	0 000013	0 0011	< 0 0002	NA	0 000075 J	NA
Antimony	7440-36-0	monitor	monitor	0 000078 J	NA	0 000049 J	NA
Chromium	7440-47-3	0.119	2 6	< 0 005	NA	< 0 005	NA
Copper	7440-50-8	monitor	0.027	0 015	NA	0 023	NA
Lead	7439-92-1	0.121	0 23	0 0025 J	NA	0 00029 J	NA
Nickel	7440-02-0	0 24	2.3	0 011	NA	0 011	NA
Zinc	7440-66-6	monitor	0.17	0 81	NA	0 074	NA
Arsenic	7440-38-2	0.122	0.36	0 00071 J	NA	< 0 005	NA
Beryllium	7440-41-7	0 00142	1	< 0 002	NA	< 0 002	NA
Cadmium	7440-43-9	monitor	0.0089	< 0 0002	NA	< 0 0002	NA
Silver	7440-22-4	monitor	0.0034	< 0 005	NA	< 0 005	NA
Cyanide (free)	57-12-5	monitor	0 046	0 0016 J	NA	0 0056	NA
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	6 6	NA	6 9	NA
TSS	TSS	30	45	< 3	NA	< 3	NA
Ammonia Nitrogen	7664-41-7	monitor	monitor	1 4	NA	1 4	NA
Oil & Grease (total)	O&G	10	10	1 8 J	NA	1 6 J	NA
BOD	BOD	monitor	monitor	< 2	NA	2 7	NA
Pesticides (ug/L)							
Endnn Ketone	53494-70-5	---	---	< 0 02	NA	< 0 02	NA
Alpha Chlordane	5103-71-9	---	---	< 0 02	NA	< 0 02	NA
Gamma Chlordane	5103-74-2	---	---	< 0 02	NA	< 0 02	NA
Alpha BHC	319-84-6	---	---	< 0 02	NA	< 0 02	NA
Beta BHC	319-85-7	---	---	< 0 02	NA	< 0 02	NA
Gamma BHC-Lindane	58-89-9	---	---	< 0 02	NA	< 0 02	NA
Delta BHC	319-86-8	---	---	< 0 02	NA	< 0 02	NA
Heptachlor	76-44-8	0 00331	monitor	< 0 02	NA	< 0 02	NA
Aldnn	309-00-2	0 000884	monitor	< 0 02	NA	< 0 02	NA
Heptachlor Epoxide	1024-57-3	---	---	< 0 02	NA	< 0 02	NA
p,p-DDE	72-55-9	---	---	< 0 02	NA	< 0 02	NA
p,p-DDD	72-54-8	---	---	< 0 02	NA	< 0 02	NA
p,p-DDT	50-29-3	0.000227	monitor	< 0 02	NA	< 0 02	NA
Diendnn	60-57-1	---	---	< 0 02	NA	< 0 02	NA
Endnn	72-20-8	---	---	< 0 02	NA	< 0 02	NA
Toxaphene	8001-35-2	---	---	< 4	NA	< 4	NA
Endosulfan II	33213-65-9	---	---	< 0 02	NA	< 0 02	NA
Endosulfan I	959-98-8	---	---	< 0 02	NA	< 0 02	NA
Endosulfan Sulfate	1031-07-8	---	---	< 0 02	NA	< 0 02	NA
Endnn Aldehyde	7421-93-4	---	---	< 0 02	NA	< 0 02	NA
Methoxychlor	72-43-5	---	---	< 0 02	NA	< 0 02	NA
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0 2	NA	< 0 2	NA
PCB-1221	11104-28-2	---	---	< 0 2	NA	< 0 2	NA
PCB-1232	11141-16-5	---	---	< 0 2	NA	< 0 2	NA
PCB-1242	53469-21-9	---	---	< 0 2	NA	< 0 2	NA
PCB-1248	12672-29-6	---	---	< 0 2	NA	< 0 2	NA
PCB-1254	11097-69-1	---	---	< 0 2	NA	< 0 2	NA
PCB-1260	11096-82-5	---	---	< 0 2	NA	< 0 2	NA
TOTAL PCBs		0 000967	monitor	0		0	

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		July-14	August-14	September-14	October-14
		30 Day Avg.	Daily Max	7/17/2014	8/1/2014	9/16/2014	10/1/2014
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 20	NA	< 20	NA
2-Methylnaphthalene	91-57-6	---	---	< 5	NA	< 5	NA
2-Nitroaniline	88-74-4	---	---	< 5	NA	< 5	NA
2,4,5-Trchlorophenol	95-95-4	---	---	< 5	NA	< 5	NA
2-Chlorophenol	95-57-8	---	---	< 5	NA	< 5	NA
Phenol	108-95-2	monitor	monitor	< 5	NA	< 5	NA
2-Nitrophenol	88-75-5	---	---	< 5	NA	< 5	NA
2,4-Dimethylphenol	105-67-9	---	---	< 5	NA	< 5	NA
2,4-Dichlorophenol	120-83-2	---	---	< 10	NA	< 10	NA
4-Chloro-3-methylphenol	59-50-7	---	---	< 5	NA	< 5	NA
2,4,6-Trchlorophenol	88-06-2	---	---	< 5	NA	< 5	NA
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 5	NA	< 5	NA
1,3-Dichlorobenzene	541-73-1	---	---	< 5	NA	< 5	NA
1,4-Dichlorobenzene	106-46-7	---	---	< 5	NA	< 5	NA
1,2-Dichlorobenzene	95-50-1	---	---	< 5	NA	< 5	NA
Hexachloroethane	67-72-1	---	---	< 5	NA	< 5	NA
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 5	NA	< 5	NA
Nitrobenzene	98-95-3	---	---	< 5	NA	< 5	NA
Isophorone	78-59-1	---	---	< 5	NA	< 5	NA
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 5	NA	< 5	NA
1,2,4-Trchlorobenzene	120-82-1	---	---	< 5	NA	< 5	NA
Hexachlorobutadiene	87-68-3	---	---	< 5	NA	< 5	NA
Hexachlorocyclopentadiene	77-47-4	---	---	< 20	NA	< 20	NA
2-Chloronaphthalene	91-58-7	---	---	< 5	NA	< 5	NA
Dimethylphthalate	131-11-3	monitor	monitor	< 20	NA	< 20	NA
2-methylphenol	95-48-7	---	---	< 5	NA	< 5	NA
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 5	NA	< 5	NA
4-methylphenol (total)	106-44-5	monitor	140	< 5	NA	< 5	NA
Dibenzofuran	132-64-9	---	---	< 5	NA	< 5	NA
3-Nitroaniline	99-09-2	---	---	< 5	NA	< 5	NA
4-Nitroaniline	100-01-6	---	---	< 5	NA	< 5	NA
2,4-Dinitrophenol	51-28-5	---	---	< 20	NA	< 20	NA
4-Nitrophenol	100-02-7	---	---	< 20	NA	< 20	NA
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 20	NA	< 20	NA
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 20	NA	< 20	NA
2,6-Dinitrotoluene	606-20-2	---	---	< 5	NA	< 5	NA
2,4-Dinitrotoluene	121-14-2	---	---	< 5	NA	< 5	NA
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 5	NA	< 5	NA
Diethylphthalate	84-66-2	monitor	2600	< 5	NA	< 5	NA
N-nitrosodiphenylamine	86-30-6	---	---	< 5	NA	< 5	NA
4-Bromophenyl-phenylether	101-55-3	---	---	< 5	NA	< 5	NA
Hexachlorobenzene	118-74-1	---	---	< 5	NA	< 5	NA
di-n-butylphthalate	84-74-2	monitor	350	< 5	NA	< 5	NA
Butylbenzylphthalate	85-68-7	---	---	1	J	< 5	NA
3,3'-Dichlorobenzidine	91-94-1	---	---	< 20	NA	< 20	NA
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	1.4	J	< 5	NA
Di-n-octylphthalate	117-84-0	---	---	< 5	NA	< 5	NA
Carbazole	86-74-8	---	---	< 10	NA	< 10	NA

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		July-14 7/17/2014	August-14 8/1/2014	September-14 9/16/2014	October-14 10/1/2014
		Discharge Limits					
		30 Day Avg.	Daily Max.				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 0.5	NA	< 5	NA
Acenaphthylene	208-96-8	---	---	< 0.5	NA	< 5	NA
Anthracene	120-12-7	---	---	< 0.5	NA	< 5	NA
Fluorene	86-73-7	---	---	< 0.5	NA	< 5	NA
Phenanthrene	85-01-8	---	---	< 0.5	NA	< 5	NA
Acenaphthene	83-32-9	monitor	67	< 0.5	NA	< 5	NA
Benzo (a) pyrene	50-32-8	---	---	< 0.5	NA	< 5	NA
Chrysene	218-01-9	---	---	< 0.5	NA	< 5	NA
Fluoranthene	206-44-0	66	200	< 0.5	NA	< 5	NA
Pyrene	129-00-0	---	---	< 0.5	NA	< 5	NA
Benzo (a) anthracene	56-55-3	---	---	< 0.5	NA	< 5	NA
Benzo (k) flouranthene	207-08-9	---	---	< 0.5	NA	< 5	NA
Benzo (g,h,i) perylene	191-24-2	---	---	< 0.5	NA	< 5	NA
Dibenz (a,h) anthracene	53-70-3	---	---	< 0.5	NA	< 5	NA
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 0.5	NA	< 5	NA
Benzo (b) flouranthene	205-99-2	---	---	< 0.5	NA	< 5	NA
Total PAHs		0.376	monitor	0	NA	0	NA
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 1	NA	< 1	NA
Vinyl Chloride	75-01-4	---	---	< 1	NA	< 1	NA
Bromomethane	74-83-9	---	---	< 1	NA	< 1	NA
Chloroethane	75-00-3	---	---	< 1	NA	< 1	NA
1,1-Dichloroethene	75-35-4	---	---	< 1	NA	< 1	NA
Methylene Chloride	75-09-2	---	---	< 5	NA	< 5	NA
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	NA	< 1	NA
1,1-Dichloroethane	75-34-3	---	---	< 1	NA	< 1	NA
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	NA	< 1	NA
Chloroform	67-66-3	---	---	< 1	NA	< 1	NA
1,1,1-Trichloroethane	71-55-6	---	---	< 1	NA	< 1	NA
Carbon Tetrachloride	56-23-5	---	---	< 1	NA	< 1	NA
Benzene	71-43-2	57	134	< 1	NA	< 1	NA
1,2-Dichloroethane	107-06-2	180	574	< 1	NA	< 1	NA
Trichloroethene	79-01-6	---	---	< 1	NA	< 1	NA
1,2-Dichloropropane	78-87-5	---	---	< 1	NA	< 1	NA
Bromodichloromethane	75-27-4	---	---	< 1	NA	< 1	NA
Toluene	108-88-3	28	74	< 1	NA	< 1	NA
1,1,2-Trichloroethane	79-00-5	---	---	< 1	NA	< 1	NA
Tetrachloroethene	127-18-4	52	164	< 1	NA	< 1	NA
Dibromochloromethane	124-48-1	---	---	< 1	NA	< 1	NA
Chlorobenzene	108-90-7	---	---	< 1	NA	< 1	NA
Ethylbenzene	100-41-4	142	380	< 1	NA	< 1	NA
Styrene	100-42-5	monitor	1300	< 1	NA	< 1	NA
Bromoform	75-25-2	---	---	< 1	NA	< 1	NA
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	NA	< 1	NA
Acetone (total)	67-64-1	monitor	550	< 10	NA	< 10	NA
Carbon Disulfide	75-15-0	---	---	< 1	NA	< 1	NA
2-Butanone	78-93-3	---	---	< 5	NA	< 5	NA
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	NA	< 1	NA
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	NA	< 1	NA
4-Methyl-2-pentanone	108-10-1	---	---	< 5	NA	< 5	NA
2-Hexanone	591-78-6	---	---	< 5	NA	< 5	NA
Total Xylene	1330-20-7	---	---	< 3	NA	< 3	NA

Notes

--- indicates no Established Effluent Criteria

NA - Not Analyzed

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		June-14 6/1/2014	July-14 7/17/2014	August-14 8/1/2014	September-14 9/16/2014
		Discharge Limits					
		30 Day Avg	Daily Max.				
Metals (mg/L)							
Mercury	7439-97-6	0.000013	0.0011	NA	< 0.0002	NA	0.000075 J
Antimony	7440-36-0	monitor	monitor	NA	0.000078 J	NA	0.000049 J
Chromium	7440-47-3	0.119	2.6	NA	< 0.005	NA	< 0.005
Copper	7440-50-8	monitor	0.027	NA	0.015	NA	0.023
Lead	7439-92-1	0.121	0.23	NA	0.0025 J	NA	0.00029 J
Nickel	7440-02-0	0.24	2.3	NA	0.011	NA	0.011
Zinc	7440-66-6	monitor	0.17	NA	0.81	NA	0.074
Arsenic	7440-38-2	0.122	0.36	NA	0.00071 J	NA	< 0.005
Beryllium	7440-41-7	0.00142	1	NA	< 0.002	NA	< 0.002
Cadmium	7440-43-9	monitor	0.0089	NA	< 0.0002	NA	< 0.0002
Silver	7440-22-4	monitor	0.0034	NA	< 0.005	NA	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	NA	0.0016 J	NA	0.0056
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	NA	6.6	NA	6.9
TSS	TSS	30	45	NA	< 3	NA	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	NA	1.4	NA	1.4
Oil & Grease (total)	O&G	10	10	NA	1.8 J	NA	1.6 J
BOD	BOD	monitor	monitor	NA	< 2	NA	2.7
Pesticides (ug/L)							
Endnn Ketone	53494-70-5	---	---	NA	< 0.02	NA	< 0.02
Alpha Chlordane	5103-71-9	---	---	NA	< 0.02	NA	< 0.02
Gamma Chlordane	5103-74-2	---	---	NA	< 0.02	NA	< 0.02
Alpha BHC	319-84-6	---	---	NA	< 0.02	NA	< 0.02
Beta BHC	319-85-7	---	---	NA	< 0.02	NA	< 0.02
Gamma BHC-Lindane	58-89-9	---	---	NA	< 0.02	NA	< 0.02
Delta BHC	319-86-8	---	---	NA	< 0.02	NA	< 0.02
Heptachlor	76-44-8	0.00331	monitor	NA	< 0.02	NA	< 0.02
Aidnn	309-00-2	0.000884	monitor	NA	< 0.02	NA	< 0.02
Heptachlor Epoxide	1024-57-3	---	---	NA	< 0.02	NA	< 0.02
p,p-DDE	72-55-9	---	---	NA	< 0.02	NA	< 0.02
p,p-DDD	72-54-8	---	---	NA	< 0.02	NA	< 0.02
p,p-DDT	50-29-3	0.000227	monitor	NA	< 0.02	NA	< 0.02
Dieldnn	60-57-1	---	---	NA	< 0.02	NA	< 0.02
Endnn	72-20-8	---	---	NA	< 0.02	NA	< 0.02
Toxaphene	8001-35-2	---	---	NA	< 4	NA	< 4
Endosulfan II	33213-65-9	---	---	NA	< 0.02	NA	< 0.02
Endosulfan I	959-98-8	---	---	NA	< 0.02	NA	< 0.02
Endosulfan Sulfate	1031-07-8	---	---	NA	< 0.02	NA	< 0.02
Endnn Aldehyde	7421-93-4	---	---	NA	< 0.02	NA	< 0.02
Methoxychlor	72-43-5	---	---	NA	< 0.02	NA	< 0.02
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	NA	< 0.2	NA	< 0.2
PCB-1221	11104-28-2	---	---	NA	< 0.2	NA	< 0.2
PCB-1232	11141-16-5	---	---	NA	< 0.2	NA	< 0.2
PCB-1242	53469-21-9	---	---	NA	< 0.2	NA	< 0.2
PCB-1248	12672-29-6	---	---	NA	< 0.2	NA	< 0.2
PCB-1254	11097-69-1	---	---	NA	< 0.2	NA	< 0.2
PCB-1260	11096-82-5	---	---	NA	< 0.2	NA	< 0.2
TOTAL PCBs		0.000967	monitor		0		0

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit Discharge Limits		June-14	July-14	August-14	September-14
		30 Day Avg.	Daily Max	6/1/2014	7/17/2014	8/1/2014	9/16/2014
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	NA	< 20	NA	< 20
2-Methylnaphthalene	91-57-6	---	---	NA	< 5	NA	< 5
2-Nitroaniline	88-74-4	---	---	NA	< 5	NA	< 5
2,4,5-Trichlorophenol	95-95-4	---	---	NA	< 5	NA	< 5
2-Chlorophenol	95-57-8	---	---	NA	< 5	NA	< 5
Phenol	108-95-2	monitor	monitor	NA	< 5	NA	< 5
2-Nitrophenol	88-75-5	---	---	NA	< 5	NA	< 5
2,4-Dimethylphenol	105-67-9	---	---	NA	< 5	NA	< 5
2,4-Dichlorophenol	120-83-2	---	---	NA	< 10	NA	< 10
4-Chloro-3-methylphenol	59-50-7	---	---	NA	< 5	NA	< 5
2,4,6-Trichlorophenol	88-06-2	---	---	NA	< 5	NA	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	NA	< 5	NA	< 5
1,3-Dichlorobenzene	541-73-1	---	---	NA	< 5	NA	< 5
1,4-Dichlorobenzene	106-46-7	---	---	NA	< 5	NA	< 5
1,2-Dichlorobenzene	95-50-1	---	---	NA	< 5	NA	< 5
Hexachloroethane	67-72-1	---	---	NA	< 5	NA	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	NA	< 5	NA	< 5
Nitrobenzene	98-95-3	---	---	NA	< 5	NA	< 5
Isophorone	78-59-1	---	---	NA	< 5	NA	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	NA	< 5	NA	< 5
1,2,4-Trichlorobenzene	120-82-1	---	---	NA	< 5	NA	< 5
Hexachlorobutadiene	87-68-3	---	---	NA	< 5	NA	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	NA	< 20	NA	< 20
2-Chloronaphthalene	91-58-7	---	---	NA	< 5	NA	< 5
Dimethylphthalate	131-11-3	monitor	monitor	NA	< 20	NA	< 20
2-methylphenol	95-48-7	---	---	NA	< 5	NA	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	NA	< 5	NA	< 5
4-methylphenol (total)	106-44-5	monitor	140	NA	< 5	NA	< 5
Dibenzofuran	132-64-9	---	---	NA	< 5	NA	< 5
3-Nitroaniline	99-09-2	---	---	NA	< 5	NA	< 5
4-Nitroaniline	100-01-6	---	---	NA	< 5	NA	< 5
2,4-Dinitrophenol	51-28-5	---	---	NA	< 20	NA	< 20
4-Nitrophenol	100-02-7	---	---	NA	< 20	NA	< 20
4,6-Dinitro-2-methylphenol	534-52-1	---	---	NA	< 20	NA	< 20
Pentachlorophenol (total)	87-86-5	monitor	3 5	NA	< 20	NA	< 20
2,6-Dinitrotoluene	606-20-2	---	---	NA	< 5	NA	< 5
2,4-Dinitrotoluene	121-14-2	---	---	NA	< 5	NA	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	NA	< 5	NA	< 5
Diethylphthalate	84-66-2	monitor	2600	NA	< 5	NA	< 5
N-nitrosodiphenylamine	86-30-6	---	---	NA	< 5	NA	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	NA	< 5	NA	< 5
Hexachlorobenzene	118-74-1	---	---	NA	< 5	NA	< 5
di-n-butylphthalate	84-74-2	monitor	350	NA	< 5	NA	< 5
Butylbenzylphthalate	85-68-7	---	---	NA	1	J	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	NA	< 20	NA	< 20
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	NA	1.4	J	< 5
Di-n-octylphthalate	117-84-0	---	---	NA	< 5	NA	< 5
Carbazole	86-74-8	---	---	NA	< 10	NA	< 10

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		June-14	July-14	August-14	September-14
		Discharge Limits		6/1/2014	7/17/2014	8/1/2014	9/16/2014
		30 Day Avg.	Daily Max.				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	NA	< 0.5	NA	< 5
Acenaphthylene	208-96-8	---	---	NA	< 0.5	NA	< 5
Anthracene	120-12-7	---	---	NA	< 0.5	NA	< 5
Fluorene	86-73-7	---	---	NA	< 0.5	NA	< 5
Phenanthrene	85-01-8	---	---	NA	< 0.5	NA	< 5
Acenaphthene	83-32-9	monitor	67	NA	< 0.5	NA	< 5
Benzo (a) pyrene	50-32-8	---	---	NA	< 0.5	NA	< 5
Chrysene	218-01-9	---	---	NA	< 0.5	NA	< 5
Fluoranthene	206-44-0	66	200	NA	< 0.5	NA	< 5
Pyrene	129-00-0	---	---	NA	< 0.5	NA	< 5
Benzo (a) anthracene	56-55-3	---	---	NA	< 0.5	NA	< 5
Benzo (k) flouranthene	207-08-9	---	---	NA	< 0.5	NA	< 5
Benzo (g,h,i) perylene	191-24-2	---	---	NA	< 0.5	NA	< 5
Dibenz (a,h) anthracene	53-70-3	---	---	NA	< 0.5	NA	< 5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	NA	< 0.5	NA	< 5
Benzo (b) flouranthene	205-99-2	---	---	NA	< 0.5	NA	< 5
Total PAHs		0.376	monitor	NA	0	NA	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	NA	< 1	NA	< 1
Vinyl Chloride	75-01-4	---	---	NA	< 1	NA	< 1
Bromomethane	74-83-9	---	---	NA	< 1	NA	< 1
Chloroethane	75-00-3	---	---	NA	< 1	NA	< 1
1,1-Dichloroethene	75-35-4	---	---	NA	< 1	NA	< 1
Methylene Chloride	75-09-2	---	---	NA	< 5	NA	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	NA	< 1	NA	< 1
1,1-Dichloroethane	75-34-3	---	---	NA	< 1	NA	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	NA	< 1	NA	< 1
Chloroform	67-66-3	---	---	NA	< 1	NA	< 1
1,1,1-Trichloroethane	71-55-6	---	---	NA	< 1	NA	< 1
Carbon Tetrachloride	56-23-5	---	---	NA	< 1	NA	< 1
Benzene	71-43-2	57	134	NA	< 1	NA	< 1
1,2-Dichloroethane	107-06-2	180	574	NA	< 1	NA	< 1
Trichloroethene	79-01-6	---	---	NA	< 1	NA	< 1
1,2-Dichloropropane	78-87-5	---	---	NA	< 1	NA	< 1
Bromodichloromethane	75-27-4	---	---	NA	< 1	NA	< 1
Toluene	108-88-3	28	74	NA	< 1	NA	< 1
1,1,2-Trichloroethane	79-00-5	---	---	NA	< 1	NA	< 1
Tetrachloroethene	127-18-4	52	164	NA	< 1	NA	< 1
Dibromochloromethane	124-48-1	---	---	NA	< 1	NA	< 1
Chlorobenzene	108-90-7	---	---	NA	< 1	NA	< 1
Ethylbenzene	100-41-4	142	380	NA	< 1	NA	< 1
Styrene	100-42-5	monitor	1300	NA	< 1	NA	< 1
Bromoform	75-25-2	---	---	NA	< 1	NA	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	NA	< 1	NA	< 1
Acetone (total)	67-64-1	monitor	550	NA	< 10	NA	< 10
Carbon Disulfide	75-15-0	---	---	NA	< 1	NA	< 1
2-Butanone	78-93-3	---	---	NA	< 5	NA	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	NA	< 1	NA	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	NA	< 1	NA	< 1
4-Methyl-2-pentanone	108-10-1	---	---	NA	< 5	NA	< 5
2-Hexanone	591-78-6	---	---	NA	< 5	NA	< 5
Total Xylene	1330-20-7	---	---	NA	< 3	NA	< 3

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		May-14	May-14	June-14	July-14
		30 Day Avg	Daily Max	5/7/2014	5/19/2014	6/1/2014	7/17/2014
Metals (mg/L)							
Mercury	7439-97-6	0 000013	0 0011	< 0 0002	< 0 0002	NA	< 0 0002
Antimony	7440-36-0	monitor	monitor	< 0 02	NA	NA	0 000078 J
Chromium	7440-47-3	0 119	2 6	< 0 015	< 0 015	NA	< 0 005
Copper	7440-50-8	monitor	0 027	0 0152	0 0154	NA	0 015
Lead	7439-92-1	0.121	0.23	< 0 015	< 0 015	NA	0 0025 J
Nickel	7440-02-0	0 24	2.3	0 0081 J	0 0093 J	NA	0 011
Zinc	7440-66-6	monitor	0.17	0 0665	0 126	NA	0 81
Arsenic	7440-38-2	0.122	0.36	< 0 02	< 0 02	NA	0 00071 J
Beryllium	7440-41-7	0.00142	1	< 0 005	< 0 005	NA	< 0 002
Cadmium	7440-43-9	monitor	0.0089	< 0 005	< 0 005	NA	< 0 0002
Silver	7440-22-4	monitor	0.0034	< 0 005	< 0 005	NA	< 0 005
Cyanide (free)	57-12-5	monitor	0 046	< 0 01	< 0 01	NA	0 0016 J
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	7 8	NA	NA	6 6
TSS	TSS	30	45	< 3	NA	NA	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	2 4	2 3	NA	1 4
Oil & Grease (total)	O&G	10	10	< 5	NA	NA	1 8 J
BOD	BOD	monitor	monitor	< 3 1	NA	NA	< 2
Pesticides (ug/L)							
Endnn Ketone	53494-70-5	---	---	< 0 017	NA	NA	< 0 02
Alpha Chlordane	5103-71-9	---	---	< 0 0083	NA	NA	< 0 02
Gamma Chlordane	5103-74-2	---	---	< 0 017	NA	NA	< 0 02
Alpha BHC	319-84-6	---	---	< 0 0083	NA	NA	< 0 02
Beta BHC	319-85-7	---	---	< 0 0083	NA	NA	< 0 02
Gamma BHC-Lindane	58-89-9	---	---	< 0 0083	NA	NA	< 0 02
Delta BHC	319-86-8	---	---	< 0 0083	NA	NA	< 0 02
Heptachlor	76-44-8	0 00331	monitor	< 0 0083	NA	NA	< 0 02
Aldnn	309-00-2	0 000884	monitor	< 0 0083	NA	NA	< 0 02
Heptachlor Epoxide	1024-57-3	---	---	< 0 0083	NA	NA	< 0 02
p,p-DDE	72-55-9	---	---	< 0 017	NA	NA	< 0 02
p,p-DDD	72-54-8	---	---	< 0 017	NA	NA	< 0 02
p,p-DDT	50-29-3	0 000227	monitor	< 0 017	NA	NA	< 0 02
Diieldnn	60-57-1	---	---	< 0 017	NA	NA	< 0 02
Endnn	72-20-8	---	---	< 0 017	NA	NA	< 0 02
Toxaphene	8001-35-2	---	---	< 0 83	NA	NA	< 4
Endosulfan II	33213-65-9	---	---	< 0 017	NA	NA	< 0 02
Endosulfan I	959-98-8	---	---	< 0 0083	NA	NA	< 0 02
Endosulfan Sulfate	1031-07-8	---	---	< 0 017	NA	NA	< 0 02
Endnn Aldehyde	7421-93-4	---	---	< 0 083	NA	NA	< 0 02
Methoxychlor	72-43-5	---	---	< 0 083	NA	NA	< 0 02
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0 41	NA	NA	< 0 2
PCB-1221	11104-28-2	---	---	< 0 41	NA	NA	< 0 2
PCB-1232	11141-16-5	---	---	< 0 41	NA	NA	< 0 2
PCB-1242	53469-21-9	---	---	< 0 41	NA	NA	< 0 2
PCB-1248	12672-29-6	---	---	< 0 41	NA	NA	< 0 2
PCB-1254	11097-69-1	---	---	< 0 41	NA	NA	< 0 2
PCB-1260	11096-82-5	---	---	< 0 41	NA	NA	< 0 2
TOTAL PCBs		0.000967	monitor	0			0

Attachment A

2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit		May-14	May-14	June-14	July-14
		Discharge Limits		5/7/2014	5/19/2014	6/1/2014	7/17/2014
		30 Day Avg	Daily Max.				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 1	NA	NA	< 20
2-Methylnaphthalene	91-57-6	---	---	< 0.5	NA	NA	< 5
2-Nitroaniline	88-74-4	---	---	< 1	NA	NA	< 5
2,4,5-Trchlorophenol	95-95-4	---	---	< 1	NA	NA	< 5
2-Chlorophenol	95-57-8	---	---	< 1	NA	NA	< 5
Phenol	108-95-2	monitor	monitor	< 1	NA	NA	< 5
2-Nitrophenol	88-75-5	---	---	< 1	NA	NA	< 5
2,4-Dimethylphenol	105-67-9	---	---	< 1	NA	NA	< 5
2,4-Dichlorophenol	120-83-2	---	---	< 1	NA	NA	< 10
4-Chloro-3-methylphenol	59-50-7	---	---	< 1	NA	NA	< 5
2,4,6-Trchlorophenol	88-06-2	---	---	< 1	NA	NA	< 5
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 1	NA	NA	< 5
1,3-Dichlorobenzene	541-73-1	---	---	< 1	NA	NA	< 5
1,4-Dichlorobenzene	106-46-7	---	---	< 1	NA	NA	< 5
1,2-Dichlorobenzene	95-50-1	---	---	< 1	NA	NA	< 5
Hexachloroethane	67-72-1	---	---	< 5	NA	NA	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 1	NA	NA	< 5
Nitrobenzene	98-95-3	---	---	< 1	NA	NA	< 5
Isophorone	78-59-1	---	---	< 1	NA	NA	< 5
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 1	NA	NA	< 5
1,2,4-Trchlorobenzene	120-82-1	---	---	< 1	NA	NA	< 5
Hexachlorobutadiene	87-68-3	---	---	< 1	NA	NA	< 5
Hexachlorocyclopentadiene	77-47-4	---	---	< 15	NA	NA	< 20
2-Chloronaphthalene	91-58-7	---	---	< 1	NA	NA	< 5
Dimethylphthalate	131-11-3	monitor	monitor	< 5	NA	NA	< 20
2-methylphenol	95-48-7	---	---	< 1	NA	NA	< 5
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 1	NA	NA	< 5
4-methylphenol (total)	106-44-5	monitor	140	< 1	NA	NA	< 5
Dibenzofuran	132-64-9	---	---	< 1	NA	NA	< 5
3-Nitroaniline	99-09-2	---	---	< 1	NA	NA	< 5
4-Nitroaniline	100-01-6	---	---	< 1	NA	NA	< 5
2,4-Dinitrophenol	51-28-5	---	---	< 31	NA	NA	< 20
4-Nitrophenol	100-02-7	---	---	< 31	NA	NA	< 20
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 15	NA	NA	< 20
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	NA	NA	< 20
2,6-Dinitrotoluene	606-20-2	---	---	< 1	NA	NA	< 5
2,4-Dinitrotoluene	121-14-2	---	---	< 5	NA	NA	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 1	NA	NA	< 5
Diethylphthalate	84-66-2	monitor	2600	< 5	NA	NA	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 1	NA	NA	< 5
4-Bromophenyl-phenylether	101-55-3	---	---	< 1	NA	NA	< 5
Hexachlorobenzene	118-74-1	---	---	< 0.5	NA	NA	< 5
di-n-butylphthalate	84-74-2	monitor	350	< 5	NA	NA	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	NA	NA	1 J
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	NA	NA	< 20
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	NA	NA	1.4 J
Di-n-octylphthalate	117-84-0	---	---	< 5	NA	NA	< 5
Carbazole	86-74-8	---	---	< 1	NA	NA	< 10

Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit Discharge Limits		May-14	May-14	June-14	July-14
		30 Day Avg	Daily Max	5/7/2014	5/19/2014	6/1/2014	7/17/2014
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 0.5	NA	NA	< 0.5
Acenaphthylene	208-96-8	---	---	< 0.5	NA	NA	< 0.5
Anthracene	120-12-7	---	---	< 0.5	NA	NA	< 0.5
Fluorene	86-73-7	---	---	< 0.5	NA	NA	< 0.5
Phenanthrene	85-01-8	---	---	< 0.5	NA	NA	< 0.5
Acenaphthene	83-32-9	monitor	67	< 0.5	NA	NA	< 0.5
Benzo (a) pyrene	50-32-8	---	---	< 0.5	NA	NA	< 0.5
Chrysene	218-01-9	---	---	< 0.5	NA	NA	< 0.5
Fluoranthene	206-44-0	66	200	< 0.5	NA	NA	< 0.5
Pyrene	129-00-0	---	---	< 0.5	NA	NA	< 0.5
Benzo (a) anthracene	56-55-3	---	---	< 0.5	NA	NA	< 0.5
Benzo (k) flouranthene	207-08-9	---	---	< 0.5	NA	NA	< 0.5
Benzo (g,h,i) perylene	191-24-2	---	---	< 0.5	NA	NA	< 0.5
Dibenz (a,h) anthracene	53-70-3	---	---	< 0.5	NA	NA	< 0.5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 0.5	NA	NA	< 0.5
Benzo (b) flouranthene	205-99-2	---	---	< 0.5	NA	NA	< 0.5
Total PAHs		0.376	monitor	0	NA	NA	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	15	NA	NA	< 1
Vinyl Chloride	75-01-4	---	---	< 1	NA	NA	< 1
Bromomethane	74-83-9	---	---	< 1	NA	NA	< 1
Chloroethane	75-00-3	---	---	< 1	NA	NA	< 1
1,1-Dichloroethene	75-35-4	---	---	< 1	NA	NA	< 1
Methylene Chloride	75-09-2	---	---	< 3	NA	NA	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	NA	NA	< 1
1,1-Dichloroethane	75-34-3	---	---	< 1	NA	NA	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	NA	NA	< 1
Chloroform	67-66-3	---	---	< 1	NA	NA	< 1
1,1,1-Trichloroethane	71-55-6	---	---	< 1	NA	NA	< 1
Carbon Tetrachloride	56-23-5	---	---	< 1	NA	NA	< 1
Benzene	71-43-2	57	134	< 1	NA	NA	< 1
1,2-Dichloroethane	107-06-2	180	574	< 1	NA	NA	< 1
Trichloroethene	79-01-6	---	---	< 1	NA	NA	< 1
1,2-Dichloropropane	78-87-5	---	---	< 1	NA	NA	< 1
Bromodichloromethane	75-27-4	---	---	< 1	NA	NA	< 1
Toluene	108-88-3	28	74	< 1	NA	NA	< 1
1,1,2-Trichloroethane	79-00-5	---	---	< 1	NA	NA	< 1
Tetrachloroethene	127-18-4	52	164	< 1	NA	NA	< 1
Dibromochloromethane	124-48-1	---	---	< 1	NA	NA	< 1
Chlorobenzene	108-90-7	---	---	< 1	NA	NA	< 1
Ethylbenzene	100-41-4	142	380	< 1	NA	NA	< 1
Styrene	100-42-5	monitor	1300	< 5	NA	NA	< 1
Bromoform	75-25-2	---	---	< 4	NA	NA	< 1
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	NA	NA	< 1
Acetone (total)	67-64-1	monitor	550	< 20	NA	NA	< 10
Carbon Disulfide	75-15-0	---	---	< 5	NA	NA	< 1
2-Butanone	78-93-3	---	---	< 10	NA	NA	< 5
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 5	NA	NA	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	NA	NA	< 1
4-Methyl-2-pentanone	108-10-1	---	---	< 10	NA	NA	< 5
2-Hexanone	591-78-6	---	---	< 10	NA	NA	< 5
Total Xylene	1330-20-7	---	---	< 1	NA	NA	< 3

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		April-14	May-14	May-14	June-14
		30 Day Avg.	Daily Max.	4/9/2014	5/7/2014	5/19/2014	6/1/2014
Metals (mg/L)							
Mercury	7439-97-6	0.00013	0.0011	< 0.0002	< 0.0002	< 0.0002	NA
Antimony	7440-36-0	monitor	monitor	< 0.02	< 0.02	NA	NA
Chromium	7440-47-3	0.119	2.6	< 0.015	< 0.015	< 0.015	NA
Copper	7440-50-8	monitor	0.027	0.015	0.0152	0.0154	NA
Lead	7439-92-1	0.121	0.23	< 0.015	< 0.015	< 0.015	NA
Nickel	7440-02-0	0.24	2.3	0.007 J	0.0081 J	0.0093 J	NA
Zinc	7440-66-6	monitor	0.17	0.0879	0.0665	0.126	NA
Arsenic	7440-38-2	0.122	0.36	< 0.02	< 0.02	< 0.02	NA
Beryllium	7440-41-7	0.00142	1	< 0.005	< 0.005	< 0.005	NA
Cadmium	7440-43-9	monitor	0.0089	< 0.005	< 0.005	< 0.005	NA
Silver	7440-22-4	monitor	0.0034	< 0.005	< 0.005	< 0.005	NA
Cyanide (free)	57-12-5	monitor	0.046	< 0.01	< 0.01	< 0.01	NA
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	8.1	7.8	NA	NA
TSS	TSS	30	45	< 3	< 3	NA	NA
Ammonia Nitrogen	7664-41-7	monitor	monitor	3.1	2.4	2.3	NA
Oil & Grease (total)	O&G	10	10	2.7 J	< 5	NA	NA
BOD	BOD	monitor	monitor	< 2.9	< 3.1	NA	NA
Pesticides (ug/L)							
Endrin Ketone	53494-70-5	---	---	< 0.016	< 0.017	NA	NA
Alpha Chlordane	5103-71-9	---	---	< 0.008	< 0.0083	NA	NA
Gamma Chlordane	5103-74-2	---	---	< 0.016	< 0.017	NA	NA
Alpha BHC	319-84-6	---	---	< 0.008	< 0.0083	NA	NA
Beta BHC	319-85-7	---	---	< 0.008	< 0.0083	NA	NA
Gamma BHC-Lindane	58-89-9	---	---	< 0.008	< 0.0083	NA	NA
Delta BHC	319-86-8	---	---	< 0.008	< 0.0083	NA	NA
Heptachlor	76-44-8	0.00331	monitor	< 0.008	< 0.0083	NA	NA
Aldrin	309-00-2	0.000884	monitor	< 0.008	< 0.0083	NA	NA
Heptachlor Epoxide	1024-57-3	---	---	< 0.008	< 0.0083	NA	NA
p,p-DDE	72-55-9	---	---	< 0.016	< 0.017	NA	NA
p,p-DDD	72-54-8	---	---	< 0.016	< 0.017	NA	NA
p,p-DDT	50-29-3	0.000227	monitor	< 0.016	< 0.017	NA	NA
Dieldrin	60-57-1	---	---	< 0.016	< 0.017	NA	NA
Endrin	72-20-8	---	---	< 0.016	< 0.017	NA	NA
Toxaphene	8001-35-2	---	---	< 0.8	< 0.83	NA	NA
Endosulfan II	33213-65-9	---	---	< 0.016	< 0.017	NA	NA
Endosulfan I	959-98-8	---	---	< 0.008	< 0.0083	NA	NA
Endosulfan Sulfate	1031-07-8	---	---	< 0.016	< 0.017	NA	NA
Endrin Aldehyde	7421-93-4	---	---	< 0.08	< 0.083	NA	NA
Methoxychlor	72-43-5	---	---	< 0.08	< 0.083	NA	NA
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0.4	< 0.41	NA	NA
PCB-1221	11104-28-2	---	---	< 0.4	< 0.41	NA	NA
PCB-1232	11141-16-5	---	---	< 0.4	< 0.41	NA	NA
PCB-1242	53469-21-9	---	---	< 0.4	< 0.41	NA	NA
PCB-1248	12672-29-6	---	---	< 0.4	< 0.41	NA	NA
PCB-1254	11097-69-1	---	---	< 0.4	< 0.41	NA	NA
PCB-1260	11096-82-5	---	---	< 0.4	< 0.41	NA	NA
TOTAL PCBs		0.000967	monitor	0	0		

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		April-14	May-14	May-14	June-14
		30 Day Avg.	Daily Max.	4/9/2014	5/7/2014	5/19/2014	6/1/2014
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 1	< 1	NA	NA
2-Methylnaphthalene	91-57-6	---	---	< 0.5	< 0.5	NA	NA
2-Nitroaniline	88-74-4	---	---	< 1	< 1	NA	NA
2,4,5-Trichlorophenol	95-95-4	---	---	< 1	< 1	NA	NA
2-Chlorophenol	95-57-8	---	---	< 1	< 1	NA	NA
Phenol	108-95-2	monitor	monitor	< 1	< 1	NA	NA
2-Nitrophenol	88-75-5	---	---	< 1	< 1	NA	NA
2,4-Dimethylphenol	105-67-9	---	---	< 1	< 1	NA	NA
2,4-Dichlorophenol	120-83-2	---	---	< 1	< 1	NA	NA
4-Chloro-3-methylphenol	59-50-7	---	---	< 1	< 1	NA	NA
2,4,6-Trichlorophenol	88-06-2	---	---	< 1	< 1	NA	NA
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 1	< 1	NA	NA
1,3-Dichlorobenzene	541-73-1	---	---	< 1	< 1	NA	NA
1,4-Dichlorobenzene	106-46-7	---	---	< 1	< 1	NA	NA
1,2-Dichlorobenzene	95-50-1	---	---	< 1	< 1	NA	NA
Hexachloroethane	67-72-1	---	---	< 5	< 5	NA	NA
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 1	< 1	NA	NA
Nitrobenzene	98-95-3	---	---	< 1	< 1	NA	NA
Isophorone	78-59-1	---	---	< 1	< 1	NA	NA
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 1	< 1	NA	NA
1,2,4-Trichlorobenzene	120-82-1	---	---	< 1	< 1	NA	NA
Hexachlorobutadiene	87-68-3	---	---	< 1	< 1	NA	NA
Hexachlorocyclopentadiene	77-47-4	---	---	< 15	< 15	NA	NA
2-Chloronaphthalene	91-58-7	---	---	< 1	< 1	NA	NA
Dimethylphthalate	131-11-3	monitor	monitor	< 5	< 5	NA	NA
2-methylphenol	95-48-7	---	---	< 1	< 1	NA	NA
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 1	< 1	NA	NA
4-methylphenol (total)	106-44-5	monitor	140	< 1	< 1	NA	NA
Dibenzofuran	132-64-9	---	---	< 1	< 1	NA	NA
3-Nitroaniline	99-09-2	---	---	< 1	< 1	NA	NA
4-Nitroaniline	100-01-6	---	---	< 1	< 1	NA	NA
2,4-Dinitrophenol	51-28-5	---	---	< 30	< 31	NA	NA
4-Nitrophenol	100-02-7	---	---	< 30	< 31	NA	NA
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 15	< 15	NA	NA
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	< 5	NA	NA
2,6-Dinitrotoluene	606-20-2	---	---	< 1	< 1	NA	NA
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5	NA	NA
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 1	< 1	NA	NA
Diethylphthalate	84-66-2	monitor	2600	< 5	< 5	NA	NA
N-nitrosodiphenylamine	86-30-6	---	---	< 1	< 1	NA	NA
4-Bromophenyl-phenylether	101-55-3	---	---	< 1	< 1	NA	NA
Hexachlorobenzene	118-74-1	---	---	< 0.5	< 0.5	NA	NA
di-n-butylphthalate	84-74-2	monitor	350	< 5	< 5	NA	NA
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5	NA	NA
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	< 5	NA	NA
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5	NA	NA
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5	NA	NA
Carbazole	86-74-8	---	---	< 1	< 1	NA	NA

Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit Discharge Limits		Apr1-14	May-14	May-14	June-14
		30 Day Avg	Daily Max	4/9/2014	5/7/2014	5/19/2014	6/1/2014
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 0.5	< 0.5	NA	NA
Acenaphthylene	208-96-8	---	---	< 0.5	< 0.5	NA	NA
Anthracene	120-12-7	---	---	< 0.5	< 0.5	NA	NA
Fluorene	86-73-7	---	---	< 0.5	< 0.5	NA	NA
Phenanthrene	85-01-8	---	---	< 0.5	< 0.5	NA	NA
Acenaphthene	83-32-9	monitor	67	< 0.5	< 0.5	NA	NA
Benzo (a) pyrene	50-32-8	---	---	< 0.5	< 0.5	NA	NA
Chrysene	218-01-9	---	---	< 0.5	< 0.5	NA	NA
Fluoranthene	206-44-0	66	200	< 0.5	< 0.5	NA	NA
Pyrene	129-00-0	---	---	< 0.5	< 0.5	NA	NA
Benzo (a) anthracene	56-55-3	---	---	< 0.5	< 0.5	NA	NA
Benzo (k) flouranthene	207-08-9	---	---	< 0.5	< 0.5	NA	NA
Benzo (g,h,i) perylene	191-24-2	---	---	< 0.5	< 0.5	NA	NA
Dibenz (a,h) anthracene	53-70-3	---	---	< 0.5	< 0.5	NA	NA
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 0.5	< 0.5	NA	NA
Benzo (b) flouranthene	205-99-2	---	---	< 0.5	< 0.5	NA	NA
Total PAHs		0.376	monitor	0	0	NA	NA
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 1	15	NA	NA
Vinyl Chloride	75-01-4	---	---	< 1	< 1	NA	NA
Bromomethane	74-83-9	---	---	< 1	< 1	NA	NA
Chloroethane	75-00-3	---	---	< 1	< 1	NA	NA
1,1-Dichloroethene	75-35-4	---	---	< 1	< 1	NA	NA
Methylene Chloride	75-09-2	---	---	< 3	< 3	NA	NA
Trans-1,2-Dichloroethene	156-60-5	---	---	< 1	< 1	NA	NA
1,1-Dichloroethane	75-34-3	---	---	< 1	< 1	NA	NA
cis-1,2-Dichloroethene	156-59-2	---	---	< 1	< 1	NA	NA
Chloroform	67-66-3	---	---	< 1	< 1	NA	NA
1,1,1-Trichloroethane	71-55-6	---	---	< 1	< 1	NA	NA
Carbon Tetrachloride	56-23-5	---	---	< 1	< 1	NA	NA
Benzene	71-43-2	57	134	< 1	< 1	NA	NA
1,2-Dichloroethane	107-06-2	180	574	< 1	< 1	NA	NA
Trichloroethene	79-01-6	---	---	< 1	< 1	NA	NA
1,2-Dichloropropane	78-87-5	---	---	< 1	< 1	NA	NA
Bromodichloromethane	75-27-4	---	---	< 1	< 1	NA	NA
Toluene	108-88-3	28	74	< 1	< 1	NA	NA
1,1,2-Trichloroethane	79-00-5	---	---	< 1	< 1	NA	NA
Tetrachloroethene	127-18-4	52	164	< 1	< 1	NA	NA
Dibromochloromethane	124-48-1	---	---	< 1	< 1	NA	NA
Chlorobenzene	108-90-7	---	---	< 1	< 1	NA	NA
Ethylbenzene	100-41-4	142	380	< 1	< 1	NA	NA
Styrene	100-42-5	monitor	1300	< 5	< 5	NA	NA
Bromoform	75-25-2	---	---	< 4	< 4	NA	NA
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 1	< 1	NA	NA
Acetone (total)	67-64-1	monitor	550	< 20	< 20	NA	NA
Carbon Disulfide	75-15-0	---	---	< 5	< 5	NA	NA
2-Butanone	78-93-3	---	---	< 10	< 10	NA	NA
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 1	< 5	NA	NA
cis-1,3-Dichloropropene	10061-01-5	---	---	< 1	< 1	NA	NA
4-Methyl-2-pentanone	108-10-1	---	---	< 10	< 10	NA	NA
2-Hexanone	591-78-6	---	---	< 10	< 10	NA	NA
Total Xylene	1330-20-7	---	---	< 1	< 1	NA	NA

Notes

--- Indicates no Established Effluent Criteria
 NA - Not Analyzed

Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit Discharge Limits		March-14	April-14	May-14	May-14
		30 Day Avg.	Daily Max	3/18/2014	4/9/2014	5/7/2014	5/19/2014
Metals (mg/L)							
Mercury	7439-97-6	0.000013	0.0011	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Antimony	7440-36-0	monitor	monitor	< 0.02	< 0.02	< 0.02	NA
Chromium	7440-47-3	0.119	2.6	< 0.015	< 0.015	< 0.015	< 0.015
Copper	7440-50-8	monitor	0.027	0.0145	0.015	0.0152	0.0154
Lead	7439-92-1	0.121	0.23	< 0.015	< 0.015	< 0.015	< 0.015
Nickel	7440-02-0	0.24	2.3	0.0094 J	0.007 J	0.0081 J	0.0093 J
Zinc	7440-66-6	monitor	0.17	0.132	0.0879	0.0665	0.126
Arsenic	7440-38-2	0.122	0.36	< 0.02	< 0.02	< 0.02	< 0.02
Beryllium	7440-41-7	0.00142	1	< 0.005	< 0.005	< 0.005	< 0.005
Cadmium	7440-43-9	monitor	0.0089	< 0.005	< 0.005	< 0.005	< 0.005
Silver	7440-22-4	monitor	0.0034	< 0.005	< 0.005	< 0.005	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	< 0.01	< 0.01	< 0.01	< 0.01
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	7.7	8.1	7.8	NA
TSS	TSS	30	45	< 3	< 3	< 3	NA
Ammonia Nitrogen	7664-41-7	monitor	monitor	3.5	3.1	2.4	2.3
Oil & Grease (total)	O&G	10	10	1.5 J	2.7 J	< 5	NA
BOD	BOD	monitor	monitor	< 2	< 2.9	< 3.1	NA
Pesticides (ug/L)							
Endnn Ketone	53494-70-5	---	---	< 0.016	< 0.016	< 0.017	NA
Alpha Chlordane	5103-71-9	---	---	< 0.0082	< 0.008	< 0.0083	NA
Gamma Chlordane	5103-74-2	---	---	< 0.016	< 0.016	< 0.017	NA
Alpha BHC	319-84-6	---	---	< 0.0082	< 0.008	< 0.0083	NA
Beta BHC	319-85-7	---	---	< 0.0082	< 0.008	< 0.0083	NA
Gamma BHC-Lindane	58-89-9	---	---	< 0.0082	< 0.008	< 0.0083	NA
Delta BHC	319-86-8	---	---	< 0.0082	< 0.008	< 0.0083	NA
Heptachlor	76-44-8	0.00331	monitor	< 0.0082	< 0.008	< 0.0083	NA
Aldnn	309-00-2	0.000884	monitor	< 0.0082	< 0.008	< 0.0083	NA
Heptachlor Epoxide	1024-57-3	---	---	< 0.0082	< 0.008	< 0.0083	NA
p,p-DDE	72-55-9	---	---	< 0.016	< 0.016	< 0.017	NA
p,p-DDD	72-54-8	---	---	< 0.016	< 0.016	< 0.017	NA
p,p-DDT	50-29-3	0.000227	monitor	< 0.016	< 0.016	< 0.017	NA
Dieldnn	60-57-1	---	---	< 0.016	< 0.016	< 0.017	NA
Endnn	72-20-8	---	---	< 0.016	< 0.016	< 0.017	NA
Toxaphene	8001-35-2	---	---	< 0.82	< 0.8	< 0.83	NA
Endosulfan II	33213-65-9	---	---	< 0.016	< 0.016	< 0.017	NA
Endosulfan I	959-98-8	---	---	< 0.0082	< 0.008	< 0.0083	NA
Endosulfan Sulfate	1031-07-8	---	---	< 0.016	< 0.016	< 0.017	NA
Endnn Aldehyde	7421-93-4	---	---	< 0.082	< 0.08	< 0.083	NA
Methoxychlor	72-43-5	---	---	< 0.082	< 0.08	< 0.083	NA
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0.41	< 0.4	< 0.41	NA
PCB-1221	11104-28-2	---	---	< 0.41	< 0.4	< 0.41	NA
PCB-1232	11141-16-5	---	---	< 0.41	< 0.4	< 0.41	NA
PCB-1242	53469-21-9	---	---	< 0.41	< 0.4	< 0.41	NA
PCB-1248	12672-29-6	---	---	< 0.41	< 0.4	< 0.41	NA
PCB-1254	11097-69-1	---	---	< 0.41	< 0.4	< 0.41	NA
PCB-1260	11096-82-5	---	---	< 0.41	< 0.4	< 0.41	NA
TOTAL PCBs		0.000967	monitor	0	0	0	

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		March-14	April-14	May-14	May-14
		30 Day Avg.	Daily Max	3/18/2014	4/9/2014	5/7/2014	5/19/2014
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 1	< 1	< 1	NA
2-Methylnaphthalene	91-57-6	---	---	< 0.5	< 0.5	< 0.5	NA
2-Nitroaniline	88-74-4	---	---	< 1	< 1	< 1	NA
2,4,5-Trichlorophenol	95-95-4	---	---	< 1	< 1	< 1	NA
2-Chlorophenol	95-57-8	---	---	< 1	< 1	< 1	NA
Phenol	108-95-2	monitor	monitor	< 1	< 1	< 1	NA
2-Nitrophenol	88-75-5	---	---	< 1	< 1	< 1	NA
2,4-Dimethylphenol	105-67-9	---	---	< 1	< 1	< 1	NA
2,4-Dichlorophenol	120-83-2	---	---	< 1	< 1	< 1	NA
4-Chloro-3-methylphenol	59-50-7	---	---	< 1	< 1	< 1	NA
2,4,6-Trichlorophenol	88-06-2	---	---	< 1	< 1	< 1	NA
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 1	< 1	< 1	NA
1,3-Dichlorobenzene	541-73-1	---	---	< 1	< 1	< 1	NA
1,4-Dichlorobenzene	106-46-7	---	---	< 1	< 1	< 1	NA
1,2-Dichlorobenzene	95-50-1	---	---	< 1	< 1	< 1	NA
Hexachloroethane	67-72-1	---	---	< 5	< 5	< 5	NA
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 1	< 1	< 1	NA
Nitrobenzene	98-95-3	---	---	< 1	< 1	< 1	NA
Isophorone	78-59-1	---	---	< 1	< 1	< 1	NA
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 1	< 1	< 1	NA
1,2,4-Trichlorobenzene	120-82-1	---	---	< 1	< 1	< 1	NA
Hexachlorobutadiene	87-68-3	---	---	< 1	< 1	< 1	NA
Hexachlorocyclopentadiene	77-47-4	---	---	< 15	< 15	< 15	NA
2-Chloronaphthalene	91-58-7	---	---	< 1	< 1	< 1	NA
Dimethylphthalate	131-11-3	monitor	monitor	< 5	< 5	< 5	NA
2-methylphenol	95-48-7	---	---	< 1	< 1	< 1	NA
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 1	< 1	< 1	NA
4-methylphenol (total)	106-44-5	monitor	140	< 1	< 1	< 1	NA
Dibenzofuran	132-64-9	---	---	< 1	< 1	< 1	NA
3-Nitroaniline	99-09-2	---	---	< 1	< 1	< 1	NA
4-Nitroaniline	100-01-6	---	---	< 1	< 1	< 1	NA
2,4-Dinitrophenol	51-28-5	---	---	< 30	< 30	< 31	NA
4-Nitrophenol	100-02-7	---	---	< 30	< 30	< 31	NA
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 15	< 15	< 15	NA
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	< 5	< 5	NA
2,6-Dinitrotoluene	606-20-2	---	---	< 1	< 1	< 1	NA
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5	< 5	NA
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 1	< 1	< 1	NA
Diethylphthalate	84-66-2	monitor	2600	< 5	< 5	< 5	NA
N-nitrosodiphenylamine	86-30-6	---	---	< 1	< 1	< 1	NA
4-Bromophenyl-phenylether	101-55-3	---	---	< 1	< 1	< 1	NA
Hexachlorobenzene	118-74-1	---	---	< 0.5	< 0.5	< 0.5	NA
di-n-butylphthalate	84-74-2	monitor	350	< 5	< 5	< 5	NA
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5	< 5	NA
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	< 5	< 5	NA
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5	< 5	NA
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5	< 5	NA
Carbazole	86-74-8	---	---	< 1	< 1	< 1	NA

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit Discharge Limits		March-14	April-14	May-14	May-14
		30 Day Avg.	Daily Max	3/18/2014	4/9/2014	5/7/2014	5/19/2014
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 0.5	< 0.5	< 0.5	NA
Acenaphthylene	208-96-8	---	---	< 0.5	< 0.5	< 0.5	NA
Anthracene	120-12-7	---	---	< 0.5	< 0.5	< 0.5	NA
Fluorene	86-73-7	---	---	< 0.5	< 0.5	< 0.5	NA
Phenanthrene	85-01-8	---	---	< 0.5	< 0.5	< 0.5	NA
Acenaphthene	83-32-9	monitor	67	< 0.5	< 0.5	< 0.5	NA
Benzo (a) pyrene	50-32-8	---	---	< 0.5	< 0.5	< 0.5	NA
Chrysene	218-01-9	---	---	< 0.5	< 0.5	< 0.5	NA
Fluoranthene	206-44-0	66	200	< 0.5	< 0.5	< 0.5	NA
Pyrene	129-00-0	---	---	< 0.5	< 0.5	< 0.5	NA
Benzo (a) anthracene	56-55-3	---	---	< 0.5	< 0.5	< 0.5	NA
Benzo (k) flouranthene	207-08-9	---	---	< 0.5	< 0.5	< 0.5	NA
Benzo (g,h,i) perylene	191-24-2	---	---	< 0.5	< 0.5	< 0.5	NA
Dibenz (a,h) anthracene	53-70-3	---	---	< 0.5	< 0.5	< 0.5	NA
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 0.5	< 0.5	< 0.5	NA
Benzo (b) flouranthene	205-99-2	---	---	< 0.5	< 0.5	< 0.5	NA
Total PAHs		0.376	monitor	0	0	0	NA
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 5	< 1	15	NA
Vinyl Chloride	75-01-4	---	---	< 5	< 1	< 1	NA
Bromomethane	74-83-9	---	---	< 5	< 1	< 1	NA
Chloroethane	75-00-3	---	---	< 5	< 1	< 1	NA
1,1-Dichloroethene	75-35-4	---	---	< 5	< 1	< 1	NA
Methylene Chloride	75-09-2	---	---	< 5	< 3	< 3	NA
Trans-1,2-Dichloroethene	156-60-5	---	---	< 5	< 1	< 1	NA
1,1-Dichloroethane	75-34-3	---	---	< 5	< 1	< 1	NA
cis-1,2-Dichloroethene	156-59-2	---	---	< 5	< 1	< 1	NA
Chloroform	67-66-3	---	---	< 5	< 1	< 1	NA
1,1,1-Trichloroethane	71-55-6	---	---	< 5	< 1	< 1	NA
Carbon Tetrachloride	56-23-5	---	---	< 5	< 1	< 1	NA
Benzene	71-43-2	57	134	< 5	< 1	< 1	NA
1,2-Dichloroethane	107-06-2	180	574	< 5	< 1	< 1	NA
Trichloroethene	79-01-6	---	---	< 5	< 1	< 1	NA
1,2-Dichloropropane	78-87-5	---	---	< 5	< 1	< 1	NA
Bromodichloromethane	75-27-4	---	---	< 5	< 1	< 1	NA
Toluene	108-88-3	28	74	< 5	< 1	< 1	NA
1,1,2-Trichloroethane	79-00-5	---	---	< 5	< 1	< 1	NA
Tetrachloroethene	127-18-4	52	164	< 5	< 1	< 1	NA
Dibromochloromethane	124-48-1	---	---	< 5	< 1	< 1	NA
Chlorobenzene	108-90-7	---	---	< 5	< 1	< 1	NA
Ethylbenzene	100-41-4	142	380	< 5	< 1	< 1	NA
Styrene	100-42-5	monitor	1300	< 5	< 5	< 5	NA
Bromoform	75-25-2	---	---	< 5	< 4	< 4	NA
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 5	< 1	< 1	NA
Acetone (total)	67-64-1	monitor	550	< 20	< 20	< 20	NA
Carbon Disulfide	75-15-0	---	---	< 5	< 5	< 5	NA
2-Butanone	78-93-3	---	---	< 10	< 10	< 10	NA
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 5	< 1	< 5	NA
cis-1,3-Dichloropropene	10061-01-5	---	---	< 5	< 1	< 1	NA
4-Methyl-2-pentanone	108-10-1	---	---	< 10	< 10	< 10	NA
2-Hexanone	591-78-6	---	---	< 10	< 10	< 10	NA
Total Xylene	1330-20-7	---	---	< 5	< 1	< 1	NA

Notes

--- Indicates no Established Effluent Criteria
NA - Not Analyzed

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit Discharge Limits		February-14	February-14	March-14	April-14
		30 Day Avg	Daily Max	2/11/2014	2/25/2014	3/18/2014	4/9/2014
Metals (mg/L)							
Mercury	7439-97-6	0.00013	0.0011	< 0.0002	0.000065 J	< 0.0002	< 0.0002
Antimony	7440-36-0	monitor	monitor	< 0.02	NA	< 0.02	< 0.02
Chromium	7440-47-3	0.119	2.6	< 0.015	< 0.015	< 0.015	< 0.015
Copper	7440-50-8	monitor	0.027	0.0144	0.0148	0.0145	0.015
Lead	7439-92-1	0.121	0.23	< 0.015	< 0.015	< 0.015	< 0.015
Nickel	7440-02-0	0.24	2.3	0.0072 J	0.008 J	0.0094 J	0.007 J
Zinc	7440-66-6	monitor	0.17	0.102	0.728	0.132	0.0879
Arsenic	7440-38-2	0.122	0.36	< 0.02	< 0.02	< 0.02	< 0.02
Beryllium	7440-41-7	0.00142	1	< 0.005	< 0.005	< 0.005	< 0.005
Cadmium	7440-43-9	monitor	0.0089	< 0.005	< 0.005	< 0.005	< 0.005
Silver	7440-22-4	monitor	0.0034	< 0.005	< 0.005	< 0.005	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	< 0.01	< 0.01	< 0.01	< 0.01
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	7.6	NA	7.7	8.1
TSS	TSS	30	45	< 3	NA	< 3	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	2.3	3.2	3.5	3.1
Oil & Grease (total)	O&G	10	10	< 5	NA	1.5 J	2.7 J
BOD	BOD	monitor	monitor	< 3	NA	< 2	< 2.9
Pesticides (ug/L)							
Endrin Ketone	53494-70-5	---	---	< 0.016	NA	< 0.016	< 0.016
Alpha Chlordane	5103-71-9	---	---	< 0.0081	NA	< 0.0082	< 0.008
Gamma Chlordane	5103-74-2	---	---	< 0.016	NA	< 0.016	< 0.016
Alpha BHC	319-84-6	---	---	< 0.0081	NA	< 0.0082	< 0.008
Beta BHC	319-85-7	---	---	< 0.0081	NA	< 0.0082	< 0.008
Gamma BHC-Lindane	58-89-9	---	---	< 0.0081	NA	< 0.0082	< 0.008
Delta BHC	319-86-8	---	---	< 0.0081	NA	< 0.0082	< 0.008
Heptachlor	76-44-8	0.00331	monitor	< 0.0081	NA	< 0.0082	< 0.008
Aldrin	309-00-2	0.000884	monitor	< 0.0081	NA	< 0.0082	< 0.008
Heptachlor Epoxide	1024-57-3	---	---	< 0.0081	NA	< 0.0082	< 0.008
p,p-DDE	72-55-9	---	---	< 0.016	NA	< 0.016	< 0.016
p,p-DDD	72-54-8	---	---	< 0.016	NA	< 0.016	< 0.016
p,p-DDT	50-29-3	0.000227	monitor	< 0.016	NA	< 0.016	< 0.016
Dieldrin	60-57-1	---	---	< 0.016	NA	< 0.016	< 0.016
Endrin	72-20-8	---	---	< 0.016	NA	< 0.016	< 0.016
Toxaphene	8001-35-2	---	---	< 0.81	NA	< 0.82	< 0.8
Endosulfan II	33213-65-9	---	---	< 0.016	NA	< 0.016	< 0.016
Endosulfan I	959-98-8	---	---	< 0.0081	NA	< 0.0082	< 0.008
Endosulfan Sulfate	1031-07-8	---	---	< 0.016	NA	< 0.016	< 0.016
Endrin Aldehyde	7421-93-4	---	---	< 0.081	NA	< 0.082	< 0.08
Methoxychlor	72-43-5	---	---	< 0.081	NA	< 0.082	< 0.08
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0.4	NA	< 0.41	< 0.4
PCB-1221	11104-28-2	---	---	< 0.4	NA	< 0.41	< 0.4
PCB-1232	11141-16-5	---	---	< 0.4	NA	< 0.41	< 0.4
PCB-1242	53469-21-9	---	---	< 0.4	NA	< 0.41	< 0.4
PCB-1248	12672-29-6	---	---	< 0.4	NA	< 0.41	< 0.4
PCB-1254	11097-69-1	---	---	< 0.4	NA	< 0.41	< 0.4
PCB-1260	11096-82-5	---	---	< 0.4	NA	< 0.41	< 0.4
TOTAL PCBs		0.000967	monitor	0	NA	0	0

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		February-14	February-14	March-14	April-14
		Discharge Limits		2/11/2014	2/25/2014	3/18/2014	4/9/2014
		30 Day Avg	Daily Max				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 1	NA	< 1	< 1
2-Methylnaphthalene	91-57-6	---	---	< 0.5	NA	< 0.5	< 0.5
2-Nitroaniline	88-74-4	---	---	< 1	NA	< 1	< 1
2,4,5-Trchlorophenol	95-95-4	---	---	< 1	NA	< 1	< 1
2-Chlorophenol	95-57-8	---	---	< 1	NA	< 1	< 1
Phenol	108-95-2	monitor	monitor	< 1	NA	< 1	< 1
2-Nitrophenol	88-75-5	---	---	< 1	NA	< 1	< 1
2,4-Dimethylphenol	105-67-9	---	---	< 1	NA	< 1	< 1
2,4-Dichlorophenol	120-83-2	---	---	< 1	NA	< 1	< 1
4-Chloro-3-methylphenol	59-50-7	---	---	< 1	NA	< 1	< 1
2,4,6-Trchlorophenol	88-06-2	---	---	< 1	NA	< 1	< 1
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 1	NA	< 1	< 1
1,3-Dichlorobenzene	541-73-1	---	---	< 1	NA	< 1	< 1
1,4-Dichlorobenzene	106-46-7	---	---	< 1	NA	< 1	< 1
1,2-Dichlorobenzene	95-50-1	---	---	< 1	NA	< 1	< 1
Hexachloroethane	67-72-1	---	---	< 5	NA	< 5	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 1	NA	< 1	< 1
Nitrobenzene	98-95-3	---	---	< 1	NA	< 1	< 1
Isophorone	78-59-1	---	---	< 1	NA	< 1	< 1
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 1	NA	< 1	< 1
1,2,4-Trchlorobenzene	120-82-1	---	---	< 1	NA	< 1	< 1
Hexachlorobutadiene	87-68-3	---	---	< 1	NA	< 1	< 1
Hexachlorocyclopentadiene	77-47-4	---	---	< 15	NA	< 15	< 15
2-Chloronaphthalene	91-58-7	---	---	< 1	NA	< 1	< 1
Dimethylphthalate	131-11-3	monitor	monitor	< 5	NA	< 5	< 5
2-methylphenol	95-48-7	---	---	< 1	NA	< 1	< 1
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 1	NA	< 1	< 1
4-methylphenol (total)	106-44-5	monitor	140	< 1	NA	< 1	< 1
Dibenzofuran	132-64-9	---	---	< 1	NA	< 1	< 1
3-Nitroaniline	99-09-2	---	---	< 1	NA	< 1	< 1
4-Nitroaniline	100-01-6	---	---	< 1	NA	< 1	< 1
2,4-Dinitrophenol	51-28-5	---	---	< 30	NA	< 30	< 30
4-Nitrophenol	100-02-7	---	---	< 30	NA	< 30	< 30
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 15	NA	< 15	< 15
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	NA	< 5	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 1	NA	< 1	< 1
2,4-Dinitrotoluene	121-14-2	---	---	< 5	NA	< 5	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 1	NA	< 1	< 1
Diethylphthalate	84-66-2	monitor	2600	< 5	NA	< 5	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 1	NA	< 1	< 1
4-Bromophenyl-phenylether	101-55-3	---	---	< 1	NA	< 1	< 1
Hexachlorobenzene	118-74-1	---	---	< 0.5	NA	< 0.5	< 0.5
di-n-butylphthalate	84-74-2	monitor	350	< 5	NA	< 5	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	NA	< 5	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	NA	< 5	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	NA	< 5	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	NA	< 5	< 5
Carbazole	86-74-8	---	---	< 1	NA	< 1	< 1

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		February-14	February-14	March-14	April-14
		30 Day Avg	Daily Max	2/11/2014	2/25/2014	3/18/2014	4/9/2014
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 0.5	NA	< 0.5	< 0.5
Acenaphthylene	208-96-8	---	---	< 0.5	NA	< 0.5	< 0.5
Anthracene	120-12-7	---	---	< 0.5	NA	< 0.5	< 0.5
Fluorene	86-73-7	---	---	< 0.5	NA	< 0.5	< 0.5
Phenanthrene	85-01-8	---	---	< 0.5	NA	< 0.5	< 0.5
Acenaphthene	83-32-9	monitor	67	< 0.5	NA	< 0.5	< 0.5
Benzo (a) pyrene	50-32-8	---	---	< 0.5	NA	< 0.5	< 0.5
Chrysene	218-01-9	---	---	< 0.5	NA	< 0.5	< 0.5
Fluoranthene	206-44-0	66	200	< 0.5	NA	< 0.5	< 0.5
Pyrene	129-00-0	---	---	< 0.5	NA	< 0.5	< 0.5
Benzo (a) anthracene	56-55-3	---	---	< 0.5	NA	< 0.5	< 0.5
Benzo (k) flouranthene	207-08-9	---	---	< 0.5	NA	< 0.5	< 0.5
Benzo (g,h,i) perylene	191-24-2	---	---	< 0.5	NA	< 0.5	< 0.5
Dibenz (a,h) anthracene	53-70-3	---	---	< 0.5	NA	< 0.5	< 0.5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 0.5	NA	< 0.5	< 0.5
Benzo (b) flouranthene	205-99-2	---	---	< 0.5	NA	< 0.5	< 0.5
Total PAHs		0.376	monitor	0	0	0	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 5	NA	< 5	< 1
Vinyl Chloride	75-01-4	---	---	< 5	NA	< 5	< 1
Bromomethane	74-83-9	---	---	< 5	NA	< 5	< 1
Chloroethane	75-00-3	---	---	< 5	NA	< 5	< 1
1,1-Dichloroethene	75-35-4	---	---	< 5	NA	< 5	< 1
Methylene Chloride	75-09-2	---	---	< 5	NA	< 5	< 3
Trans-1,2-Dichloroethene	156-60-5	---	---	< 5	NA	< 5	< 1
1,1-Dichloroethane	75-34-3	---	---	< 5	NA	< 5	< 1
cis-1,2-Dichloroethene	156-59-2	---	---	< 5	NA	< 5	< 1
Chloroform	67-66-3	---	---	< 5	NA	< 5	< 1
1,1,1-Trichloroethane	71-55-6	---	---	< 5	NA	< 5	< 1
Carbon Tetrachloride	56-23-5	---	---	< 5	NA	< 5	< 1
Benzene	71-43-2	57	134	< 5	NA	< 5	< 1
1,2-Dichloroethane	107-06-2	180	574	< 5	NA	< 5	< 1
Trichloroethene	79-01-6	---	---	< 5	NA	< 5	< 1
1,2-Dichloropropane	78-87-5	---	---	< 5	NA	< 5	< 1
Bromodichloromethane	75-27-4	---	---	< 5	NA	< 5	< 1
Toluene	108-88-3	28	74	< 5	NA	< 5	< 1
1,1,1-Trichloroethane	79-00-5	---	---	< 5	NA	< 5	< 1
Tetrachloroethene	127-18-4	52	164	< 5	NA	< 5	< 1
Dibromochloromethane	124-48-1	---	---	< 5	NA	< 5	< 1
Chlorobenzene	108-90-7	---	---	< 5	NA	< 5	< 1
Ethylbenzene	100-41-4	142	380	< 5	NA	< 5	< 1
Styrene	100-42-5	monitor	1300	< 5	NA	< 5	< 5
Bromoform	75-25-2	---	---	< 5	NA	< 5	< 4
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 5	NA	< 5	< 1
Acetone (total)	67-64-1	monitor	550	< 20	NA	< 20	< 20
Carbon Disulfide	75-15-0	---	---	< 5	NA	< 5	< 5
2-Butanone	78-93-3	---	---	< 10	NA	< 10	< 10
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 5	NA	< 5	< 1
cis-1,3-Dichloropropene	10061-01-5	---	---	< 5	NA	< 5	< 1
4-Methyl-2-pentanone	108-10-1	---	---	< 10	NA	< 10	< 10
2-Hexanone	591-78-6	---	---	< 10	NA	< 10	< 10
Total Xylene	1330-20-7	---	---	< 5	NA	< 5	< 1

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit Discharge Limits		January-14	February-14	February-14	March-14
		30 Day Avg.	Daily Max	1/23/2014	2/11/2014	2/25/2014	3/18/2014
Metals (mg/L)							
Mercury	7439-97-6	0 000013	0 0011	< 0 0002	< 0 0002	0 000065 J	< 0 0002
Antimony	7440-36-0	monitor	monitor	< 0 02	< 0 02	NA	< 0 02
Chromium	7440-47-3	0 119	2.6	< 0 015	< 0 015	< 0 015	< 0 015
Copper	7440-50-8	monitor	0 027	0 0154	0 0144	0 0148	0 0145
Lead	7439-92-1	0 121	0 23	< 0 015	< 0 015	< 0 015	< 0 015
Nickel	7440-02-0	0.24	2 3	0 0077 J	0 0072 J	0 008 J	0 0094 J
Zinc	7440-66-6	monitor	0 17	0 107	0 102	0 728	0 132
Arsenic	7440-38-2	0 122	0 36	< 0 02	< 0 02	< 0 02	< 0 02
Beryllium	7440-41-7	0.00142	1	< 0 005	< 0 005	< 0 005	< 0 005
Cadmium	7440-43-9	monitor	0.0089	< 0 005	< 0 005	< 0 005	< 0 005
Silver	7440-22-4	monitor	0.0034	< 0 005	< 0 005	< 0 005	< 0 005
Cyanide (free)	57-12-5	monitor	0 046	< 0 01	< 0 01	< 0 01	< 0 01
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	7 9	7 6	NA	7 7
TSS	TSS	30	45	< 3	< 3	NA	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	7 5	2 3	3 2	3 5
Oil & Grease (total)	O&G	10	10	2 3 J	< 5	NA	1 5 J
BOD	BOD	monitor	monitor	< 2 8	< 3	NA	< 2
Pesticides (ug/L)							
Endrn Ketone	53494-70-5	---	---	< 0 016	< 0 016	NA	< 0 016
Alpha Chlordane	5103-71-9	---	---	< 0 0082	< 0 0081	NA	< 0 0082
Gamma Chlordane	5103-74-2	---	---	< 0 016	< 0 016	NA	< 0 016
Alpha BHC	319-84-6	---	---	< 0 0082	< 0 0081	NA	< 0 0082
Beta BHC	319-85-7	---	---	< 0 0082	< 0 0081	NA	< 0 0082
Gamma BHC-Lindane	58-89-9	---	---	< 0 0082	< 0 0081	NA	< 0 0082
Delta BHC	319-86-8	---	---	< 0 0082	< 0 0081	NA	< 0 0082
Heptachlor	76-44-8	0 00331	monitor	< 0 0082	< 0 0081	NA	< 0 0082
Aldrn	309-00-2	0 000884	monitor	< 0 0082	< 0 0081	NA	< 0 0082
Heptachlor Epoxide	1024-57-3	---	---	< 0 0082	< 0 0081	NA	< 0 0082
p,p-DDE	72-55-9	---	---	< 0 016	< 0 016	NA	< 0 016
p,p-DDD	72-54-8	---	---	< 0 016	< 0 016	NA	< 0 016
p,p-DDT	50-29-3	0 000227	monitor	< 0 016	< 0 016	NA	< 0 016
Dieldrn	60-57-1	---	---	< 0 016	< 0 016	NA	< 0 016
Endrn	72-20-8	---	---	< 0 016	< 0 016	NA	< 0 016
Toxaphene	8001-35-2	---	---	< 0 82	< 0 81	NA	< 0 82
Endosulfan II	33213-65-9	---	---	< 0 016	< 0 016	NA	< 0 016
Endosulfan I	959-98-8	---	---	< 0 0082	< 0 0081	NA	< 0 0082
Endosulfan Sulfate	1031-07-8	---	---	< 0 016	< 0 016	NA	< 0 016
Endrn Aldehyde	7421-93-4	---	---	< 0 082	< 0 081	NA	< 0 082
Methoxychlor	72-43-5	---	---	< 0 082	< 0 081	NA	< 0 082
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0 41	< 0 4	NA	< 0 41
PCB-1221	11104-28-2	---	---	< 0 41	< 0 4	NA	< 0 41
PCB-1232	11141-16-5	---	---	< 0 41	< 0 4	NA	< 0 41
PCB-1242	53469-21-9	---	---	< 0 41	< 0 4	NA	< 0 41
PCB-1248	12672-29-6	---	---	< 0 41	< 0 4	NA	< 0 41
PCB-1254	11097-69-1	---	---	< 0 41	< 0 4	NA	< 0 41
PCB-1260	11096-82-5	---	---	< 0 41	< 0 4	NA	< 0 41
TOTAL PCBs		0.000967	monitor	0	0	NA	0

Attachment A

2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit		January-14 1/23/2014	February-14 2/11/2014	February-14 2/25/2014	March-14 3/18/2014
		Discharge Limits					
		30 Day Avg.	Daily Max.				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 1	< 1	NA	< 1
2-Methylnaphthalene	91-57-6	---	---	< 0.5	< 0.5	NA	< 0.5
2-Nitroaniline	88-74-4	---	---	< 1	< 1	NA	< 1
2,4,5-Trichlorophenol	95-95-4	---	---	< 1	< 1	NA	< 1
2-Chlorophenol	95-57-8	---	---	< 1	< 1	NA	< 1
Phenol	108-95-2	monitor	monitor	< 1	< 1	NA	< 1
2-Nitrophenol	88-75-5	---	---	< 1	< 1	NA	< 1
2,4-Dimethylphenol	105-67-9	---	---	< 1	< 1	NA	< 1
2,4-Dichlorophenol	120-83-2	---	---	< 1	< 1	NA	< 1
4-Chloro-3-methylphenol	59-50-7	---	---	< 1	< 1	NA	< 1
2,4,6-Trichlorophenol	88-06-2	---	---	< 1	< 1	NA	< 1
Bis(2-chloroethyl) ether	111-44-4	monitor	monitor	< 1	< 1	NA	< 1
1,3-Dichlorobenzene	541-73-1	---	---	< 1	< 1	NA	< 1
1,4-Dichlorobenzene	106-46-7	---	---	< 1	< 1	NA	< 1
1,2-Dichlorobenzene	95-50-1	---	---	< 1	< 1	NA	< 1
Hexachloroethane	67-72-1	---	---	< 5	< 5	NA	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 1	< 1	NA	< 1
Nitrobenzene	98-95-3	---	---	< 1	< 1	NA	< 1
Isophorone	78-59-1	---	---	< 1	< 1	NA	< 1
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 1	< 1	NA	< 1
1,2,4-Trichlorobenzene	120-82-1	---	---	< 1	< 1	NA	< 1
Hexachlorobutadiene	87-68-3	---	---	< 1	< 1	NA	< 1
Hexachlorocyclopentadiene	77-47-4	---	---	< 15	< 15	NA	< 15
2-Chloronaphthalene	91-58-7	---	---	< 1	< 1	NA	< 1
Dimethylphthalate	131-11-3	monitor	monitor	< 5	< 5	NA	< 5
2-methylphenol	95-48-7	---	---	< 1	< 1	NA	< 1
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 1	< 1	NA	< 1
4-methylphenol (total)	106-44-5	monitor	140	< 1	< 1	NA	< 1
Dibenzofuran	132-64-9	---	---	< 1	< 1	NA	< 1
3-Nitroaniline	99-09-2	---	---	< 1	< 1	NA	< 1
4-Nitroaniline	100-01-6	---	---	< 1	< 1	NA	< 1
2,4-Dinitrophenol	51-28-5	---	---	< 30	< 30	NA	< 30
4-Nitrophenol	100-02-7	---	---	< 30	< 30	NA	< 30
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 15	< 15	NA	< 15
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	< 5	NA	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 1	< 1	NA	< 1
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5	NA	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 1	< 1	NA	< 1
Diethylphthalate	84-66-2	monitor	2600	< 5	< 5	NA	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 1	< 1	NA	< 1
4-Bromophenyl-phenylether	101-55-3	---	---	< 1	< 1	NA	< 1
Hexachlorobenzene	118-74-1	---	---	< 0.5	< 0.5	NA	< 0.5
di-n-butylphthalate	84-74-2	monitor	350	< 5	< 5	NA	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5	NA	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	< 5	NA	< 5
Bis(2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5	NA	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5	NA	< 5
Carbazole	86-74-8	---	---	< 1	< 1	NA	< 1

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit Discharge Limits		January-14	February-14	February-14	March-14
		30 Day Avg.	Daily Max.	1/23/2014	2/11/2014	2/25/2014	3/18/2014
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 0.5	< 0.5	NA	< 0.5
Acenaphthylene	208-96-8	---	---	< 0.5	< 0.5	NA	< 0.5
Anthracene	120-12-7	---	---	< 0.5	< 0.5	NA	< 0.5
Fluorene	86-73-7	---	---	< 0.5	< 0.5	NA	< 0.5
Phenanthrene	85-01-8	---	---	< 0.5	< 0.5	NA	< 0.5
Acenaphthene	83-32-9	monitor	67	< 0.5	< 0.5	NA	< 0.5
Benzo (a) pyrene	50-32-8	---	---	< 0.5	< 0.5	NA	< 0.5
Chrysene	218-01-9	---	---	< 0.5	< 0.5	NA	< 0.5
Fluoranthene	206-44-0	66	200	< 0.5	< 0.5	NA	< 0.5
Pyrene	129-00-0	---	---	< 0.5	< 0.5	NA	< 0.5
Benzo (a) anthracene	56-55-3	---	---	< 0.5	< 0.5	NA	< 0.5
Benzo (k) flouranthene	207-08-9	---	---	< 0.5	< 0.5	NA	< 0.5
Benzo (g,h,i) perylene	191-24-2	---	---	< 0.5	< 0.5	NA	< 0.5
Dibenz (a,h) anthracene	53-70-3	---	---	< 0.5	< 0.5	NA	< 0.5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 0.5	< 0.5	NA	< 0.5
Benzo (b) flouranthene	205-99-2	---	---	< 0.5	< 0.5	NA	< 0.5
Total PAHs		0.376	monitor	0	0	0	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 5	< 5	NA	< 5
Vinyl Chloride	75-01-4	---	---	< 5	< 5	NA	< 5
Bromomethane	74-83-9	---	---	< 5	< 5	NA	< 5
Chloroethane	75-00-3	---	---	< 5	< 5	NA	< 5
1,1-Dichloroethene	75-35-4	---	---	< 5	< 5	NA	< 5
Methylene Chloride	75-09-2	---	---	< 5	< 5	NA	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 5	< 5	NA	< 5
1,1-Dichloroethane	75-34-3	---	---	< 5	< 5	NA	< 5
cis-1,2-Dichloroethene	156-59-2	---	---	< 5	< 5	NA	< 5
Chloroform	67-66-3	---	---	< 5	< 5	NA	< 5
1,1,1-Trichloroethane	71-55-6	---	---	< 5	< 5	NA	< 5
Carbon Tetrachloride	56-23-5	---	---	< 5	< 5	NA	< 5
Benzene	71-43-2	57	134	< 5	< 5	NA	< 5
1,2-Dichloroethane	107-06-2	180	574	< 5	< 5	NA	< 5
Trichloroethene	79-01-6	---	---	< 5	< 5	NA	< 5
1,2-Dichloropropane	78-87-5	---	---	< 5	< 5	NA	< 5
Bromodichloromethane	75-27-4	---	---	< 5	< 5	NA	< 5
Toluene	108-88-3	28	74	< 5	< 5	NA	< 5
1,1,2-Trichloroethane	79-00-5	---	---	< 5	< 5	NA	< 5
Tetrachloroethene	127-18-4	52	164	< 5	< 5	NA	< 5
Dibromochloromethane	124-48-1	---	---	< 5	< 5	NA	< 5
Chlorobenzene	108-90-7	---	---	< 5	< 5	NA	< 5
Ethylbenzene	100-41-4	142	380	< 5	< 5	NA	< 5
Styrene	100-42-5	monitor	1300	< 5	< 5	NA	< 5
Bromoform	75-25-2	---	---	< 5	< 5	NA	< 5
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 5	< 5	NA	< 5
Acetone (total)	67-64-1	monitor	550	< 20	< 20	NA	< 20
Carbon Disulfide	75-15-0	---	---	< 5	< 5	NA	< 5
2-Butanone	78-93-3	---	---	< 10	< 10	NA	< 10
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 5	< 5	NA	< 5
cis-1,3-Dichloropropene	10061-01-5	---	---	< 5	< 5	NA	< 5
4-Methyl-2-pentanone	108-10-1	---	---	< 10	< 10	NA	< 10
2-Hexanone	591-78-6	---	---	< 10	< 10	NA	< 10
Total Xylene	1330-20-7	---	---	< 5	< 5	NA	< 5

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		December-13	January-14	February-14	February-14
		30 Day Avg.	Daily Max	12/18/2013	1/23/2014	2/11/2014	2/25/2014
Metals (mg/L)							
Mercury	7439-97-6	0 000013	0.0011	< 0 0002	< 0 0002	< 0 0002	0 000065 J
Antimony	7440-36-0	monitor	monitor	< 0 02	< 0 02	< 0 02	NA
Chromium	7440-47-3	0 119	2.6	< 0 015	< 0 015	< 0 015	< 0 015
Copper	7440-50-8	monitor	0 027	0 0145	0 0154	0 0144	0 0148
Lead	7439-92-1	0.121	0 23	< 0 015	< 0 015	< 0 015	< 0 015
Nickel	7440-02-0	0 24	2.3	0 0064 J	0 0077 J	0 0072 J	0 008 J
Zinc	7440-66-6	monitor	0 17	0 0629	0 107	0 102	0 728
Arsenic	7440-38-2	0 122	0 36	< 0 02	< 0 02	< 0 02	< 0 02
Beryllium	7440-41-7	0.00142	1	< 0 005	< 0 005	< 0 005	< 0 005
Cadmium	7440-43-9	monitor	0 0089	< 0 005	< 0 005	< 0 005	< 0 005
Silver	7440-22-4	monitor	0 0034	< 0 005	< 0 005	< 0 005	< 0 005
Cyanide (free)	57-12-5	monitor	0.046	< 0 01	< 0 01	< 0 01	< 0 01
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	7 8	7 9	7 6	NA
TSS	TSS	30	45	< 3	< 3	< 3	NA
Ammonia Nitrogen	7664-41-7	monitor	monitor	3 7	7 5	2 3	3 2
Oil & Grease (total)	O&G	10	10	1 6 J	2 3 J	< 5	NA
BOD	BOD	monitor	monitor	< 3 3	< 2 8	< 3	NA
Pesticides (ug/L)							
Endnn Ketone	53494-70-5	---	---	< 0 016	< 0 016	< 0 016	NA
Alpha Chlordane	5103-71-9	---	---	< 0 008	< 0 0082	< 0 0081	NA
Gamma Chlordane	5103-74-2	---	---	< 0 016	< 0 016	< 0 016	NA
Alpha BHC	319-84-6	---	---	< 0 008	< 0 0082	< 0 0081	NA
Beta BHC	319-85-7	---	---	< 0 008	< 0 0082	< 0 0081	NA
Gamma BHC-Lindane	58-89-9	---	---	< 0 008	< 0 0082	< 0 0081	NA
Delta BHC	319-86-8	---	---	< 0 008	< 0 0082	< 0 0081	NA
Heptachlor	76-44-8	0 00331	monitor	< 0 008	< 0 0082	< 0 0081	NA
Aldnn	309-00-2	0 000884	monitor	< 0 008	< 0 0082	< 0 0081	NA
Heptachlor Epoxide	1024-57-3	---	---	< 0 008	< 0 0082	< 0 0081	NA
p,p-DDE	72-55-9	---	---	< 0 016	< 0 016	< 0 016	NA
p,p-DDD	72-54-8	---	---	< 0 016	< 0 016	< 0 016	NA
p,p-DDT	50-29-3	0.000227	monitor	< 0 016	< 0 016	< 0 016	NA
Dieldnn	60-57-1	---	---	< 0 016	< 0 016	< 0 016	NA
Endnn	72-20-8	---	---	< 0 016	< 0 016	< 0 016	NA
Toxaphene	8001-35-2	---	---	< 0 8	< 0 82	< 0 81	NA
Endosulfan II	33213-65-9	---	---	< 0 016	< 0 016	< 0 016	NA
Endosulfan I	959-98-8	---	---	< 0 008	< 0 0082	< 0 0081	NA
Endosulfan Sulfate	1031-07-8	---	---	< 0 016	< 0 016	< 0 016	NA
Endnn Aldehyde	7421-93-4	---	---	< 0 08	< 0 082	< 0 081	NA
Methoxychlor	72-43-5	---	---	< 0 08	< 0 082	< 0 081	NA
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0 4	< 0 41	< 0 4	NA
PCB-1221	11104-28-2	---	---	< 0 4	< 0 41	< 0 4	NA
PCB-1232	11141-16-5	---	---	< 0 4	< 0 41	< 0 4	NA
PCB-1242	53469-21-9	---	---	< 0 4	< 0 41	< 0 4	NA
PCB-1248	12672-29-6	---	---	< 0 4	< 0 41	< 0 4	NA
PCB-1254	11097-69-1	---	---	< 0 4	< 0 41	< 0 4	NA
PCB-1260	11096-82-5	---	---	< 0 4	< 0 41	< 0 4	NA
TOTAL PCBs		0 000967	monitor	0	0	0	NA

**Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		December-13 12/18/2013	January-14 1/23/2014	February-14 2/11/2014	February-14 2/25/2014
		Discharge Limits					
		30 Day Avg	Daily Max				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 1	< 1	< 1	NA
2-Methylnaphthalene	91-57-6	---	---	< 0.5	< 0.5	< 0.5	NA
2-Nitroaniline	88-74-4	---	---	< 1	< 1	< 1	NA
2,4,5-Trichlorophenol	95-95-4	---	---	< 1	< 1	< 1	NA
2-Chlorophenol	95-57-8	---	---	< 1	< 1	< 1	NA
Phenol	108-95-2	monitor	monitor	< 1	< 1	< 1	NA
2-Nitrophenol	88-75-5	---	---	< 1	< 1	< 1	NA
2,4-Dimethylphenol	105-67-9	---	---	< 1	< 1	< 1	NA
2,4-Dichlorophenol	120-83-2	---	---	< 1	< 1	< 1	NA
4-Chloro-3-methylphenol	59-50-7	---	---	< 1	< 1	< 1	NA
2,4,6-Trichlorophenol	88-06-2	---	---	< 1	< 1	< 1	NA
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 1	< 1	< 1	NA
1,3-Dichlorobenzene	541-73-1	---	---	< 1	< 1	< 1	NA
1,4-Dichlorobenzene	106-46-7	---	---	< 1	< 1	< 1	NA
1,2-Dichlorobenzene	95-50-1	---	---	< 1	< 1	< 1	NA
Hexachloroethane	67-72-1	---	---	< 5	< 5	< 5	NA
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 1	< 1	< 1	NA
Nitrobenzene	98-95-3	---	---	< 1	< 1	< 1	NA
Isophorone	78-59-1	---	---	< 1	< 1	< 1	NA
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 1	< 1	< 1	NA
1,2,4-Trichlorobenzene	120-82-1	---	---	< 1	< 1	< 1	NA
Hexachlorobutadiene	87-68-3	---	---	< 1	< 1	< 1	NA
Hexachlorocyclopentadiene	77-47-4	---	---	< 15	< 15	< 15	NA
2-Chloronaphthalene	91-58-7	---	---	< 1	< 1	< 1	NA
Dimethylphthalate	131-11-3	monitor	monitor	< 5	< 5	< 5	NA
2-methylphenol	95-48-7	---	---	< 1	< 1	< 1	NA
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 1	< 1	< 1	NA
4-methylphenol (total)	106-44-5	monitor	140	< 1	< 1	< 1	NA
Dibenzofuran	132-64-9	---	---	< 1	< 1	< 1	NA
3-Nitroaniline	99-09-2	---	---	< 1	< 1	< 1	NA
4-Nitroaniline	100-01-6	---	---	< 1	< 1	< 1	NA
2,4-Dinitrophenol	51-28-5	---	---	< 30	< 30	< 30	NA
4-Nitrophenol	100-02-7	---	---	< 30	< 30	< 30	NA
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 15	< 15	< 15	NA
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	< 5	< 5	NA
2,6-Dinitrotoluene	606-20-2	---	---	< 1	< 1	< 1	NA
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5	< 5	NA
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 1	< 1	< 1	NA
Diethylphthalate	84-66-2	monitor	2600	< 5	< 5	< 5	NA
N-nitrosodiphenylamine	86-30-6	---	---	< 1	< 1	< 1	NA
4-Bromophenyl-phenylether	101-55-3	---	---	< 1	< 1	< 1	NA
Hexachlorobenzene	118-74-1	---	---	< 0.5	< 0.5	< 0.5	NA
di-n-butylphthalate	84-74-2	monitor	350	< 5	< 5	< 5	NA
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5	< 5	NA
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	< 5	< 5	NA
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5	< 5	NA
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5	< 5	NA
Carbazole	86-74-8	---	---	< 1	< 1	< 1	NA

Attachment A 2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit Discharge Limits		December-13	January-14	February-14	February-14
		30 Day Avg	Daily Max	12/18/2013	1/23/2014	2/11/2014	2/25/2014
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 0.5	< 0.5	< 0.5	NA
Acenaphthylene	208-96-8	---	---	< 0.5	< 0.5	< 0.5	NA
Anthracene	120-12-7	---	---	< 0.5	< 0.5	< 0.5	NA
Fluorene	86-73-7	---	---	< 0.5	< 0.5	< 0.5	NA
Phenanthrene	85-01-8	---	---	< 0.5	< 0.5	< 0.5	NA
Acenaphthene	83-32-9	monitor	67	< 0.5	< 0.5	< 0.5	NA
Benzo (a) pyrene	50-32-8	---	---	< 0.5	< 0.5	< 0.5	NA
Chrysene	218-01-9	---	---	< 0.5	< 0.5	< 0.5	NA
Fluoranthene	206-44-0	66	200	< 0.5	< 0.5	< 0.5	NA
Pyrene	129-00-0	---	---	< 0.5	< 0.5	< 0.5	NA
Benzo (a) anthracene	56-55-3	---	---	< 0.5	< 0.5	< 0.5	NA
Benzo (k) flouranthene	207-08-9	---	---	< 0.5	< 0.5	< 0.5	NA
Benzo (g,h,i) perylene	191-24-2	---	---	< 0.5	< 0.5	< 0.5	NA
Dibenz (a,h) anthracene	53-70-3	---	---	< 0.5	< 0.5	< 0.5	NA
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 0.5	< 0.5	< 0.5	NA
Benzo (b) flouranthene	205-99-2	---	---	< 0.5	< 0.5	< 0.5	NA
Total PAHs		0.376	monitor	0	0	0	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 5	< 5	< 5	NA
Vinyl Chloride	75-01-4	---	---	< 5	< 5	< 5	NA
Bromomethane	74-83-9	---	---	< 5	< 5	< 5	NA
Chloroethane	75-00-3	---	---	< 5	< 5	< 5	NA
1,1-Dichloroethene	75-35-4	---	---	< 5	< 5	< 5	NA
Methylene Chloride	75-09-2	---	---	< 5	< 5	< 5	NA
Trans-1,2-Dichloroethene	156-60-5	---	---	< 5	< 5	< 5	NA
1,1-Dichloroethane	75-34-3	---	---	< 5	< 5	< 5	NA
cis-1,2-Dichloroethene	156-59-2	---	---	< 5	< 5	< 5	NA
Chloroform	67-66-3	---	---	< 5	< 5	< 5	NA
1,1,1-Trichloroethane	71-55-6	---	---	< 5	< 5	< 5	NA
Carbon Tetrachloride	56-23-5	---	---	< 5	< 5	< 5	NA
Benzene	71-43-2	57	134	< 5	< 5	< 5	NA
1,2-Dichloroethane	107-06-2	180	574	< 5	< 5	< 5	NA
Trichloroethene	79-01-6	---	---	< 5	< 5	< 5	NA
1,2-Dichloropropane	78-87-5	---	---	< 5	< 5	< 5	NA
Bromodichloromethane	75-27-4	---	---	< 5	< 5	< 5	NA
Toluene	108-88-3	28	74	< 5	< 5	< 5	NA
1,1,2-Trichloroethane	79-00-5	---	---	< 5	< 5	< 5	NA
Tetrachloroethene	127-18-4	52	164	< 5	< 5	< 5	NA
Dibromochloromethane	124-48-1	---	---	< 5	< 5	< 5	NA
Chlorobenzene	108-90-7	---	---	< 5	< 5	< 5	NA
Ethylbenzene	100-41-4	142	380	< 5	< 5	< 5	NA
Styrene	100-42-5	monitor	1300	< 5	< 5	< 5	NA
Bromoform	75-25-2	---	---	< 5	< 5	< 5	NA
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 5	< 5	< 5	NA
Acetone (total)	67-64-1	monitor	550	< 20	< 20	< 20	NA
Carbon Disulfide	75-15-0	---	---	< 5	< 5	< 5	NA
2-Butanone	78-93-3	---	---	< 10	< 10	< 10	NA
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 5	< 5	< 5	NA
cis-1,3-Dichloropropene	10061-01-5	---	---	< 5	< 5	< 5	NA
4-Methyl-2-pentanone	108-10-1	---	---	< 10	< 10	< 10	NA
2-Hexanone	591-78-6	---	---	< 10	< 10	< 10	NA
Total Xylene	1330-20-7	---	---	< 5	< 5	< 5	NA

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed

Attachment A

2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit		October-13 10/2/2013	November-13 11/1/2013	December-13 12/18/2013	January-14 1/23/2014
		Discharge Limits					
		30 Day Avg	Daily Max				
Metals (mg/L)							
Mercury	7439-97-6	0.000013	0.0011	< 0.0002	NA	< 0.0002	< 0.0002
Antimony	7440-36-0	monitor	monitor	< 0.02	NA	< 0.02	< 0.02
Chromium	7440-47-3	0.119	2.6	< 0.015	NA	< 0.015	< 0.015
Copper	7440-50-8	monitor	0.027	0.0203	NA	0.0145	0.0154
Lead	7439-92-1	0.121	0.23	< 0.015	NA	< 0.015	< 0.015
Nickel	7440-02-0	0.24	2.3	0.0077	J	0.0064	J
Zinc	7440-66-6	monitor	0.17	0.0626	NA	0.0629	0.107
Arsenic	7440-38-2	0.122	0.36	< 0.02	NA	< 0.02	< 0.02
Beryllium	7440-41-7	0.00142	1	< 0.005	NA	< 0.005	< 0.005
Cadmium	7440-43-9	monitor	0.0089	< 0.005	NA	< 0.005	< 0.005
Silver	7440-22-4	monitor	0.0034	< 0.005	NA	< 0.005	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	< 0.01	NA	< 0.01	< 0.01
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	7.5	NA	7.8	7.9
TSS	TSS	30	45	< 3	NA	< 3	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	2.9	NA	3.7	7.5
Oil & Grease (total)	O&G	10	10	< 5	NA	1.6	J
BOD	BOD	monitor	monitor	< 3.4	NA	< 3.3	< 2.8
Pesticides (ug/L)							
Endnn Ketone	53494-70-5	---	---	< 0.016	NA	< 0.016	< 0.016
Alpha Chlordane	5103-71-9	---	---	< 0.0081	NA	< 0.008	< 0.0082
Gamma Chlordane	5103-74-2	---	---	< 0.016	NA	< 0.016	< 0.016
Alpha BHC	319-84-6	---	---	< 0.0081	NA	< 0.008	< 0.0082
Beta BHC	319-85-7	---	---	< 0.0081	NA	< 0.008	< 0.0082
Gamma BHC-Lindane	58-89-9	---	---	< 0.0081	NA	< 0.008	< 0.0082
Delta BHC	319-86-8	---	---	< 0.0081	NA	< 0.008	< 0.0082
Heptachlor	76-44-8	0.00331	monitor	< 0.0081	NA	< 0.008	< 0.0082
Aldnn	309-00-2	0.000884	monitor	< 0.0081	NA	< 0.008	< 0.0082
Heptachlor Epoxide	1024-57-3	---	---	< 0.0081	NA	< 0.008	< 0.0082
p,p-DDE	72-55-9	---	---	< 0.016	NA	< 0.016	< 0.016
p,p-DDD	72-54-8	---	---	< 0.016	NA	< 0.016	< 0.016
p,p-DDT	50-29-3	0.000227	monitor	< 0.016	NA	< 0.016	< 0.016
Dieldnn	60-57-1	---	---	< 0.016	NA	< 0.016	< 0.016
Endnn	72-20-8	---	---	< 0.016	NA	< 0.016	< 0.016
Toxaphene	8001-35-2	---	---	< 2.4	NA	< 0.8	< 0.82
Endosulfan II	33213-65-9	---	---	< 0.016	NA	< 0.016	< 0.016
Endosulfan I	959-98-8	---	---	< 0.0081	NA	< 0.008	< 0.0082
Endosulfan Sulfate	1031-07-8	---	---	< 0.016	NA	< 0.016	< 0.016
Endnn Aldehyde	7421-93-4	---	---	< 0.081	NA	< 0.08	< 0.082
Methoxychlor	72-43-5	---	---	< 0.081	NA	< 0.08	< 0.082
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0.4	NA	< 0.4	< 0.41
PCB-1221	11104-28-2	---	---	< 0.4	NA	< 0.4	< 0.41
PCB-1232	11141-16-5	---	---	< 0.4	NA	< 0.4	< 0.41
PCB-1242	53469-21-9	---	---	< 0.4	NA	< 0.4	< 0.41
PCB-1248	12672-29-6	---	---	< 0.4	NA	< 0.4	< 0.41
PCB-1254	11097-69-1	---	---	< 0.4	NA	< 0.4	< 0.41
PCB-1260	11096-82-5	---	---	< 0.4	NA	< 0.4	< 0.41
TOTAL PCBs		0.000967	monitor	0	NA	0	0

Attachment A

2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit		October-13	November-13	December-13	January-14
		Discharge Limits		10/2/2013	11/1/2013	12/18/2013	1/23/2014
		30 Day Avg	Daily Max.				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 1	NA	< 1	< 1
2-Methylnaphthalene	91-57-6	---	---	< 0.5	NA	< 0.5	< 0.5
2-Nitroaniline	88-74-4	---	---	< 1	NA	< 1	< 1
2,4,5-Trchlorophenol	95-95-4	---	---	< 1	NA	< 1	< 1
2-Chlorophenol	95-57-8	---	---	< 1	NA	< 1	< 1
Phenol	108-95-2	monitor	monitor	< 1	NA	< 1	< 1
2-Nitrophenol	88-75-5	---	---	< 1	NA	< 1	< 1
2,4-Dimethylphenol	105-67-9	---	---	< 1	NA	< 1	< 1
2,4-Dichlorophenol	120-83-2	---	---	< 1	NA	< 1	< 1
4-Chloro-3-methylphenol	59-50-7	---	---	< 1	NA	< 1	< 1
2,4,6-Trchlorophenol	88-06-2	---	---	< 1	NA	< 1	< 1
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 1	NA	< 1	< 1
1,3-Dichlorobenzene	541-73-1	---	---	< 1	NA	< 1	< 1
1,4-Dichlorobenzene	106-46-7	---	---	< 1	NA	< 1	< 1
1,2-Dichlorobenzene	95-50-1	---	---	< 1	NA	< 1	< 1
Hexachloroethane	67-72-1	---	---	< 5	NA	< 5	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 1	NA	< 1	< 1
Nitrobenzene	98-95-3	---	---	< 1	NA	< 1	< 1
Isophorone	78-59-1	---	---	< 1	NA	< 1	< 1
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 1	NA	< 1	< 1
1,2,4-Trchlorobenzene	120-82-1	---	---	< 1	NA	< 1	< 1
Hexachlorobutadiene	87-68-3	---	---	< 1	NA	< 1	< 1
Hexachlorocyclopentadiene	77-47-4	---	---	< 15	NA	< 15	< 15
2-Chloronaphthalene	91-58-7	---	---	< 1	NA	< 1	< 1
Dimethylphthalate	131-11-3	monitor	monitor	< 5	NA	< 5	< 5
2-methylphenol	95-48-7	---	---	< 1	NA	< 1	< 1
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 1	NA	< 1	< 1
4-methylphenol (total)	106-44-5	monitor	140	< 1	NA	< 1	< 1
Dibenzofuran	132-64-9	---	---	< 1	NA	< 1	< 1
3-Nitroaniline	99-09-2	---	---	< 1	NA	< 1	< 1
4-Nitroaniline	100-01-6	---	---	< 1	NA	< 1	< 1
2,4-Dinitrophenol	51-28-5	---	---	< 30	NA	< 30	< 30
4-Nitrophenol	100-02-7	---	---	< 30	NA	< 30	< 30
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 15	NA	< 15	< 15
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	NA	< 5	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 1	NA	< 1	< 1
2,4-Dinitrotoluene	121-14-2	---	---	< 5	NA	< 5	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 1	NA	< 1	< 1
Diethylphthalate	84-66-2	monitor	2600	< 5	NA	< 5	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 1	NA	< 1	< 1
4-Bromophenyl-phenylether	101-55-3	---	---	< 1	NA	< 1	< 1
Hexachlorobenzene	118-74-1	---	---	< 0.5	NA	< 0.5	< 0.5
di-n-butylphthalate	84-74-2	monitor	350	< 5	NA	< 5	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	NA	< 5	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	NA	< 5	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	NA	< 5	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	NA	< 5	< 5
Carbazole	86-74-8	---	---	< 1	NA	< 1	< 1

Attachment A

2014 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit		October-13 10/2/2013	November-13 11/1/2013	December-13 12/18/2013	January-14 1/23/2014
		Discharge Limits					
		30 Day Avg	Daily Max				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 0.5	NA	< 0.5	< 0.5
Acenaphthylene	208-96-8	---	---	< 0.5	NA	< 0.5	< 0.5
Anthracene	120-12-7	---	---	< 0.5	NA	< 0.5	< 0.5
Fluorene	86-73-7	---	---	< 0.5	NA	< 0.5	< 0.5
Phenanthrene	85-01-8	---	---	< 0.5	NA	< 0.5	< 0.5
Acenaphthene	83-32-9	monitor	67	< 0.5	NA	< 0.5	< 0.5
Benzo (a) pyrene	50-32-8	---	---	< 0.5	NA	< 0.5	< 0.5
Chrysene	218-01-9	---	---	< 0.5	NA	< 0.5	< 0.5
Fluoranthene	206-44-0	66	200	< 0.5	NA	< 0.5	< 0.5
Pyrene	129-00-0	---	---	< 0.5	NA	< 0.5	< 0.5
Benzo (a) anthracene	56-55-3	---	---	< 0.5	NA	< 0.5	< 0.5
Benzo (k) flouranthene	207-08-9	---	---	< 0.5	NA	< 0.5	< 0.5
Benzo (g,h,i) perylene	191-24-2	---	---	< 0.5	NA	< 0.5	< 0.5
Dibenz (a,h) anthracene	53-70-3	---	---	< 0.5	NA	< 0.5	< 0.5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 0.5	NA	< 0.5	< 0.5
Benzo (b) flouranthene	205-99-2	---	---	< 0.5	NA	< 0.5	< 0.5
Total PAHs		0.376	monitor	0	NA	0	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 5	NA	< 5	< 5
Vinyl Chloride	75-01-4	---	---	< 5	NA	< 5	< 5
Bromomethane	74-83-9	---	---	< 5	NA	< 5	< 5
Chloroethane	75-00-3	---	---	< 5	NA	< 5	< 5
1,1-Dichloroethene	75-35-4	---	---	< 5	NA	< 5	< 5
Methylene Chloride	75-09-2	---	---	< 5	NA	< 5	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 5	NA	< 5	< 5
1,1-Dichloroethane	75-34-3	---	---	< 5	NA	< 5	< 5
cis-1,2-Dichloroethene	156-59-2	---	---	< 5	NA	< 5	< 5
Chloroform	67-66-3	---	---	< 5	NA	< 5	< 5
1,1,1-Trichloroethane	71-55-6	---	---	< 5	NA	< 5	< 5
Carbon Tetrachloride	56-23-5	---	---	< 5	NA	< 5	< 5
Benzene	71-43-2	57	134	< 5	NA	< 5	< 5
1,2-Dichloroethane	107-06-2	180	574	< 5	NA	< 5	< 5
Trichloroethene	79-01-6	---	---	< 5	NA	< 5	< 5
1,2-Dichloropropane	78-87-5	---	---	< 5	NA	< 5	< 5
Bromodichloromethane	75-27-4	---	---	< 5	NA	< 5	< 5
Toluene	108-88-3	28	74	< 5	NA	< 5	< 5
1,1,2-Trichloroethane	79-00-5	---	---	< 5	NA	< 5	< 5
Tetrachloroethene	127-18-4	52	164	< 5	NA	< 5	< 5
Dibromochloromethane	124-48-1	---	---	< 5	NA	< 5	< 5
Chlorobenzene	108-90-7	---	---	< 5	NA	< 5	< 5
Ethylbenzene	100-41-4	142	380	< 5	NA	< 5	< 5
Styrene	100-42-5	monitor	1300	< 5	NA	< 5	< 5
Bromoform	75-25-2	---	---	< 5	NA	< 5	< 5
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 5	NA	< 5	< 5
Acetone (total)	67-64-1	monitor	550	< 20	NA	< 20	< 20
Carbon Disulfide	75-15-0	---	---	< 5	NA	< 5	< 5
2-Butanone	78-93-3	---	---	< 10	NA	< 10	< 10
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 5	NA	< 5	< 5
cis-1,3-Dichloropropene	10061-01-5	---	---	< 5	NA	< 5	< 5
4-Methyl-2-pentanone	108-10-1	---	---	< 10	NA	< 10	< 10
2-Hexanone	591-78-6	---	---	< 10	NA	< 10	< 10
Total Xylene	1330-20-7	---	---	< 5	NA	< 5	< 5

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit					
		Discharge Limits		September-13	October-13	November-13	December-13
		30 Day Avg	Daily Max.	9/1/2013	10/2/2013	11/1/2013	12/16/2013
Metals (mg/L)							
Mercury	7439-97-6	0.000013	0.0011	NA	< 0.0002	NA	< 0.0002
Antimony	7440-36-0	monitor	monitor	NA	< 0.02	NA	< 0.02
Chromium	7440-47-3	0.119	2.6	NA	< 0.015	NA	< 0.015
Copper	7440-50-8	monitor	0.027	NA	0.0203	NA	0.0145
Lead	7439-92-1	0.121	0.23	NA	< 0.015	NA	< 0.015
Nickel	7440-02-0	0.24	2.3	NA	0.0077	NA	0.0064
Zinc	7440-66-6	monitor	0.17	NA	0.0626	NA	0.0629
Arsenic	7440-38-2	0.122	0.36	NA	< 0.02	NA	< 0.02
Beryllium	7440-41-7	0.00142	1	NA	< 0.005	NA	< 0.005
Cadmium	7440-43-9	monitor	0.0089	NA	< 0.005	NA	< 0.005
Silver	7440-22-4	monitor	0.0034	NA	< 0.005	NA	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	NA	< 0.01	NA	< 0.01
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	NA	7.5	NA	7.8
TSS	TSS	30	45	NA	< 3	NA	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	NA	2.9	NA	3.7
Oil & Grease (total)	O&G	10	10	NA	< 5	NA	1.6
BOD	BOD	monitor	monitor	NA	< 3.4	NA	< 3.3
Pesticides (ug/L)							
Endnn Kelone	53494-70-5	---	---	NA	< 0.016	NA	< 0.016
Alpha Chlordane	5103-71-9	---	---	NA	< 0.0081	NA	< 0.008
Gamma Chlordane	5103-74-2	---	---	NA	< 0.016	NA	< 0.016
Alpha BHC	319-84-6	---	---	NA	< 0.0081	NA	< 0.008
Beta BHC	319-85-7	---	---	NA	< 0.0081	NA	< 0.008
Gamma BHC-Lindane	58-89-9	---	---	NA	< 0.0081	NA	< 0.008
Delta BHC	319-86-8	---	---	NA	< 0.0081	NA	< 0.008
Heptachlor	76-44-8	0.00331	monitor	NA	< 0.0081	NA	< 0.008
Aldnn	309-00-2	0.000884	monitor	NA	< 0.0081	NA	< 0.008
Heptachlor Epoxide	1024-57-3	---	---	NA	< 0.0081	NA	< 0.008
p,p-DDE	72-55-9	---	---	NA	< 0.016	NA	< 0.016
p,p-DDD	72-54-8	---	---	NA	< 0.016	NA	< 0.016
p,p-DDT	50-29-3	0.000227	monitor	NA	< 0.016	NA	< 0.016
Dieldnn	60-57-1	---	---	NA	< 0.016	NA	< 0.016
Endnn	72-20-8	---	---	NA	< 0.016	NA	< 0.016
Toxaphene	8001-35-2	---	---	NA	< 2.4	NA	< 0.8
Endosulfan II	33213-65-9	---	---	NA	< 0.016	NA	< 0.016
Endosulfan I	959-98-8	---	---	NA	< 0.0081	NA	< 0.008
Endosulfan Sulfate	1031-07-8	---	---	NA	< 0.016	NA	< 0.016
Endnn Aldehyde	7421-93-4	---	---	NA	< 0.081	NA	< 0.08
Methoxychlor	72-43-5	---	---	NA	< 0.081	NA	< 0.08
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	NA	< 0.4	NA	< 0.4
PCB-1221	11104-28-2	---	---	NA	< 0.4	NA	< 0.4
PCB-1232	11141-16-5	---	---	NA	< 0.4	NA	< 0.4
PCB-1242	53469-21-9	---	---	NA	< 0.4	NA	< 0.4
PCB-1248	12672-29-6	---	---	NA	< 0.4	NA	< 0.4
PCB-1254	11097-69-1	---	---	NA	< 0.4	NA	< 0.4
PCB-1260	11096-82-5	---	---	NA	< 0.4	NA	< 0.4
TOTAL PCBs		0.000967	monitor	NA	0	NA	0

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit		September-13	October-13	November-13	December-13
		Discharge Limits		9/1/2013	10/2/2013	11/1/2013	12/18/2013
		30 Day Avg	Daily Max.				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	NA	< 1	NA	< 1
2-Methylnaphthalene	91-57-6	---	---	NA	< 0.5	NA	< 0.5
2-Nitroaniline	88-74-4	---	---	NA	< 1	NA	< 1
2,4,5-Trichlorophenol	95-95-4	---	---	NA	< 1	NA	< 1
2-Chlorophenol	95-57-8	---	---	NA	< 1	NA	< 1
Phenol	108-95-2	monitor	monitor	NA	< 1	NA	< 1
2-Nitrophenol	88-75-5	---	---	NA	< 1	NA	< 1
2,4-Dimethylphenol	105-67-9	---	---	NA	< 1	NA	< 1
2,4-Dichlorophenol	120-83-2	---	---	NA	< 1	NA	< 1
4-Chloro-3-methylphenol	59-50-7	---	---	NA	< 1	NA	< 1
2,4,6-Trichlorophenol	88-06-2	---	---	NA	< 1	NA	< 1
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	NA	< 1	NA	< 1
1,3-Dichlorobenzene	541-73-1	---	---	NA	< 1	NA	< 1
1,4-Dichlorobenzene	106-46-7	---	---	NA	< 1	NA	< 1
1,2-Dichlorobenzene	95-50-1	---	---	NA	< 1	NA	< 1
Hexachloroethane	67-72-1	---	---	NA	< 5	NA	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	NA	< 1	NA	< 1
Nitrobenzene	98-95-3	---	---	NA	< 1	NA	< 1
Isophorone	78-59-1	---	---	NA	< 1	NA	< 1
Bis(2-Chloroethoxy)methane	111-91-1	---	---	NA	< 1	NA	< 1
1,2,4-Trichlorobenzene	120-82-1	---	---	NA	< 1	NA	< 1
Hexachlorobutadiene	87-68-3	---	---	NA	< 1	NA	< 1
Hexachlorocyclopentadiene	77-47-4	---	---	NA	< 15	NA	< 15
2-Chloronaphthalene	91-58-7	---	---	NA	< 1	NA	< 1
Dimethylphthalate	131-11-3	monitor	monitor	NA	< 5	NA	< 5
2-methylphenol	95-48-7	---	---	NA	< 1	NA	< 1
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	NA	< 1	NA	< 1
4-methylphenol (total)	106-44-5	monitor	140	NA	< 1	NA	< 1
Dibenzofuran	132-64-9	---	---	NA	< 1	NA	< 1
3-Nitroaniline	99-09-2	---	---	NA	< 1	NA	< 1
4-Nitroaniline	100-01-6	---	---	NA	< 1	NA	< 1
2,4-Dinitrophenol	51-28-5	---	---	NA	< 30	NA	< 30
4-Nitrophenol	100-02-7	---	---	NA	< 30	NA	< 30
4,6-Dinitro-2-methylphenol	534-52-1	---	---	NA	< 15	NA	< 15
Pentachlorophenol (total)	87-86-5	monitor	3.5	NA	< 5	NA	< 5
2,6-Dinitrotoluene	606-20-2	---	---	NA	< 1	NA	< 1
2,4-Dinitrotoluene	121-14-2	---	---	NA	< 5	NA	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	NA	< 1	NA	< 1
Diethylphthalate	84-66-2	monitor	2600	NA	< 5	NA	< 5
N-nitrosodiphenylamine	86-30-6	---	---	NA	< 1	NA	< 1
4-Bromophenyl-phenylether	101-55-3	---	---	NA	< 1	NA	< 1
Hexachlorobenzene	118-74-1	---	---	NA	< 0.5	NA	< 0.5
di-n-butylphthalate	84-74-2	monitor	350	NA	< 5	NA	< 5
Butylbenzylphthalate	85-68-7	---	---	NA	< 5	NA	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	NA	< 5	NA	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	NA	< 5	NA	< 5
Di-n-octylphthalate	117-84-0	---	---	NA	< 5	NA	< 5
Carbazole	86-74-8	---	---	NA	< 1	NA	< 1

**Attachment A 2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit					
		Discharge Limits		September-13	October-13	November-13	December-13
		30 Day Avg.	Daily Max	9/1/2013	10/2/2013	11/1/2013	12/18/2013
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	NA	< 0.5	NA	< 0.5
Acenaphthylene	208-96-8	---	---	NA	< 0.5	NA	< 0.5
Anthracene	120-12-7	---	---	NA	< 0.5	NA	< 0.5
Fluorene	86-73-7	---	---	NA	< 0.5	NA	< 0.5
Phenanthrene	85-01-8	---	---	NA	< 0.5	NA	< 0.5
Acenaphthene	83-32-9	monitor	67	NA	< 0.5	NA	< 0.5
Benzo (a) pyrene	50-32-8	---	---	NA	< 0.5	NA	< 0.5
Chrysene	218-01-9	---	---	NA	< 0.5	NA	< 0.5
Fluoranthene	206-44-0	66	200	NA	< 0.5	NA	< 0.5
Pyrene	129-00-0	---	---	NA	< 0.5	NA	< 0.5
Benzo (a) anthracene	56-55-3	---	---	NA	< 0.5	NA	< 0.5
Benzo (k) flouranthene	207-08-9	---	---	NA	< 0.5	NA	< 0.5
Benzo (g,h,i) perylene	191-24-2	---	---	NA	< 0.5	NA	< 0.5
Dibenz (a,h) anthracene	53-70-3	---	---	NA	< 0.5	NA	< 0.5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	NA	< 0.5	NA	< 0.5
Benzo (b) flouranthene	205-99-2	---	---	NA	< 0.5	NA	< 0.5
Total PAHs		0.376	monitor	NA	0	NA	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	NA	< 5	NA	< 5
Vinyl Chloride	75-01-4	---	---	NA	< 5	NA	< 5
Bromomethane	74-83-9	---	---	NA	< 5	NA	< 5
Chloroethane	75-00-3	---	---	NA	< 5	NA	< 5
1,1-Dichloroethene	75-35-4	---	---	NA	< 5	NA	< 5
Methylene Chloride	75-09-2	---	---	NA	< 5	NA	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	NA	< 5	NA	< 5
1,1-Dichloroethane	75-34-3	---	---	NA	< 5	NA	< 5
cis-1,2-Dichloroethene	156-59-2	---	---	NA	< 5	NA	< 5
Chloroform	67-66-3	---	---	NA	< 5	NA	< 5
1,1,1-Trichloroethane	71-55-6	---	---	NA	< 5	NA	< 5
Carbon Tetrachloride	56-23-5	---	---	NA	< 5	NA	< 5
Benzene	71-43-2	57	134	NA	< 5	NA	< 5
1,2-Dichloroethane	107-06-2	180	574	NA	< 5	NA	< 5
Trichloroethene	79-01-6	---	---	NA	< 5	NA	< 5
1,2-Dichloropropane	78-87-5	---	---	NA	< 5	NA	< 5
Bromodichloromethane	75-27-4	---	---	NA	< 5	NA	< 5
Toluene	108-88-3	28	74	NA	< 5	NA	< 5
1,1,2-Trichloroethane	79-00-5	---	---	NA	< 5	NA	< 5
Tetrachloroethene	127-18-4	52	164	NA	< 5	NA	< 5
Dibromochloromethane	124-48-1	---	---	NA	< 5	NA	< 5
Chlorobenzene	108-90-7	---	---	NA	< 5	NA	< 5
Ethylbenzene	100-41-4	142	380	NA	< 5	NA	< 5
Styrene	100-42-5	monitor	1300	NA	< 5	NA	< 5
Bromoform	75-25-2	---	---	NA	< 5	NA	< 5
1,1,2,2-Tetrachloroethane	79-34-5	---	---	NA	< 5	NA	< 5
Acetone (total)	67-64-1	monitor	550	NA	< 20	NA	< 20
Carbon Disulfide	75-15-0	---	---	NA	< 5	NA	< 5
2-Butanone	78-93-3	---	---	NA	< 10	NA	< 10
Trans-1,3-Dichloropropene	10061-02-6	---	---	NA	< 5	NA	< 5
cis-1,3-Dichloropropene	10061-01-5	---	---	NA	< 5	NA	< 5
4-Methyl-2-pentanone	108-10-1	---	---	NA	< 10	NA	< 10
2-Hexanone	591-78-6	---	---	NA	< 10	NA	< 10
Total Xylene	1330-20-7	---	---	NA	< 5	NA	< 5

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed

**Attachment A 2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		September-13	October-13	November-13
		Discharge Limits		9/1/2013	10/2/2013	11/1/2013
		30 Day Avg	Daily Max.			
Metals (mg/L)						
Mercury	7439-97-6	0.000013	0.0011	NA	< 0.0002	NA
Antimony	7440-36-0	monitor	monitor	NA	< 0.02	NA
Chromium	7440-47-3	0.119	2.6	NA	< 0.015	NA
Copper	7440-50-8	monitor	0.027	NA	0.0203	NA
Lead	7439-92-1	0.121	0.23	NA	< 0.015	NA
Nickel	7440-02-0	0.24	2.3	NA	0.0077	NA
Zinc	7440-66-6	monitor	0.17	NA	0.0626	NA
Arsenic	7440-38-2	0.122	0.36	NA	< 0.02	NA
Beryllium	7440-41-7	0.00142	1	NA	< 0.005	NA
Cadmium	7440-43-9	monitor	0.0089	NA	< 0.005	NA
Silver	7440-22-4	monitor	0.0034	NA	< 0.005	NA
Cyanide (free)	57-12-5	monitor	0.046	NA	< 0.01	NA
Conventionals (mg/L)						
pH (Min and Max) (S U)	pH	6.5	9	NA	7.5	NA
TSS	TSS	30	45	NA	< 3	NA
Ammonia Nitrogen	7664-41-7	monitor	monitor	NA	2.9	NA
Oil & Grease (total)	O&G	10	10	NA	< 5	NA
BOD	BOD	monitor	monitor	NA	< 3.4	NA
Pesticides (ug/L)						
Endnn Ketone	53494-70-5	---	---	NA	< 0.016	NA
Alpha Chlordane	5103-71-9	---	---	NA	< 0.0081	NA
Gamma Chlordane	5103-74-2	---	---	NA	< 0.016	NA
Alpha BHC	319-84-6	---	---	NA	< 0.0081	NA
Beta BHC	319-85-7	---	---	NA	< 0.0081	NA
Gamma BHC-Lindane	58-89-9	---	---	NA	< 0.0081	NA
Delta BHC	319-86-8	---	---	NA	< 0.0081	NA
Heptachlor	76-44-8	0.00331	monitor	NA	< 0.0081	NA
Aldnn	309-00-2	0.000884	monitor	NA	< 0.0081	NA
Heptachlor Epoxide	1024-57-3	---	---	NA	< 0.0081	NA
p,p-DDE	72-55-9	---	---	NA	< 0.016	NA
p,p-DDD	72-54-8	---	---	NA	< 0.016	NA
p,p-DDT	50-29-3	0.000227	monitor	NA	< 0.016	NA
Dieldnn	60-57-1	---	---	NA	< 0.016	NA
Endnn	72-20-8	---	---	NA	< 0.016	NA
Toxaphene	8001-35-2	---	---	NA	< 2.4	NA
Endosulfan II	33213-65-9	---	---	NA	< 0.016	NA
Endosulfan I	959-98-8	---	---	NA	< 0.0081	NA
Endosulfan Sulfate	1031-07-8	---	---	NA	< 0.016	NA
Endnn Aldehyde	7421-93-4	---	---	NA	< 0.081	NA
Methoxychlor	72-43-5	---	---	NA	< 0.081	NA
PCBs (ug/L)						
PCB-1016	12674-11-2	---	---	NA	< 0.4	NA
PCB-1221	11104-28-2	---	---	NA	< 0.4	NA
PCB-1232	11141-16-5	---	---	NA	< 0.4	NA
PCB-1242	53469-21-9	---	---	NA	< 0.4	NA
PCB-1248	12672-29-6	---	---	NA	< 0.4	NA
PCB-1254	11097-69-1	---	---	NA	< 0.4	NA
PCB-1260	11096-82-5	---	---	NA	< 0.4	NA
TOTAL PCBs		0.000967	monitor	NA	0	NA

**Attachment A 2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		September-13 9/1/2013	October-13 10/2/2013	November-13 11/1/2013
		Discharge Limits				
		30 Day Avg	Daily Max.			
Semi-VOCs (ug/L)						
4-Chloroaniline	106-47-8	---	---	NA	< 1	NA
2-Methylnaphthalene	91-57-6	---	---	NA	< 0.5	NA
2-Nitroaniline	88-74-4	---	---	NA	< 1	NA
2,4,5-Trichlorophenol	95-95-4	---	---	NA	< 1	NA
2-Chlorophenol	95-57-8	---	---	NA	< 1	NA
Phenol	108-95-2	monitor	monitor	NA	< 1	NA
2-Nitrophenol	88-75-5	---	---	NA	< 1	NA
2,4-Dimethylphenol	105-67-9	---	---	NA	< 1	NA
2,4-Dichlorophenol	120-83-2	---	---	NA	< 1	NA
4-Chloro-3-methylphenol	59-50-7	---	---	NA	< 1	NA
2,4,6-Trichlorophenol	88-06-2	---	---	NA	< 1	NA
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	NA	< 1	NA
1,3-Dichlorobenzene	541-73-1	---	---	NA	< 1	NA
1,4-Dichlorobenzene	106-46-7	---	---	NA	< 1	NA
1,2-Dichlorobenzene	95-50-1	---	---	NA	< 1	NA
Hexachloroethane	67-72-1	---	---	NA	< 5	NA
N-Nitroso-di-n-propylamine	621-64-7	---	---	NA	< 1	NA
Nitrobenzene	98-95-3	---	---	NA	< 1	NA
Isophorone	78-59-1	---	---	NA	< 1	NA
Bis(2-Chloroethoxy)methane	111-91-1	---	---	NA	< 1	NA
1,2,4-Trichlorobenzene	120-82-1	---	---	NA	< 1	NA
Hexachlorobutadiene	87-68-3	---	---	NA	< 1	NA
Hexachlorocyclopentadiene	77-47-4	---	---	NA	< 15	NA
2-Chloronaphthalene	91-58-7	---	---	NA	< 1	NA
Dimethylphthalate	131-11-3	monitor	monitor	NA	< 5	NA
2-methylphenol	95-48-7	---	---	NA	< 1	NA
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	NA	< 1	NA
4-methylphenol (total)	106-44-5	monitor	140	NA	< 1	NA
Dibenzofuran	132-64-9	---	---	NA	< 1	NA
3-Nitroaniline	99-09-2	---	---	NA	< 1	NA
4-Nitroaniline	100-01-6	---	---	NA	< 1	NA
2,4-Dinitrophenol	51-28-5	---	---	NA	< 30	NA
4-Nitrophenol	100-02-7	---	---	NA	< 30	NA
4,6-Dinitro-2-methylphenol	534-52-1	---	---	NA	< 15	NA
Pentachlorophenol (total)	87-86-5	monitor	3.5	NA	< 5	NA
2,6-Dinitrotoluene	606-20-2	---	---	NA	< 1	NA
2,4-Dinitrotoluene	121-14-2	---	---	NA	< 5	NA
4-Chlorophenyl-phenylether	7005-72-3	---	---	NA	< 1	NA
Diethylphthalate	84-66-2	monitor	2600	NA	< 5	NA
N-nitrosodiphenylamine	86-30-6	---	---	NA	< 1	NA
4-Bromophenyl-phenylether	101-55-3	---	---	NA	< 1	NA
Hexachlorobenzene	118-74-1	---	---	NA	< 0.5	NA
di-n-butylphthalate	84-74-2	monitor	350	NA	< 5	NA
Butylbenzylphthalate	85-68-7	---	---	NA	< 5	NA
3,3'-Dichlorobenzidine	91-94-1	---	---	NA	< 5	NA
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	NA	< 5	NA
Di-n-octylphthalate	117-84-0	---	---	NA	< 5	NA
Carbazole	86-74-8	---	---	NA	< 1	NA

**Attachment A 2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		September-13	October-13	November-13
		Discharge Limits		9/1/2013	10/2/2013	11/1/2013
		30 Day Avg	Daily Max.			
PAHs (ug/L)						
Naphthalene	91-20-3	monitor	160	NA	< 0.5	NA
Acenaphthylene	208-96-8	---	---	NA	< 0.5	NA
Anthracene	120-12-7	---	---	NA	< 0.5	NA
Fluorene	86-73-7	---	---	NA	< 0.5	NA
Phenanthrene	85-01-8	---	---	NA	< 0.5	NA
Acenaphthene	83-32-9	monitor	67	NA	< 0.5	NA
Benzo (a) pyrene	50-32-8	---	---	NA	< 0.5	NA
Chrysene	218-01-9	---	---	NA	< 0.5	NA
Fluoranthene	206-44-0	66	200	NA	< 0.5	NA
Pyrene	129-00-0	---	---	NA	< 0.5	NA
Benzo (a) anthracene	56-55-3	---	---	NA	< 0.5	NA
Benzo (k) flouranthene	207-08-9	---	---	NA	< 0.5	NA
Benzo (g,h,i) perylene	191-24-2	---	---	NA	< 0.5	NA
Dibenz (a,h) anthracene	53-70-3	---	---	NA	< 0.5	NA
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	NA	< 0.5	NA
Benzo (b) flouranthene	205-99-2	---	---	NA	< 0.5	NA
Total PAHs		0.376	monitor	NA	0	NA
VOCs (ug/L)						
Chloromethane	74-87-3	---	---	NA	< 5	NA
Vinyl Chloride	75-01-4	---	---	NA	< 5	NA
Bromomethane	74-83-9	---	---	NA	< 5	NA
Chloroethane	75-00-3	---	---	NA	< 5	NA
1,1-Dichloroethene	75-35-4	---	---	NA	< 5	NA
Methylene Chloride	75-09-2	---	---	NA	< 5	NA
Trans-1,2-Dichloroethene	156-60-5	---	---	NA	< 5	NA
1,1-Dichloroethane	75-34-3	---	---	NA	< 5	NA
cis-1,2-Dichloroethene	156-59-2	---	---	NA	< 5	NA
Chloroform	67-66-3	---	---	NA	< 5	NA
1,1,1-Trichloroethane	71-55-6	---	---	NA	< 5	NA
Carbon Tetrachloride	56-23-5	---	---	NA	< 5	NA
Benzene	71-43-2	57	134	NA	< 5	NA
1,2-Dichloroethane	107-06-2	180	574	NA	< 5	NA
Trichloroethene	79-01-6	---	---	NA	< 5	NA
1,2-Dichloropropane	78-87-5	---	---	NA	< 5	NA
Bromodichloromethane	75-27-4	---	---	NA	< 5	NA
Toluene	108-88-3	28	74	NA	< 5	NA
1,1,2-Trichloroethane	79-00-5	---	---	NA	< 5	NA
Tetrachloroethene	127-18-4	52	164	NA	< 5	NA
Dibromochloromethane	124-48-1	---	---	NA	< 5	NA
Chlorobenzene	108-90-7	---	---	NA	< 5	NA
Ethylbenzene	100-41-4	142	380	NA	< 5	NA
Styrene	100-42-5	monitor	1300	NA	< 5	NA
Bromoform	75-25-2	---	---	NA	< 5	NA
1,1,2,2-Tetrachloroethane	79-34-5	---	---	NA	< 5	NA
Acetone (total)	67-64-1	monitor	550	NA	< 20	NA
Carbon Disulfide	75-15-0	---	---	NA	< 5	NA
2-Butanone	78-93-3	---	---	NA	< 10	NA
Trans-1,3-Dichloropropene	10061-02-6	---	---	NA	< 5	NA
cis-1,3-Dichloropropene	10061-01-5	---	---	NA	< 5	NA
4-Methyl-2-pentanone	108-10-1	---	---	NA	< 10	NA
2-Hexanone	591-78-6	---	---	NA	< 10	NA
Total Xylene	1330-20-7	---	---	NA	< 5	NA

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed

**Attachment A 2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		August-13 8/27/2013	September-13 9/1/2013	October-13 10/2/2013
		Discharge Limits				
		30 Day Avg.	Daily Max			
Metals (mg/L)						
Mercury	7439-97-6	0 000013	0 0011	< 0 0002	NA	< 0 0002
Antimony	7440-36-0	monitor	monitor	< 0 02	NA	< 0 02
Chromium	7440-47-3	0 119	2.6	< 0 015	NA	< 0 015
Copper	7440-50-8	monitor	0 027	0 0222	NA	0 0203
Lead	7439-92-1	0.121	0.23	< 0 015	NA	< 0 015
Nickel	7440-02-0	0.24	2 3	0 0099	NA	0 0077
Zinc	7440-66-6	monitor	0.17	0 0885	NA	0 0626
Arsenic	7440-38-2	0.122	0.36	< 0 02	NA	< 0 02
Beryllium	7440-41-7	0 00142	1	< 0 005	NA	< 0 005
Cadmium	7440-43-9	monitor	0.0089	< 0 005	NA	< 0 005
Silver	7440-22-4	monitor	0 0034	< 0 005	NA	< 0 005
Cyanide (free)	57-12-5	monitor	0 046	< 0 01	NA	< 0 01
Conventionals (mg/L)						
pH (Min and Max) (S U)	pH	6 5	9	7 7	NA	7 5
TSS	TSS	30	45	< 3 42	NA	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	6 3	NA	2 9
Oil & Grease (total)	O&G	10	10	< 5	NA	< 5
BOD	BOD	monitor	monitor	< 3 4	NA	< 3 4
Pesticides (ug/L)						
Endnn Ketone	53494-70-5	---	---	< 0 016	NA	< 0 016
Alpha Chlordane	5103-71-9	---	---	< 0 0082	NA	< 0 0081
Gamma Chlordane	5103-74-2	---	---	< 0 016	NA	< 0 016
Alpha BHC	319-84-6	---	---	< 0 0081	NA	< 0 0081
Beta BHC	319-85-7	---	---	< 0 0081	NA	< 0 0081
Gamma BHC-Lindane	58-89-9	---	---	< 0 0081	NA	< 0 0081
Delta BHC	319-86-8	---	---	< 0 0081	NA	< 0 0081
Heptachlor	76-44-8	0.00331	monitor	< 0 0081	NA	< 0 0081
Aldnn	309-00-2	0.000884	monitor	< 0 0081	NA	< 0 0081
Heptachlor Epoxide	1024-57-3	---	---	< 0 0081	NA	< 0 0081
p,p-DDE	72-55-9	---	---	< 0 016	NA	< 0 016
p,p-DDD	72-54-8	---	---	< 0 016	NA	< 0 016
p,p-DDT	50-29-3	0.000227	monitor	< 0 016	NA	< 0 016
Dieldnn	60-57-1	---	---	< 0 016	NA	< 0 016
Endnn	72-20-8	---	---	< 0 016	NA	< 0 016
Toxaphene	8001-35-2	---	---	< 2 4	NA	< 2 4
Endosulfan II	33213-65-9	---	---	< 0 016	NA	< 0 016
Endosulfan I	959-98-8	---	---	< 0 0081	NA	< 0 0081
Endosulfan Sulfate	1031-07-8	---	---	< 0 016	NA	< 0 016
Endnn Aldehyde	7421-93-4	---	---	< 0 081	NA	< 0 081
Methoxychlor	72-43-5	---	---	< 0 081	NA	< 0 081
PCBs (ug/L)						
PCB-1016	12674-11-2	---	---	< 0 4	NA	< 0 4
PCB-1221	11104-28-2	---	---	< 0 4	NA	< 0 4
PCB-1232	11141-16-5	---	---	< 0 4	NA	< 0 4
PCB-1242	53469-21-9	---	---	< 0 4	NA	< 0 4
PCB-1248	12672-29-6	---	---	< 0 4	NA	< 0 4
PCB-1254	11097-69-1	---	---	< 0 4	NA	< 0 4
PCB-1260	11096-82-5	---	---	< 0 4	NA	< 0 4
TOTAL PCBs		0.000967	monitor	0	NA	0

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit		August-13	September-13	October-13
		Discharge Limits				
		30 Day Avg.	Daily Max	8/27/2013	9/1/2013	10/2/2013
Semi-VOCs (ug/L)						
4-Chloroaniline	106-47-8	---	---	< 1	NA	< 1
2-Methylnaphthalene	91-57-6	---	---	< 0.5	NA	< 0.5
2-Nitroaniline	88-74-4	---	---	< 1	NA	< 1
2,4,5-Trichlorophenol	95-95-4	---	---	< 1	NA	< 1
2-Chlorophenol	95-57-8	---	---	< 1	NA	< 1
Phenol	108-95-2	monitor	monitor	< 1	NA	< 1
2-Nitrophenol	88-75-5	---	---	< 1	NA	< 1
2,4-Dimethylphenol	105-67-9	---	---	< 1	NA	< 1
2,4-Dichlorophenol	120-83-2	---	---	< 1	NA	< 1
4-Chloro-3-methylphenol	59-50-7	---	---	< 1	NA	< 1
2,4,6-Trichlorophenol	88-06-2	---	---	< 1	NA	< 1
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 1	NA	< 1
1,3-Dichlorobenzene	541-73-1	---	---	< 1	NA	< 1
1,4-Dichlorobenzene	106-46-7	---	---	< 1	NA	< 1
1,2-Dichlorobenzene	95-50-1	---	---	< 1	NA	< 1
Hexachloroethane	67-72-1	---	---	< 5	NA	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 1	NA	< 1
Nitrobenzene	98-95-3	---	---	< 1	NA	< 1
Isophorone	78-59-1	---	---	< 1	NA	< 1
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 1	NA	< 1
1,2,4-Trichlorobenzene	120-82-1	---	---	< 1	NA	< 1
Hexachlorobutadiene	87-68-3	---	---	< 1	NA	< 1
Hexachlorocyclopentadiene	77-47-4	---	---	< 15	NA	< 15
2-Chloronaphthalene	91-58-7	---	---	< 1	NA	< 1
Dimethylphthalate	131-11-3	monitor	monitor	< 5	NA	< 5
2-methylphenol	95-48-7	---	---	< 1	NA	< 1
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 1	NA	< 1
4-methylphenol (total)	106-44-5	monitor	140	< 1	NA	< 1
Dibenzofuran	132-64-9	---	---	< 1	NA	< 1
3-Nitroaniline	99-09-2	---	---	< 1	NA	< 1
4-Nitroaniline	100-01-6	---	---	< 1	NA	< 1
2,4-Dinitrophenol	51-28-5	---	---	< 30	NA	< 30
4-Nitrophenol	100-02-7	---	---	< 30	NA	< 30
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 15	NA	< 15
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	NA	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 1	NA	< 1
2,4-Dinitrotoluene	121-14-2	---	---	< 5	NA	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 1	NA	< 1
Diethylphthalate	84-66-2	monitor	2600	< 5	NA	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 1	NA	< 1
4-Bromophenyl-phenylether	101-55-3	---	---	< 1	NA	< 1
Hexachlorobenzene	118-74-1	---	---	< 0.5	NA	< 0.5
di-n-butylphthalate	84-74-2	monitor	350	< 5	NA	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	NA	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	NA	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	NA	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	NA	< 5
Carbazole	86-74-8	---	---	< 1	NA	< 1

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit Discharge Limits		August-13	September-13	October-13
		30 Day Avg	Daily Max	8/27/2013	9/1/2013	10/2/2013
PAHs (ug/L)						
Naphthalene	91-20-3	monitor	160	< 0.5	NA	< 0.5
Acenaphthylene	208-96-8	---	---	< 0.5	NA	< 0.5
Anthracene	120-12-7	---	---	< 0.5	NA	< 0.5
Fluorene	86-73-7	---	---	< 0.5	NA	< 0.5
Phenanthrene	85-01-8	---	---	< 0.5	NA	< 0.5
Acenaphthene	83-32-9	monitor	67	< 0.5	NA	< 0.5
Benzo (a) pyrene	50-32-8	---	---	< 0.5	NA	< 0.5
Chrysene	218-01-9	---	---	< 0.5	NA	< 0.5
Fluoranthene	206-44-0	66	200	< 0.5	NA	< 0.5
Pyrene	129-00-0	---	---	< 0.5	NA	< 0.5
Benzo (a) anthracene	56-55-3	---	---	< 0.5	NA	< 0.5
Benzo (k) flouranthene	207-08-9	---	---	< 0.5	NA	< 0.5
Benzo (g,h,i) perylene	191-24-2	---	---	< 0.5	NA	< 0.5
Dibenz (a,h) anthracene	53-70-3	---	---	< 0.5	NA	< 0.5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 0.5	NA	< 0.5
Benzo (b) flouranthene	205-99-2	---	---	< 0.5	NA	< 0.5
Total PAHs		0.376	monitor	0	NA	0
VOCs (ug/L)						
Chloromethane	74-87-3	---	---	< 5	NA	< 5
Vinyl Chloride	75-01-4	---	---	< 5	NA	< 5
Bromomethane	74-83-9	---	---	< 5	NA	< 5
Chloroethane	75-00-3	---	---	< 5	NA	< 5
1,1-Dichloroethene	75-35-4	---	---	< 5	NA	< 5
Methylene Chloride	75-09-2	---	---	< 5	NA	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 5	NA	< 5
1,1-Dichloroethane	75-34-3	---	---	< 5	NA	< 5
cis-1,2-Dichloroethene	156-59-2	---	---	< 5	NA	< 5
Chloroform	67-66-3	---	---	< 5	NA	< 5
1,1,1-Trichloroethane	71-55-6	---	---	< 5	NA	< 5
Carbon Tetrachloride	56-23-5	---	---	< 5	NA	< 5
Benzene	71-43-2	57	134	< 5	NA	< 5
1,2-Dichloroethane	107-06-2	180	574	< 5	NA	< 5
Trichloroethene	79-01-6	---	---	< 5	NA	< 5
1,2-Dichloropropane	78-87-5	---	---	< 5	NA	< 5
Bromodichloromethane	75-27-4	---	---	< 5	NA	< 5
Toluene	108-88-3	28	74	< 5	NA	< 5
1,1,2-Trichloroethane	79-00-5	---	---	< 5	NA	< 5
Tetrachloroethene	127-18-4	52	164	< 5	NA	< 5
Dibromochloromethane	124-48-1	---	---	< 5	NA	< 5
Chlorobenzene	108-90-7	---	---	< 5	NA	< 5
Ethylbenzene	100-41-4	142	380	< 5	NA	< 5
Styrene	100-42-5	monitor	1300	< 5	NA	< 5
Bromoform	75-25-2	---	---	< 5	NA	< 5
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 5	NA	< 5
Acetone (total)	67-64-1	monitor	550	< 20	NA	< 20
Carbon Disulfide	75-15-0	---	---	< 5	NA	< 5
2-Butanone	78-93-3	---	---	< 10	NA	< 10
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 5	NA	< 5
cis-1,3-Dichloropropene	10061-01-5	---	---	< 5	NA	< 5
4-Methyl-2-pentanone	108-10-1	---	---	< 10	NA	< 10
2-Hexanone	591-78-6	---	---	< 10	NA	< 10
Total Xylene	1330-20-7	---	---	< 5	NA	< 5

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit		June-13	July-13	August-13	September-13
		Discharge Limits		6/13/2013	7/1/2013	8/27/2013	9/1/2013
		30 Day Avg	Daily Max				
Metals (mg/L)							
Mercury	7439-97-6	0.000013	0.0011	< 0.0002	NA	< 0.0002	NA
Antimony	7440-36-0	monitor	monitor	< 0.02	NA	< 0.02	NA
Chromium	7440-47-3	0.119	2.6	< 0.015	NA	< 0.015	NA
Copper	7440-50-8	monitor	0.027	0.0171	NA	0.0222	NA
Lead	7439-92-1	0.121	0.23	< 0.015	NA	< 0.015	NA
Nickel	7440-02-0	0.24	2.3	0.007	J	0.0099	J
Zinc	7440-66-6	monitor	0.17	0.0661	NA	0.0885	NA
Arsenic	7440-38-2	0.122	0.36	< 0.02	NA	< 0.02	NA
Beryllium	7440-41-7	0.00142	1	< 0.005	NA	< 0.005	NA
Cadmium	7440-43-9	monitor	0.0089	< 0.005	NA	< 0.005	NA
Silver	7440-22-4	monitor	0.0034	< 0.005	NA	< 0.005	NA
Cyanide (free)	57-12-5	monitor	0.046	< 0.01	NA	< 0.01	NA
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	8	NA	7.7	NA
TSS	TSS	30	45	< 3	NA	< 3.42	NA
Ammonia Nitrogen	7664-41-7	monitor	monitor	7	NA	6.3	NA
Oil & Grease (total)	O&G	10	10	3.6	J	< 5	NA
BOD	BOD	monitor	monitor	< 3.2	NA	< 3.4	NA
Pesticides (ug/L)							
Endnn Ketone	53494-70-5	---	---	< 0.016	NA	< 0.016	NA
Alpha Chlordane	5103-71-9	---	---	< 0.0081	NA	< 0.0082	NA
Gamma Chlordane	5103-74-2	---	---	< 0.016	NA	< 0.016	NA
Alpha BHC	319-84-6	---	---	< 0.0081	NA	< 0.0081	NA
Beta BHC	319-85-7	---	---	< 0.0081	NA	< 0.0081	NA
Gamma BHC-Lindane	58-89-9	---	---	< 0.0081	NA	< 0.0081	NA
Delta BHC	319-86-8	---	---	< 0.0081	NA	< 0.0081	NA
Heptachlor	76-44-8	0.00331	monitor	< 0.0081	NA	< 0.0081	NA
Aldnn	309-00-2	0.000884	monitor	< 0.0081	NA	< 0.0081	NA
Heptachlor Epoxide	1024-57-3	---	---	< 0.0081	NA	< 0.0081	NA
p,p-DDE	72-55-9	---	---	< 0.016	NA	< 0.016	NA
p,p-DDD	72-54-8	---	---	< 0.016	NA	< 0.016	NA
p,p-DDT	50-29-3	0.000227	monitor	< 0.016	NA	< 0.016	NA
Dieldnn	60-57-1	---	---	< 0.016	NA	< 0.016	NA
Endnn	72-20-8	---	---	< 0.016	NA	< 0.016	NA
Toxaphene	8001-35-2	---	---	< 2.4	NA	< 2.4	NA
Endosulfan II	33213-65-9	---	---	< 0.016	NA	< 0.016	NA
Endosulfan I	959-98-8	---	---	< 0.0081	NA	< 0.0081	NA
Endosulfan Sulfate	1031-07-8	---	---	< 0.016	NA	< 0.016	NA
Endnn Aldehyde	7421-93-4	---	---	< 0.081	NA	< 0.081	NA
Methoxychlor	72-43-5	---	---	< 0.081	NA	< 0.081	NA
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0.4	NA	< 0.4	NA
PCB-1221	11104-28-2	---	---	< 0.4	NA	< 0.4	NA
PCB-1232	11141-16-5	---	---	< 0.4	NA	< 0.4	NA
PCB-1242	53469-21-9	---	---	< 0.4	NA	< 0.4	NA
PCB-1248	12672-29-6	---	---	< 0.4	NA	< 0.4	NA
PCB-1254	11097-69-1	---	---	< 0.4	NA	< 0.4	NA
PCB-1260	11096-82-5	---	---	< 0.4	NA	< 0.4	NA
TOTAL PCBs		0.000967	monitor	0	NA	0	NA

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit		June-13 6/13/2013	July-13 7/1/2013	August-13 8/27/2013	September-13 9/1/2013
		Discharge Limits					
		30 Day Avg.	Daily Max				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 1	NA	< 1	NA
2-Methylnaphthalene	91-57-6	---	---	< 0.5	NA	< 0.5	NA
2-Nitroaniline	88-74-4	---	---	< 1	NA	< 1	NA
2,4,5-Trichlorophenol	95-95-4	---	---	< 1	NA	< 1	NA
2-Chlorophenol	95-57-8	---	---	< 1	NA	< 1	NA
Phenol	108-95-2	monitor	monitor	< 1	NA	< 1	NA
2-Nitrophenol	88-75-5	---	---	< 1	NA	< 1	NA
2,4-Dimethylphenol	105-67-9	---	---	< 1	NA	< 1	NA
2,4-Dichlorophenol	120-83-2	---	---	< 1	NA	< 1	NA
4-Chloro-3-methylphenol	59-50-7	---	---	< 1	NA	< 1	NA
2,4,6-Trichlorophenol	88-06-2	---	---	< 1	NA	< 1	NA
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 1	NA	< 1	NA
1,3-Dichlorobenzene	541-73-1	---	---	< 1	NA	< 1	NA
1,4-Dichlorobenzene	106-46-7	---	---	< 1	NA	< 1	NA
1,2-Dichlorobenzene	95-50-1	---	---	< 1	NA	< 1	NA
Hexachloroethane	67-72-1	---	---	< 5	NA	< 5	NA
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 1	NA	< 1	NA
Nitrobenzene	98-95-3	---	---	< 1	NA	< 1	NA
Isophorone	78-59-1	---	---	< 1	NA	< 1	NA
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 1	NA	< 1	NA
1,2,4-Trichlorobenzene	120-82-1	---	---	< 1	NA	< 1	NA
Hexachlorobutadiene	87-68-3	---	---	< 1	NA	< 1	NA
Hexachlorocyclopentadiene	77-47-4	---	---	< 15	NA	< 15	NA
2-Chloronaphthalene	91-58-7	---	---	< 1	NA	< 1	NA
Dimethylphthalate	131-11-3	monitor	monitor	< 5	NA	< 5	NA
2-methylphenol	95-48-7	---	---	< 1	NA	< 1	NA
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 1	NA	< 1	NA
4-methylphenol (total)	106-44-5	monitor	140	< 1	NA	< 1	NA
Dibenzofuran	132-64-9	---	---	< 1	NA	< 1	NA
3-Nitroaniline	99-09-2	---	---	< 1	NA	< 1	NA
4-Nitroaniline	100-01-6	---	---	< 1	NA	< 1	NA
2,4-Dinitrophenol	51-28-5	---	---	< 30	NA	< 30	NA
4-Nitrophenol	100-02-7	---	---	< 30	NA	< 30	NA
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 15	NA	< 15	NA
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	NA	< 5	NA
2,6-Dinitrotoluene	606-20-2	---	---	< 1	NA	< 1	NA
2,4-Dinitrotoluene	121-14-2	---	---	< 5	NA	< 5	NA
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 1	NA	< 1	NA
Diethylphthalate	84-66-2	monitor	2600	< 5	NA	< 5	NA
N-nitrosodiphenylamine	86-30-6	---	---	< 1	NA	< 1	NA
4-Bromophenyl-phenylether	101-55-3	---	---	< 1	NA	< 1	NA
Hexachlorobenzene	118-74-1	---	---	< 0.5	NA	< 0.5	NA
di-n-butylphthalate	84-74-2	monitor	350	< 5	NA	< 5	NA
Butylbenzylphthalate	85-68-7	---	---	< 5	NA	< 5	NA
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	NA	< 5	NA
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	NA	< 5	NA
Di-n-octylphthalate	117-84-0	---	---	< 5	NA	< 5	NA
Carbazole	86-74-8	---	---	< 1	NA	< 1	NA

**Attachment A 2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		June-13	July-13	August-13	September-13
		Discharge Limits		6/13/2013	7/1/2013	8/27/2013	9/1/2013
		30 Day Avg.	Daily Max				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 0.5	NA	< 0.5	NA
Acenaphthylene	208-96-8	---	---	< 0.5	NA	< 0.5	NA
Anthracene	120-12-7	---	---	< 0.5	NA	< 0.5	NA
Fluorene	86-73-7	---	---	< 0.5	NA	< 0.5	NA
Phenanthrene	85-01-8	---	---	< 0.5	NA	< 0.5	NA
Acenaphthene	83-32-9	monitor	67	< 0.5	NA	< 0.5	NA
Benzo (a) pyrene	50-32-8	---	---	< 0.5	NA	< 0.5	NA
Chrysene	218-01-9	---	---	< 0.5	NA	< 0.5	NA
Fluoranthene	206-44-0	66	200	< 0.5	NA	< 0.5	NA
Pyrene	129-00-0	---	---	< 0.5	NA	< 0.5	NA
Benzo (a) anthracene	56-55-3	---	---	< 0.5	NA	< 0.5	NA
Benzo (k) flouranthene	207-08-9	---	---	< 0.5	NA	< 0.5	NA
Benzo (g,h,i) perylene	191-24-2	---	---	< 0.5	NA	< 0.5	NA
Dibenz (a,h) anthracene	53-70-3	---	---	< 0.5	NA	< 0.5	NA
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 0.5	NA	< 0.5	NA
Benzo (b) flouranthene	205-99-2	---	---	< 0.5	NA	< 0.5	NA
Total PAHs		0.376	monitor	0	NA	0	NA
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 5	NA	< 5	NA
Vinyl Chloride	75-01-4	---	---	< 5	NA	< 5	NA
Bromomethane	74-83-9	---	---	< 5	NA	< 5	NA
Chloroethane	75-00-3	---	---	< 5	NA	< 5	NA
1,1-Dichloroethene	75-35-4	---	---	< 5	NA	< 5	NA
Methylene Chloride	75-09-2	---	---	< 5	NA	< 5	NA
Trans-1,2-Dichloroethene	156-60-5	---	---	< 5	NA	< 5	NA
1,1-Dichloroethane	75-34-3	---	---	< 5	NA	< 5	NA
cis-1,2-Dichloroethene	156-59-2	---	---	< 5	NA	< 5	NA
Chloroform	67-66-3	---	---	< 5	NA	< 5	NA
1,1,1-Trichloroethane	71-55-6	---	---	< 5	NA	< 5	NA
Carbon Tetrachloride	56-23-5	---	---	< 5	NA	< 5	NA
Benzene	71-43-2	57	134	< 5	NA	< 5	NA
1,2-Dichloroethane	107-06-2	180	574	< 5	NA	< 5	NA
Trichloroethene	79-01-6	---	---	< 5	NA	< 5	NA
1,2-Dichloropropane	78-87-5	---	---	< 5	NA	< 5	NA
Bromodichloromethane	75-27-4	---	---	< 5	NA	< 5	NA
Toluene	108-88-3	28	74	< 5	NA	< 5	NA
1,1,2-Trichloroethane	79-00-5	---	---	< 5	NA	< 5	NA
Tetrachloroethene	127-18-4	52	164	< 5	NA	< 5	NA
Dibromochloromethane	124-48-1	---	---	< 5	NA	< 5	NA
Chlorobenzene	108-90-7	---	---	< 5	NA	< 5	NA
Ethylbenzene	100-41-4	142	380	< 5	NA	< 5	NA
Styrene	100-42-5	monitor	1300	< 5	NA	< 5	NA
Bromoform	75-25-2	---	---	< 5	NA	< 5	NA
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 5	NA	< 5	NA
Acetone (total)	67-64-1	monitor	550	< 20	NA	< 20	NA
Carbon Disulfide	75-15-0	---	---	< 5	NA	< 5	NA
2-Butanone	78-93-3	---	---	< 10	NA	< 10	NA
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 5	NA	< 5	NA
cis-1,3-Dichloropropene	10061-01-5	---	---	< 5	NA	< 5	NA
4-Methyl-2-pentanone	108-10-1	---	---	< 10	NA	< 10	NA
2-Hexanone	591-78-6	---	---	< 10	NA	< 10	NA
Total Xylene	1330-20-7	---	---	< 5	NA	< 5	NA

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit		May-13	June-13	July-13	August-13
		Discharge Limits					
		30 Day Avg.	Daily Max	5/20/2013	6/13/2013	7/1/2013	8/27/2013
Metals (mg/L)							
Mercury	7439-97-6	0.000013	0.0011	< 0.0002	< 0.0002	NA	< 0.0002
Antimony	7440-36-0	monitor	monitor	< 0.02	< 0.02	NA	< 0.02
Chromium	7440-47-3	0.119	2.6	< 0.015	< 0.015	NA	< 0.015
Copper	7440-50-8	monitor	0.027	0.0159	0.0171	NA	0.0222
Lead	7439-92-1	0.121	0.23	< 0.015	< 0.015	NA	< 0.015
Nickel	7440-02-0	0.24	2.3	0.006	0.007	NA	0.0099
Zinc	7440-66-6	monitor	0.17	0.0845	0.0661	NA	0.0885
Arsenic	7440-38-2	0.122	0.36	< 0.02	< 0.02	NA	< 0.02
Beryllium	7440-41-7	0.00142	1	< 0.005	< 0.005	NA	< 0.005
Cadmium	7440-43-9	monitor	0.0089	< 0.005	< 0.005	NA	< 0.005
Silver	7440-22-4	monitor	0.0034	< 0.005	< 0.005	NA	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	< 0.01	< 0.01	NA	< 0.01
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	7.5	8	NA	7.7
TSS	TSS	30	45	< 3.96	< 3	NA	< 3.42
Ammonia Nitrogen	7664-41-7	monitor	monitor	0.67	7	NA	6.3
Oil & Grease (total)	O&G	10	10	< 5	3.6	NA	< 5
BOD	BOD	monitor	monitor	9.2	< 3.2	NA	< 3.4
Pesticides (ug/L)							
Endnn Ketone	53494-70-5	---	---	< 0.016	< 0.016	NA	< 0.016
Alpha Chlordane	5103-71-9	---	---	< 0.0081	< 0.0081	NA	< 0.0082
Gamma Chlordane	5103-74-2	---	---	< 0.016	< 0.016	NA	< 0.016
Alpha BHC	319-84-6	---	---	< 0.0081	< 0.0081	NA	< 0.0081
Beta BHC	319-85-7	---	---	< 0.0081	< 0.0081	NA	< 0.0081
Gamma BHC-Lindane	58-89-9	---	---	< 0.0081	< 0.0081	NA	< 0.0081
Delta BHC	319-86-8	---	---	< 0.0081	< 0.0081	NA	< 0.0081
Heptachlor	76-44-8	0.00331	monitor	< 0.0081	< 0.0081	NA	< 0.0081
Aldnn	309-00-2	0.000884	monitor	< 0.0081	< 0.0081	NA	< 0.0081
Heptachlor Epoxide	1024-57-3	---	---	< 0.0081	< 0.0081	NA	< 0.0081
p,p-DDE	72-55-9	---	---	< 0.016	< 0.016	NA	< 0.016
p,p-DDD	72-54-8	---	---	< 0.016	< 0.016	NA	< 0.016
p,p-DDT	50-29-3	0.000227	monitor	< 0.016	< 0.016	NA	< 0.016
Dieldnn	60-57-1	---	---	< 0.016	< 0.016	NA	< 0.016
Endnn	72-20-8	---	---	< 0.016	< 0.016	NA	< 0.016
Toxaphene	8001-35-2	---	---	< 2.4	< 2.4	NA	< 2.4
Endosulfan II	33213-65-9	---	---	< 0.016	< 0.016	NA	< 0.016
Endosulfan I	959-98-8	---	---	< 0.0081	< 0.0081	NA	< 0.0081
Endosulfan Sulfate	1031-07-8	---	---	< 0.016	< 0.016	NA	< 0.016
Endnn Aldehyde	7421-93-4	---	---	< 0.081	< 0.081	NA	< 0.081
Methoxychlor	72-43-5	---	---	< 0.081	< 0.081	NA	< 0.081
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0.4	< 0.4	NA	< 0.4
PCB-1221	11104-28-2	---	---	< 0.4	< 0.4	NA	< 0.4
PCB-1232	11141-16-5	---	---	< 0.4	< 0.4	NA	< 0.4
PCB-1242	53469-21-9	---	---	< 0.4	< 0.4	NA	< 0.4
PCB-1248	12672-29-6	---	---	< 0.4	< 0.4	NA	< 0.4
PCB-1254	11097-69-1	---	---	< 0.4	< 0.4	NA	< 0.4
PCB-1260	11096-82-5	---	---	< 0.4	< 0.4	NA	< 0.4
TOTAL PCBs		0.000967	monitor	0	0	NA	0

**Attachment A 2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit		May-13	June-13	July-13	August-13
		Discharge Limits					
		30 Day Avg.	Daily Max	5/20/2013	6/13/2013	7/1/2013	8/27/2013
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 1	< 1	NA	< 1
2-Methylnaphthalene	91-57-6	---	---	< 0.5	< 0.5	NA	< 0.5
2-Nitroaniline	88-74-4	---	---	< 1	< 1	NA	< 1
2,4,5-Trchlorophenol	95-95-4	---	---	< 1	< 1	NA	< 1
2-Chlorophenol	95-57-8	---	---	< 1	< 1	NA	< 1
Phenol	108-95-2	monitor	monitor	< 1	< 1	NA	< 1
2-Nitrophenol	88-75-5	---	---	< 1	< 1	NA	< 1
2,4-Dimethylphenol	105-67-9	---	---	< 1	< 1	NA	< 1
2,4-Dichlorophenol	120-83-2	---	---	< 1	< 1	NA	< 1
4-Chloro-3-methylphenol	59-50-7	---	---	< 1	< 1	NA	< 1
2,4,6-Trchlorophenol	88-06-2	---	---	< 1	< 1	NA	< 1
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 1	< 1	NA	< 1
1,3-Dichlorobenzene	541-73-1	---	---	< 1	< 1	NA	< 1
1,4-Dichlorobenzene	106-46-7	---	---	< 1	< 1	NA	< 1
1,2-Dichlorobenzene	95-50-1	---	---	< 1	< 1	NA	< 1
Hexachloroethane	67-72-1	---	---	< 5	< 5	NA	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 1	< 1	NA	< 1
Nitrobenzene	98-95-3	---	---	< 1	< 1	NA	< 1
Isophorone	78-59-1	---	---	< 1	< 1	NA	< 1
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 1	< 1	NA	< 1
1,2,4-Trchlorobenzene	120-82-1	---	---	< 1	< 1	NA	< 1
Hexachlorobutadiene	87-68-3	---	---	< 1	< 1	NA	< 1
Hexachlorocyclopentadiene	77-47-4	---	---	< 15	< 15	NA	< 15
2-Chloronaphthalene	91-58-7	---	---	< 1	< 1	NA	< 1
Dimethylphthalate	131-11-3	monitor	monitor	< 5	< 5	NA	< 5
2-methylphenol	95-48-7	---	---	< 1	< 1	NA	< 1
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 1	< 1	NA	< 1
4-methylphenol (total)	106-44-5	monitor	140	< 1	< 1	NA	< 1
Dibenzofuran	132-64-9	---	---	< 1	< 1	NA	< 1
3-Nitroaniline	99-09-2	---	---	< 1	< 1	NA	< 1
4-Nitroaniline	100-01-6	---	---	< 1	< 1	NA	< 1
2,4-Dinitrophenol	51-28-5	---	---	< 30	< 30	NA	< 30
4-Nitrophenol	100-02-7	---	---	< 30	< 30	NA	< 30
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 15	< 15	NA	< 15
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	< 5	NA	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 1	< 1	NA	< 1
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5	NA	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 1	< 1	NA	< 1
Diethylphthalate	84-66-2	monitor	2600	< 5	< 5	NA	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 1	< 1	NA	< 1
4-Bromophenyl-phenylether	101-55-3	---	---	< 1	< 1	NA	< 1
Hexachlorobenzene	118-74-1	---	---	< 0.5	< 0.5	NA	< 0.5
di-n-butylphthalate	84-74-2	monitor	350	< 5	< 5	NA	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5	NA	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	< 5	NA	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5	NA	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5	NA	< 5
Carbazole	86-74-8	---	---	< 1	< 1	NA	< 1

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit		May-13	June-13	July-13	August-13
		Discharge Limits		5/20/2013	6/13/2013	7/1/2013	8/27/2013
		30 Day Avg.	Daily Max.				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 0.5	< 0.5	NA	< 0.5
Acenaphthylene	208-96-8	---	---	< 0.5	< 0.5	NA	< 0.5
Anthracene	120-12-7	---	---	< 0.5	< 0.5	NA	< 0.5
Fluorene	86-73-7	---	---	< 0.5	< 0.5	NA	< 0.5
Phenanthrene	85-01-8	---	---	< 0.5	< 0.5	NA	< 0.5
Acenaphthene	83-32-9	monitor	67	< 0.5	< 0.5	NA	< 0.5
Benzo (a) pyrene	50-32-8	---	---	< 0.5	< 0.5	NA	< 0.5
Chrysene	218-01-9	---	---	< 0.5	< 0.5	NA	< 0.5
Fluoranthene	206-44-0	66	200	< 0.5	< 0.5	NA	< 0.5
Pyrene	129-00-0	---	---	< 0.5	< 0.5	NA	< 0.5
Benzo (a) anthracene	56-55-3	---	---	< 0.5	< 0.5	NA	< 0.5
Benzo (k) fluoranthene	207-08-9	---	---	< 0.5	< 0.5	NA	< 0.5
Benzo (g,h,i) perylene	191-24-2	---	---	< 0.5	< 0.5	NA	< 0.5
Dibenz (a,h) anthracene	53-70-3	---	---	< 0.5	< 0.5	NA	< 0.5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 0.5	< 0.5	NA	< 0.5
Benzo (b) fluoranthene	205-99-2	---	---	< 0.5	< 0.5	NA	< 0.5
Total PAHs		0.376	monitor	0	0	NA	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 5	< 5	NA	< 5
Vinyl Chloride	75-01-4	---	---	< 5	< 5	NA	< 5
Bromomethane	74-83-9	---	---	< 5	< 5	NA	< 5
Chloroethane	75-00-3	---	---	< 5	< 5	NA	< 5
1,1-Dichloroethene	75-35-4	---	---	< 5	< 5	NA	< 5
Methylene Chloride	75-09-2	---	---	< 5	< 5	NA	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 5	< 5	NA	< 5
1,1-Dichloroethane	75-34-3	---	---	< 5	< 5	NA	< 5
cis-1,2-Dichloroethene	156-59-2	---	---	< 5	< 5	NA	< 5
Chloroform	67-66-3	---	---	< 5	< 5	NA	< 5
1,1,1-Trichloroethane	71-55-6	---	---	< 5	< 5	NA	< 5
Carbon Tetrachloride	56-23-5	---	---	< 5	< 5	NA	< 5
Benzene	71-43-2	57	134	< 5	< 5	NA	< 5
1,2-Dichloroethane	107-06-2	180	574	< 5	< 5	NA	< 5
Trichloroethene	79-01-6	---	---	< 5	< 5	NA	< 5
1,2-Dichloropropane	78-87-5	---	---	< 5	< 5	NA	< 5
Bromodichloromethane	75-27-4	---	---	< 5	< 5	NA	< 5
Toluene	108-88-3	28	74	< 5	< 5	NA	< 5
1,1,2-Trichloroethane	79-00-5	---	---	< 5	< 5	NA	< 5
Tetrachloroethene	127-18-4	52	164	< 5	< 5	NA	< 5
Dibromochloromethane	124-48-1	---	---	< 5	< 5	NA	< 5
Chlorobenzene	108-90-7	---	---	< 5	< 5	NA	< 5
Ethylbenzene	100-41-4	142	380	< 5	< 5	NA	< 5
Styrene	100-42-5	monitor	1300	< 5	< 5	NA	< 5
Bromoform	75-25-2	---	---	< 5	< 5	NA	< 5
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 5	< 5	NA	< 5
Acetone (total)	67-64-1	monitor	550	< 20	< 20	NA	< 20
Carbon Disulfide	75-15-0	---	---	< 5	< 5	NA	< 5
2-Butanone	78-93-3	---	---	< 10	< 10	NA	< 10
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 5	< 5	NA	< 5
cis-1,3-Dichloropropene	10061-01-5	---	---	< 5	< 5	NA	< 5
4-Methyl-2-pentanone	108-10-1	---	---	< 10	< 10	NA	< 10
2-Hexanone	591-78-6	---	---	< 10	< 10	NA	< 10
Total Xylene	1330-20-7	---	---	< 5	< 5	NA	< 5

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

**Attachment A 2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No.	Draft Permit Discharge Limits		Aprn-13	May-13	June-13	July-13
		30 Day Avg.	Daily Max	4/24/2013	5/20/2013	6/13/2013	7/1/2013
Metals (mg/L)							
Mercury	7439-97-6	0.000013	0.0011	< 0.0002	< 0.0002	< 0.0002	NA
Antimony	7440-36-0	monitor	monitor	< 0.02	< 0.02	< 0.02	NA
Chromium	7440-47-3	0.119	2.6	< 0.015	< 0.015	< 0.015	NA
Copper	7440-50-8	monitor	0.027	0.0134	0.0159	0.0171	NA
Lead	7439-92-1	0.121	0.23	< 0.015	< 0.015	< 0.015	NA
Nickel	7440-02-0	0.24	2.3	0.0058	0.006	0.007	NA
Zinc	7440-66-6	monitor	0.17	0.0951	0.0845	0.0661	NA
Arsenic	7440-38-2	0.122	0.36	< 0.02	< 0.02	< 0.02	NA
Beryllium	7440-41-7	0.00142	1	< 0.005	< 0.005	< 0.005	NA
Cadmium	7440-43-9	monitor	0.0089	< 0.005	< 0.005	< 0.005	NA
Silver	7440-22-4	monitor	0.0034	< 0.005	< 0.005	< 0.005	NA
Cyanide (free)	57-12-5	monitor	0.046	< 0.01	< 0.01	< 0.01	NA
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	7.4	7.5	8	NA
TSS	TSS	30	45	< 12	< 3.96	< 3	NA
Ammonia Nitrogen	7664-41-7	monitor	monitor	< 0.6	0.67	7	NA
Oil & Grease (total)	O&G	10	10	< 5	< 5	3.6	NA
BOD	BOD	monitor	monitor	< 4.4	9.2	< 3.2	NA
Pesticides (ug/L)							
Endnn Ketone	53494-70-5	---	---	< 0.016	< 0.016	< 0.016	NA
Alpha Chlordane	5103-71-9	---	---	< 0.0081	< 0.0081	< 0.0081	NA
Gamma Chlordane	5103-74-2	---	---	< 0.016	< 0.016	< 0.016	NA
Alpha BHC	319-84-6	---	---	< 0.0081	< 0.0081	< 0.0081	NA
Beta BHC	319-85-7	---	---	< 0.0081	< 0.0081	< 0.0081	NA
Gamma BHC-Lindane	58-89-9	---	---	< 0.0081	< 0.0081	< 0.0081	NA
Delta BHC	319-86-8	---	---	< 0.0081	< 0.0081	< 0.0081	NA
Heptachlor	76-44-8	0.00331	monitor	< 0.0081	< 0.0081	< 0.0081	NA
Aldnn	309-00-2	0.000884	monitor	< 0.0081	< 0.0081	< 0.0081	NA
Heptachlor Epoxide	1024-57-3	---	---	< 0.0081	< 0.0081	< 0.0081	NA
p,p-DDE	72-55-9	---	---	< 0.016	< 0.016	< 0.016	NA
p,p-DDD	72-54-8	---	---	< 0.016	< 0.016	< 0.016	NA
p,p-DDT	50-29-3	0.000227	monitor	< 0.016	< 0.016	< 0.016	NA
Dieldnn	60-57-1	---	---	< 0.016	< 0.016	< 0.016	NA
Endnn	72-20-8	---	---	< 0.016	< 0.016	< 0.016	NA
Toxaphene	8001-35-2	---	---	< 2.4	< 2.4	< 2.4	NA
Endosulfan II	33213-65-9	---	---	< 0.016	< 0.016	< 0.016	NA
Endosulfan I	959-98-8	---	---	< 0.0081	< 0.0081	< 0.0081	NA
Endosulfan Sulfate	1031-07-8	---	---	< 0.016	< 0.016	< 0.016	NA
Endnn Aldehyde	7421-93-4	---	---	< 0.081	< 0.081	< 0.081	NA
Methoxychlor	72-43-5	---	---	< 0.081	< 0.081	< 0.081	NA
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0.4	< 0.4	< 0.4	NA
PCB-1221	11104-28-2	---	---	< 0.4	< 0.4	< 0.4	NA
PCB-1232	11141-16-5	---	---	< 0.4	< 0.4	< 0.4	NA
PCB-1242	53469-21-9	---	---	< 0.4	< 0.4	< 0.4	NA
PCB-1248	12672-29-6	---	---	< 0.4	< 0.4	< 0.4	NA
PCB-1254	11097-69-1	---	---	< 0.4	< 0.4	< 0.4	NA
PCB-1260	11096-82-5	---	---	< 0.4	< 0.4	< 0.4	NA
TOTAL PCBs		0.000967	monitor	0	0	0	NA

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit		April-13	May-13	June-13	July-13
		Discharge Limits		4/24/2013	5/20/2013	6/13/2013	7/1/2013
		30 Day Avg	Daily Max				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 1	< 1	< 1	NA
2-Methylnaphthalene	91-57-6	---	---	< 0.5	< 0.5	< 0.5	NA
2-Nitroaniline	88-74-4	---	---	< 1	< 1	< 1	NA
2,4,5-Trichlorophenol	95-95-4	---	---	< 1	< 1	< 1	NA
2-Chlorophenol	95-57-8	---	---	< 1	< 1	< 1	NA
Phenol	108-95-2	monitor	monitor	< 1	< 1	< 1	NA
2-Nitrophenol	88-75-5	---	---	< 1	< 1	< 1	NA
2,4-Dimethylphenol	105-67-9	---	---	< 1	< 1	< 1	NA
2,4-Dichlorophenol	120-83-2	---	---	< 1	< 1	< 1	NA
4-Chloro-3-methylphenol	59-50-7	---	---	< 1	< 1	< 1	NA
2,4,6-Trichlorophenol	88-06-2	---	---	< 1	< 1	< 1	NA
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 1	< 1	< 1	NA
1,3-Dichlorobenzene	541-73-1	---	---	< 1	< 1	< 1	NA
1,4-Dichlorobenzene	106-46-7	---	---	< 1	< 1	< 1	NA
1,2-Dichlorobenzene	95-50-1	---	---	< 1	< 1	< 1	NA
Hexachloroethane	67-72-1	---	---	< 5	< 5	< 5	NA
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 1	< 1	< 1	NA
Nitrobenzene	98-95-3	---	---	< 1	< 1	< 1	NA
Isophorone	78-59-1	---	---	< 1	< 1	< 1	NA
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 1	< 1	< 1	NA
1,2,4-Trichlorobenzene	120-82-1	---	---	< 1	< 1	< 1	NA
Hexachlorobutadiene	87-68-3	---	---	< 1	< 1	< 1	NA
Hexachlorocyclopentadiene	77-47-4	---	---	< 15	< 15	< 15	NA
2-Chloronaphthalene	91-58-7	---	---	< 1	< 1	< 1	NA
Dimethylphthalate	131-11-3	monitor	monitor	< 5	< 5	< 5	NA
2-methylphenol	95-48-7	---	---	< 1	< 1	< 1	NA
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 1	< 1	< 1	NA
4-methylphenol (total)	106-44-5	monitor	140	< 1	< 1	< 1	NA
Dibenzofuran	132-64-9	---	---	< 1	< 1	< 1	NA
3-Nitroaniline	99-09-2	---	---	< 1	< 1	< 1	NA
4-Nitroaniline	100-01-6	---	---	< 1	< 1	< 1	NA
2,4-Dinitrophenol	51-28-5	---	---	< 30	< 30	< 30	NA
4-Nitrophenol	100-02-7	---	---	< 30	< 30	< 30	NA
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 15	< 15	< 15	NA
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	< 5	< 5	NA
2,6-Dinitrotoluene	606-20-2	---	---	< 1	< 1	< 1	NA
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5	< 5	NA
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 1	< 1	< 1	NA
Diethylphthalate	84-66-2	monitor	2600	< 5	< 5	< 5	NA
N-nitrosodiphenylamine	86-30-6	---	---	< 1	< 1	< 1	NA
4-Bromophenyl-phenylether	101-55-3	---	---	< 1	< 1	< 1	NA
Hexachlorobenzene	118-74-1	---	---	< 0.5	< 0.5	< 0.5	NA
di-n-butylphthalate	84-74-2	monitor	350	< 5	< 5	< 5	NA
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5	< 5	NA
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	< 5	< 5	NA
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5	< 5	NA
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5	< 5	NA
Carbazole	86-74-8	---	---	< 1	< 1	< 1	NA

**Attachment A 2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		April-13 4/24/2013	May-13 5/20/2013	June-13 6/13/2013	July-13 7/1/2013
		Discharge Limits					
		30 Day Avg	Daily Max.				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 0.5	< 0.5	< 0.5	NA
Acenaphthylene	208-96-8	---	---	< 0.5	< 0.5	< 0.5	NA
Anthracene	120-12-7	---	---	< 0.5	< 0.5	< 0.5	NA
Fluorene	86-73-7	---	---	< 0.5	< 0.5	< 0.5	NA
Phenanthrene	85-01-8	---	---	< 0.5	< 0.5	< 0.5	NA
Acenaphthene	83-32-9	monitor	67	< 0.5	< 0.5	< 0.5	NA
Benzo (a) pyrene	50-32-8	---	---	< 0.5	< 0.5	< 0.5	NA
Chrysene	218-01-9	---	---	< 0.5	< 0.5	< 0.5	NA
Fluoranthene	206-44-0	66	200	< 0.5	< 0.5	< 0.5	NA
Pyrene	129-00-0	---	---	< 0.5	< 0.5	< 0.5	NA
Benzo (a) anthracene	56-55-3	---	---	< 0.5	< 0.5	< 0.5	NA
Benzo (k) flouranthene	207-08-9	---	---	< 0.5	< 0.5	< 0.5	NA
Benzo (g,h,i) perylene	191-24-2	---	---	< 0.5	< 0.5	< 0.5	NA
Dibenz (a,h) anthracene	53-70-3	---	---	< 0.5	< 0.5	< 0.5	NA
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 0.5	< 0.5	< 0.5	NA
Benzo (b) flouranthene	205-99-2	---	---	< 0.5	< 0.5	< 0.5	NA
Total PAHs		0.376	monitor	0	0	0	NA
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 5	< 5	< 5	NA
Vinyl Chloride	75-01-4	---	---	< 5	< 5	< 5	NA
Bromomethane	74-83-9	---	---	< 5	< 5	< 5	NA
Chloroethane	75-00-3	---	---	< 5	< 5	< 5	NA
1,1-Dichloroethene	75-35-4	---	---	< 5	< 5	< 5	NA
Methylene Chloride	75-09-2	---	---	< 5	< 5	< 5	NA
Trans-1,2-Dichloroethene	156-60-5	---	---	< 5	< 5	< 5	NA
1,1-Dichloroethane	75-34-3	---	---	< 5	< 5	< 5	NA
cis-1,2-Dichloroethene	156-59-2	---	---	< 5	< 5	< 5	NA
Chloroform	67-66-3	---	---	< 5	< 5	< 5	NA
1,1,1-Trichloroethane	71-55-6	---	---	< 5	< 5	< 5	NA
Carbon Tetrachloride	56-23-5	---	---	< 5	< 5	< 5	NA
Benzene	71-43-2	57	134	< 5	< 5	< 5	NA
1,2-Dichloroethane	107-06-2	180	574	< 5	< 5	< 5	NA
Trichloroethene	79-01-6	---	---	< 5	< 5	< 5	NA
1,2-Dichloropropane	78-87-5	---	---	< 5	< 5	< 5	NA
Bromodichloromethane	75-27-4	---	---	< 5	< 5	< 5	NA
Toluene	108-88-3	28	74	< 5	< 5	< 5	NA
1,1,2-Trichloroethane	79-00-5	---	---	< 5	< 5	< 5	NA
Tetrachloroethene	127-18-4	52	164	< 5	< 5	< 5	NA
Dibromochloromethane	124-48-1	---	---	< 5	< 5	< 5	NA
Chlorobenzene	108-90-7	---	---	< 5	< 5	< 5	NA
Ethylbenzene	100-41-4	142	380	< 5	< 5	< 5	NA
Styrene	100-42-5	monitor	1300	< 5	< 5	< 5	NA
Bromoform	75-25-2	---	---	< 5	< 5	< 5	NA
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 5	< 5	< 5	NA
Acetone (total)	67-64-1	monitor	550	< 20	< 20	< 20	NA
Carbon Disulfide	75-15-0	---	---	< 5	< 5	< 5	NA
2-Butanone	78-93-3	---	---	< 10	< 10	< 10	NA
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 5	< 5	< 5	NA
cis-1,3-Dichloropropene	10061-01-5	---	---	< 5	< 5	< 5	NA
4-Methyl-2-pentanone	108-10-1	---	---	< 10	< 10	< 10	NA
2-Hexanone	591-78-6	---	---	< 10	< 10	< 10	NA
Total Xylene	1330-20-7	---	---	< 5	< 5	< 5	NA

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit Discharge Limits		March-13	April-13	May-13	June-13
		30 Day Avg	Daily Max.	3/19/2013	4/24/2013	5/20/2013	6/13/2013
Metals (mg/L)							
Mercury	7439-97-6	0.000013	0.0011	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Antimony	7440-36-0	monitor	monitor	< 0.02	< 0.02	< 0.02	< 0.02
Chromium	7440-47-3	0.119	2.6	< 0.015	< 0.015	< 0.015	< 0.015
Copper	7440-50-8	monitor	0.027	0.013	0.0134	0.0159	0.0171
Lead	7439-92-1	0.121	0.23	< 0.015	< 0.015	< 0.015	< 0.015
Nickel	7440-02-0	0.24	2.3	0.0048	0.0058	0.006	0.007
Zinc	7440-66-6	monitor	0.17	0.0869	0.0951	0.0845	0.0661
Arsenic	7440-38-2	0.122	0.36	< 0.02	< 0.02	< 0.02	< 0.02
Beryllium	7440-41-7	0.00142	1	< 0.005	< 0.005	< 0.005	< 0.005
Cadmium	7440-43-9	monitor	0.0089	< 0.005	< 0.005	< 0.005	< 0.005
Silver	7440-22-4	monitor	0.0034	< 0.005	< 0.005	< 0.005	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	< 0.01	< 0.01	< 0.01	< 0.01
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6.5	9	7.7	7.4	7.5	8
TSS	TSS	30	45	< 12	< 12	< 3.96	< 3
Ammonia Nitrogen	7664-41-7	monitor	monitor	2.4	< 0.6	0.67	7
Oil & Grease (total)	O&G	10	10	< 5	< 5	< 5	3.6
BOD	BOD	monitor	monitor	< 4.4	< 4.4	9.2	< 3.2
Pesticides (ug/L)							
Endrin Ketone	53494-70-5	---	---	< 0.016	< 0.016	< 0.016	< 0.016
Alpha Chlordane	5103-71-9	---	---	< 0.0081	< 0.0081	< 0.0081	< 0.0082
Gamma Chlordane	5103-74-2	---	---	< 0.016	< 0.016	< 0.016	< 0.016
Alpha BHC	319-84-6	---	---	< 0.0081	< 0.0081	< 0.0081	< 0.0082
Beta BHC	319-85-7	---	---	< 0.0081	< 0.0081	< 0.0081	< 0.0082
Gamma BHC-Lindane	58-89-9	---	---	< 0.0081	< 0.0081	< 0.0081	< 0.0082
Delta BHC	319-86-8	---	---	< 0.0081	< 0.0081	< 0.0081	< 0.0082
Heptachlor	76-44-8	0.00331	monitor	< 0.0081	< 0.0081	< 0.0081	< 0.0082
Aldrin	309-00-2	0.000884	monitor	< 0.0081	< 0.0081	< 0.0081	< 0.0082
Heptachlor Epoxide	1024-57-3	---	---	< 0.0081	< 0.0081	< 0.0081	< 0.0082
p,p-DDE	72-55-9	---	---	< 0.016	< 0.016	< 0.016	< 0.016
p,p-DDD	72-54-8	---	---	< 0.016	< 0.016	< 0.016	< 0.016
p,p-DDT	50-29-3	0.000227	monitor	< 0.016	< 0.016	< 0.016	< 0.016
Dieldrin	60-57-1	---	---	< 0.016	< 0.016	< 0.016	< 0.016
Endrin	72-20-8	---	---	< 0.016	< 0.016	< 0.016	< 0.016
Toxaphene	8001-35-2	---	---	< 2.4	< 2.4	< 2.4	< 2.5
Endosulfan II	33213-65-9	---	---	< 0.016	< 0.016	< 0.016	< 0.016
Endosulfan I	959-98-8	---	---	< 0.0081	< 0.0081	< 0.0081	< 0.0082
Endosulfan Sulfate	1031-07-8	---	---	< 0.016	< 0.016	< 0.016	< 0.016
Endrin Aldehyde	7421-93-4	---	---	< 0.081	< 0.081	< 0.081	< 0.082
Methoxychlor	72-43-5	---	---	< 0.081	< 0.081	< 0.081	< 0.082
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0.4	< 0.4	< 0.4	< 0.41
PCB-1221	11104-28-2	---	---	< 0.4	< 0.4	< 0.4	< 0.41
PCB-1232	11141-16-5	---	---	< 0.4	< 0.4	< 0.4	< 0.41
PCB-1242	53469-21-9	---	---	< 0.4	< 0.4	< 0.4	< 0.41
PCB-1248	12672-29-6	---	---	< 0.4	< 0.4	< 0.4	< 0.41
PCB-1254	11097-69-1	---	---	< 0.4	< 0.4	< 0.4	< 0.41
PCB-1260	11096-82-5	---	---	< 0.4	< 0.4	< 0.4	< 0.41
TOTAL PCBs		0.000967	monitor	0	0	0	0

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit		March-13 3/19/2013	April-13 4/24/2013	May-13 5/20/2013	June-13 6/13/2013
		Discharge Limits					
		30 Day Avg	Daily Max.				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 1	< 1	< 1	< 1
2-Methylnaphthalene	91-57-6	---	---	< 0.5	< 0.5	< 0.5	< 0.5
2-Nitroaniline	88-74-4	---	---	< 1	< 1	< 1	< 1
2,4,5-Trichlorophenol	95-95-4	---	---	< 1	< 1	< 1	< 1
2-Chlorophenol	95-57-8	---	---	< 1	< 1	< 1	< 1
Phenol	108-95-2	monitor	monitor	< 1	< 1	< 1	< 1
2-Nitrophenol	88-75-5	---	---	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	105-67-9	---	---	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	120-83-2	---	---	< 1	< 1	< 1	< 1
4-Chloro-3-methylphenol	59-50-7	---	---	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	88-06-2	---	---	< 1	< 1	< 1	< 1
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	541-73-1	---	---	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	106-46-7	---	---	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	95-50-1	---	---	< 1	< 1	< 1	< 1
Hexachloroethane	67-72-1	---	---	< 5	< 5	< 5	< 5
N-Nitroso-d-n-propylamine	621-64-7	---	---	< 1	< 1	< 1	< 1
Nitrobenzene	98-95-3	---	---	< 1	< 1	< 1	< 1
Isophorone	78-59-1	---	---	< 1	< 1	< 1	< 1
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	120-82-1	---	---	< 1	< 1	< 1	< 1
Hexachlorobutadiene	87-68-3	---	---	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	77-47-4	---	---	< 15	< 15	< 15	< 15
2-Chloronaphthalene	91-58-7	---	---	< 1	< 1	< 1	< 1
Dimethylphthalate	131-11-3	monitor	monitor	< 5	< 5	< 5	< 5
2-methylphenol	95-48-7	---	---	< 1	< 1	< 1	< 1
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 1	< 1	< 1	< 1
4-methylphenol (total)	106-44-5	monitor	140	< 1	< 1	< 1	< 1
Dibenzofuran	132-64-9	---	---	< 1	< 1	< 1	< 1
3-Nitroaniline	99-09-2	---	---	< 1	< 1	< 1	< 1
4-Nitroaniline	100-01-6	---	---	< 1	< 1	< 1	< 1
2,4-Dinitrophenol	51-28-5	---	---	< 30	< 30	< 30	< 31
4-Nitrophenol	100-02-7	---	---	< 30	< 30	< 30	< 31
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 15	< 15	< 15	< 15
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	< 5	< 5	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 1	< 1	< 1	< 1
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5	< 5	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 1	< 1	< 1	< 1
Diethylphthalate	84-66-2	monitor	2600	< 5	< 5	< 5	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 1	< 1	< 1	< 1
4-Bromophenyl-phenylether	101-55-3	---	---	< 1	< 1	< 1	< 1
Hexachlorobenzene	118-74-1	---	---	< 0.5	< 0.5	< 0.5	< 0.5
d-n-butylphthalate	84-74-2	monitor	350	< 5	< 5	< 5	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5	< 5	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	< 5	< 5	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5	< 5	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5	< 5	< 5
Carbazole	86-74-8	---	---	< 1	< 1	< 1	< 1

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit Discharge Limits		March-13	April-13	May-13	June-13
		30 Day Avg	Daily Max	3/19/2013	4/24/2013	5/20/2013	6/13/2013
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	208-96-8	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	120-12-7	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	86-73-7	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	85-01-8	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthene	83-32-9	monitor	67	< 0.5	< 0.5	< 0.5	< 0.5
Benzo (a) pyrene	50-32-8	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	218-01-9	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	206-44-0	66	200	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	129-00-0	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Benzo (a) anthracene	56-55-3	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Benzo (k) flouranthene	207-08-9	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Benzo (g,h,i) perylene	191-24-2	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz (a,h) anthracene	53-70-3	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Benzo (b) flouranthene	205-99-2	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Total PAHs		0.376	monitor	0	0	0	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 5	< 5	< 5	< 5
Vinyl Chloride	75-01-4	---	---	< 5	< 5	< 5	< 5
Bromomethane	74-83-9	---	---	< 5	< 5	< 5	< 5
Chloroethane	75-00-3	---	---	< 5	< 5	< 5	< 5
1,1-Dichloroethene	75-35-4	---	---	< 5	< 5	< 5	< 5
Methylene Chloride	75-09-2	---	---	< 5	< 5	< 5	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 5	< 5	< 5	< 5
1,1-Dichloroethane	75-34-3	---	---	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	156-59-2	---	---	< 5	< 5	< 5	< 5
Chloroform	67-66-3	---	---	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane	71-55-6	---	---	< 5	< 5	< 5	< 5
Carbon Tetrachloride	56-23-5	---	---	< 5	< 5	< 5	< 5
Benzene	71-43-2	57	134	< 5	< 5	< 5	< 5
1,2-Dichloroethane	107-06-2	180	574	< 5	< 5	< 5	< 5
Trichloroethene	79-01-6	---	---	< 5	< 5	< 5	< 5
1,2-Dichloropropane	78-87-5	---	---	< 5	< 5	< 5	< 5
Bromodichloromethane	75-27-4	---	---	< 5	< 5	< 5	< 5
Toluene	108-88-3	28	74	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	79-00-5	---	---	< 5	< 5	< 5	< 5
Tetrachloroethene	127-18-4	52	164	< 5	< 5	< 5	< 5
Dibromochloromethane	124-48-1	---	---	< 5	< 5	< 5	< 5
Chlorobenzene	108-90-7	---	---	< 5	< 5	< 5	< 5
Ethylbenzene	100-41-4	142	380	< 5	< 5	< 5	< 5
Styrene	100-42-5	monitor	1300	< 5	< 5	< 5	< 5
Bromoform	75-25-2	---	---	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 5	< 5	< 5	< 5
Acetone (total)	67-64-1	monitor	550	< 20	< 20	< 20	< 20
Carbon Disulfide	75-15-0	---	---	< 5	< 5	< 5	< 5
2-Butanone	78-93-3	---	---	< 10	< 10	< 10	< 10
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	10061-01-5	---	---	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone	108-10-1	---	---	< 10	< 10	< 10	< 10
2-Hexanone	591-78-6	---	---	< 10	< 10	< 10	< 10
Total Xylene	1330-20-7	---	---	< 5	< 5	< 5	< 5

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit		February-13 2/26/3013	March-13 3/19/3013	April-13 4/24/2013	May-13 5/20/2013
		Discharge Limits					
		30 Day Avg.	Daily Max.				
Metals (mg/L)							
Mercury	7439-97-6	0 000013	0.0011	0 000075 J	< 0 0002	< 0 0002	< 0 0002
Antimony	7440-36-0	monitor	monitor	< 0 02	< 0 02	< 0 02	< 0 02
Chromium	7440-47-3	0 119	2 6	< 0 015	< 0 015	< 0 015	< 0 015
Copper	7440-50-8	monitor	0.027	0 0137	0 013	0 0134	0 0159
Lead	7439-92-1	0.121	0 23	< 0 015	< 0 015	< 0 015	< 0 015
Nickel	7440-02-0	0 24	2 3	0 0043 J	0 0048 J	0 0058 J	0 006 J
Zinc	7440-66-6	monitor	0 17	0 0624	0 0869	0 0951	0 0845
Arsenic	7440-38-2	0.122	0 36	< 0 02	< 0 02	< 0 02	< 0 02
Beryllium	7440-41-7	0.00142	1	< 0 005	< 0 005	< 0 005	< 0 005
Cadmium	7440-43-9	monitor	0 0089	< 0 005	< 0 005	< 0 005	< 0 005
Silver	7440-22-4	monitor	0 0034	< 0 005	< 0 005	< 0 005	< 0 005
Cyanide (free)	57-12-5	monitor	0.046	< 0 01	< 0 01	< 0 01	< 0 01
Conventionals (mg/L)							
pH (Min and Max) (S U)	pH	6 5	9	7 5	7 7	7 4	7 5
TSS	TSS	30	45	< 12	< 12	< 12	< 3 96
Ammonia Nitrogen	7664-41-7	monitor	monitor	1 6	2 4	< 0 6	0 67
Oil & Grease (total)	O&G	10	10	2 6 J	< 5	< 5	< 5
BOD	BOD	monitor	monitor	< 3 6	< 4 4	< 4 4	9 2
Pesticides (ug/L)							
Endnn Ketone	53494-70-5	---	---	< 0 016	< 0 016	< 0 016	< 0 016
Alpha Chlordane	5103-71-9	---	---	< 0 0081	< 0 0081	< 0 0081	< 0 0081
Gamma Chlordane	5103-74-2	---	---	< 0 016	< 0 016	< 0 016	< 0 016
Alpha BHC	319-84-6	---	---	< 0 0081	< 0 0081	< 0 0081	< 0 0081
Beta BHC	319-85-7	---	---	< 0 0081	< 0 0081	< 0 0081	< 0 0081
Gamma BHC-Lindane	58-89-9	---	---	< 0 0081	< 0 0081	< 0 0081	< 0 0081
Delta BHC	319-86-8	---	---	< 0 0081	< 0 0081	< 0 0081	< 0 0081
Heptachlor	76-44-8	0 00331	monitor	< 0 0081	< 0 0081	< 0 0081	< 0 0081
Aldnn	309-00-2	0.000884	monitor	< 0 0081	< 0 0081	< 0 0081	< 0 0081
Heptachlor Epoxide	1024-57-3	---	---	< 0 0081	< 0 0081	< 0 0081	< 0 0081
p,p-DDE	72-55-9	---	---	< 0 016	< 0 016	< 0 016	< 0 016
p,p-DDD	72-54-8	---	---	< 0 016	< 0 016	< 0 016	< 0 016
p,p-DDT	50-29-3	0.000227	monitor	< 0 016	< 0 016	< 0 016	< 0 016
Dieldnn	60-57-1	---	---	< 0 016	< 0 016	< 0 016	< 0 016
Endnn	72-20-8	---	---	< 0 016	< 0 016	< 0 016	< 0 016
Toxaphene	8001-35-2	---	---	< 2 4	< 2 4	< 2 4	< 2 4
Endosulfan II	33213-65-9	---	---	< 0 016	< 0 016	< 0 016	< 0 016
Endosulfan I	959-98-8	---	---	< 0 0081	< 0 0081	< 0 0081	< 0 0081
Endosulfan Sulfate	1031-07-8	---	---	< 0 016	< 0 016	< 0 016	< 0 016
Endnn Aldehyde	7421-93-4	---	---	< 0 081	< 0 081	< 0 081	< 0 081
Methoxychlor	72-43-5	---	---	< 0 081	< 0 081	< 0 081	< 0 081
PCBs (ug/L)							
PCB-1016	12674-11-2	---	---	< 0 4	< 0 4	< 0 4	< 0 4
PCB-1221	11104-28-2	---	---	< 0 4	< 0 4	< 0 4	< 0 4
PCB-1232	11141-16-5	---	---	< 0 4	< 0 4	< 0 4	< 0 4
PCB-1242	53469-21-9	---	---	< 0 4	< 0 4	< 0 4	< 0 4
PCB-1248	12672-29-6	---	---	< 0 4	< 0 4	< 0 4	< 0 4
PCB-1254	11097-69-1	---	---	< 0 4	< 0 4	< 0 4	< 0 4
PCB-1260	11096-82-5	---	---	< 0 4	< 0 4	< 0 4	< 0 4
TOTAL PCBs		0 000967	monitor	0	0	0	0

**Attachment A 2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		February-13 2/26/3013	March-13 3/19/3013	April-13 4/24/2013	May-13 5/20/2013
		Discharge Limits					
		30 Day Avg.	Daily Max.				
Semi-VOCs (ug/L)							
4-Chloroaniline	106-47-8	---	---	< 1	< 1	< 1	< 1
2-Methylnaphthalene	91-57-6	---	---	< 0.5	< 0.5	< 0.5	< 0.5
2-Nitroaniline	88-74-4	---	---	< 1	< 1	< 1	< 1
2,4,5-Trichlorophenol	95-95-4	---	---	< 1	< 1	< 1	< 1
2-Chlorophenol	95-57-8	---	---	< 1	< 1	< 1	< 1
Phenol	108-95-2	monitor	monitor	< 1	< 1	< 1	< 1
2-Nitrophenol	88-75-5	---	---	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	105-67-9	---	---	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	120-83-2	---	---	< 1	< 1	< 1	< 1
4-Chloro-3-methylphenol	59-50-7	---	---	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	88-06-2	---	---	< 1	< 1	< 1	< 1
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	541-73-1	---	---	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	106-46-7	---	---	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	95-50-1	---	---	< 1	< 1	< 1	< 1
Hexachloroethane	67-72-1	---	---	< 5	< 5	< 5	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 1	< 1	< 1	< 1
Nitrobenzene	98-95-3	---	---	< 1	< 1	< 1	< 1
Isophorone	78-59-1	---	---	< 1	< 1	< 1	< 1
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	120-82-1	---	---	< 1	< 1	< 1	< 1
Hexachlorobutadiene	87-68-3	---	---	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	77-47-4	---	---	< 15	< 15	< 15	< 15
2-Chloronaphthalene	91-58-7	---	---	< 1	< 1	< 1	< 1
Dimethylphthalate	131-11-3	monitor	monitor	< 5	< 5	< 5	< 5
2-methylphenol	95-48-7	---	---	< 1	< 1	< 1	< 1
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 1	< 1	< 1	< 1
4-methylphenol (total)	106-44-5	monitor	140	< 1	< 1	< 1	< 1
Dibenzofuran	132-64-9	---	---	< 1	< 1	< 1	< 1
3-Nitroaniline	99-09-2	---	---	< 1	< 1	< 1	< 1
4-Nitroaniline	100-01-6	---	---	< 1	< 1	< 1	< 1
2,4-Dinitrophenol	51-28-5	---	---	< 30	< 30	< 30	< 30
4-Nitrophenol	100-02-7	---	---	< 30	< 30	< 30	< 30
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 15	< 15	< 15	< 15
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	< 5	< 5	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 1	< 1	< 1	< 1
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5	< 5	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 1	< 1	< 1	< 1
Diethylphthalate	84-66-2	monitor	2600	< 5	< 5	< 5	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 1	< 1	< 1	< 1
4-Bromophenyl-phenylether	101-55-3	---	---	< 1	< 1	< 1	< 1
Hexachlorobenzene	118-74-1	---	---	< 0.5	< 0.5	< 0.5	< 0.5
di-n-butylphthalate	84-74-2	monitor	350	< 5	< 5	< 5	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5	< 5	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	< 5	< 5	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5	< 5	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5	< 5	< 5
Carbazole	86-74-8	---	---	< 1	< 1	< 1	< 1

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit		February-13 2/26/3013	March-13 3/19/3013	April-13 4/24/2013	May-13 5/20/2013
		Discharge Limits					
		30 Day Avg	Daily Max				
PAHs (ug/L)							
Naphthalene	91-20-3	monitor	160	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	208-96-8	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	120-12-7	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	86-73-7	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	85-01-8	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthene	83-32-9	monitor	67	< 0.5	< 0.5	< 0.5	< 0.5
Benzo (a) pyrene	50-32-8	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	218-01-9	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	206-44-0	66	200	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	129-00-0	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Benzo (a) anthracene	56-55-3	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Benzo (k) flouranthene	207-08-9	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Benzo (g,h,i) perylene	191-24-2	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz (a,h) anthracene	53-70-3	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Benzo (b) flouranthene	205-99-2	---	---	< 0.5	< 0.5	< 0.5	< 0.5
Total PAHs		0.376	monitor	0	0	0	0
VOCs (ug/L)							
Chloromethane	74-87-3	---	---	< 5	< 5	< 5	< 5
Vinyl Chloride	75-01-4	---	---	< 5	< 5	< 5	< 5
Bromomethane	74-83-9	---	---	< 5	< 5	< 5	< 5
Chloroethane	75-00-3	---	---	< 5	< 5	< 5	< 5
1,1-Dichloroethene	75-35-4	---	---	< 5	< 5	< 5	< 5
Methylene Chloride	75-09-2	---	---	< 5	< 5	< 5	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 5	< 5	< 5	< 5
1,1-Dichloroethane	75-34-3	---	---	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	156-59-2	---	---	< 5	< 5	< 5	< 5
Chloroform	67-66-3	---	---	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane	71-55-6	---	---	< 5	< 5	< 5	< 5
Carbon Tetrachloride	56-23-5	---	---	< 5	< 5	< 5	< 5
Benzene	71-43-2	57	134	< 5	< 5	< 5	< 5
1,2-Dichloroethane	107-06-2	180	574	< 5	< 5	< 5	< 5
Trichloroethene	79-01-6	---	---	< 5	< 5	< 5	< 5
1,2-Dichloropropane	78-87-5	---	---	< 5	< 5	< 5	< 5
Bromodichloromethane	75-27-4	---	---	< 5	< 5	< 5	< 5
Toluene	108-88-3	28	74	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	79-00-5	---	---	< 5	< 5	< 5	< 5
Tetrachloroethene	127-18-4	52	164	< 5	< 5	< 5	< 5
Dibromochloromethane	124-48-1	---	---	< 5	< 5	< 5	< 5
Chlorobenzene	108-90-7	---	---	< 5	< 5	< 5	< 5
Ethylbenzene	100-41-4	142	380	< 5	< 5	< 5	< 5
Styrene	100-42-5	monitor	1300	< 5	< 5	< 5	< 5
Bromoform	75-25-2	---	---	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 5	< 5	< 5	< 5
Acetone (total)	67-64-1	monitor	550	< 20	< 20	< 20	< 20
Carbon Disulfide	75-15-0	---	---	< 5	< 5	< 5	< 5
2-Butanone	78-93-3	---	---	< 10	< 10	< 10	< 10
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	10061-01-5	---	---	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone	108-10-1	---	---	< 10	< 10	< 10	< 10
2-Hexanone	591-78-6	---	---	< 10	< 10	< 10	< 10
Total Xylene	1330-20-7	---	---	< 5	< 5	< 5	< 5

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit Discharge Limits		February-13	March-13	April-13
		30 Day Avg.	Daily Max	2/26/3013	3/19/3013	4/24/2013
Metals (mg/L)						
Mercury	7439-97-6	0.000013	0.0011	0.000075 J	< 0.0002	< 0.0002
Antimony	7440-36-0	monitor	monitor	< 0.02	< 0.02	< 0.02
Chromium	7440-47-3	0.119	2.6	< 0.015	< 0.015	< 0.015
Copper	7440-50-8	monitor	0.027	0.0137	0.013	0.0134
Lead	7439-92-1	0.121	0.23	< 0.015	< 0.015	< 0.015
Nickel	7440-02-0	0.24	2.3	0.0043 J	0.0048 J	0.0058 J
Zinc	7440-66-6	monitor	0.17	0.0624	0.0869	0.0951
Arsenic	7440-38-2	0.122	0.36	< 0.02	< 0.02	< 0.02
Beryllium	7440-41-7	0.00142	1	< 0.005	< 0.005	< 0.005
Cadmium	7440-43-9	monitor	0.0089	< 0.005	< 0.005	< 0.005
Silver	7440-22-4	monitor	0.0034	< 0.005	< 0.005	< 0.005
Cyanide (free)	57-12-5	monitor	0.046	< 0.01	< 0.01	< 0.01
Conventional (mg/L)						
pH (Min and Max) (S U)	pH	6.5	9	7.5	7.7	7.4
TSS	TSS	30	45	< 12	< 12	< 12
Ammonia Nitrogen	7664-41-7	monitor	monitor	1.6	2.4	< 0.6
Oil & Grease (total)	O&G	10	10	2.6 J	< 5	< 5
BOD	BOD	monitor	monitor	< 3.6	< 4.4	< 4.4
Pesticides (ug/L)						
Endrin Ketone	53494-70-5	---	---	< 0.016	< 0.016	< 0.016
Alpha Chlordane	5103-71-9	---	---	< 0.0081	< 0.0081	< 0.0081
Gamma Chlordane	5103-74-2	---	---	< 0.016	< 0.016	< 0.016
Alpha BHC	319-84-6	---	---	< 0.0081	< 0.0081	< 0.0081
Beta BHC	319-85-7	---	---	< 0.0081	< 0.0081	< 0.0081
Gamma BHC-Lindane	58-89-9	---	---	< 0.0081	< 0.0081	< 0.0081
Delta BHC	319-86-8	---	---	< 0.0081	< 0.0081	< 0.0081
Heptachlor	76-44-8	0.00331	monitor	< 0.0081	< 0.0081	< 0.0081
Aldrin	309-00-2	0.000884	monitor	< 0.0081	< 0.0081	< 0.0081
Heptachlor Epoxide	1024-57-3	---	---	< 0.0081	< 0.0081	< 0.0081
p,p-DDE	72-55-9	---	---	< 0.016	< 0.016	< 0.016
p,p-DDD	72-54-8	---	---	< 0.016	< 0.016	< 0.016
p,p-DDT	50-29-3	0.000227	monitor	< 0.016	< 0.016	< 0.016
Dieldrin	60-57-1	---	---	< 0.016	< 0.016	< 0.016
Endrin	72-20-8	---	---	< 0.016	< 0.016	< 0.016
Toxaphene	8001-35-2	---	---	< 2.4	< 2.4	< 2.4
Endosulfan II	33213-65-9	---	---	< 0.016	< 0.016	< 0.016
Endosulfan I	959-98-8	---	---	< 0.0081	< 0.0081	< 0.0081
Endosulfan Sulfate	1031-07-8	---	---	< 0.016	< 0.016	< 0.016
Endrin Aldehyde	7421-93-4	---	---	< 0.081	< 0.081	< 0.081
Methoxychlor	72-43-5	---	---	< 0.081	< 0.081	< 0.081
PCBs (ug/L)						
PCB-1016	12674-11-2	---	---	< 0.4	< 0.4	< 0.4
PCB-1221	11104-28-2	---	---	< 0.4	< 0.4	< 0.4
PCB-1232	11141-16-5	---	---	< 0.4	< 0.4	< 0.4
PCB-1242	53469-21-9	---	---	< 0.4	< 0.4	< 0.4
PCB-1248	12672-29-6	---	---	< 0.4	< 0.4	< 0.4
PCB-1254	11097-69-1	---	---	< 0.4	< 0.4	< 0.4
PCB-1260	11096-82-5	---	---	< 0.4	< 0.4	< 0.4
TOTAL PCBs		0.000967	monitor	0	0	0

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit		February-13 2/26/3013	March-13 3/19/3013	April-13 4/24/2013
		Discharge Limits				
		30 Day Avg	Daily Max.			
Semi-VOCs (ug/L)						
4-Chloroaniline	106-47-8	---	---	< 1	< 1	< 1
2-Methylnaphthalene	91-57-6	---	---	< 0.5	< 0.5	< 0.5
2-Nitroaniline	88-74-4	---	---	< 1	< 1	< 1
2,4,5-Trichlorophenol	95-95-4	---	---	< 1	< 1	< 1
2-Chlorophenol	95-57-8	---	---	< 1	< 1	< 1
Phenol	108-95-2	monitor	monitor	< 1	< 1	< 1
2-Nitrophenol	88-75-5	---	---	< 1	< 1	< 1
2,4-Dimethylphenol	105-67-9	---	---	< 1	< 1	< 1
2,4-Dichlorophenol	120-83-2	---	---	< 1	< 1	< 1
4-Chloro-3-methylphenol	59-50-7	---	---	< 1	< 1	< 1
2,4,6-Trichlorophenol	88-06-2	---	---	< 1	< 1	< 1
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 1	< 1	< 1
1,3-Dichlorobenzene	541-73-1	---	---	< 1	< 1	< 1
1,4-Dichlorobenzene	106-46-7	---	---	< 1	< 1	< 1
1,2-Dichlorobenzene	95-50-1	---	---	< 1	< 1	< 1
Hexachloroethane	67-72-1	---	---	< 5	< 5	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 1	< 1	< 1
Nitrobenzene	98-95-3	---	---	< 1	< 1	< 1
Isophorone	78-59-1	---	---	< 1	< 1	< 1
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 1	< 1	< 1
1,2,4-Trichlorobenzene	120-82-1	---	---	< 1	< 1	< 1
Hexachlorobutadiene	87-68-3	---	---	< 1	< 1	< 1
Hexachlorocyclopentadiene	77-47-4	---	---	< 15	< 15	< 15
2-Chloronaphthalene	91-58-7	---	---	< 1	< 1	< 1
Dimethylphthalate	131-11-3	monitor	monitor	< 5	< 5	< 5
2-methylphenol	95-48-7	---	---	< 1	< 1	< 1
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 1	< 1	< 1
4-methylphenol (total)	106-44-5	monitor	140	< 1	< 1	< 1
Dibenzofuran	132-64-9	---	---	< 1	< 1	< 1
3-Nitroaniline	99-09-2	---	---	< 1	< 1	< 1
4-Nitroaniline	100-01-6	---	---	< 1	< 1	< 1
2,4-Dinitrophenol	51-28-5	---	---	< 30	< 30	< 30
4-Nitrophenol	100-02-7	---	---	< 30	< 30	< 30
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 15	< 15	< 15
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	< 5	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 1	< 1	< 1
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 1	< 1	< 1
Diethylphthalate	84-66-2	monitor	2600	< 5	< 5	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 1	< 1	< 1
4-Bromophenyl-phenylether	101-55-3	---	---	< 1	< 1	< 1
Hexachlorobenzene	118-74-1	---	---	< 0.5	< 0.5	< 0.5
di-n-butylphthalate	84-74-2	monitor	350	< 5	< 5	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	< 5	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5	< 5
Carbazole	86-74-8	---	---	< 1	< 1	< 1

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No	Draft Permit		February-13 2/26/3013	March-13 3/19/3013	April-13 4/24/2013
		Discharge Limits				
		30 Day Avg.	Daily Max.			
PAHs (ug/L)						
Naphthalene	91-20-3	monitor	160	< 0.5	< 0.5	< 0.5
Acenaphthylene	208-96-8	---	---	< 0.5	< 0.5	< 0.5
Anthracene	120-12-7	---	---	< 0.5	< 0.5	< 0.5
Fluorene	86-73-7	---	---	< 0.5	< 0.5	< 0.5
Phenanthrene	85-01-8	---	---	< 0.5	< 0.5	< 0.5
Acenaphthene	83-32-9	monitor	67	< 0.5	< 0.5	< 0.5
Benzo (a) pyrene	50-32-8	---	---	< 0.5	< 0.5	< 0.5
Chrysene	218-01-9	---	---	< 0.5	< 0.5	< 0.5
Fluoranthene	206-44-0	66	200	< 0.5	< 0.5	< 0.5
Pyrene	129-00-0	---	---	< 0.5	< 0.5	< 0.5
Benzo (a) anthracene	56-55-3	---	---	< 0.5	< 0.5	< 0.5
Benzo (k) flouranthene	207-08-9	---	---	< 0.5	< 0.5	< 0.5
Benzo (g,h,i) perylene	191-24-2	---	---	< 0.5	< 0.5	< 0.5
Dibenz (a,h) anthracene	53-70-3	---	---	< 0.5	< 0.5	< 0.5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 0.5	< 0.5	< 0.5
Benzo (b) flouranthene	205-99-2	---	---	< 0.5	< 0.5	< 0.5
Total PAHs		0 376	monitor	0	0	0
VOCs (ug/L)						
Chloromethane	74-87-3	---	---	< 5	< 5	< 5
Vinyl Chloride	75-01-4	---	---	< 5	< 5	< 5
Bromomethane	74-83-9	---	---	< 5	< 5	< 5
Chloroethane	75-00-3	---	---	< 5	< 5	< 5
1,1-Dichloroethene	75-35-4	---	---	< 5	< 5	< 5
Methylene Chloride	75-09-2	---	---	< 5	< 5	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 5	< 5	< 5
1,1-Dichloroethane	75-34-3	---	---	< 5	< 5	< 5
cis-1,2-Dichloroethene	156-59-2	---	---	< 5	< 5	< 5
Chloroform	67-66-3	---	---	< 5	< 5	< 5
1,1,1-Trichloroethane	71-55-6	---	---	< 5	< 5	< 5
Carbon Tetrachloride	56-23-5	---	---	< 5	< 5	< 5
Benzene	71-43-2	57	134	< 5	< 5	< 5
1,2-Dichloroethane	107-06-2	180	574	< 5	< 5	< 5
Trichloroethene	79-01-6	---	---	< 5	< 5	< 5
1,2-Dichloropropane	78-87-5	---	---	< 5	< 5	< 5
Bromodichloromethane	75-27-4	---	---	< 5	< 5	< 5
Toluene	108-88-3	28	74	< 5	< 5	< 5
1,1,2-Trichloroethane	79-00-5	---	---	< 5	< 5	< 5
Tetrachloroethene	127-18-4	52	164	< 5	< 5	< 5
Dibromochloromethane	124-48-1	---	---	< 5	< 5	< 5
Chlorobenzene	108-90-7	---	---	< 5	< 5	< 5
Ethylbenzene	100-41-4	142	380	< 5	< 5	< 5
Styrene	100-42-5	monitor	1300	< 5	< 5	< 5
Bromoform	75-25-2	---	---	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 5	< 5	< 5
Acetone (total)	67-64-1	monitor	550	< 20	< 20	< 20
Carbon Disulfide	75-15-0	---	---	< 5	< 5	< 5
2-Butanone	78-93-3	---	---	< 10	< 10	< 10
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 5	< 5	< 5
cis-1,3-Dichloropropene	10061-01-5	---	---	< 5	< 5	< 5
4-Methyl-2-pentanone	108-10-1	---	---	< 10	< 10	< 10
2-Hexanone	591-78-6	---	---	< 10	< 10	< 10
Total Xylene	1330-20-7	---	---	< 5	< 5	< 5

Notes

--- Indicates no Established Effluent Criteria

NA - Not Analyzed

**Attachment A 2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		February-13	March-13
		Discharge Limits		2/26/3013	3/19/3013
		30 Day Avg.	Daily Max		
Metals (mg/L)					
Mercury	7439-97-6	0 000013	0 0011	0 000075 J	< 0 0002
Antimony	7440-36-0	monitor	monitor	< 0 02	< 0 02
Chromium	7440-47-3	0 119	2.6	< 0 015	< 0 015
Copper	7440-50-8	monitor	0 027	0 0137	0 013
Lead	7439-92-1	0 121	0 23	< 0 015	< 0 015
Nickel	7440-02-0	0.24	2.3	0 0043 J	0 0048 J
Zinc	7440-66-6	monitor	0 17	0 0624	0 0869
Arsenic	7440-38-2	0 122	0 36	< 0 02	< 0 02
Beryllium	7440-41-7	0 00142	1	< 0 005	< 0 005
Cadmium	7440-43-9	monitor	0 0089	< 0 005	< 0 005
Silver	7440-22-4	monitor	0 0034	< 0 005	< 0 005
Cyanide (free)	57-12-5	monitor	0.046	< 0 01	< 0 01
Conventionals (mg/L)					
pH (Min and Max) (S U)	pH	6 5	9	7 5	7 7
TSS	TSS	30	45	< 12	< 12
Ammonia Nitrogen	7664-41-7	monitor	monitor	1 6	2 4
Oil & Grease (total)	O&G	10	10	2 6 J	< 5
BOD	BOD	monitor	monitor	< 3 6	< 4 4
Pesticides (ug/L)					
Endnn Ketone	53494-70-5	---	---	< 0 016	< 0 016
Alpha Chlordane	5103-71-9	---	---	< 0 0081	< 0 0081
Gamma Chlordane	5103-74-2	---	---	< 0 016	< 0 016
Alpha BHC	319-84-6	---	---	< 0 0081	< 0 0081
Beta BHC	319-85-7	---	---	< 0 0081	< 0 0081
Gamma BHC-Lindane	58-89-9	---	---	< 0 0081	< 0 0081
Delta BHC	319-86-8	---	---	< 0 0081	< 0 0081
Heptachlor	76-44-8	0.00331	monitor	< 0 0081	< 0 0081
Aldnn	309-00-2	0 000884	monitor	< 0 0081	< 0 0081
Heptachlor Epoxide	1024-57-3	---	---	< 0 0081	< 0 0081
p,p-DDE	72-55-9	---	---	< 0 016	< 0 016
p,p-DDD	72-54-8	---	---	< 0 016	< 0 016
p,p-DDT	50-29-3	0 000227	monitor	< 0 016	< 0 016
Diendnn	60-57-1	---	---	< 0 016	< 0 016
Endnn	72-20-8	---	---	< 0 016	< 0 016
Toxaphene	8001-35-2	---	---	< 2 4	< 2 4
Endosulfan II	33213-65-9	---	---	< 0 016	< 0 016
Endosulfan I	959-98-8	---	---	< 0 0081	< 0 0081
Endosulfan Sulfate	1031-07-8	---	---	< 0 016	< 0 016
Endnn Aldehyde	7421-93-4	---	---	< 0 081	< 0 081
Methoxychlor	72-43-5	---	---	< 0 081	< 0 081
PCBs (ug/L)					
PCB-1016	12674-11-2	---	---	< 0 4	< 0 4
PCB-1221	11104-28-2	---	---	< 0 4	< 0 4
PCB-1232	11141-16-5	---	---	< 0 4	< 0 4
PCB-1242	53469-21-9	---	---	< 0 4	< 0 4
PCB-1248	12672-29-6	---	---	< 0 4	< 0 4
PCB-1254	11097-69-1	---	---	< 0 4	< 0 4
PCB-1260	11098-82-5	---	---	< 0 4	< 0 4
TOTAL PCBs		0.000967	monitor	0	0

Attachment A

2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio

Parameter	Cas No.	Draft Permit		February-13	March-13
		Discharge Limits		2/26/3013	3/19/3013
		30 Day Avg.	Daily Max.		
Semi-VOCs (ug/L)					
4-Chloroaniline	106-47-8	---	---	< 1	< 1
2-Methylnaphthalene	91-57-6	---	---	< 0.5	< 0.5
2-Nitroaniline	88-74-4	---	---	< 1	< 1
2,4,5-Trichlorophenol	95-95-4	---	---	< 1	< 1
2-Chlorophenol	95-57-8	---	---	< 1	< 1
Phenol	108-95-2	monitor	monitor	< 1	< 1
2-Nitrophenol	88-75-5	---	---	< 1	< 1
2,4-Dimethylphenol	105-67-9	---	---	< 1	< 1
2,4-Dichlorophenol	120-83-2	---	---	< 1	< 1
4-Chloro-3-methylphenol	59-50-7	---	---	< 1	< 1
2,4,6-Trichlorophenol	88-06-2	---	---	< 1	< 1
Bis (2-chloroethyl) ether	111-44-4	monitor	monitor	< 11	< 11
1,3-Dichlorobenzene	541-73-1	---	---	< 1	< 1
1,4-Dichlorobenzene	106-46-7	---	---	< 1	< 1
1,2-Dichlorobenzene	95-50-1	---	---	< 1	< 1
Hexachloroethane	67-72-1	---	---	< 5	< 5
N-Nitroso-di-n-propylamine	621-64-7	---	---	< 1	< 1
Nitrobenzene	98-95-3	---	---	< 1	< 1
Isophorone	78-59-1	---	---	< 1	< 1
Bis(2-Chloroethoxy)methane	111-91-1	---	---	< 1	< 1
1,2,4-Trichlorobenzene	120-82-1	---	---	< 1	< 1
Hexachlorobutadiene	87-68-3	---	---	< 1	< 1
Hexachlorocyclopentadiene	77-47-4	---	---	< 15	< 15
2-Chloronaphthalene	91-58-7	---	---	< 1	< 1
Dimethylphthalate	131-11-3	monitor	monitor	< 5	< 5
2-methylphenol	95-48-7	---	---	< 1	< 1
2,2'-oxybis(1-Chloropropane)	108-60-1	---	---	< 1	< 1
4-methylphenol (total)	106-44-5	monitor	140	< 1	< 1
Dibenzofuran	132-64-9	---	---	< 1	< 1
3-Nitroaniline	99-09-2	---	---	< 1	< 1
4-Nitroaniline	100-01-6	---	---	< 1	< 1
2,4-Dinitrophenol	51-28-5	---	---	< 30	< 30
4-Nitrophenol	100-02-7	---	---	< 30	< 30
4,6-Dinitro-2-methylphenol	534-52-1	---	---	< 15	< 15
Pentachlorophenol (total)	87-86-5	monitor	3.5	< 5	< 5
2,6-Dinitrotoluene	606-20-2	---	---	< 1	< 1
2,4-Dinitrotoluene	121-14-2	---	---	< 5	< 5
4-Chlorophenyl-phenylether	7005-72-3	---	---	< 1	< 1
Diethylphthalate	84-66-2	monitor	2600	< 5	< 5
N-nitrosodiphenylamine	86-30-6	---	---	< 1	< 1
4-Bromophenyl-phenylether	101-55-3	---	---	< 1	< 1
Hexachlorobenzene	118-74-1	---	---	< 0.5	< 0.5
di-n-butylphthalate	84-74-2	monitor	350	< 5	< 5
Butylbenzylphthalate	85-68-7	---	---	< 5	< 5
3,3'-Dichlorobenzidine	91-94-1	---	---	< 5	< 5
Bis (2-ethylhexyl) phthalate	117-81-7	72	1100	< 5	< 5
Di-n-octylphthalate	117-84-0	---	---	< 5	< 5
Carbazole	86-74-8	---	---	< 1	< 1

**Attachment A 2013 Effluent Sample Result Summary
Schilling Landfill, Ironton Ohio**

Parameter	Cas No	Draft Permit		February-13	March-13
		Discharge Limits		2/26/3013	3/19/3013
		30 Day Avg	Daily Max		
PAHs (ug/L)					
Naphthalene	91-20-3	monitor	160	< 0.5	< 0.5
Acenaphthylene	208-96-8	---	---	< 0.5	< 0.5
Anthracene	120-12-7	---	---	< 0.5	< 0.5
Fluorene	86-73-7	---	---	< 0.5	< 0.5
Phenanthrene	85-01-8	---	---	< 0.5	< 0.5
Acenaphthene	83-32-9	monitor	67	< 0.5	< 0.5
Benzo (a) pyrene	50-32-8	---	---	< 0.5	< 0.5
Chrysene	218-01-9	---	---	< 0.5	< 0.5
Fluoranthene	206-44-0	66	200	< 0.5	< 0.5
Pyrene	129-00-0	---	---	< 0.5	< 0.5
Benzo (a) anthracene	56-55-3	---	---	< 0.5	< 0.5
Benzo (k) flouranthene	207-08-9	---	---	< 0.5	< 0.5
Benzo (g,h,i) perylene	191-24-2	---	---	< 0.5	< 0.5
Dibenz (a,h) anthracene	53-70-3	---	---	< 0.5	< 0.5
Indeno (1,2,3-c,d)pyrene	193-39-5	---	---	< 0.5	< 0.5
Benzo (b) flouranthene	205-99-2	---	---	< 0.5	< 0.5
Total PAHs		0.376	monitor	0	0
VOCs (ug/L)					
Chloromethane	74-87-3	---	---	< 5	< 5
Vinyl Chloride	75-01-4	---	---	< 5	< 5
Bromomethane	74-83-9	---	---	< 5	< 5
Chloroethane	75-00-3	---	---	< 5	< 5
1,1-Dichloroethene	75-35-4	---	---	< 5	< 5
Methylene Chloride	75-09-2	---	---	< 5	< 5
Trans-1,2-Dichloroethene	156-60-5	---	---	< 5	< 5
1,1-Dichloroethane	75-34-3	---	---	< 5	< 5
cis-1,2-Dichloroethene	156-59-2	---	---	< 5	< 5
Chloroform	67-66-3	---	---	< 5	< 5
1,1,1-Trichloroethane	71-55-6	---	---	< 5	< 5
Carbon Tetrachloride	56-23-5	---	---	< 5	< 5
Benzene	71-43-2	57	134	< 5	< 5
1,2-Dichloroethane	107-06-2	180	574	< 5	< 5
Trichloroethene	79-01-6	---	---	< 5	< 5
1,2-Dichloropropane	78-87-5	---	---	< 5	< 5
Bromodichloromethane	75-27-4	---	---	< 5	< 5
Toluene	108-88-3	28	74	< 5	< 5
1,1,2-Trichloroethane	79-00-5	---	---	< 5	< 5
Tetrachloroethene	127-18-4	52	164	< 5	< 5
Dibromochloromethane	124-48-1	---	---	< 5	< 5
Chlorobenzene	108-90-7	---	---	< 5	< 5
Ethylbenzene	100-41-4	142	380	< 5	< 5
Styrene	100-42-5	monitor	1300	< 5	< 5
Bromoform	75-25-2	---	---	< 5	< 5
1,1,2,2-Tetrachloroethane	79-34-5	---	---	< 5	< 5
Acetone (total)	67-64-1	monitor	550	< 20	< 20
Carbon Disulfide	75-15-0	---	---	< 5	< 5
2-Butanone	78-93-3	---	---	< 10	< 10
Trans-1,3-Dichloropropene	10061-02-6	---	---	< 5	< 5
cis-1,3-Dichloropropene	10061-01-5	---	---	< 5	< 5
4-Methyl-2-pentanone	108-10-1	---	---	< 10	< 10
2-Hexanone	591-78-6	---	---	< 10	< 10
Total Xylene	1330-20-7	---	---	< 5	< 5

Notes
 --- Indicates no Established Effluent Criteria
 NA - Not Analyzed

TABLE 6

Summary of Soil Gas Sampling Results

Table 6 - Summary of Soil Gas Sampling Results
Schilling Landfill
Ironton, Ohio

Sample Point	Sample Date ^a	VOCs measured with PID (in ppmv) ^b	Lower Explosive Limit (%) ^c	O ₂ (%)	Carbon Monoxide (in ppm)	Hydrogen Sulfide (in ppm)	Observations
SVP-1	5/8/2013	1.7	0	17.8	165	0	Extracted vapor flow stopped after several minutes of pumping. Background PID readings of ambient air were recorded at 0.2 ppm.
SVP-1	5/30/2013		Unable to measure				Unable to establish vacuum to extract vapor.
SVP-1	11/26/2013		Unable to measure				Unable to establish vacuum to extract vapor.
SVP-1	5/29/2014		Unable to measure				Unable to establish vacuum to extract vapor.
SVP-2	5/8/2013	1.5	0	13.4	0	0	Consistent vapor flow which allowed for PID readings. Background ambient air PID readings were recorded at 0.2 ppm.
SVP-2	5/30/2013	0	0	16.4	0	0	Consistent vapor flow and PID readings.
SVP-2	11/26/2013	0	0	14.4	0	0	Consistent vapor flow and PID readings.
SVP-2	5/29/2014		Unable to measure				Unable to establish vacuum to extract vapor (recent heavy rainfall is suspected to have temporarily submerged SVP-2).
SVP-3	5/8/2013	0.2	0	20.9	2	0	Consistent vapor flow which allowed for PID readings. Background ambient air PID readings were recorded at 0.2 ppm.
SVP-3	5/30/2013		Unable to measure				No measurable vacuum due to moisture.
SVP-3	11/26/2013		Unable to measure				No measurable vacuum due to moisture.
SVP-3	5/29/2014		Unable to measure				No measurable vacuum due to moisture.

a - On 8/6/13, the three sample points were tested with a vacuum pump to determine whether they were producing consistent vapor flow. Only SVP-2 was observed to produce consistent vapor.

b - VOCs measured with PID (ppmv) = Volatile Organic Compounds (VOCs) measured with a Photo Ionization Detector (PID) which measures in parts per million by volume (ppmv).

c - The Lower Explosive Limit is sensitive to a range of gases including methane.

ATTACHMENTS

ATTACHMENT 1

Copy of Deed Restrictions

*Deed
Restriction
A*

APPENDIX IV

DEED RESTRICTIONS

E. H. Schilling & Son, General Contractors, Inc., owner in fee simple of the real estate described below, hereby imposes restrictions on the described real estate, also known as the E.H. Schilling & Son, General Contractors, Inc. landfill facility (the "Schilling Facility"), in Hamilton Township, Lawrence County, State of Ohio:

That property situated in Section 9, Township 1, Range 19, Hamilton Township, Lawrence County, Ohio and being a part of the E.H. Schilling & Sons, General Contractors, Inc. 15.08 acre tract as recorded in Volume 509, page 90 and also being a part of the Earl H. Schilling tract as recorded in Volume 418, page 179 of the Lawrence County Deed Records and being more particularly bound and described as follows:

Beginning at a railroad spike (found, September 1990) in the centerline of Winkler Hollow Road, said railroad spike being the westernmost corner of the aforementioned E.H. Schilling & Sons, General Contractors, Inc. tract,

Thence, following along the Westerly property line of said E.H. Schilling & Sons, General Contractors, Inc. tract North 36 degrees 34 minutes 01 seconds East, 231.55 feet to a railroad spike in the centerline of Winkler Hollow Road (found, September 1990),

Thence, South 84 degrees 40 minutes 39 seconds East, 383.03 feet to an iron pin (set, September 1990),

Thence, South 53 degrees 48 Minutes 04 seconds East, 261.26 feet to an iron pin (set, September 1990),

Thence, South 80 degrees 31 minutes 02 seconds East, 322.09 feet to an iron pin (set, September 1990),

Thence, North 57 degrees 40 minutes 56 seconds East, 206.35 feet to a chiseled "X" on rock in small drain (found, September 1990),

Thence, South 70 degrees 40 minutes 48 seconds East, 93.65 feet to an iron pin (set, September 1990),

Thence, South 43 degrees 57 minutes 21 seconds East, 254.25 feet to an iron pin (set, September 1990),

Thence, South 22 degrees 19 minutes 22 seconds East, 89.90 feet to an iron pin (set, September 1990),

Thence, South 15 degrees 51 minutes 37 seconds East, 118.72 feet to an iron pin (set, September 1990),

Thence, South 4 degrees 07 minutes 26 seconds West, 118.51 feet to an iron pin (found, September 1990),

Thence, South 57 degrees 55 minutes 34 seconds West, 54.43 feet to an iron pin (set, September 1990),

Thence, South 35 degrees 26 minutes 06 seconds West, 40.73 feet to an iron pin (set, September 1990),

Thence, South 51 degrees 56 minutes 17 seconds West, 88.76 feet to an iron pin (set, September 1990),

Thence, South 52 degrees 21 minutes 08 seconds West, 91.36 feet to an iron pin (set, September 1990),

Thence, North 71 degrees 10 minutes 00 seconds West, 63.16 feet to an iron pin (set, September 1990),

Thence, South 46 degrees 18 minutes 41 seconds West, 46.99 feet to an iron pin (set, September 1990),

Thence, North 42 degrees 40 minutes 56 seconds West, 76.63 feet to an iron pin (set, September 1990),

Thence, North 41 degrees 54 minutes 20 seconds West, 57.34 feet to an iron pin (set, September 1990),

Thence, North 60 degrees 16 minutes 26 seconds West, 78.39 feet to an iron pin (set, September 1990),

Thence, South 87 degrees 14 minutes 36 seconds West, 118.22 feet to an iron pin (set, September 1990),

Thence, North 76 degrees 11 minutes 25 seconds West, 130.02 feet to an iron pin (set, September 1990),

Thence, North 59 degrees 15 minutes 37 seconds West, 973.56 feet to the ORIGINAL POINT OF BEGINNING containing 15.317 acres, more or less of which 14.089 is out of the E.H. Schilling & Sons, General Contractors, Inc. tract as recorded in Volume 509 Page 90, 0.11 acre is out of 3.67 acre tract as recorded in 527, Page 241 and 1.118 acres is out of the Earl H. Schilling tract as recorded in Volume 418 Page 179.

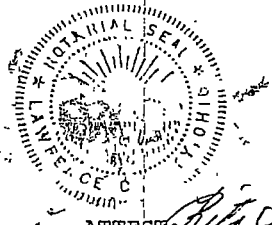
The following restrictions are imposed upon the Schilling Facility, its present and any future owners, their authorized agents, assigns, employees or persons acting under their direction or control, for the purposes of protecting public health and the environment, preventing interference with the performance of work and remedial action, and ensuring the maintenance of the remedial measures pursuant to the Consent Decree in United States v. E.H. Schilling & Son, General Contractors, Inc., et al., Civil Action no. C-1-90-705, approved by the United States District Court for the Southern District of Ohio on May 31, 1991 (the "Consent Decree"), and are required by paragraph 9 of the Consent Decree:

1. There shall be no consumptive or other use of the groundwater underlying the Schilling facility that could cause exposure of humans or animals to the groundwater underlying the Schilling facility;
2. There shall be no residential, commercial or agricultural use of the Schilling Facility, including but not limited to the construction, installation or use of any structures or buildings for residential, commercial or agricultural purposes;
3. There shall be no use of the Schilling Facility that would allow the continued presence of humans at the Schilling Facility, other than the presence necessary for implementation of remedial action under the Consent Decree. Prohibited uses which would allow the continued presence of humans at this particular real estate will include but not necessarily be limited to recreational or educational uses.
4. There shall be no installation, removal, construction or use of any buildings, wells, pipes, roads, ditches or any other structures at the Schilling Facility except as approved by the United States Environmental Protection Agency ("U.S. EPA") as consistent with the Consent Decree and the Scope of Work which is Appendix 2 to the Consent Decree.
5. There shall be no tampering with, or removal of, the containment or monitoring systems that remain on the

Schilling Facility as a result of implementation of remedial action or other work under the Consent Decree.

All of the above restrictions shall run with the land and continue in perpetuity.

IN WITNESS WHEREOF, Earl H. Schilling has caused these Deed Restrictions to be executed this 21st day of September, 1993.



E.H. Schilling & Son,
General Contractors, Inc.

By: [Signature]
President

ATTEST: [Signature]
My commission expires 2/27/95

This instrument prepared by Monica Smyth of the EPA Chicago office.

935291

STATE OF OHIO, LAWRENCE COUNTY
Presented for Record at 9:23 A.M.

SEP 22 1993

Recorded Sept 23 1993

in Vol 13 Page 9

STATE ANN DEEDS
RECORDED, LAWRENCE COUNTY, OHIO

22.00
4.00 MN
26.00

935291

Deed
Restriction
B

APPENDIX IV

DEED RESTRICTIONS

Earl H. Schilling, owner in fee simple of the real estate described below, hereby imposes restrictions on the real estate situated in Section 9, Township 1, Range 19, and being a part of lot 5 in Hamilton Township, Lawrence County, State of Ohio, except for:

That property situated in Section 9, Township 1, Range 19, Hamilton Township, Lawrence County, Ohio and being a part of the E.H. Schilling & Sons, General Contractors, Inc. 15.08 acre tract as recorded in Volume 509, page 90^v and also being a part of the Earl H. Schilling tract as recorded in Volume 418, page 179^v of the Lawrence County Deed Records and being more particularly bound and described as follows:

Beginning at a railroad spike (found, September 1990) in the centerline of Winkler Hollow Road, said railroad spike being the westernmost corner of the aforementioned E.H. Schilling & Sons, General Contractors, Inc. tract,

Thence, following along the Westerly property line of said E.H. Schilling & Sons, General Contractors, Inc. tract North 36 degrees 34 minutes 01 seconds East, 231.55 feet to a railroad spike in the centerline of Winkler Hollow Road (found, September 1990),

Thence, South 84 degrees 40 minutes 39 seconds East, 383.03 feet to an iron pin (set, September 1990),

Thence, South 53 degrees 48 Minutes 04 seconds East, 261.26 feet to an iron pin (set, September 1990),

Thence, South 80 degrees 31 minutes 02 seconds East, 322.09 feet to an iron pin (set, September 1990),

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Thence, South 70 degrees 40 minutes 48 seconds East, 93.65 feet to an iron pin (set, September 1990),

Thence, South 43 degrees 57 minutes 21 seconds East, 254.25 feet to an iron pin (set, September 1990),

Thence, South 22 degrees 19 minutes 22 seconds East, 89.90 feet to an iron pin (set, September 1990),

Thence, South 15 degrees 51 minutes 37 seconds East, 118.72 feet to an iron pin (set, September 1990),

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Thence, South 35 degrees 26 minutes 06 seconds West, 40.73 feet to an iron pin (set, September 1990),

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Thence, North 42 degrees 40 minutes 56 seconds West, 76.63 feet to an iron pin (set, September 1990),

Thence, North 41 degrees 54 minutes 20 seconds West, 57.34 feet to an iron pin (set, September 1990),

Thence, North 60 degrees 16 minutes 26 seconds West, 78.39 feet to an iron pin (set, September 1990),

Thence, South 87 degrees 14 minutes 36 seconds West, 118.22 feet to an iron pin (set, September 1990),

Thence, North 76 degrees 11 minutes 25 seconds West, 130.02 feet to an iron pin (set, September 1990),

Thence, North 59 degrees 15 minutes 37 seconds West, 973.56 feet to the ORIGINAL POINT OF BEGINNING containing 15.317 acres, more or less of which 14.089 acres is out of the E.H. Schilling & Sons, General Contractors, Inc. tract as recorded in Volume 509 Page 90, 0.11 acre is out of 3.67 acre tract as recorded in 527, Page 241 and 1.118 acres is out of the Earl H. Schilling tract as recorded in Volume 418 Page 179.

The following restrictions are imposed upon the above-described real estate, its present and any future owners, their authorized agents, assigns, employees and anyone acting under their direction or control, for the purposes of protecting public health and the environment, preventing interference with the performance of work and remedial action, and ensuring the maintenance of the remedial measures pursuant to the Consent Decree in United States v. E.H. Schilling & Son, General Contractors, Inc., et al., Civil Action no. C-1-90-705, approved by the United States District Court for the Southern District of Ohio on May 31, 1991 (the "Consent Decree"), and are required by paragraph 9 of the Consent Decree:

1. There shall be no tampering with, or removal of, the containment or monitoring systems that remain on the above-described real estate as a result of implementation of remedial action under the Consent Decree.
2. There shall be no other interference with the performance of work and remedial action, or with the maintenance of remedial measures implemented pursuant to the Consent Decree.

The above restrictions shall run with the land and continue in perpetuity.

IN WITNESS WHEREOF, Earl H. Schilling
has caused these Deed Restrictions to be executed this 21st day
of September, 1993.



ATTEST:

David L. Messer

My commission expires 2/27/95

Earl H. Schilling

By

Earl H. Schilling

*This instrument prepared by Monica Smyth of the
CPA Chicago office.*

935292

STATE OF OHIO, LAWRENCE COUNTY
Presented for Record at 9:27 AM

SEP 22 1993

Recorded Sept 23 19 93
in Mar. Rec 13 Page 13
SUE ANN DEEDS
RECORDED, LAWRENCE COUNTY, OHIO

22.00
4.00 MN

26.00

935292

ATTACHMENT 2

Site Inspection Checklist

Site Inspection Checklist

I. SITE INFORMATION			
Site name: <u>E. H. Schilling landfill</u>	Date of inspection: <u>5/10/17</u>		
Location and Region: <u>Lawrence Co. Ohio Region 5</u>	EPA ID: <u>OH D 90509947</u>		
Agency, office, or company leading the five-year review: <u>EPA, Region 5</u>	Weather/temperature: <u>Sunny 80°</u>		
Remedy Includes: (Check all that apply) <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input checked="" type="checkbox"/> Landfill cover/containment <input checked="" type="checkbox"/> Access controls <input checked="" type="checkbox"/> Institutional controls <input checked="" type="checkbox"/> Groundwater pump and treatment <input type="checkbox"/> Surface water collection and treatment <input checked="" type="checkbox"/> Other <u>grout curtain, slurry wall, berm</u> </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Monitored natural attenuation <input checked="" type="checkbox"/> Groundwater containment <input checked="" type="checkbox"/> Vertical barrier walls </td> </tr> </table>		<input checked="" type="checkbox"/> Landfill cover/containment <input checked="" type="checkbox"/> Access controls <input checked="" type="checkbox"/> Institutional controls <input checked="" type="checkbox"/> Groundwater pump and treatment <input type="checkbox"/> Surface water collection and treatment <input checked="" type="checkbox"/> Other <u>grout curtain, slurry wall, berm</u>	<input type="checkbox"/> Monitored natural attenuation <input checked="" type="checkbox"/> Groundwater containment <input checked="" type="checkbox"/> Vertical barrier walls
<input checked="" type="checkbox"/> Landfill cover/containment <input checked="" type="checkbox"/> Access controls <input checked="" type="checkbox"/> Institutional controls <input checked="" type="checkbox"/> Groundwater pump and treatment <input type="checkbox"/> Surface water collection and treatment <input checked="" type="checkbox"/> Other <u>grout curtain, slurry wall, berm</u>	<input type="checkbox"/> Monitored natural attenuation <input checked="" type="checkbox"/> Groundwater containment <input checked="" type="checkbox"/> Vertical barrier walls		
Attachments: <input type="checkbox"/> Inspection team roster attached <input checked="" type="checkbox"/> Site map attached			

II. INTERVIEWS (Check all that apply)

1. **O&M site manager** Ross Tabachow Senior Engineer 5/10/17
 Name Title Date

Interviewed at site at office by phone Phone no. (919) 858-0085
 Problems, suggestions; Report attached _____

2. **O&M staff** James Scherer + Jeremy Blevins 5/10/17
 Name Title Date

Interviewed: at site at office by phone Phone no. NA
 Problems, suggestions; Report attached _____

3. **Local regulatory authorities and response agencies** (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply.

Agency Ohio EPA
 Contact Shannon Cook Proj. Mgr. 5/10/17 (740) 380-5278
 Name Title Date Phone no.

Problems; suggestions; Report attached _____

Agency _____
 Contact _____
 Name Title Date Phone no.

Problems; suggestions; Report attached _____

Agency _____
 Contact _____
 Name Title Date Phone no.

Problems; suggestions; Report attached _____

Agency _____
 Contact _____
 Name Title Date Phone no.

Problems; suggestions; Report attached _____

4. **Other interviews (optional)** Report attached.

III. ON-SITE DOCUMENTS & RECORDS VERIFIED (Check all that apply)

1.	O&M Documents	<input checked="" type="checkbox"/> O&M manual	<input checked="" type="checkbox"/> Readily available	<input checked="" type="checkbox"/> Up to date	<input type="checkbox"/> N/A
		<input checked="" type="checkbox"/> As-built drawings	<input checked="" type="checkbox"/> Readily available	<input checked="" type="checkbox"/> Up to date	<input type="checkbox"/> N/A
		<input type="checkbox"/> Maintenance logs	<input checked="" type="checkbox"/> Readily available	<input checked="" type="checkbox"/> Up to date	<input type="checkbox"/> N/A
	Remarks _____				
2.	Site-Specific Health and Safety Plan	<input checked="" type="checkbox"/> Readily available	<input checked="" type="checkbox"/> Up to date	<input type="checkbox"/> N/A	
	<input type="checkbox"/> Contingency plan/emergency response plan	<input type="checkbox"/> Readily available	<input type="checkbox"/> Up to date	<input type="checkbox"/> N/A	
	Remarks _____				
3.	O&M and OSHA Training Records	<input checked="" type="checkbox"/> Readily available	<input checked="" type="checkbox"/> Up to date	<input type="checkbox"/> N/A	
	Remarks _____				
4.	Permits and Service Agreements	<input type="checkbox"/> Air discharge permit	<input type="checkbox"/> Readily available	<input type="checkbox"/> Up to date	<input type="checkbox"/> N/A
		<input checked="" type="checkbox"/> Effluent discharge	<input checked="" type="checkbox"/> Readily available	<input checked="" type="checkbox"/> Up to date	<input type="checkbox"/> N/A
		<input type="checkbox"/> Waste disposal, POTW	<input type="checkbox"/> Readily available	<input type="checkbox"/> Up to date	<input type="checkbox"/> N/A
		<input type="checkbox"/> Other permits _____	<input type="checkbox"/> Readily available	<input type="checkbox"/> Up to date	<input type="checkbox"/> N/A
	Remarks _____				
5.	Gas Generation Records	<input type="checkbox"/> Readily available	<input type="checkbox"/> Up to date	<input checked="" type="checkbox"/> N/A	
	Remarks _____				
6.	Settlement Monument Records	<input type="checkbox"/> Readily available	<input type="checkbox"/> Up to date	<input checked="" type="checkbox"/> N/A	
	Remarks _____				
7.	Groundwater Monitoring Records	<input checked="" type="checkbox"/> Readily available	<input checked="" type="checkbox"/> Up to date	<input type="checkbox"/> N/A	
	Remarks _____				
8.	Leachate Extraction Records	<input checked="" type="checkbox"/> Readily available	<input checked="" type="checkbox"/> Up to date	<input type="checkbox"/> N/A	
	Remarks _____				
9.	Discharge Compliance Records	<input type="checkbox"/> Air	<input type="checkbox"/> Readily available	<input type="checkbox"/> Up to date	<input type="checkbox"/> N/A
		<input checked="" type="checkbox"/> Water (effluent)	<input checked="" type="checkbox"/> Readily available	<input checked="" type="checkbox"/> Up to date	<input type="checkbox"/> N/A
	Remarks _____				
10.	Daily Access/Security Logs	<input checked="" type="checkbox"/> Readily available	<input checked="" type="checkbox"/> Up to date	<input type="checkbox"/> N/A	
	Remarks _____				

IV. O&M COSTS

1. O&M Organization

- | | |
|--|--|
| <input type="checkbox"/> State in-house | <input type="checkbox"/> Contractor for State |
| <input checked="" type="checkbox"/> PRP in-house | <input checked="" type="checkbox"/> Contractor for PRP |
| <input type="checkbox"/> Federal Facility in-house | <input type="checkbox"/> Contractor for Federal Facility |
| <input type="checkbox"/> Other _____ | |

2. O&M Cost Records

- Readily available Up to date
- Funding mechanism/agreement in place
- Original O&M cost estimate _____ Breakdown attached

Total annual cost by year for review period if available

From _____	To _____	_____	<input type="checkbox"/> Breakdown attached
Date	Date	Total cost	
From _____	To _____	_____	<input type="checkbox"/> Breakdown attached
Date	Date	Total cost	
From _____	To _____	_____	<input type="checkbox"/> Breakdown attached
Date	Date	Total cost	
From _____	To _____	_____	<input type="checkbox"/> Breakdown attached
Date	Date	Total cost	

3. Unanticipated or Unusually High O&M Costs During Review Period

Describe costs and reasons: _____

V. ACCESS AND INSTITUTIONAL CONTROLS Applicable N/A

A. Fencing

1. **Fencing damaged** Location shown on site map Gates secured N/A
 Remarks _____

B. Other Access Restrictions

1. **Signs and other security measures** Location shown on site map N/A
 Remarks _____ *Signs* _____

C. Institutional Controls (ICs)

1. **Implementation and enforcement**

Site conditions imply ICs not properly implemented Yes No N/A
 Site conditions imply ICs not being fully enforced Yes No N/A

Type of monitoring (e.g., self-reporting, drive by) _____
 Frequency _____
 Responsible party/agency _____
 Contact _____

	Name	Title	Date	Phone no.
Reporting is up-to-date				
Reports are verified by the lead agency				
Specific requirements in deed or decision documents have been met				
Violations have been reported				
Other problems or suggestions: <input type="checkbox"/> Report attached				

2. **Adequacy** ICs are adequate ICs are inadequate N/A
 Remarks _____

D. General

1. **Vandalism/trespassing** Location shown on site map No vandalism evident
 Remarks _____

2. **Land use changes on site** N/A
 Remarks _____

3. **Land use changes off site** N/A
 Remarks _____

VI. GENERAL SITE CONDITIONS

A. Roads Applicable N/A

1. **Roads damaged** Location shown on site map Roads adequate N/A
 Remarks _____

B. Other Site Conditions

Remarks _____

VII. LANDFILL COVERS Applicable N/A

A. Landfill Surface

1. **Settlement** (Low spots) Location shown on site map Settlement not evident
 Areal extent _____ Depth _____
 Remarks _____

2. **Cracks** Location shown on site map Cracking not evident
 Lengths _____ Widths _____ Depths _____
 Remarks _____

3. **Erosion** Location shown on site map Erosion not evident
 Areal extent _____ Depth 1 ft
 Remarks Erosion on slope of dam face. Holes from burrowing animals

4. **Holes** Location shown on site map Holes not evident
 Areal extent _____ Depth 1 ft
 Remarks Holes from burrowing animals

5. **Vegetative Cover** Grass Cover properly established No signs of stress
 Trees/Shrubs (indicate size and locations on a diagram)
 Remarks Area w/ erosion not established

6. **Alternative Cover (armored rock, concrete, etc.)** N/A
 Remarks _____

7. **Bulges** Location shown on site map Bulges not evident
 Areal extent _____ Height _____
 Remarks _____

8.	Wet Areas/Water Damage <input type="checkbox"/> Wet areas <input type="checkbox"/> Ponding <input checked="" type="checkbox"/> Seeps <input type="checkbox"/> Soft subgrade Remarks _____ <i>seeps are monitored</i>	<input type="checkbox"/> Wet areas/water damage not evident <input type="checkbox"/> Location shown on site map Areal extent _____ <input type="checkbox"/> Location shown on site map Areal extent _____ <input type="checkbox"/> Location shown on site map Areal extent _____ <input type="checkbox"/> Location shown on site map Areal extent _____
9.	Slope Instability Areal extent _____ Remarks _____	<input type="checkbox"/> Slides <input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> No evidence of slope instability
B. Benches <input checked="" type="checkbox"/> Applicable <input type="checkbox"/> N/A (Horizontally constructed mounds of earth placed across a steep landfill side slope to interrupt the slope in order to slow down the velocity of surface runoff and intercept and convey the runoff to a lined channel.)		
1.	Flows Bypass Bench Remarks _____	<input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> N/A or okay
2.	Bench Breached Remarks _____	<input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> N/A or okay
3.	Bench Overtopped Remarks _____	<input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> N/A or okay
C. Letdown Channels <input checked="" type="checkbox"/> Applicable <input type="checkbox"/> N/A (Channel lined with erosion control mats, riprap, grout bags, or gabions that descend down the steep side slope of the cover and will allow the runoff water collected by the benches to move off of the landfill cover without creating erosion gullies.)		
1.	Settlement Areal extent _____ Depth _____ Remarks _____	<input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> No evidence of settlement
2.	Material Degradation Material type _____ Areal extent _____ Remarks _____	<input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> No evidence of degradation
3.	Erosion Areal extent _____ Depth _____ Remarks _____ <i>erosion on face of dam</i>	<input type="checkbox"/> Location shown on site map <input type="checkbox"/> No evidence of erosion
4.	Undercutting Areal extent _____ Depth _____ Remarks _____	<input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> No evidence of undercutting

5. **Obstructions** Type _____ No obstructions
 Location shown on site map Areal extent _____
 Size _____
 Remarks _____

6. **Excessive Vegetative Growth** Type _____
 No evidence of excessive growth
 Vegetation in channels does not obstruct flow
 Location shown on site map Areal extent _____
 Remarks _____

D. Cover Penetrations Applicable N/A

1. **Gas Vents** Active Passive
 Properly secured/locked Functioning Routinely sampled Good condition
 Evidence of leakage at penetration Needs Maintenance N/A
 Remarks _____

2. **Gas Monitoring Probes**
 Properly secured/locked Functioning Routinely sampled Good condition
 Evidence of leakage at penetration Needs Maintenance N/A
 Remarks _____

3. **Monitoring Wells (within surface area of landfill)**
 Properly secured/locked Functioning Routinely sampled Good condition
 Evidence of leakage at penetration Needs Maintenance N/A
 Remarks _____

4. **Leachate Extraction Wells**
 Properly secured/locked Functioning Routinely sampled Good condition
 Evidence of leakage at penetration Needs Maintenance N/A
 Remarks _____

5. **Settlement Monuments** Located Routinely surveyed N/A
 Remarks _____

E. Gas Collection and Treatment Applicable N/A

1. **Gas Treatment Facilities**
 Flaring Thermal destruction Collection for reuse
 Good condition Needs Maintenance
 Remarks _____

2. **Gas Collection Wells, Manifolds and Piping**
 Good condition Needs Maintenance
 Remarks _____

3.	Gas Monitoring Facilities (e.g , gas monitoring of adjacent homes or buildings)	<input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance <input checked="" type="checkbox"/> N/A
Remarks _____		
F. Cover Drainage Layer		
<input checked="" type="checkbox"/> Applicable <input type="checkbox"/> N/A		
1.	Outlet Pipes Inspected	<input checked="" type="checkbox"/> Functioning <input type="checkbox"/> N/A
Remarks _____		
2.	Outlet Rock Inspected	<input type="checkbox"/> Functioning <input type="checkbox"/> N/A
Remarks _____		
G. Detention/Sedimentation Ponds		
<input type="checkbox"/> Applicable <input checked="" type="checkbox"/> N/A		
1.	Siltation Areal extent _____ Depth _____	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Siltation not evident Remarks _____		
2.	Erosion Areal extent _____ Depth _____	
<input type="checkbox"/> Erosion not evident Remarks _____		
3.	Outlet Works	<input type="checkbox"/> Functioning <input checked="" type="checkbox"/> N/A
Remarks _____		
4.	Dam	<input checked="" type="checkbox"/> Functioning <input type="checkbox"/> N/A
Remarks _____		
H. Retaining Walls		
<input checked="" type="checkbox"/> Applicable <input type="checkbox"/> N/A		
1.	Deformations <input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> Deformation not evident Horizontal displacement _____ Vertical displacement _____ Rotational displacement _____	
Remarks _____		
2.	Degradation <input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> Degradation not evident	
Remarks _____		
I. Perimeter Ditches/Off-Site Discharge		
<input checked="" type="checkbox"/> Applicable <input type="checkbox"/> N/A		
1.	Siltation <input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> Siltation not evident Areal extent _____ Depth _____	
Remarks _____		

2.	Vegetative Growth	<input type="checkbox"/> Location shown on site map	<input type="checkbox"/> N/A
	<input checked="" type="checkbox"/> Vegetation does not impede flow		
	Areal extent _____ Type _____		
	Remarks _____		
3.	Erosion	<input type="checkbox"/> Location shown on site map	<input checked="" type="checkbox"/> Erosion not evident
	Areal extent _____ Depth _____		
	Remarks _____		
4.	Discharge Structure	<input type="checkbox"/> Functioning	<input type="checkbox"/> N/A
	Remarks _____		
VIII. VERTICAL BARRIER WALLS		<input checked="" type="checkbox"/> Applicable	<input type="checkbox"/> N/A
1.	Settlement	<input type="checkbox"/> Location shown on site map	<input checked="" type="checkbox"/> Settlement not evident
	Areal extent _____ Depth _____		
	Remarks _____		
2.	Performance Monitoring	Type of monitoring _____	
	<input type="checkbox"/> Performance not monitored		
	Frequency _____	<input type="checkbox"/> Evidence of breaching	
	Head differential _____		
	Remarks _____		
IX. GROUNDWATER/SURFACE WATER REMEDIES		<input checked="" type="checkbox"/> Applicable	<input type="checkbox"/> N/A
A. Groundwater Extraction Wells, Pumps, and Pipelines		<input checked="" type="checkbox"/> Applicable	<input type="checkbox"/> N/A
1.	Pumps, Wellhead Plumbing, and Electrical		
	<input checked="" type="checkbox"/> Good condition <input type="checkbox"/> All required wells properly operating <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A		
	Remarks _____		
2.	Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances		
	<input checked="" type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance		
	Remarks _____		
3.	Spare Parts and Equipment		
	<input checked="" type="checkbox"/> Readily available <input checked="" type="checkbox"/> Good condition <input type="checkbox"/> Requires upgrade <input type="checkbox"/> Needs to be provided		
	Remarks _____		
B. Surface Water Collection Structures, Pumps, and Pipelines		<input type="checkbox"/> Applicable	<input type="checkbox"/> N/A
1.	Collection Structures, Pumps, and Electrical		
	<input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance		
	Remarks _____		

2.	Surface Water Collection System Pipelines, Valves, Valve Boxes, and Other Appurtenances <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance Remarks _____ _____
3.	Spare Parts and Equipment <input type="checkbox"/> Readily available <input type="checkbox"/> Good condition <input type="checkbox"/> Requires upgrade <input type="checkbox"/> Needs to be provided Remarks _____ _____
C. Treatment System <input checked="" type="checkbox"/> Applicable <input type="checkbox"/> N/A	
1.	Treatment Train (Check components that apply) <input checked="" type="checkbox"/> Metals removal <input type="checkbox"/> Oil/water separation <input type="checkbox"/> Bioremediation <input checked="" type="checkbox"/> Air stripping <input checked="" type="checkbox"/> Carbon adsorbers <input type="checkbox"/> Filters _____ <input type="checkbox"/> Additive (e.g., chelation agent, flocculent) _____ <input type="checkbox"/> Others _____ <input checked="" type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance <input checked="" type="checkbox"/> Sampling ports properly marked and functional <input checked="" type="checkbox"/> Sampling/maintenance log displayed and up to date <input checked="" type="checkbox"/> Equipment properly identified <input type="checkbox"/> Quantity of groundwater treated annually _____ <input type="checkbox"/> Quantity of surface water treated annually _____ Remarks _____ _____
2.	Electrical Enclosures and Panels (properly rated and functional) <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance Remarks _____ _____
3.	Tanks, Vaults, Storage Vessels <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Good condition <input type="checkbox"/> Proper secondary containment <input type="checkbox"/> Needs Maintenance Remarks _____ _____
4.	Discharge Structure and Appurtenances <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance Remarks _____ _____
5.	Treatment Building(s) <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Good condition (esp. roof and doorways) <input type="checkbox"/> Needs repair <input type="checkbox"/> Chemicals and equipment properly stored Remarks _____ _____
6.	Monitoring Wells (pump and treatment remedy) <input checked="" type="checkbox"/> Properly secured/locked <input type="checkbox"/> Functioning <input checked="" type="checkbox"/> Routinely sampled <input checked="" type="checkbox"/> Good condition <input type="checkbox"/> All required wells located <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A Remarks _____ _____
D. Monitoring Data	

1. **Monitoring Data**
 Is routinely submitted on time Is of acceptable quality

2. **Monitoring data suggests:**
 Groundwater plume is effectively contained Contaminant concentrations are declining

E. Monitored Natural Attenuation

1. **Monitoring Wells** (natural attenuation remedy)
 Properly secured/locked Functioning Routinely sampled Good condition
 All required wells located Needs Maintenance N/A
Remarks _____

X. OTHER REMEDIES

If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.

XI. OVERALL OBSERVATIONS

A. Implementation of the Remedy

Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.).

Erosion will be ongoing issue
due to the slope on the
face of the dam.

B. Adequacy of O&M

Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy.

C. Early Indicators of Potential Remedy Problems

Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs that suggest that the protectiveness of the remedy may be compromised in the future.

D. Opportunities for Optimization

Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.
