



# Fall 2018 Baseline Semi-Annual Monitoring Event Water Quality Monitoring Report

Location:

Ischua Landfill  
Olean, New York  
(NYSDEC Facility ID #05S20)

Prepared for:

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LaBella Project No. 2181366  
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(NYSDEC Facility ID #05S20)

Fall 2018  
Semi-Annual Monitoring Baseline Event  
Water Quality Monitoring Report

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## 1.0 INTRODUCTION

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LaBella Associates, D.P.C (LaBella) was retained by the City of Olean to provide sampling, analysis, and reporting services associated with water quality monitoring at the closed Ischua Landfill (site). Groundwater monitoring is conducted at the site in accordance with Order on Consent 89-92 issued by the New York State Department of Environmental Conservation (NYSDEC) and the December 1990 Sampling and Analysis Plan (SAP) with subsequent modifications in 1991 and 1995. These modifications, as well as other modifications to the SAP, are discussed in detail in Section 2.0.

This report presents the results of the Fall 2018 Baseline Semi-Annual Monitoring Event conducted for twelve monitoring wells and two surface water points at the site. This report provides a brief discussion of the relevant background information, describes the sample collection procedures, presents the analytical results, and provides a summary and conclusions for the work conducted.

## 2.0 BACKGROUND INFORMATION

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The Ischua Landfill is located near the Olean municipal airport in the Town of Ischua, New York, as shown on Figure 1. The landfill consists of three parallel trenches approximately 15 feet deep and 50 feet wide that range from 800 feet to 1,300 feet in length (see Figure 2). The landfill operated from 1972 to 1975. When the landfill was closed, the landfill cover consisted of approximately six inches of topsoil. In an effort to control seeps, the landfill cover was improved with 18 inches of compacted clay and six inches of topsoil, as reported in January 1986. The improved cover reduced the seepage volume but did not completely eliminate the seeps.

In response to renewed concerns by the NYSDEC regarding the seeps, a hydrogeologic investigation program was performed at the site from November 1989 through March 1990. Subsequently, the City developed an appropriate course of action for controlling the seepage breakouts. As required by the NYSDEC, the City also initiated a program of quarterly monitoring at the site in September 1990. The samples were analyzed for the Title 6 New York Codes, Rules and Regulations (6NYCRR) Part 360-2.11(d)(6) Baseline Parameters plus volatile organic compounds (VOCs). Following submission of the Baseline Sampling Report, a SAP dated December 4, 1990 was issued for the continued quarterly groundwater monitoring at the landfill site. The SAP was approved by the NYSDEC in a letter dated December 12, 1990. The quarterly sampling at the site continued in accordance with the approved SAP from September 1990 to September 1991.

In the September 1991 Baseline Sampling Report, several modifications to the approved SAP were recommended. These proposed modifications were as follows:

- a. The site's contingency water quality monitoring requirements of quarterly analysis for VOCs was proposed to be removed from the SAP and replaced by the standard routine and baseline analysis program which would have required VOC analysis only during the annual baseline sampling event.
- b. Six sampling points were proposed to be removed from the SAP. These sampling points had primarily been either dry during previous sampling events or had not resulted in elevated levels of analytes of concern. These points were: MW-6B, MW-7C, MW-8A, MW-9A, MW-10A, and MW-11A.
- c. The tabular listing of current and past sampling results in the quarterly and the annual reports was proposed to be replaced with time/concentration plots of selected parameters.

Items b and c of the proposed modifications were later approved by the NYSDEC. With respect to Item a, the NYSDEC did not agree with elimination of the site's contingency water quality



requirements but approved a reduction in the frequency of sampling for VOCs from quarterly to semi-annually.

After the submittal of the June 1994 Quarterly Report, it was requested that the current time/concentration plots of selected parameters be replaced with tabular historical data tables from each monitoring point. This request was approved by the NYSDEC.

Furthermore, it was requested in November 1995 that the sampling frequency for all parameters at the site be reduced from quarterly to semi-annually, based upon a statistical evaluation of the previous five years of groundwater monitoring data. The statistical evaluation of the site data revealed that total VOC concentrations for all sampling points had remained constant or decreased with time. The NYSDEC agreed with the request in 1996.

## 3.0 SAMPLE COLLECTION PROCEDURES

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### 3.1 General Discussion

LaBella performed the Fall 2018 Monitoring Event sampling activities on September 11 and 12, 2018. All sampling activities were completed in general accordance with the approved SAP dated December 4, 1990 and subsequent NYSDEC-approved modifications. All samples collected from the site were analyzed for the 6NYCRR Part 360-2.11(d)(6) Baseline Parameters plus Baseline VOCs. However, MW-6A was dry, precluding sample collection from this location. Additionally, MW-6D, MW-9B and MW-12A contained insufficient water volume for the full parameter list, thus the parameters analyzed were limited to the following:

- MW-6D: Total organic carbon (TOC), VOCs, metals, and total hardness
- MW-9B: TOCs, VOCs, metals, chemical oxygen demand (COD), ammonia-nitrogen, nitrate-nitrogen, total kjeldahl nitrogen (TKN), total hardness, and total phenols
- MW-11B: VOCs, biochemical oxygen demand (BOD), chloride, sulfate, total dissolved solids (TDS), and TOC
- MW-12A: VOCs, BOD, chloride, sulfate, TDS, and TOC

The sample locations for the monitoring wells and the surface water samples are shown on Figure 2. The following paragraphs describe the sample collection procedures and field documentation protocols that were followed.

### 3.2 Groundwater Sample Collection Procedures

Purging and sampling of the monitoring wells was performed utilizing dedicated disposable polyethylene bailers, and non-absorbent nylon rope was used to lower the bailers into the wells.

Prior to purging, the depth to water in the well was measured to the nearest 1/100<sup>th</sup> of a foot using an electronic water level indicator. As detailed in the approved SAP, purging is performed in an attempt to obtain a turbidity value of under 50 nephelometric turbidity units (NTUs) prior to sampling. If the turbidity value is greater than 50 NTUs, a filtered metals sample must be collected. The turbidity values recorded during this monitoring event were below 50 NTUs at the time of sample collection. Due to insufficient volumes at the time of sample collection turbidity values were not recorded for MW-6D, MW-9B, and MW-12A. Alternatively, the turbidity values recorded during purging of these locations were utilized. The recorded turbidity values for MW-6D and MW-12A exceeded 50 NTUs. Due to insufficient volume at the time of sample collection only a total metals sample was collected from MW-6D and no metals samples were collected from MW-12A.



The monitoring wells were purged a minimum of three well volumes or until dry. In general, purging was intended to be performed such that the water level in the well would not fall below the top of the sand pack. However, because the static water level in some of the wells was below the top of the sand pack, this criterion was not always achieved. Table 1 lists the depth of each monitoring well in addition to the elevation of groundwater in each well. Field Sampling Logs are presented in Appendix A.

After purging, groundwater samples were collected from each well (with the exception of the wells that were dry, as identified in Section 3.4) at the site and placed in laboratory-prepared sample containers. The sample containers were then placed in insulated coolers filled with ice and transported under proper chain-of-custody procedures by courier directly to the analytical laboratory, Pace Analytical Services (Pace), in Melville, New York.

### **3.3 *Surface Water Sample Collection Procedures***

Two surface water samples (STREAM and SEEP), are typically collected during each semi-annual sampling event. These sample locations are shown on Figure 2. The SEEP and STREAM samples were collected by direct submersion of a dedicated unpreserved sample bottle into the surface water. A dedicated, unpreserved sampling bottle was used to collect the surface water samples from these locations in order to fill sample bottles containing preservatives. Care was taken to not disturb the sediment during sample collection. The filled sample bottles were transported to the laboratory under chain-of-custody using the procedures described in Section 3.6.

### **3.4 *Field Parameter Measurements***

Field parameters including pH, specific conductance, oxidation reduction potential (ORP), temperature, and turbidity were measured for each sample point and the results were recorded on the field sampling logs presented in Appendix A. Due to insufficient water volume, field parameters were not measured for MW-6A (this locations were ultimately dry). A summary of the field parameters by sample point is included in Table 2.

### **3.5 *Quality Assurance/Quality Control***

For quality assurance/quality control purposes, a blind field duplicate sample was collected and analyzed. The blind field duplicate was collected from MW-10B and analyzed for Baseline Parameters. The blind field duplicate sample was designated as “DUP” on the chain-of-custody form and in the laboratory report from Pace.

### **3.6 *Shipping and Chain-of-Custody***

Sample containers were labeled in the field, placed on ice, and shipped by courier using properly signed seals to Pace under chain-of-custody protocols. The samples were relinquished to the courier provided by Pace the day of sample collection. Appendix B presents the completed chain-of-custody records for this semi-annual monitoring event.

### **3.7 *Health and Safety***

Sampling personnel wore Level D personal protective equipment including nitrile gloves during well purging and sampling activities. No health and safety concerns were noted during sampling.



## 4.0 DATA VALIDATION

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### 4.1 Data Validation

Data validation consisted of an internal validation by Pace. The internal data validation performed by Pace focused on holding times, calibration criteria, method blanks, reference samples, matrix spike/matrix spike duplicate (MS/MSD) samples, and surrogate recoveries. The results of these efforts are presented in the Pace Analytical Report included in Appendix C. The internal validation showed that the analytical results generated during this semi-annual monitoring event are generally usable in all cases. Only minor QA/QC issues were identified and do not impact the usability of the data for the Fall 2018 Monitoring Event.

### 4.2 Quality Assurance/Quality Control

#### 4.2.1 Duplicate

The sample designated “DUP” is a duplicate of the MW-10B sample. The duplicate results are generally consistent (within 1.5 times) with the sample results with the following exceptions.

- Vinyl chloride was detected in the DUP but was not detected in MW-10B.
- Chromium was detected in the DUP but was not detected in MW-10B.
- Mercury was detected in MW-10B but was not detected in the DUP.
- Thallium was detected in MW-10B but was not detected in the DUP.
- BOD was detected in MW-10B but was not detected in the DUP.
- Total Hardness was detected in MW-10B at a concentration 13.1 times greater than in the DUP.

Vinyl chloride in the DUP and total hardness in MW-10B were detected at concentrations within the historical ranges for MW-10B.

#### 4.2.2 Trip Blank

The laboratory analytical results for the TRIP BLANK sample were non-detect for all VOC parameters.

## 5.0 ANALYTICAL RESULTS

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### 5.1 General Discussion

Table 3 summarizes the results for each of the groundwater samples collected from the site. Results that are shaded in Table 3 are reported at or above regulatory levels for groundwater established in 6NYCRR Part 703.5 Water Quality Regulations for Groundwater (6NYCRR standards) as amended in April 1999. For parameters for which a standard was not adopted, the guidance values presented in the NYSDEC June 1998 Technical and Operations Guidance Series (TOGS) 1.1.1 were utilized. The following sections briefly describe this event’s analytical results with respect to the above-mentioned water quality standards.

Additionally, although the SEEP and STREAM data have also been compared to the 6NYCRR groundwater standards, the comparison was made for purpose of continuity only; the 6NYCRR groundwater standards are not technically applicable to these data. In addition, the duplicate sample is not discussed in the following section. Refer to Section 4.2.



## 5.2 Summary of Results

### 5.2.1 Volatile Organic Compound Results

The analytical results for the Fall 2018 Monitoring Event are summarized in Table 3. No VOCs were detected above the applicable water quality standards in the samples collected from MW-6D, MW-7A, MW-7C, MW-9B, MW-11B, MW-13, MW-14, and STREAM. The VOC concentrations that exceeded the applicable water quality standards are summarized below:

- *Benzene* was reported above the 6NYCRR standard of 1.0 µg/L in MW-12A and MW-12B at concentrations of 5.2 µg/L and 5.8 µg/L, respectively.
- *Chlorobenzene* was reported above the 6NYCRR standard of 5.0 µg/L in three samples (MW-8B, MW-12A, and MW-12B) at concentrations of 6.6 µg/L, 8.1 µg/L, and 7.0 µg/L, respectively.
- *1,1-Dichloroethane* was reported above the 6NYCRR standard of 5.0 µg/L in MW-10B at a concentration of 9.5 µg/L.
- *cis-1,2-Dichloroethene* was reported above the 6NYCRR standard of 5.0 µg/L in three samples (MW-8B, MW-10B, and SEEP) at concentrations of 6.7 µg/L, 38.2 µg/L, and 9.6 µg/L, respectively.

The concentrations of these analytes detected in these locations were within historical ranges.

### 5.2.2 Inorganic Parameters

The concentrations of inorganic analytes were reported below applicable regulatory values, with the exception of the results discussed below.

- *Antimony* was reported above the 6NYCRR standard of 0.003 mg/L in MW-13 at a concentration of 0.0035 mg/L.
- *Arsenic* was reported above the 6NYCRR standard of 0.025 mg/L in three samples (MW-6D, MW-7A, and SEEP): exceedances ranged in concentrations from 0.0288 mg/L to 0.0626 mg/L.
- *Iron* was reported above the 6NYCRR standard of 0.3 mg/L in seven samples (MW-6D, MW-7A, MW-8B, MW-9B, MW-10B, MW-12B, and SEEP): exceedances ranged in concentrations from 0.865 mg/L to 63.4 mg/L.
- *Lead* was reported above the 6NYCRR standard of 0.025 mg/L in MW-6D at a concentration of 0.126 mg/L.
- *Magnesium* was reported above the 6NYCRR standard of 35 mg/L in MW-6D at a concentration of 35.1 mg/L.
- *Manganese* was reported above the 6NYCRR standard of 0.3 mg/L in eight samples (MW-6D, MW-7A, MW-7C, MW-8B, MW-9B, MW-10B, MW-12B, and SEEP): exceedances ranged in concentrations from 0.658 mg/L to 12.7 mg/L.
- *Thallium* was reported above the 6NYCRR standard of 0.0005 mg/L in four samples (MW-6D, MW-7A, MW-8B, and MW-10B): exceedances ranged in concentrations from 0.005 to 0.0145 mg/L.

The concentrations of these analytes were within historical ranges for these monitoring points with the exception of arsenic in MW-6D and thallium in MW-10B. Arsenic in MW-6D was detected at a concentration representing a historical maximum concentration. Arsenic in MW-6D was only previously detected in the Fall 1992 sampling event. Thallium in MW-10B was detected at a concentration only slightly exceeding (1.5 times greater) the previous historical maximum concentration. LaBella will continue to evaluate these parameters at these locations during future sampling events to identify if any potential trends.



### 5.2.3 Leachate Indicator Parameters

Leachate indicator parameters were reported below applicable 6NYCRR standards with the exception of the results discussed below.

- *Color* was reported above the 6NYCRR standard of 5 Units in six samples (MW-7A, MW-7C, MW-8B, MW-12B, and SEEP): exceedances ranged in concentrations from 15 Units to 125 Units.
- *Ammonia-Nitrogen* was reported above the 6NYCRR standard of 2.0 mg/L in MW-12B and SEEP at concentrations of 2.2 mg/L and 3.0 mg/L, respectively.
- *Total Phenols* was reported above the 6NYCRR standard of 0.001 mg/L in nine samples (MW-7A, MW-8B, MW-9B, MW-10B, MW-12B, MW-13, MW-14, SEEP, and STREAM): exceedances ranged in concentrations from 0.0043 mg/L to 0.0274 mg/L.

The concentrations of these analytes were all within historical ranges for these monitoring points.

### 5.2.4 Comparison of Sampling Results

A tabular listing of the historical data associated with the permanent monitoring network is presented in Appendix D and includes historical data from September 1990 to the present for all monitoring points at the site. Included on each table is a mean concentration and current 6NYCRR groundwater standard for all analytes (both organic and inorganic) at each monitoring point. Historic exceedances of the water quality standards identified in the tables in Appendix D are related to the 6NYCRR standards in effect at the time of sampling, which may not be the standards currently in effect.

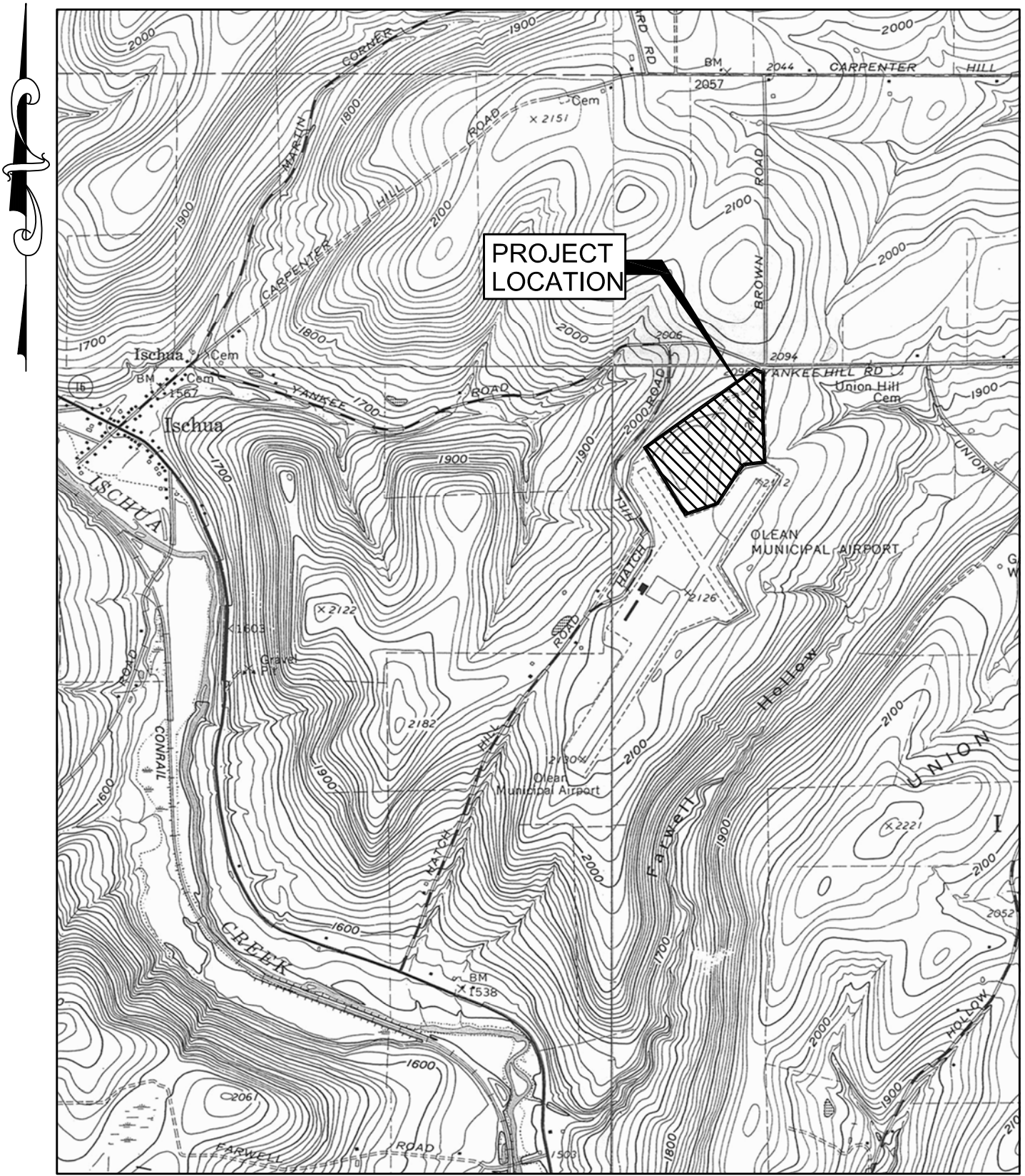
## 6.0 SUMMARY AND CONCLUSIONS

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The results of the Fall 2018 Monitoring Event appear generally consistent with the results from the previous sampling events at the site. The next semi-annual sampling event is scheduled for the Spring of 2019.



# FIGURES

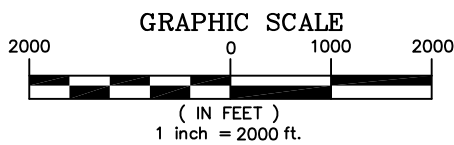


USGS QUADRANGLES – CUBA, FRANKLINVILLE,  
HINSDALE AND RAWSON, NEW YORK



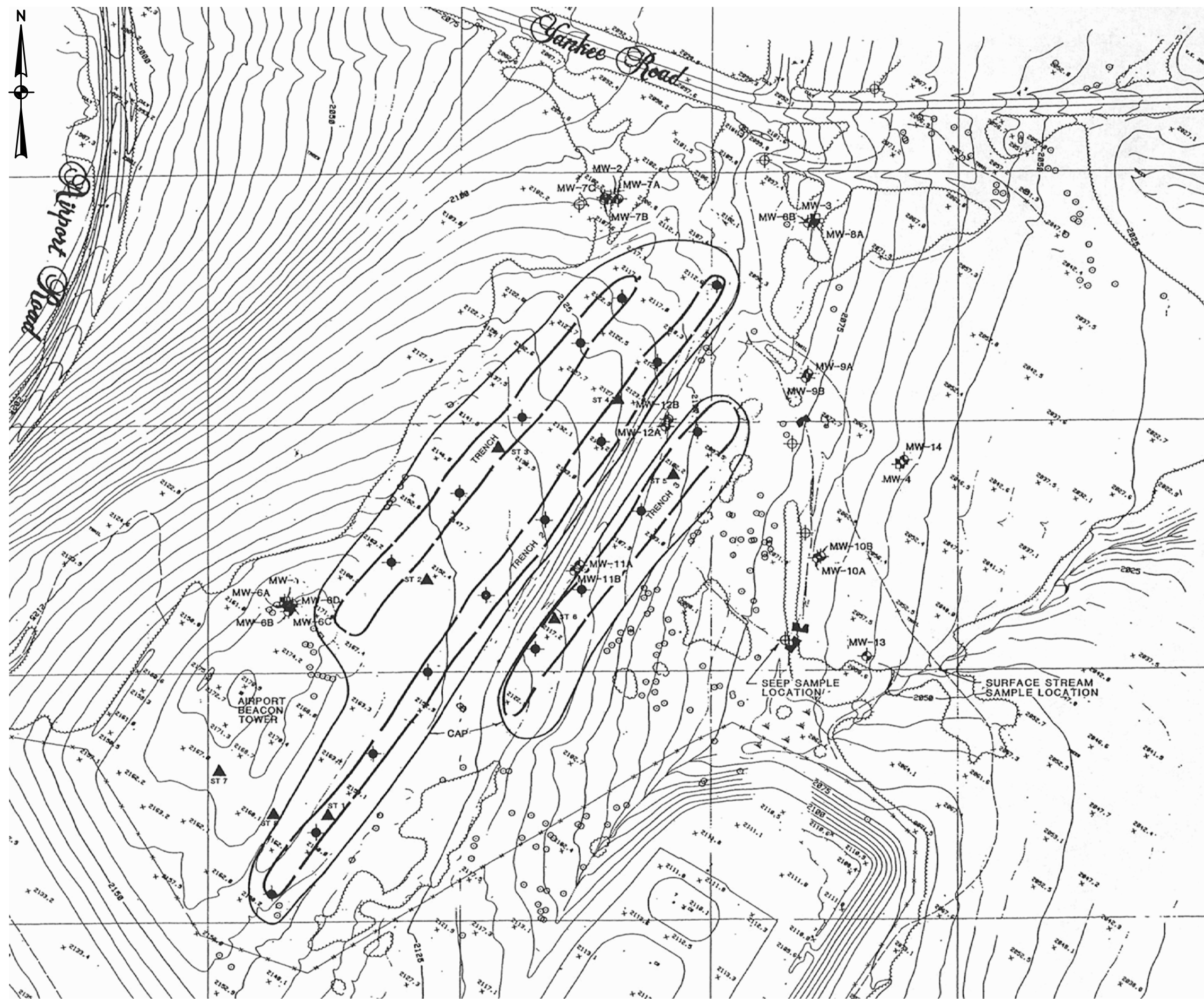
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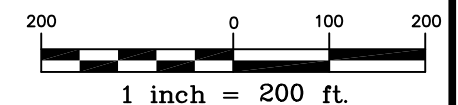
ISCHUA LANDFILL  
**FIGURE 1**  
SITE LOCATION MAP

File: J:\Clean\_City of 2181366 - 2018 Ischua Landfill Monitoring\Reports\2018 Spring\Figure 2 Site Map.DWG, Plot Date: 6/20/2018, By: BEVKLEMAN, ANDREW, Plot Style: LABELLA.CTB



**LEGEND**

- MONITORING WELL (URS)
- MONITORING WELL (EIL)
- SEEP
- GAS WELL
- CLAY CAP (APPROXIMATE)
- TRENCH (APPROXIMATE)
- SHELBY TUBE SOIL SAMPLE LOCATION
- WEIR



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ISCHUA LANDFILL  
**FIGURE 2**  
 SITE BASE MAP AND  
 ENVIRONMENTAL MONITORING LOCATIONS

# TABLES

Ischua Landfill  
Fall 2018  
Summary of Monitoring Well and  
Groundwater Depths

**TABLE 1**

Monitoring Well No.	Top of Casing Elevation	Depth to Well Bottom	Historical Elevations	Historical Elevations	Depth to Water	Elevation of Water	Compared to Last Event	Compared to Last Year
			Oct-17	May-18	Sep-18	Sep-18		
MW-6A	2173.1	17.19	NA	NA	NA	NA	NA	NA
MW-6D	2173.7	103.14	NA	2082.7	101.0	2072.7	NA	NA
MW-7A	2109.3	11.64	2100.7	2104.3	7.9	2101.4	-2.9	0.70
MW-7C	2109.3	40.3	2072.10	2081.30	33.7	2075.60	-5.7	3.50
MW-8B	2089.6	28.65	2073.6	2076.1	14.3	2075.3	-0.8	1.70
MW-9B	2081.1	32.44	2049.20	2049.10	31.5	2049.60	0.5	0.40
MW-10B	2066.2	33.63	2041.50	2046.70	22.3	2043.90	-2.8	2.40
MW-11B	2115.1	18.06	2098.1	2102.8	16.0	2099.1	-3.7	1.00
MW-12A	2108.3	12.68	2095.2	2099.2	10.9	2097.4	-1.8	2.20
MW-12B	2107.5	20.9	2094.1	2096.3	13.1	2094.4	-1.9	0.30
MW-13	2058.7	11.44	2054	2054.5	3.9	2054.8	0.3	0.80
MW-14	2060.9	23.44	2042.1	2044.9	17.0	2043.9	-1.0	1.80

Notes:

1. All measurements are in feet and the elevations are referenced to NAVD88 based on USGS "Ischua 1964".
2. The depth to the bottom of the monitoring well as well as the depth to water is measure from the from top of the riser pipe prior to purging the wells.



**Ischua Landfill  
Fall 2018  
Summary of Field Parameters**

**TABLE 2**

DOWN - GRADIENT MONITORING LOCATIONS																	
	Units	MW 6A	MW 6D	MW 7A	MW 7C	MW 8B	MW 9B	MW 10B	MW 11B	MW 12A	MW 12B	MW 13	MW 14	SEEP	STREAM	NYSDEC Part 703 Surface water and Groundwater Quality Standards	Units
Field Eh	mV	**	191.6*	-31.8	153.7	108.1	53*	56.8	68.5	-109*	-50.4	158.8	77.9	-28.1	48.3		NA mV
Field pH	SU	**	7.12*	6.01	7.27	6.48	6.99*	6.35	5.74	6.62*	6.61	6.66	7.58	6.18	7.10		6.5-8.5 SU
Field Specific Conductivity	mS/cm	**	0.68*	0.515	0.613	0.532	0.427*	0.595	0.193	0.746*	0.011	0.350	0.421	0.453	0.210		NA mS/cm
Field Turbidity	NTU	**	365.6*	10.5	25.1	20.1	28.8*	2.4	32.5	154*	16.2	5.5	5.5	17.7	1.3		5 NTU
Temperature	degC	**	11.0*	14.5	11.2	13.0	11.9*	13.2	13.3	15.5*	14.6	16.1	12.8	14.8	17.9		NA degC
Dissolved Oxygen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	3.72	8.55		NA mg/L

.. = Indicates the parameter was not analyzed

\* = Indicates field parameter measurements were collected during purging due to insufficient water during sample collection

\*\* = Indicates field parameter measurements not collected due to insufficient water during sample collection

**1.00** Value exceeds regulatory standard

MONITORING LOCATIONS																				
Collection Date	CAS #	Units	MW 6A	MW 6D	MW 7A	MW 7C	MW 8B	MW 9B	MW 10B	MW 11B	MW 12A	MW 12B	MW 13	MW 14	SEEP 1	STREAM 1	Duplicate	NYSDEC Part 703 Surfacewater and Groundwater Quality Standards	Units	
			9/12/2018	9/12/2018	9/12/2018	9/12/2018	9/12/2018	9/12/2018	9/12/2018	9/12/2018	9/12/2018	9/12/2018	9/12/2018	9/12/2018	9/12/2018	9/12/2018	9/12/2018	9/12/2018	9/12/2018	9/12/2018
BOD5	18540-29-9	mg/l	-	-	8.3	ND	ND	-	7.0	ND	14.4	7.6	ND	ND	ND	ND	ND	NA mg/l	BOD5	
Color		Units	-	-	75	15	15	-	5	-	-	75	10	5	125	30	5	15 Units	Color	
Hexavalent Chromium		mg/l	-	-	ND	ND	ND	-	ND	-	-	0.0061	ND	ND	ND	ND	ND	0.05 mg/l	Hexavalent Chromium	
Nitrate-Nitrogen		mg/l	-	-	0.070	ND	ND	ND	ND	-	-	0.05	0.062	ND	ND	ND	ND	10 mg/l	Nitrate-Nitrogen	
Alkalinity		mg/CaCO3	-	-	249	314	278	-	307	-	-	496	53.6	232	231	103	347	NA mg/CaCO3	Alkalinity	
Chloride		mg/l	-	-	4.6	6.3	4.9	-	10.9	48.8	7.1	10.8	4.0	2.3	4.7	1.3	10.7	250 mg/l	Chloride	
COD		mg/l	-	-	50.2	15.5	46.1	44.1	29.8	-	-	74.7	21.6	27.7	44.1	0.0441	31.8	NA mg/l	COD	
Ammonia-Nitrogen		7664-41-7	mg/l	-	-	1.20	0.089	0.99	0.091	0.320	-	-	2.20	0.140	0.047	3.00	0.058	0.30	2 mg/l	Ammonia-Nitrogen
Sulfate		mg/l	-	-	24.6	9.3	5.7	-	6.1	2.5	7.4	2.5	4.7	14.6	5.6	6.9	5.8	250 mg/l	Sulfate	
Total Cyanide		mg/l	-	-	ND	ND	ND	-	ND	-	-	ND	ND	ND	ND	ND	ND	0.2 mg/l	Total Cyanide	
Total Dissolved Solids	mg/l	-	-	246	323	279	-	308	87	394	458	181	216	217	113	299	500 mg/l	Total Dissolved Solids		
Total Kjeldahl Nitrogen	mg/l	-	-	0.43	2.8	2.4	0.35	0.53	-	-	4.7	0.23	ND	2.9	0.31	0.38	NA mg/l	Total Kjeldahl Nitrogen		
TOC	mg/l	-	2.1	5.7	1.7	6.2	3.8	2.9	5.0	11.7	9.0	2.9	0.81	5.4	7.5	3.1	NA mg/l	TOC		
Total Phenols	mg/l	-	-	0.0095	ND	0.0274	0.0161	0.0110	-	-	0.049	0.0043	0.0074	0.0079	0.0089	0.0125	0.001 mg/l	Total Phenols		
Aluminum	mg/l	-	27.3	0.104	ND	0.0416	0.43	0.0684	-	-	0.096	0.0697	0.0766	0.0779	0.139	0.1	NA mg/l	Aluminum		
Antimony by furnace method	mg/l	-	ND	ND	ND	ND	ND	ND	-	-	ND	0.0035	ND	ND	ND	ND	0.003 mg/l	Antimony by furnace method		
Arsenic by furnace method	mg/l	-	0.0626	0.0413	ND	0.0228	ND	ND	-	-	0.0085	ND	ND	0.0288	ND	ND	0.025 mg/l	Arsenic by furnace method		
Barium	mg/l	-	0.205	0.617	0.14	0.126	0.0377	0.0657	-	-	0.325	0.0194	0.0405	0.177	0.01	0.0696	1 mg/l	Barium		
Beryllium	mg/l	-	0.0014	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	0.003 mg/l	Beryllium		
Boron	7440-42-8	mg/l	-	0.0382	0.0865	0.0136	0.0565	0.0115	0.0471	-	-	0.1250	0.0734	0.0225	0.0852	0.0288	0.0507	1 mg/l	Boron	
Cadmium	mg/l	-	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	0.005 mg/l	Cadmium		
Calcium	mg/l	-	120	48.2	97.8	74.4	76.4	76.6	-	-	127	50.3	66.1	52.4	28.6	81.9	NA mg/l	Calcium		
Chromium	mg/l	-	0.0504	ND	ND	ND	0.0069	ND	-	-	0.0107	0.0044	0.0032	0.0107	0.0031	0.0052	0.05 mg/l	Chromium		
Copper	mg/l	-	0.0533	ND	ND	ND	0.0044	ND	-	-	ND	ND	ND	ND	0.0046	ND	0.2 mg/l	Copper		
Iron	mg/l	-	63.4	25.2	0.147	7.15	1.78	0.865	-	-	11.0	0.0952	0.0552	14.3	0.224	0.858	0.3 mg/l	Iron		
Lead by furnace method	mg/l	-	0.126	0.0021	ND	0.0013	ND	ND	-	-	0.0016	ND	ND	ND	ND	ND	0.025 mg/l	Lead by furnace method		
Magnesium	mg/l	-	35.1	9.51	15.7	10.7	10.1	23.8	-	-	23.8	13.8	15.9	16.6	7.74	25.7	35 mg/l	Magnesium		
Manganese	mg/l	-	1.78	12.7	2.95	8.25	0.658	5.59	-	-	9.54	0.17	0.183	10.60	0.242	6.42	0.3 mg/l	Manganese		
Mercury	mg/l	-	0.00017	0.00013	0.00014	0.00014	-	0.00013	-	-	0.00014	ND	ND	ND	ND	ND	0.0007 mg/l	Mercury		
Nickel	mg/l	-	0.0616	0.0048	0.0011	0.0048	0.0042	0.0041	-	-	0.0046	0.0017	ND	0.0031	0.0013	0.0045	0.1 mg/l	Nickel		
Potassium	mg/l	-	7.39	17.9	1.79	3.05	1.83	2.41	-	-	5.52	1.58	2.32	4.24	2.45	2.93	NA mg/l	Potassium		
Selenium by furnace method	mg/l	-	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	0.01 mg/l	Selenium by furnace method		
Silver	mg/l	-	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	0.05 mg/l	Silver		
Sodium	mg/l	-	6.62	4.42	6.24	5.1	5.33	9.64	-	-	15.0	11.6	11.1	6.64	2.29	10.5	20 mg/l	Sodium		
Thallium by furnace method	mg/l	-	0.005	0.0145	ND	0.0103	ND	0.0066	-	-	ND	ND	ND	ND	ND	ND	0.0005 mg/l	Thallium by furnace method		
Zinc	mg/l	-	0.178	0.0078	0.0292	0.0099	0.323	0.0094	-	-	0.0045	0.0295	0.0051	ND	ND	0.0032	2 mg/l	Zinc		
Calculated Hardness	mg/l CaCO3	-	347	187	273	173	200	227	-	-	340	113	187	200	80	17.3	NA mg/l CaCO3	Calculated Hardness		

.. - Indicates the parameter was not analyzed

ND - Indicates the value is less than the method detection limit

1.00 Value exceeds regulatory standard

1. Regulatory values are from the 6NYCRR PART 703.5 Water Quality Regulations for Groundwater as amended in April 1999. For parameters for which a standard is not adopted, the guidance values presented in the NYSDEC June 1998 Technical and Operational Guidance Series (TOGS) 1.1.1 were utilized.

		MONITORING LOCATIONS																	
		Units	MW 6A	MW 6D	MW 7A	MW 7C	MW 8B	MW 9B	MW 10B	MW 11B	MW 12A	MW 12B	MW 13	MW 14	SEEP <sup>1</sup>	STREAM <sup>1</sup>	Duplicate	NYSDEC Part 703 Surfacewater and Groundwater Quality Standards	Units
Acetone	67-64-1	ug/l	-	ND	ND	ND	ND	ND	ND	ND	7.6	ND	ND	ND	ND	ND	ND	50.0 ug/l	Acetone
Acrylonitrile	107-13-1	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	Acrylonitrile
Benzene	71-43-2	ug/l	-	ND	ND	ND	ND	ND	ND	ND	5.2	5.8	ND	ND	ND	ND	ND	1.0 ug/l	Benzene
Bromobenzene	74-97-5	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	Bromobenzene
Bromochloromethane	75-27-4	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	Bromochloromethane
Bromodichloromethane	75-25-2	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.0 ug/l	Bromodichloromethane
Bromoform	75-15-0	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.0 ug/l	Bromoform
Bromomethane	56-23-5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	Bromomethane
2-Butanone	108-90-7	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.0 ug/l	2-Butanone
n-Butylbenzene	75-00-3	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	n-Butylbenzene
sec-Butylbenzene	67-66-3	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	sec-Butylbenzene
tert-Butylbenzene	124-48-1	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	tert-Butylbenzene
Carbon disulfide	96-12-8	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	60.0 ug/l	Carbon disulfide
Carbon tetrachloride	106-96-4	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	Carbon tetrachloride
Chlorobenzene	95-50-1	ug/l	-	ND	ND	ND	6.6	ND	ND	ND	8.1	7.0	ND	ND	ND	ND	ND	5.0 ug/l	Chlorobenzene
Chloroethane	106-45-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	Chloroethane
Chloroform		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.0 ug/l	Chloroform
Chloromethane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	Chloromethane
2-Chlorotoluene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	2-Chlorotoluene
4-Chlorotoluene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	4-Chlorotoluene
Dibromochloromethane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.0 ug/l	Dibromochloromethane
1,2-Dibromo-3-chloropropane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04 ug/l	1,2-Dibromo-3-chloropropane
1,2-Dibromoethane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	1,2-Dibromoethane
Dibromomethane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	Dibromomethane
1,2-Dichlorobenzene		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0 ug/l	1,2-Dichlorobenzene
1,3-Dichlorobenzene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0 ug/l	1,3-Dichlorobenzene
1,4-Dichlorobenzene		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0 ug/l	1,4-Dichlorobenzene
trans-1,4-Dichloro-2-butene		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	trans-1,4-Dichloro-2-butene
Dichlorodifluoromethane		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	Dichlorodifluoromethane
1,1-Dichloroethane	110-57-6	ug/l	-	ND	ND	ND	ND	9.5	ND	ND	ND	ND	ND	ND	ND	ND	11.4	5.0 ug/l	1,1-Dichloroethane
1,2-Dichloroethane	107-06-2	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6 ug/l	1,2-Dichloroethane
1,1-Dichloroethene		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	1,1-Dichloroethene
cis-1,2-Dichloroethene		ug/l	-	ND	ND	ND	6.7	ND	38.2	ND	ND	ND	ND	9.6	ND	45.5	ND	5.0 ug/l	cis-1,2-Dichloroethene
trans-1,2-Dichloroethene		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	trans-1,2-Dichloroethene
1,2-Dichloropropane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0 ug/l	1,2-Dichloropropane
1,3-Dichloropropane		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	1,3-Dichloropropane
2,2-Dichloropropane		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	2,2-Dichloropropane
1,1-Dichloropropene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	1,1-Dichloropropene
cis-1,3-Dichloropropene		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4 ug/l	cis-1,3-Dichloropropene
trans-1,3-Dichloropropene	1006-01-5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4 ug/l	trans-1,3-Dichloropropene
Ethylbenzene	100-41-4	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	Ethylbenzene
2-Hexanone	591-78-6	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.0 ug/l	2-Hexanone
Hexachlorobutadiene	74-83-9	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5 ug/l	Hexachlorobutadiene
Iodomethane	74-87-3	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	Iodomethane
Isopropylbenzene	74-95-3	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	Isopropylbenzene
p-Isopropyltoluene	75-09-02	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	p-Isopropyltoluene
Methylene chloride	78-93-3	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	Methylene chloride
4-Methyl-2-pentanone	108-10-1	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA ug/l	4-Methyl-2-pentanone
Naphthalene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0 ug/l	Naphthalene
n-Propylbenzene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	n-Propylbenzene
Styrene	100-42-5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	Styrene
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	1,1,2,2-Tetrachloroethane
Tetrachloroethene	127-18-4	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	Tetrachloroethene
Toluene	108-88-3	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	Toluene
1,2,3-Trichlorobenzene	96-18-4	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	1,2,4-Trichlorobenzene
1,1,1-Trichloroethane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	1,1,1-Trichloroethane
1,1,2-Trichloroethane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0 ug/l	1,1,2-Trichloroethane
Trichloroethene		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	Trichloroethene
Trichlorofluoromethane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	Trichlorofluoromethane
1,2,3-Trichloropropane	96-18-4	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04 ug/l	1,2,3-Trichloropropane
1,2,4-Trimethylbenzene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	1,3,5-Trimethylbenzene
Vinyl acetate	108-05-4	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA ug/l	Vinyl acetate
Vinyl chloride	75-01-4	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	2.0 ug/l	Vinyl chloride
Total-Xylene	1330-20-7	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0 ug/l	p-Xylene & m-Xylene

"" - Indicates the parameter was not analyzed

ND - Indicates the value is less than the method detection limit

1.00 Value exceeds regulatory standard



# APPENDIX A

## Field Sampling Logs



# WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: **MW-6A**

Project Name: Ischua Landfill [City of Olean]  
Project Location: Airport Road, Town of Ischua, New York

Project No: 2181366  
Date: 9/11/2018  
Sampling Event: Fall 2018 - Baseline

**Development / Purge Information:** [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): **17.19** Water Level (ft): **Dry** Height of Water Column (ft):

1 Well Volume [WV] (gal): 3 WV (gal): 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer X** / Other:

**Purge X** Field Parameters Start Time: **8:40**

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0						
/ 1						
/ 2						
/ 3						

Total Volume Purged (gal): Complete Time: **8:40** Water Level (ft):

**Sampling Information:** Date: 9/11/2018

Sample Time: Water Level(ft): Sample Analysis: **Routine Event / No. of Bottles:**

Sampling Method : **Dedicated Bailer- All** / **Manual grab w/-** Sample Containers **X** ; S/S Pitcher

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics

Other Comments: This well typically does not contain much water and may not be enough for a full bottle set.

**Dry**

X Purger's / X Sampler's Name(s) and Initials SD & MM



# WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: **MW-6D**

Project Name: Ischua Landfill [City of Olean]  
Project Location: Airport Road, Town of Ischua, New York

Project No: 2181366  
Sampling Event: Fall 2018 - Baseline  
Date: 9/11/2018

**Development / Purge Information:** [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

(Note: water measuring tape only goes to 101.2 feet)

Well Depth (ft): **103.14** Water Level (ft): **101** Height of Water Column (ft): **2.14**

1 Well Volume [WV] (gal): **0.34** 3 WV (gal): **1.03** 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer**  / Other: \_\_\_\_\_

**Purge**  **Field Parameters** **Start Time:** **8:45**

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	191.6	7.12	11.0	0.680	365.6	
/ 1						
/ 2						
/ 3						

Total Volume Purged (gal): \_\_\_\_\_ Complete Time: **8:55** Water Level (ft): \_\_\_\_\_

**Sampling Information:** Date: 9/11/2018

Sample Time: **8:00** Water Level(ft): \_\_\_\_\_ Sample Analysis: **Routine Event/No. of Bottles:**

Sampling Method : **Dedicated Bailer**-  / **Manual grab w/-** Sample Containers  ; S/S Pitcher \_\_\_\_\_

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics

Other Comments:  
**Replaced bailer insufficient volume for ysi**  
**Dry after initial partial set VOLCS + TOCS**  
**Sand in bailer partial - BOO, BR, CA, SO4, NO2, TDS**

Purger's /  Sampler's Name(s) and Initials: SD & MM



# WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: MW-7

Project Name: Ischua Landfill [City of Olean]  
Project Location: Airport Road, Town of Ischua, New York

Project No: 2181366  
Sampling Event: Fall 2018 - Baseline  
Date: 9/11/2018

**Development / Purge Information:** [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): 11.64 Water Level (ft): 7.9 Height of Water Column (ft): 3.74

1 Well Volume [WV] (gal): 0.6 3 WV (gal): 1.8 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer**  / Other: \_\_\_\_\_

**Purge**  **Field Parameters** Start Time: ~~9:10~~ 9:10

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	<u>238</u>	<u>6.11</u>	<u>14.3</u>	<u>0.466</u>	<u>89.7</u>	
/ 1	<u>143</u>	<u>6.12</u>	<u>14.0</u>	<u>0.522</u>	<u>66.5</u>	
/ 2	<u>19.6</u>	<u>6.09</u>	<u>14.1</u>	<u>0.525</u>	<u>21.0</u>	
/ 3	<u>10.1</u>	<u>6.13</u>	<u>14.1</u>	<u>0.525</u>	<u>84.7</u>	

Total Volume Purged (gal): \_\_\_\_\_ Complete Time: 9:25 Water Level (ft): \_\_\_\_\_

**Sampling Information:** Date: 9/12/2018

Sample Time: 8:45 Water Level(ft): \_\_\_\_\_ Sample Analysis: **Routine Event/No. of Bottles:**

Sampling Method: **Dedicated Bailer**- All / **Manual grab w/-** Sample Containers  ; S/S Pitcher \_\_\_\_\_

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
<u>-318</u>	<u>6.01</u>	<u>14.5</u>	<u>0.515</u>	<u>10.5</u>	

Other Comments:  
orange in color

Purger's /  Sampler's Name(s) and Initials: SD & MM



# WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: **MW-70** <sup>C</sup>

Project Name: Ischua Landfill [City of Olean]  
Project Location: Airport Road, Town of Ischua, New York

Project No: 2181366  
Sampling Event: Fall 2018 - Baseline  
Date: 9/11/2018

**Development / Purge Information:** [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): **40.30** Water Level (ft): **33.7** Height of Water Column (ft): **6.6**

1 Well Volume [WV] (gal): **1.1** 3 WV (gal): **3.2** 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer  / Other: \_\_\_\_\_

**Purge**  **Field Parameters** Start Time: **9:35**

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	122.1	7.11	10.8	0.594	7.6	
/ 1	132.0	7.2	9.8	0.318	35.7	
/ 2	146.4	7.23	9.7	0.613	64.4	
/ 3	128.1	7.16	10.2	0.612	39.9	

Total Volume Purged (gal): \_\_\_\_\_ Complete Time: **9:50** Water Level (ft): \_\_\_\_\_

**Sampling Information:** Date: 9/12/2018

Sample Time: **9:00** Water Level(ft): \_\_\_\_\_ Sample Analysis: **Routine Event/No. of Bottles:**

Sampling Method : **Dedicated Bailer-**  All / **Manual grab w/-** Sample Containers  ; S/S Pitcher \_\_\_\_\_

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
153.7	7.27	11.2	0.613	25.1	

Other Comments:

Must be given time to recover. Wait well

*clear*

Purger's /  Sampler's Name(s) and Initials: SD & MM



# WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: **MW-8B**

Project Name: Ischua Landfill [City of Olean]  
Project Location: Airport Road, Town of Ischua, New York

Project No: 2181366  
Sampling Event: Fall 2018 - Baseline  
Date: 9/11/2018

**Development / Purge Information:** [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): 25.65 Water Level (ft): 14.3 Height of Water Column (ft): 11.35

1 Well Volume [WV] (gal): 1.8 3 WV (gal): 3.54 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer**  / Other: \_\_\_\_\_

**Purge**  **Field Parameters** Start Time: 13:46

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	<u>-9.1</u>	<u>6.39</u>	<u>12.1</u>	<u>0.479</u>	<u>21.4</u>	
/ 1	<u>-16.7</u>	<u>6.32</u>	<u>10.7</u>	<u>0.519</u>	<u>22.5</u>	
/ 2	<u>-18.8</u>	<u>6.17</u>	<u>10.4</u>	<u>0.527</u>	<u>22.7</u>	
/ 3	<u>-15.0</u>	<u>6.2</u>	<u>10.2</u>	<u>0.53</u>	<u>9.9</u>	

Total Volume Purged (gal): 5.4 Complete Time: ~~14:00~~ 14:00 Water Level (ft): \_\_\_\_\_

**Sampling Information:** Date: 9/12/2018

Sample Time: 13:30 Water Level(ft): \_\_\_\_\_ Sample Analysis: **Routine Event/No. of Bottles:**

Sampling Method: **Dedicated Bailer**- All / **Manual grab w/-** Sample Containers  ; S/S Pitcher \_\_\_\_\_

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
<u>18.1</u>	<u>6.48</u>	<u>13</u>	<u>0.532</u>	<u>20.1</u>	

Other Comments: Clear

MS/MSD

Purger's /  Sampler's Name(s) and Initials: SD & MM



# WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: **MW-9B**

Project Name: Ischua Landfill [City of Olean]  
Project Location: Airport Road, Town of Ischua, New York

Project No: 2181366  
Sampling Event: Fall 2018 - Baseline  
Date: 9/11/2018

**Development / Purge Information:** [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): **32.43** Water Level (ft): **31.5** Height of Water Column (ft): **0.93**

1 Well Volume [WV] (gal): \_\_\_\_\_ 3 WV (gal): \_\_\_\_\_ 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer X** / Other: \_\_\_\_\_

**Purge X** Field Parameters Start Time: **11:23**

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	24.6	6.91	12.5	0.491	17.7	
/ 1	35.5	6.92	11.8	0.461	25.3	
/ 2	50.3	6.95	11.6	0.44	27.0	
/ 3	53	6.99	11.9	0.427	28.8	

Total Volume Purged (gal): \_\_\_\_\_ Complete Time: **11:40** Water Level (ft): \_\_\_\_\_

**Sampling Information:** Date: 9/12/2018

Sample Time: \_\_\_\_\_ Water Level(ft): \_\_\_\_\_ Sample Analysis: **Routine Event/No. of Bottles:**

Sampling Method : **Dedicated Bailer- All** / **Manual grab w/-** Sample Containers **X** ; S/S Pitcher \_\_\_\_\_

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics

Other Comments:

*Insufficient volume for YSI  
VOCs, TOCS, metals + COD, NH3, NO3, Phenols + FR*

Purger's /  Sampler's Name(s) and Initials: SD & MM

*metals  
-8b  
GD →  
metals*

# WELL DEVELOPMENT/ PURGE & SAMPLING LOG

**WELL ID: MW-10B**

Project Name: Ischua Landfill [City of Olean]  
Project Location: Airport Road, Town of Ischua, New York

Project No: 2181366  
Sampling Event: Fall 2018 - Baseline  
Date: 9/11/2018

**Development / Purge Information:** [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): 33.69      Water Level (ft): 22.3      Height of Water Column (ft): 11.39

1 Well Volume [WV] (gal): 1.82      3 WV (gal): 5.5      5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer**  / Other: \_\_\_\_\_

**Purge**  **Field Parameters**      Start Time: 13:05

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	80.0	6.31	11.5	0.553	7.6	
/ 1	53.3	6.34	10.8	0.567	2.2	
/ 2	48.3	6.30	10.6	0.571	4.2	
/ 3	46.4	6.27	10.7	0.582	2.9	

Total Volume Purged (gal): \_\_\_\_\_ Complete Time: 13:20      Water Level (ft): \_\_\_\_\_

**Sampling Information:** Date: 9/12/2018

Sample Time: 13:00      Water Level(ft): \_\_\_\_\_      Sample Analysis: **Routine Event/No. of Bottles:**

Sampling Method: **Dedicated Bailer-**  **All** / **Manual grab w/-** Sample Containers  ; S/S Pitcher \_\_\_\_\_

**Sample Field Parameters**

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
56.8	6.35	13.2	0.595	2.4	

Other Comments:

DUP

Purger's /  Sampler's Name(s) and Initials: SD & MM





# WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: **MW-11B**

Project Name: Ischua Landfill [City of Olean]  
Project Location: Airport Road, Town of Ischua, New York

Project No: 2181366  
Sampling Event: Fall 2018 - Baseline  
Date: 9/11/2018

**Development / Purge Information:** [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): **18.07** Water Level (ft): **16** Height of Water Column (ft): **2.07**

1 Well Volume [WV] (gal): **0.33** 3 WV (gal): **0.99** 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer**  / Other: \_\_\_\_\_

**Purge**  **Field Parameters** Start Time: **10:00**

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	<b>427</b>	<b>5.94</b>	<b>13</b>	<b>0.204</b>	<b>21.0</b>	
/ 1						
/ 2						
/ 3						

Total Volume Purged (gal): **0.3** Complete Time: **10:25** Water Level (ft): \_\_\_\_\_

**Sampling Information:** Date: 9/12/2018

Sample Time: **9:25** Water Level(ft): \_\_\_\_\_ Sample Analysis: **Routine Event/No. of Bottles:**

Sampling Method : **Dedicated Bailer**-  All / **Manual grab w/-** Sample Containers  ; S/S Pitcher \_\_\_\_\_

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
<b>68.5</b>	<b>5.74</b>	<b>13.3</b>	<b>0.193</b>	<b>32.5</b>	

Other Comments:

Wait well. Should be Purged well before sampling.  
**10:25 am - Purge @ 0.3 gal.**

Purger's /  Sampler's Name(s) and Initials: **SD & MM**



# WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: **MW-12A**

Project Name: Ischua Landfill [City of Olean]  
Project Location: Airport Road, Town of Ischua, New York

Project No: 2181366  
Sampling Event: Fall 2018 - Baseline  
Date: 9/11/2018

**Development / Purge Information:** [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): **12.68** Water Level (ft): **10.9** Height of Water Column (ft): **1.78**

1 Well Volume [WV] (gal): **0.28** 3 WV (gal): **0.85** 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer X** / Other: \_\_\_\_\_

**Purge X** Field Parameters Start Time: **10:45**

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start=_____gal] Characteristics
Initial / 0	<b>-60</b>	<b>6.14</b>	<b>13.8</b>	<b>0.893</b>	<b>16.3</b>	
/ 1	<b>81</b>	<b>6.43</b>	<b>14.9</b>	<b>0.828</b>	<b>77.2</b>	
/ 2	<b>109</b>	<b>6.62</b>	<b>15.5</b>	<b>0.740</b>	<b>154</b>	
/ 3						

Total Volume Purged (gal): \_\_\_\_\_ Complete Time: **11:07** Water Level (ft): \_\_\_\_\_

**Sampling Information:** Date: **9/12/2018**

Sample Time: **10:00** Water Level(ft): \_\_\_\_\_ Sample Analysis: **Routine Event/No. of Bottles:**

Sampling Method : **Dedicated Bailer- All** / **Manual grab w/-** Sample Containers **X** ; S/S Pitcher \_\_\_\_\_

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics

Other Comments:

Wait well due to turbidity

**DM @ 2 volumes**

**Clear**

*partial set  
ves, TOC, BOD, BR, CI, SO4, NO2, TDS*

*insufficient volume for ysi + full set*

Purger's /  Sampler's Name(s) and Initials: SD & MM



# WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: **MW-12B**

Project Name: Ischua Landfill [City of Olean]  
Project Location: Airport Road, Town of Ischua, New York

Project No: 2181366  
Sampling Event: Fall 2018 - Baseline  
Date: 9/11/2018

**Development / Purge Information:** [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): 20.90 Water Level (ft): 13.1 Height of Water Column (ft): 7.8

1 Well Volume [WV] (gal): 1.25 3 WV (gal): 3.74 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer X / Other: \_\_\_\_\_

**Purge X Field Parameters** Start Time: 10:32

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	16.2	6.05	14.0	708	7.5	
/ 1	27.0	6.17	12.3	0.877	19.0	
/ 2	47.8	6.10	11.9	0.922	8.1	
/ 3	49.4	6.12	11.6	0.92	9.2	

Total Volume Purged (gal): \_\_\_\_\_ Complete Time: 10:44 Water Level (ft): \_\_\_\_\_

**Sampling Information:** Date: 9/12/2018

Sample Time: 9:45 Water Level(ft): \_\_\_\_\_ Sample Analysis: **Routine Event/No. of Bottles:**

Sampling Method: **Dedicated Bailer-** All / **Manual grab w/-** Sample Containers X ; S/S Pitcher \_\_\_\_\_

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
80.4	6.61	14.6	0.11	16.2	

Other Comments:

clear

X Purger's / X Sampler's Name(s) and Initials: SD & MM



# WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: **MW-13**

Project Name: Ischua Landfill [City of Olean]  
Project Location: Airport Road, Town of Ischua, New York

Project No: 2181366  
Sampling Event: Fall 2018 - Baseline  
Date: 9/11/2018

**Development / Purge Information:** [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): **11.44** Water Level (ft): **3.9** Height of Water Column (ft): **7.54**

1 Well Volume [WV] (gal): **1.2** 3 WV (gal): **3.62** 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer  / Other: \_\_\_\_\_

**Purge**  **Field Parameters** Start Time: **12:45**

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	99.4	6.40	17	0.279	0.1	
/ 1	102.2	6.46	14.4	0.355	9.6	
/ 2	102.8	6.63	14.0	0.381	19.2	
/ 3						

Total Volume Purged (gal): **2.6** Complete Time: **13:00** Water Level (ft): \_\_\_\_\_

**Sampling Information:** Date: 9/12/2018

Sample Time: **12:00** Water Level(ft): \_\_\_\_\_ Sample Analysis: **Routine Event/No. of Bottles:**

Sampling Method : **Dedicated Bailer- All** / **Manual grab w/-** Sample Containers  ; S/S Pitcher \_\_\_\_\_

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
158.8	6.66	16.1	0.350	5.5	

Other Comments:

Requires some wait time after purging.

clear  
Dry @ 2.6 gal.

Purger's /  Sampler's Name(s) and Initials: SD & MM



# WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: **MW-14**

Project Name: Ischua Landfill [City of Olean]  
Project Location: Airport Road, Town of Ischua, New York

Project No: 2181366  
Sampling Event: Fall 2018 - Baseline  
Date: 9/11/2018

**Development / Purge Information:** [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): **23.45** Water Level (ft): **17.0** Height of Water Column (ft): **6.45**

1 Well Volume [WV] (gal): **1.03** 3 WV (gal): **3.1** 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer  / Other: \_\_\_\_\_

**Purge**  **Field Parameters** Start Time: **13:30**

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	61.1	7.57	12.6	0.377	4.0	
/ 1	71.2	7.64	12.1	0.405	1.7	
/ 2	80.0	7.65	12.6	0.407	48.2	
/ 3						

Total Volume Purged (gal): \_\_\_\_\_ Complete Time: **13:40** Water Level (ft): \_\_\_\_\_

**Sampling Information:** Date: 9/12/2018

Sample Time: **16:45** Water Level(ft): \_\_\_\_\_ Sample Analysis: **Routine Event/No. of Bottles:**

Sampling Method : **Dedicated Bailer-**  **All** / **Manual grab w/-** Sample Containers  ; S/S Pitcher \_\_\_\_\_

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
72.9	7.58	12.8	0.421	5.5	

Other Comments:  
Wait well- very slow recharge rate. Must come back several times to obtain samples. Well casing is often full of bees.  
**Dry @ 2 well volumes**

Purger's /  Sampler's Name(s) and Initials: SD & MM



# WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: **SEEP**

Project Name: Ischua Landfill [City of Olean]  
Project Location: Airport Road, Town of Ischua, New York

Project No: 2181366  
Sampling Event: Fall 2018 - Baseline  
Date: **9/ /2018**

Purge not required on this sample- Surface water

**Sampling Information:** Date: **9/12 /2018**

Sample Time: **12:15** Water Level(ft): \_\_\_\_\_ Sample Analysis: **Baseline Event/No. of Bottles:**

Sampling Method : **Dedicated Bailer-** All / **Manual grab w/-** Sample Containers X ; S/S Pitcher \_\_\_\_\_

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics [For SW & SEEP Only: D.O. = <u>3.72</u> mg/L]
<b>-28.1</b>	<b>6.18</b>	<b>14.8</b>	<b>0.453</b>	<b>17.7</b>	

Other Comments:

**orange in color**

X Purger's / X Sampler's Name(s) and Initials: 9



# WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: **STREAM**

Project Name: Ischua Landfill [City of Olean]  
Project Location: Airport Road, Town of Ischua, New York

Project No: 2181366  
Sampling Event: Fall 2018 - Baseline  
Date: 9/ 9/ 2018

Purge not required on this sample- Surface water

**Sampling Information:** Date: 9/ 12 /2018

Sample Time: 12:30 Water Level(ft): Sample Analysis: **Routine Event/No. of Bottles:**

Sampling Method : **Dedicated Bailer-** All / **Manual grab w/-** Sample Containers  ; S/S Pitcher

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics [For SW & SEEP Only: D.O. = 8.55 mg/L]
48.3	7.10	17.9	0.210	1.3	

Other Comments:

Purger's /  Sampler's Name(s) and Initials: SD & MM

716-557-8800  
716 372-4433

# APPENDIX B

## Chain-of-Custody





7064634

**CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

<b>Required Client Information:</b>		<b>Required Project Information:</b>		<b>Section C Invoice Information:</b>	
Company: LaBella Associates		Report To: Andrew Benkleman		Attention:	
Address: 300 Pearl Street		Copy To:		Company Name:	
Buffalo, NY 14201		Purchase Order #:		Address:	
Email: abenkleman@labellapc.com		Project Name: Ischua Landfill		Pace Quote:	
Phone: (716) 551-6281 Fax		Project #: 2181366		Pace Project Manager: jennifer.aracri@pacelabs.com,	
Requested Due Date:				Pace Profile #: 5498 Line 3 & 4	
				<b>Regulatory Agency</b>	
				<b>State / Location</b>	
				NY	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	BOD, BR, Cl, SO4, NO2, TDS		Alkalinity Color, CR+6	COD, NH3, NO3, Phenols, TK	TOC	TAL Metals +B +Hardness	Cyanide	Dissolved Metals by 200.7 (L	Volatiles				
				DATE	TIME	DATE	TIME																								
1	MW-6A	WT																	X	X	X	X	X							X	
2	MW-6D	WT		9/12/18	8:00			5											X	X	X	X	X							X	
3	MW-7A	WT		9/12/18	8:45			9											X	X	X	X	X							X	
4	MW-7C	WT		9/12/18	9:00			9											X	X	X	X	X							X	
5	MW-8B	WT		9/12/18	13:30			9											X	X	X	X	X							X	
6	MW-9B	WT		9/12/18	10:15			6											X	X	X	X	X							X	
7	MW-10B	WT		9/12/18	12:00			9											X	X	X	X	X							X	
8	MW-11B	WT		9/12/18	9:25			5											X	X	X	X	X							X	
9	MW-12A	WT		9/12/18	10:00			5											X	X	X	X	X							X	
10	MW-12B	WT		9/12/18	9:45			9											X	X	X	X	X							X	
11	MW-13	WT		9/12/18	12:00			9											X	X	X	X	X							X	
12	MW-14	WT		9/12/18	10:45			9											X	X	X	X	X							X	

001  
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003  
MS/MSD 004  
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
Part 360 Baseline	Sherryl Dube	9/12/18	16:45	Michael	9/13	1045	Y	Y	Y

<b>SAMPLER NAME AND SIGNATURE</b>		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed:				



# APPENDIX C

## Analytical Laboratory Report

September 28, 2018

Andrew Benkleman  
LaBella Associates  
300 Pearl Street  
Suite 130  
Buffalo, NY 14201

RE: Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

Dear Andrew Benkleman:

Enclosed are the analytical results for sample(s) received by the laboratory on September 13, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jennifer Aracri  
jennifer.aracri@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures

cc: Shannon Dalton, LaBella Associates



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

---

### Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

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## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

---

**Method:** EPA 6010C

**Description:** 6010 MET ICP

**Client:** LaBella Associates

**Date:** September 28, 2018

### General Information:

12 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 83394

B: Analyte was detected in the associated method blank.

- BLANK for HBN 83394 [MPRP/5848 (Lab ID: 383689)]
  - Lead
  - Zinc

QC Batch: 84096

B: Analyte was detected in the associated method blank.

- BLANK for HBN 84096 [MPRP/5892 (Lab ID: 386960)]
  - Zinc

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 83394

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7064635001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 383692)
  - Calcium

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

---

**Method:** EPA 6010C

**Description:** 6010 MET ICP

**Client:** LaBella Associates

**Date:** September 28, 2018

QC Batch: 84096

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7064634004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 386963)

- Iron

- Manganese

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

---

**Method:** EPA 7470A  
**Description:** 7470 Mercury  
**Client:** LaBella Associates  
**Date:** September 28, 2018

**General Information:**

11 samples were analyzed for EPA 7470A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

---

**Method:** EPA 8260C/5030C

**Description:** 8260C Volatile Organics

**Client:** LaBella Associates

**Date:** September 28, 2018

### General Information:

16 samples were analyzed for EPA 8260C/5030C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: 83278

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- LCS (Lab ID: 383259)
  - Acetone
- MS (Lab ID: 384345)
  - Acetone
- MSD (Lab ID: 384346)
  - Acetone
- MW-11B (Lab ID: 7064634007)
  - Acetone
- MW-12A (Lab ID: 7064634008)
  - Acetone
- MW-12B (Lab ID: 7064634009)
  - Acetone
- MW-14 (Lab ID: 7064634011)
  - Acetone
- MW-7C (Lab ID: 7064634003)
  - Acetone

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 83278

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 383259)
  - Acetone
  - Iodomethane
  - Trichlorofluoromethane
- MS (Lab ID: 384345)
  - Acetone
  - Iodomethane
  - Trichlorofluoromethane
- MSD (Lab ID: 384346)
  - Acetone
  - Iodomethane

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

---

**Method:** EPA 8260C/5030C

**Description:** 8260C Volatile Organics

**Client:** LaBella Associates

**Date:** September 28, 2018

QC Batch: 83278

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- Trichlorofluoromethane
- MW-11B (Lab ID: 7064634007)
  - Acetone
- MW-12A (Lab ID: 7064634008)
  - Acetone
- MW-12B (Lab ID: 7064634009)
  - Acetone
- MW-14 (Lab ID: 7064634011)
  - Acetone
- MW-7C (Lab ID: 7064634003)
  - Acetone

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 383258)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate
- DUP (Lab ID: 7064634014)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate
- LCS (Lab ID: 383259)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate
- MS (Lab ID: 384345)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate
- MSD (Lab ID: 384346)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate
- MW-10B (Lab ID: 7064634006)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate
- MW-11B (Lab ID: 7064634007)
  - 1,1,2,2-Tetrachloroethane

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

---

**Method:** EPA 8260C/5030C

**Description:** 8260C Volatile Organics

**Client:** LaBella Associates

**Date:** September 28, 2018

QC Batch: 83278

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- 2-Butanone (MEK)
- Acrylonitrile
- Vinyl acetate
- MW-12A (Lab ID: 7064634008)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate
- MW-12B (Lab ID: 7064634009)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate
- MW-13 (Lab ID: 7064634010)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate
- MW-14 (Lab ID: 7064634011)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate
- MW-6D (Lab ID: 7064634001)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate
- MW-7A (Lab ID: 7064634002)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate
- MW-7C (Lab ID: 7064634003)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate
- MW-8B (Lab ID: 7064634004)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate
- MW-9B (Lab ID: 7064634005)

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

---

**Method:** EPA 8260C/5030C

**Description:** 8260C Volatile Organics

**Client:** LaBella Associates

**Date:** September 28, 2018

QC Batch: 83278

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- 1,1,2,2-Tetrachloroethane
- 2-Butanone (MEK)
- Acrylonitrile
- Vinyl acetate
- SEEP (Lab ID: 7064634012)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate
- STORAGE BLANK (Lab ID: 7064634016)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate
- STREAM (Lab ID: 7064634013)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate
- TRIP BLANK (Lab ID: 7064634015)
  - 1,1,2,2-Tetrachloroethane
  - 2-Butanone (MEK)
  - Acrylonitrile
  - Vinyl acetate

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

---

**Method:** EPA 8260C/5030C

**Description:** 8260C Volatile Organics

**Client:** LaBella Associates

**Date:** September 28, 2018

QC Batch: 83278

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7064634004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 384345)
  - 1,1,2,2-Tetrachloroethane
  - 1,1,2-Trichloroethane
  - 1,1-Dichloroethane
  - 1,2-Dibromoethane (EDB)
  - 1,2-Dichloropropane
  - 4-Methyl-2-pentanone (MIBK)
  - Bromochloromethane
  - cis-1,3-Dichloropropene
- MSD (Lab ID: 384346)
  - 1,1,2-Trichloroethane
  - 1,1-Dichloroethane

R1: RPD value was outside control limits.

- MSD (Lab ID: 384346)
  - 1,2-Dichloropropane
  - 4-Methyl-2-pentanone (MIBK)
  - cis-1,3-Dichloropropene

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

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**Method:** EPA 8260

**Description:** TIC MSV Water

**Client:** LaBella Associates

**Date:** September 28, 2018

**General Information:**

14 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

---

**Method:** SM22 2120B

**Description:** 2120B W Apparent Color

**Client:** LaBella Associates

**Date:** September 28, 2018

**General Information:**

10 samples were analyzed for SM22 2120B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

---

**Method:** SM22 2320B

**Description:** 2320B Alkalinity

**Client:** LaBella Associates

**Date:** September 28, 2018

**General Information:**

10 samples were analyzed for SM22 2320B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

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**Method:** SM22 2340C

**Description:** 2340C Hardness, Total

**Client:** LaBella Associates

**Date:** September 28, 2018

**General Information:**

12 samples were analyzed for SM22 2340C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

---

**Method:** SM22 2540C

**Description:** 2540C Total Dissolved Solids

**Client:** LaBella Associates

**Date:** September 28, 2018

**General Information:**

12 samples were analyzed for SM22 2540C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

---

**Method:** SM22 3500-Cr B

**Description:** Chromium, Hexavalent

**Client:** LaBella Associates

**Date:** September 28, 2018

### General Information:

10 samples were analyzed for SM22 3500-Cr B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.

- MW-10B (Lab ID: 7064634006)
- MW-13 (Lab ID: 7064634010)
- MW-14 (Lab ID: 7064634011)
- MW-8B (Lab ID: 7064634004)
- SEEP (Lab ID: 7064634012)
- STREAM (Lab ID: 7064634013)

H3: Sample was received or analysis requested beyond the recognized method holding time.

- DUP (Lab ID: 7064634014)
- MW-12B (Lab ID: 7064634009)
- MW-7A (Lab ID: 7064634002)
- MW-7C (Lab ID: 7064634003)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

---

**Method:** EPA 410.4  
**Description:** 410.4 COD  
**Client:** LaBella Associates  
**Date:** September 28, 2018

**General Information:**

11 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 410.4 with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

---

**Method:** SM22 5210B

**Description:** 5210B BOD, 5 day

**Client:** LaBella Associates

**Date:** September 28, 2018

**General Information:**

12 samples were analyzed for SM22 5210B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with SM22 5210B with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

---

**Method:** EPA 300.0

**Description:** 300.0 IC Anions 28 Days

**Client:** LaBella Associates

**Date:** September 28, 2018

**General Information:**

12 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 84647

B: Analyte was detected in the associated method blank.

- BLANK for HBN 84647 [WETA/1355 (Lab ID: 389288)]
  - Sulfate

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

---

**Method:** EPA 351.2  
**Description:** 351.2 Total Kjeldahl Nitrogen  
**Client:** LaBella Associates  
**Date:** September 28, 2018

**General Information:**

11 samples were analyzed for EPA 351.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 84467

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7065217002,7065438002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 388619)
- Nitrogen, Kjeldahl, Total

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

---

**Method:** EPA 353.2  
**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.  
**Client:** LaBella Associates  
**Date:** September 28, 2018

### General Information:

11 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 82960

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7064274008,7064634004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 381723)
  - Nitrate-Nitrite (as N)
- MS (Lab ID: 381725)
  - Nitrate-Nitrite (as N)

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

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**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO<sub>2</sub>

**Client:** LaBella Associates

**Date:** September 28, 2018

**General Information:**

12 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

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**Method:** EPA 420.1

**Description:** Phenolics, Total Recoverable

**Client:** LaBella Associates

**Date:** September 28, 2018

**General Information:**

11 samples were analyzed for EPA 420.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 420.1 with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

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**Method:** SM22 4500 NH3 H

**Description:** 4500 Ammonia Water

**Client:** LaBella Associates

**Date:** September 28, 2018

### General Information:

11 samples were analyzed for SM22 4500 NH3 H. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 84319

B: Analyte was detected in the associated method blank.

- BLANK for HBN 84319 [WETA/1351 (Lab ID: 387828)
- Nitrogen, Ammonia

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

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**Method:** EPA 9014 Total Cyanide

**Description:** 9014 Cyanide, Total

**Client:** LaBella Associates

**Date:** September 28, 2018

**General Information:**

9 samples were analyzed for EPA 9014 Total Cyanide. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 9010C with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

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**Method:** EPA 9060A

**Description:** 9060A TOC as NPOC

**Client:** LaBella Associates

**Date:** September 28, 2018

**General Information:**

14 samples were analyzed for EPA 9060A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-6D		Lab ID: 7064634001	Collected: 09/12/18 08:00	Received: 09/13/18 10:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Aluminum	27300	ug/L	200	1	09/22/18 10:00	09/24/18 23:23	7429-90-5	
Antimony	<60.0	ug/L	60.0	1	09/22/18 10:00	09/24/18 23:23	7440-36-0	
Arsenic	62.6	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:23	7440-38-2	
Barium	205	ug/L	200	1	09/22/18 10:00	09/24/18 23:23	7440-39-3	
Beryllium	1.4J	ug/L	5.0	1	09/22/18 10:00	09/24/18 23:23	7440-41-7	
Boron	38.2J	ug/L	50.0	1	09/22/18 10:00	09/24/18 23:23	7440-42-8	
Cadmium	<2.5	ug/L	2.5	1	09/22/18 10:00	09/24/18 23:23	7440-43-9	
Calcium	120000	ug/L	200	1	09/22/18 10:00	09/24/18 23:23	7440-70-2	
Chromium	50.4	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:23	7440-47-3	
Cobalt	38.7J	ug/L	50.0	1	09/22/18 10:00	09/24/18 23:23	7440-48-4	
Copper	53.3	ug/L	25.0	1	09/22/18 10:00	09/24/18 23:23	7440-50-8	
Iron	63400	ug/L	20.0	1	09/22/18 10:00	09/25/18 11:48	7439-89-6	
Lead	126	ug/L	5.0	1	09/22/18 10:00	09/24/18 23:23	7439-92-1	
Magnesium	35100	ug/L	200	1	09/22/18 10:00	09/24/18 23:23	7439-95-4	
Manganese	1780	ug/L	10.0	1	09/22/18 10:00	09/25/18 11:48	7439-96-5	
Nickel	61.6	ug/L	40.0	1	09/22/18 10:00	09/24/18 23:23	7440-02-0	
Potassium	7390	ug/L	5000	1	09/22/18 10:00	09/24/18 23:23	7440-09-7	
Selenium	<10.0	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:23	7782-49-2	
Silver	<10.0	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:23	7440-22-4	
Sodium	6620	ug/L	5000	1	09/22/18 10:00	09/24/18 23:23	7440-23-5	
Thallium	5.0J	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:23	7440-28-0	
Vanadium	31.9J	ug/L	50.0	1	09/22/18 10:00	09/24/18 23:23	7440-62-2	
Zinc	178	ug/L	20.0	1	09/22/18 10:00	09/24/18 23:23	7440-66-6	B
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	0.17J	ug/L	0.20	1	09/21/18 09:44	09/24/18 11:23	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/18/18 00:09	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/18/18 00:09	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/18/18 00:09	79-34-5	CL
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/18/18 00:09	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/18/18 00:09	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/18/18 00:09	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/18/18 00:09	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/18/18 00:09	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/18/18 00:09	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/18/18 00:09	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/18/18 00:09	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/18/18 00:09	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/18/18 00:09	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/18/18 00:09	78-93-3	CL
2-Hexanone	ND	ug/L	5.0	1		09/18/18 00:09	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/18/18 00:09	108-10-1	
Acetone	ND	ug/L	5.0	1		09/18/18 00:09	67-64-1	
Acrylonitrile	ND	ug/L	5.0	1		09/18/18 00:09	107-13-1	CL

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

<b>Sample: MW-6D</b>		<b>Lab ID: 7064634001</b>	Collected: 09/12/18 08:00	Received: 09/13/18 10:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	ND	ug/L	5.0	1		09/18/18 00:09	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		09/18/18 00:09	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/18/18 00:09	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/18/18 00:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/18/18 00:09	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		09/18/18 00:09	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/18/18 00:09	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/18/18 00:09	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/18/18 00:09	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/18/18 00:09	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/18/18 00:09	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/18/18 00:09	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		09/18/18 00:09	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		09/18/18 00:09	100-41-4	
Iodomethane	ND	ug/L	5.0	1		09/18/18 00:09	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		09/18/18 00:09	75-09-2	
Styrene	ND	ug/L	5.0	1		09/18/18 00:09	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/18/18 00:09	127-18-4	
Toluene	ND	ug/L	5.0	1		09/18/18 00:09	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		09/18/18 00:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/18/18 00:09	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		09/18/18 00:09	108-05-4	CL
Vinyl chloride	ND	ug/L	5.0	1		09/18/18 00:09	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/18/18 00:09	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/18/18 00:09	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/18/18 00:09	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/18/18 00:09	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/18/18 00:09	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		09/18/18 00:09	110-57-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	111	%	68-153	1		09/18/18 00:09	17060-07-0	
4-Bromofluorobenzene (S)	114	%	79-124	1		09/18/18 00:09	460-00-4	
Toluene-d8 (S)	95	%	69-124	1		09/18/18 00:09	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260						
TIC Search	<b>No TIC's Found</b>			1		09/20/18 22:07		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	<b>347</b>	mg/L	5.0	1		09/25/18 12:42		
<b>9060A TOC as NPOC</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	<b>2.2</b>	mg/L	1.0	1		09/21/18 20:02	7440-44-0	
Total Organic Carbon	<b>2.3</b>	mg/L	1.0	1		09/21/18 20:02	7440-44-0	
Total Organic Carbon	<b>2.0</b>	mg/L	1.0	1		09/21/18 20:02	7440-44-0	
Total Organic Carbon	<b>2.0</b>	mg/L	1.0	1		09/21/18 20:02	7440-44-0	
Mean Total Organic Carbon	<b>2.1</b>	mg/L	1.0	1		09/21/18 20:02	7440-44-0	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-7A	Lab ID: 7064634002	Collected: 09/12/18 08:45	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Aluminum	104J	ug/L	200	1	09/22/18 10:00	09/24/18 23:28	7429-90-5	
Antimony	<60.0	ug/L	60.0	1	09/22/18 10:00	09/24/18 23:28	7440-36-0	
Arsenic	41.3	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:28	7440-38-2	
Barium	617	ug/L	200	1	09/22/18 10:00	09/24/18 23:28	7440-39-3	
Beryllium	<5.0	ug/L	5.0	1	09/22/18 10:00	09/24/18 23:28	7440-41-7	
Boron	86.5	ug/L	50.0	1	09/22/18 10:00	09/24/18 23:28	7440-42-8	
Cadmium	<2.5	ug/L	2.5	1	09/22/18 10:00	09/24/18 23:28	7440-43-9	
Calcium	48200	ug/L	200	1	09/22/18 10:00	09/24/18 23:28	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:28	7440-47-3	
Cobalt	11.8J	ug/L	50.0	1	09/22/18 10:00	09/24/18 23:28	7440-48-4	
Copper	<25.0	ug/L	25.0	1	09/22/18 10:00	09/24/18 23:28	7440-50-8	
Iron	25200	ug/L	20.0	1	09/22/18 10:00	09/25/18 11:49	7439-89-6	
Lead	2.1J	ug/L	5.0	1	09/22/18 10:00	09/24/18 23:28	7439-92-1	
Magnesium	9510	ug/L	200	1	09/22/18 10:00	09/24/18 23:28	7439-95-4	
Manganese	12700	ug/L	10.0	1	09/22/18 10:00	09/25/18 11:49	7439-96-5	
Nickel	4.8J	ug/L	40.0	1	09/22/18 10:00	09/24/18 23:28	7440-02-0	
Potassium	17900	ug/L	5000	1	09/22/18 10:00	09/24/18 23:28	7440-09-7	
Selenium	<10.0	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:28	7782-49-2	
Silver	<10.0	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:28	7440-22-4	
Sodium	4420J	ug/L	5000	1	09/22/18 10:00	09/24/18 23:28	7440-23-5	
Thallium	14.5	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:28	7440-28-0	
Vanadium	1.2J	ug/L	50.0	1	09/22/18 10:00	09/24/18 23:28	7440-62-2	
Zinc	7.8J	ug/L	20.0	1	09/22/18 10:00	09/24/18 23:28	7440-66-6	B
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	0.13J	ug/L	0.20	1	09/21/18 09:44	09/24/18 11:35	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 23:51	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/17/18 23:51	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 23:51	79-34-5	CL
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/17/18 23:51	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/17/18 23:51	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/17/18 23:51	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/17/18 23:51	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/17/18 23:51	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/17/18 23:51	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 23:51	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/17/18 23:51	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/17/18 23:51	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 23:51	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/17/18 23:51	78-93-3	CL
2-Hexanone	ND	ug/L	5.0	1		09/17/18 23:51	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/17/18 23:51	108-10-1	
Acetone	ND	ug/L	5.0	1		09/17/18 23:51	67-64-1	
Acrylonitrile	ND	ug/L	5.0	1		09/17/18 23:51	107-13-1	CL

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-7A	Lab ID: 7064634002	Collected: 09/12/18 08:45	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	ND	ug/L	5.0	1		09/17/18 23:51	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		09/17/18 23:51	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/17/18 23:51	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/17/18 23:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/17/18 23:51	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		09/17/18 23:51	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/17/18 23:51	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/17/18 23:51	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/17/18 23:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/17/18 23:51	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/17/18 23:51	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/17/18 23:51	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		09/17/18 23:51	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		09/17/18 23:51	100-41-4	
Iodomethane	ND	ug/L	5.0	1		09/17/18 23:51	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		09/17/18 23:51	75-09-2	
Styrene	ND	ug/L	5.0	1		09/17/18 23:51	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/17/18 23:51	127-18-4	
Toluene	ND	ug/L	5.0	1		09/17/18 23:51	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		09/17/18 23:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/17/18 23:51	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		09/17/18 23:51	108-05-4	CL
Vinyl chloride	ND	ug/L	5.0	1		09/17/18 23:51	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/17/18 23:51	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 23:51	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 23:51	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 23:51	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 23:51	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		09/17/18 23:51	110-57-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	110	%	68-153	1		09/17/18 23:51	17060-07-0	
4-Bromofluorobenzene (S)	107	%	79-124	1		09/17/18 23:51	460-00-4	
Toluene-d8 (S)	90	%	69-124	1		09/17/18 23:51	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260						
TIC Search	<b>No TIC's Found</b>			1		09/20/18 22:09		
<b>2120B W Apparent Color</b>		Analytical Method: SM22 2120B						
Apparent Color	<b>75.0</b>	units	25.0	5		09/13/18 15:32		
pH	<b>7.0</b>	Std. Units	0.10	5		09/13/18 15:32		
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	<b>249</b>	mg/L	1.0	1		09/25/18 04:58		

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-7A	Lab ID: 7064634002	Collected: 09/12/18 08:45	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2340C Hardness, Total</b>	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B)	<b>187</b>	mg/L	5.0	1		09/25/18 12:45		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM22 2540C							
Total Dissolved Solids	<b>246</b>	mg/L	10.0	1		09/18/18 16:34		
<b>Chromium, Hexavalent</b>	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	<b>&lt;0.020</b>	mg/L	0.020	1		09/13/18 16:39	18540-29-9	H3
<b>410.4 COD</b>	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	<b>50.2</b>	mg/L	10.0	1	09/20/18 10:07	09/20/18 12:34		
<b>5210B BOD, 5 day</b>	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	<b>8.3</b>	mg/L	2.0	1	09/13/18 16:22	09/18/18 12:19		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Bromide	<b>0.30J</b>	mg/L	0.50	1		09/26/18 19:03	24959-67-9	
Chloride	<b>4.6</b>	mg/L	2.0	1		09/26/18 19:03	16887-00-6	
Sulfate	<b>24.6</b>	mg/L	5.0	1		09/26/18 19:03	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	<b>0.43</b>	mg/L	0.10	1	09/26/18 06:18	09/26/18 14:17	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	<b>0.070</b>	mg/L	0.050	1		09/13/18 23:26	7727-37-9	
<b>353.2 Nitrogen, NO2</b>	Analytical Method: EPA 353.2							
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050	1		09/13/18 20:53	14797-65-0	
<b>Phenolics, Total Recoverable</b>	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	<b>9.5</b>	ug/L	5.0	1	09/24/18 12:00	09/24/18 15:38		
<b>4500 Ammonia Water</b>	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	<b>1.2</b>	mg/L	0.10	1		09/25/18 11:58	7664-41-7	
<b>9014 Cyanide, Total</b>	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	<b>&lt;10.0</b>	ug/L	10.0	1	09/19/18 10:08	09/19/18 14:42	57-12-5	
<b>9060A TOC as NPOC</b>	Analytical Method: EPA 9060A							
Total Organic Carbon	<b>5.7</b>	mg/L	1.0	1		09/21/18 20:14	7440-44-0	
Total Organic Carbon	<b>5.7</b>	mg/L	1.0	1		09/21/18 20:14	7440-44-0	
Total Organic Carbon	<b>5.7</b>	mg/L	1.0	1		09/21/18 20:14	7440-44-0	
Total Organic Carbon	<b>5.7</b>	mg/L	1.0	1		09/21/18 20:14	7440-44-0	
Mean Total Organic Carbon	<b>5.7</b>	mg/L	1.0	1		09/21/18 20:14	7440-44-0	

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-7C		Lab ID: 7064634003	Collected: 09/12/18 09:00	Received: 09/13/18 10:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Aluminum	<200	ug/L	200	1	09/22/18 10:00	09/24/18 23:34	7429-90-5	
Antimony	<60.0	ug/L	60.0	1	09/22/18 10:00	09/24/18 23:34	7440-36-0	
Arsenic	<10.0	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:34	7440-38-2	
Barium	140J	ug/L	200	1	09/22/18 10:00	09/24/18 23:34	7440-39-3	
Beryllium	<5.0	ug/L	5.0	1	09/22/18 10:00	09/24/18 23:34	7440-41-7	
Boron	13.6J	ug/L	50.0	1	09/22/18 10:00	09/24/18 23:34	7440-42-8	
Cadmium	<2.5	ug/L	2.5	1	09/22/18 10:00	09/24/18 23:34	7440-43-9	
Calcium	97800	ug/L	200	1	09/22/18 10:00	09/24/18 23:34	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:34	7440-47-3	
Cobalt	<50.0	ug/L	50.0	1	09/22/18 10:00	09/24/18 23:34	7440-48-4	
Copper	<25.0	ug/L	25.0	1	09/22/18 10:00	09/24/18 23:34	7440-50-8	
Iron	147	ug/L	20.0	1	09/22/18 10:00	09/25/18 11:50	7439-89-6	
Lead	<5.0	ug/L	5.0	1	09/22/18 10:00	09/24/18 23:34	7439-92-1	
Magnesium	15700	ug/L	200	1	09/22/18 10:00	09/24/18 23:34	7439-95-4	
Manganese	2950	ug/L	10.0	1	09/22/18 10:00	09/25/18 11:50	7439-96-5	
Nickel	1.1J	ug/L	40.0	1	09/22/18 10:00	09/24/18 23:34	7440-02-0	
Potassium	1790J	ug/L	5000	1	09/22/18 10:00	09/24/18 23:34	7440-09-7	
Selenium	<10.0	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:34	7782-49-2	
Silver	<10.0	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:34	7440-22-4	
Sodium	6240	ug/L	5000	1	09/22/18 10:00	09/24/18 23:34	7440-23-5	
Thallium	<10.0	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:34	7440-28-0	
Vanadium	<50.0	ug/L	50.0	1	09/22/18 10:00	09/24/18 23:34	7440-62-2	
Zinc	29.2	ug/L	20.0	1	09/22/18 10:00	09/24/18 23:34	7440-66-6	B
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	0.14J	ug/L	0.20	1	09/21/18 09:44	09/24/18 11:37	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 23:33	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/17/18 23:33	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 23:33	79-34-5	CL
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/17/18 23:33	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/17/18 23:33	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/17/18 23:33	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/17/18 23:33	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/17/18 23:33	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/17/18 23:33	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 23:33	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/17/18 23:33	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/17/18 23:33	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 23:33	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/17/18 23:33	78-93-3	CL
2-Hexanone	ND	ug/L	5.0	1		09/17/18 23:33	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/17/18 23:33	108-10-1	
Acetone	ND	ug/L	5.0	1		09/17/18 23:33	67-64-1	CH,IH
Acrylonitrile	ND	ug/L	5.0	1		09/17/18 23:33	107-13-1	CL

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-7C	Lab ID: 7064634003	Collected: 09/12/18 09:00	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	ND	ug/L	5.0	1		09/17/18 23:33	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		09/17/18 23:33	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/17/18 23:33	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/17/18 23:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/17/18 23:33	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		09/17/18 23:33	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/17/18 23:33	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/17/18 23:33	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/17/18 23:33	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/17/18 23:33	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/17/18 23:33	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/17/18 23:33	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		09/17/18 23:33	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		09/17/18 23:33	100-41-4	
Iodomethane	ND	ug/L	5.0	1		09/17/18 23:33	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		09/17/18 23:33	75-09-2	
Styrene	ND	ug/L	5.0	1		09/17/18 23:33	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/17/18 23:33	127-18-4	
Toluene	ND	ug/L	5.0	1		09/17/18 23:33	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		09/17/18 23:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/17/18 23:33	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		09/17/18 23:33	108-05-4	CL
Vinyl chloride	ND	ug/L	5.0	1		09/17/18 23:33	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/17/18 23:33	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 23:33	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 23:33	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 23:33	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 23:33	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		09/17/18 23:33	110-57-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	112	%	68-153	1		09/17/18 23:33	17060-07-0	
4-Bromofluorobenzene (S)	105	%	79-124	1		09/17/18 23:33	460-00-4	
Toluene-d8 (S)	88	%	69-124	1		09/17/18 23:33	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260						
TIC Search	<b>No TIC's Found</b>			1		09/20/18 22:10		
<b>2120B W Apparent Color</b>		Analytical Method: SM22 2120B						
Apparent Color	<b>15.0</b>	units	5.0	1		09/13/18 15:32		
pH	<b>8.0</b>	Std. Units	0.10	1		09/13/18 15:32		
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	<b>314</b>	mg/L	1.0	1		09/25/18 05:13		

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

Sample: MW-7C	Lab ID: 7064634003	Collected: 09/12/18 09:00	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2340C Hardness, Total</b>	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B)	<b>273</b>	mg/L	5.0	1		09/25/18 12:48		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM22 2540C							
Total Dissolved Solids	<b>323</b>	mg/L	10.0	1		09/18/18 16:34		
<b>Chromium, Hexavalent</b>	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	<b>&lt;0.020</b>	mg/L	0.020	1		09/13/18 16:40	18540-29-9	H3
<b>410.4 COD</b>	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	<b>15.5</b>	mg/L	10.0	1	09/20/18 10:07	09/20/18 12:35		
<b>5210B BOD, 5 day</b>	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	<b>&lt;2.0</b>	mg/L	2.0	1	09/13/18 16:22	09/18/18 12:21		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Bromide	<b>0.18J</b>	mg/L	0.50	1		09/26/18 19:20	24959-67-9	
Chloride	<b>6.3</b>	mg/L	2.0	1		09/26/18 19:20	16887-00-6	
Sulfate	<b>9.3</b>	mg/L	5.0	1		09/26/18 19:20	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	<b>2.8</b>	mg/L	0.10	1	09/26/18 06:18	09/26/18 14:18	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	<b>&lt;0.050</b>	mg/L	0.050	1		09/13/18 23:27	7727-37-9	
<b>353.2 Nitrogen, NO2</b>	Analytical Method: EPA 353.2							
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050	1		09/13/18 20:54	14797-65-0	
<b>Phenolics, Total Recoverable</b>	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	<b>&lt;5.0</b>	ug/L	5.0	1	09/24/18 12:00	09/24/18 15:38		
<b>4500 Ammonia Water</b>	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	<b>0.089J</b>	mg/L	0.10	1		09/25/18 12:04	7664-41-7	B
<b>9014 Cyanide, Total</b>	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	<b>&lt;10.0</b>	ug/L	10.0	1	09/19/18 10:08	09/19/18 14:49	57-12-5	
<b>9060A TOC as NPOC</b>	Analytical Method: EPA 9060A							
Total Organic Carbon	<b>1.7</b>	mg/L	1.0	1		09/21/18 20:25	7440-44-0	
Total Organic Carbon	<b>1.7</b>	mg/L	1.0	1		09/21/18 20:25	7440-44-0	
Total Organic Carbon	<b>1.8</b>	mg/L	1.0	1		09/21/18 20:25	7440-44-0	
Total Organic Carbon	<b>1.6</b>	mg/L	1.0	1		09/21/18 20:25	7440-44-0	
Mean Total Organic Carbon	<b>1.7</b>	mg/L	1.0	1		09/21/18 20:25	7440-44-0	

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-8B	Lab ID: 7064634004	Collected: 09/12/18 13:30	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Aluminum	41.6J	ug/L	200	1	09/22/18 10:00	09/24/18 23:39	7429-90-5	
Antimony	<60.0	ug/L	60.0	1	09/22/18 10:00	09/24/18 23:39	7440-36-0	
Arsenic	22.8	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:39	7440-38-2	
Barium	126J	ug/L	200	1	09/22/18 10:00	09/24/18 23:39	7440-39-3	
Beryllium	<5.0	ug/L	5.0	1	09/22/18 10:00	09/24/18 23:39	7440-41-7	
Boron	56.5	ug/L	50.0	1	09/22/18 10:00	09/24/18 23:39	7440-42-8	
Cadmium	<2.5	ug/L	2.5	1	09/22/18 10:00	09/24/18 23:39	7440-43-9	
Calcium	74400	ug/L	200	1	09/22/18 10:00	09/24/18 23:39	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:39	7440-47-3	
Cobalt	11.6J	ug/L	50.0	1	09/22/18 10:00	09/24/18 23:39	7440-48-4	
Copper	<25.0	ug/L	25.0	1	09/22/18 10:00	09/24/18 23:39	7440-50-8	
Iron	7150	ug/L	20.0	1	09/22/18 10:00	09/25/18 11:51	7439-89-6	M1
Lead	1.3J	ug/L	5.0	1	09/22/18 10:00	09/24/18 23:39	7439-92-1	
Magnesium	10700	ug/L	200	1	09/22/18 10:00	09/24/18 23:39	7439-95-4	
Manganese	8250	ug/L	10.0	1	09/22/18 10:00	09/25/18 11:51	7439-96-5	M1
Nickel	4.8J	ug/L	40.0	1	09/22/18 10:00	09/24/18 23:39	7440-02-0	
Potassium	3050J	ug/L	5000	1	09/22/18 10:00	09/24/18 23:39	7440-09-7	
Selenium	<10.0	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:39	7782-49-2	
Silver	<10.0	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:39	7440-22-4	
Sodium	5100	ug/L	5000	1	09/22/18 10:00	09/24/18 23:39	7440-23-5	
Thallium	10.3	ug/L	10.0	1	09/22/18 10:00	09/24/18 23:39	7440-28-0	
Vanadium	1.4J	ug/L	50.0	1	09/22/18 10:00	09/24/18 23:39	7440-62-2	
Zinc	9.9J	ug/L	20.0	1	09/22/18 10:00	09/24/18 23:39	7440-66-6	B
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	0.14J	ug/L	0.20	1	09/21/18 09:44	09/24/18 11:39	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/18/18 00:27	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/18/18 00:27	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/18/18 00:27	79-34-5	CL,M1
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/18/18 00:27	79-00-5	M1
1,1-Dichloroethane	ND	ug/L	5.0	1		09/18/18 00:27	75-34-3	M1
1,1-Dichloroethene	ND	ug/L	5.0	1		09/18/18 00:27	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/18/18 00:27	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/18/18 00:27	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/18/18 00:27	106-93-4	M1
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/18/18 00:27	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/18/18 00:27	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/18/18 00:27	78-87-5	M1,R1
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/18/18 00:27	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/18/18 00:27	78-93-3	CL
2-Hexanone	ND	ug/L	5.0	1		09/18/18 00:27	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/18/18 00:27	108-10-1	M1,R1
Acetone	ND	ug/L	5.0	1		09/18/18 00:27	67-64-1	
Acrylonitrile	ND	ug/L	5.0	1		09/18/18 00:27	107-13-1	CL

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-8B	Lab ID: 7064634004	Collected: 09/12/18 13:30	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	ND	ug/L	5.0	1		09/18/18 00:27	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		09/18/18 00:27	74-97-5	M1
Bromodichloromethane	ND	ug/L	5.0	1		09/18/18 00:27	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/18/18 00:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/18/18 00:27	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		09/18/18 00:27	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/18/18 00:27	56-23-5	
Chlorobenzene	<b>6.6</b>	ug/L	5.0	1		09/18/18 00:27	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/18/18 00:27	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/18/18 00:27	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/18/18 00:27	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/18/18 00:27	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		09/18/18 00:27	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		09/18/18 00:27	100-41-4	
Iodomethane	ND	ug/L	5.0	1		09/18/18 00:27	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		09/18/18 00:27	75-09-2	
Styrene	ND	ug/L	5.0	1		09/18/18 00:27	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/18/18 00:27	127-18-4	
Toluene	ND	ug/L	5.0	1		09/18/18 00:27	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		09/18/18 00:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/18/18 00:27	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		09/18/18 00:27	108-05-4	CL
Vinyl chloride	ND	ug/L	5.0	1		09/18/18 00:27	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/18/18 00:27	1330-20-7	
cis-1,2-Dichloroethene	<b>6.7</b>	ug/L	5.0	1		09/18/18 00:27	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/18/18 00:27	10061-01-5	M1, R1
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/18/18 00:27	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/18/18 00:27	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		09/18/18 00:27	110-57-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	112	%	68-153	1		09/18/18 00:27	17060-07-0	
4-Bromofluorobenzene (S)	109	%	79-124	1		09/18/18 00:27	460-00-4	
Toluene-d8 (S)	88	%	69-124	1		09/18/18 00:27	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260						
TIC Search	<b>No TIC's Found</b>			1		09/20/18 22:29		
<b>2120B W Apparent Color</b>		Analytical Method: SM22 2120B						
Apparent Color	<b>15.0</b>	units	5.0	1		09/13/18 15:33		
pH	<b>7.0</b>	Std. Units	0.10	1		09/13/18 15:33		
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	<b>278</b>	mg/L	1.0	1		09/25/18 05:28		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

Sample: MW-8B	Lab ID: 7064634004	Collected: 09/12/18 13:30	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2340C Hardness, Total</b>	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B)	<b>173</b>	mg/L	5.0	1		09/26/18 12:12		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM22 2540C							
Total Dissolved Solids	<b>279</b>	mg/L	10.0	1		09/18/18 16:43		
<b>Chromium, Hexavalent</b>	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	<b>&lt;0.020</b>	mg/L	0.020	1		09/13/18 16:44	18540-29-9	H1
<b>410.4 COD</b>	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	<b>46.1</b>	mg/L	10.0	1	09/20/18 10:07	09/20/18 12:35		
<b>5210B BOD, 5 day</b>	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	<b>&lt;2.0</b>	mg/L	2.0	1	09/13/18 16:30	09/18/18 12:24		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Bromide	<b>&lt;0.50</b>	mg/L	0.50	1		09/26/18 19:37	24959-67-9	
Chloride	<b>4.9</b>	mg/L	2.0	1		09/26/18 19:37	16887-00-6	
Sulfate	<b>5.7</b>	mg/L	5.0	1		09/26/18 19:37	14808-79-8	B
<b>351.2 Total Kjeldahl Nitrogen</b>	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	<b>2.4</b>	mg/L	1.0	10	09/26/18 06:18	09/26/18 14:19	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	<b>&lt;0.050</b>	mg/L	0.050	1		09/13/18 23:29	7727-37-9	M1
<b>353.2 Nitrogen, NO2</b>	Analytical Method: EPA 353.2							
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050	1		09/13/18 20:56	14797-65-0	
<b>Phenolics, Total Recoverable</b>	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	<b>27.4</b>	ug/L	5.0	1	09/26/18 12:00	09/26/18 15:55		
<b>4500 Ammonia Water</b>	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	<b>0.99</b>	mg/L	0.10	1		09/25/18 12:05	7664-41-7	
<b>9014 Cyanide, Total</b>	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	<b>&lt;10.0</b>	ug/L	10.0	1	09/23/18 07:33	09/23/18 09:29	57-12-5	
<b>9060A TOC as NPOC</b>	Analytical Method: EPA 9060A							
Total Organic Carbon	<b>6.7</b>	mg/L	1.0	1		09/24/18 22:50	7440-44-0	
Total Organic Carbon	<b>6.0</b>	mg/L	1.0	1		09/24/18 22:50	7440-44-0	
Total Organic Carbon	<b>6.1</b>	mg/L	1.0	1		09/24/18 22:50	7440-44-0	
Total Organic Carbon	<b>5.9</b>	mg/L	1.0	1		09/24/18 22:50	7440-44-0	
Mean Total Organic Carbon	<b>6.2</b>	mg/L	1.0	1		09/24/18 22:50	7440-44-0	

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-9B	Lab ID: 7064634005	Collected: 09/12/18 10:15	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Aluminum	430	ug/L	200	1	09/22/18 10:00	09/25/18 00:17	7429-90-5	
Antimony	<60.0	ug/L	60.0	1	09/22/18 10:00	09/25/18 00:17	7440-36-0	
Arsenic	<10.0	ug/L	10.0	1	09/22/18 10:00	09/25/18 00:17	7440-38-2	
Barium	37.7J	ug/L	200	1	09/22/18 10:00	09/25/18 00:17	7440-39-3	
Beryllium	<5.0	ug/L	5.0	1	09/22/18 10:00	09/25/18 00:17	7440-41-7	
Boron	11.5J	ug/L	50.0	1	09/22/18 10:00	09/25/18 00:17	7440-42-8	
Cadmium	<2.5	ug/L	2.5	1	09/22/18 10:00	09/25/18 00:17	7440-43-9	
Calcium	76400	ug/L	200	1	09/22/18 10:00	09/25/18 00:17	7440-70-2	
Chromium	6.9J	ug/L	10.0	1	09/22/18 10:00	09/25/18 00:17	7440-47-3	
Cobalt	1.2J	ug/L	50.0	1	09/22/18 10:00	09/25/18 00:17	7440-48-4	
Copper	4.4J	ug/L	25.0	1	09/22/18 10:00	09/25/18 00:17	7440-50-8	
Iron	1780	ug/L	20.0	1	09/22/18 10:00	09/25/18 11:59	7439-89-6	
Lead	<5.0	ug/L	5.0	1	09/22/18 10:00	09/25/18 00:17	7439-92-1	
Magnesium	10100	ug/L	200	1	09/22/18 10:00	09/25/18 00:17	7439-95-4	
Manganese	658	ug/L	10.0	1	09/22/18 10:00	09/25/18 11:59	7439-96-5	
Nickel	4.2J	ug/L	40.0	1	09/22/18 10:00	09/25/18 00:17	7440-02-0	
Potassium	1830J	ug/L	5000	1	09/22/18 10:00	09/25/18 00:17	7440-09-7	
Selenium	<10.0	ug/L	10.0	1	09/22/18 10:00	09/25/18 00:17	7782-49-2	
Silver	<10.0	ug/L	10.0	1	09/22/18 10:00	09/25/18 00:17	7440-22-4	
Sodium	5330	ug/L	5000	1	09/22/18 10:00	09/25/18 00:17	7440-23-5	
Thallium	<10.0	ug/L	10.0	1	09/22/18 10:00	09/25/18 00:17	7440-28-0	
Vanadium	0.93J	ug/L	50.0	1	09/22/18 10:00	09/25/18 00:17	7440-62-2	
Zinc	323	ug/L	20.0	1	09/22/18 10:00	09/25/18 00:17	7440-66-6	B
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 23:14	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/17/18 23:14	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 23:14	79-34-5	CL
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/17/18 23:14	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/17/18 23:14	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/17/18 23:14	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/17/18 23:14	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/17/18 23:14	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/17/18 23:14	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 23:14	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/17/18 23:14	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/17/18 23:14	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 23:14	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/17/18 23:14	78-93-3	CL
2-Hexanone	ND	ug/L	5.0	1		09/17/18 23:14	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/17/18 23:14	108-10-1	
Acetone	ND	ug/L	5.0	1		09/17/18 23:14	67-64-1	
Acrylonitrile	ND	ug/L	5.0	1		09/17/18 23:14	107-13-1	CL
Benzene	ND	ug/L	5.0	1		09/17/18 23:14	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		09/17/18 23:14	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/17/18 23:14	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/17/18 23:14	75-25-2	

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

Sample: MW-9B		Lab ID: 7064634005		Collected: 09/12/18 10:15	Received: 09/13/18 10:45	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Bromomethane	ND	ug/L	5.0	1		09/17/18 23:14	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		09/17/18 23:14	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/17/18 23:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/17/18 23:14	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/17/18 23:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/17/18 23:14	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/17/18 23:14	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/17/18 23:14	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		09/17/18 23:14	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		09/17/18 23:14	100-41-4	
Iodomethane	ND	ug/L	5.0	1		09/17/18 23:14	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		09/17/18 23:14	75-09-2	
Styrene	ND	ug/L	5.0	1		09/17/18 23:14	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/17/18 23:14	127-18-4	
Toluene	ND	ug/L	5.0	1		09/17/18 23:14	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		09/17/18 23:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/17/18 23:14	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		09/17/18 23:14	108-05-4	CL
Vinyl chloride	ND	ug/L	5.0	1		09/17/18 23:14	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/17/18 23:14	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 23:14	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 23:14	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 23:14	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 23:14	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		09/17/18 23:14	110-57-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	110	%	68-153	1		09/17/18 23:14	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-124	1		09/17/18 23:14	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		09/17/18 23:14	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260						
TIC Search	<b>No TIC's Found</b>			1		09/20/18 22:15		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	<b>200</b>	mg/L	5.0	1		09/26/18 12:20		
<b>410.4 COD</b>		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4						
Chemical Oxygen Demand	<b>44.1</b>	mg/L	10.0	1	09/20/18 10:07	09/20/18 12:36		
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	<b>0.35</b>	mg/L	0.10	1	09/26/18 06:18	09/26/18 14:23	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2						
Nitrate-Nitrite (as N)	<b>&lt;0.050</b>	mg/L	0.050	1		09/13/18 23:32	7727-37-9	

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

<b>Sample: MW-9B</b>		<b>Lab ID: 7064634005</b>		Collected: 09/12/18 10:15	Received: 09/13/18 10:45	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Phenolics, Total Recoverable</b>		Analytical Method: EPA 420.1 Preparation Method: EPA 420.1						
Phenolics, Total Recoverable	<b>16.1</b>	ug/L	5.0	1	09/26/18 12:00	09/26/18 15:44		
<b>4500 Ammonia Water</b>		Analytical Method: SM22 4500 NH3 H						
Nitrogen, Ammonia	<b>0.091J</b>	mg/L	0.10	1		09/25/18 12:11	7664-41-7	B
<b>9060A TOC as NPOC</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	<b>4.4</b>	mg/L	1.0	1		09/21/18 22:18	7440-44-0	
Total Organic Carbon	<b>3.6</b>	mg/L	1.0	1		09/21/18 22:18	7440-44-0	
Total Organic Carbon	<b>3.7</b>	mg/L	1.0	1		09/21/18 22:18	7440-44-0	
Total Organic Carbon	<b>3.3</b>	mg/L	1.0	1		09/21/18 22:18	7440-44-0	
Mean Total Organic Carbon	<b>3.8</b>	mg/L	1.0	1		09/21/18 22:18	7440-44-0	

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-10B	Lab ID: 7064634006	Collected: 09/12/18 13:00	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Aluminum	68.4J	ug/L	200	1	09/22/18 10:00	09/25/18 00:22	7429-90-5	
Antimony	<60.0	ug/L	60.0	1	09/22/18 10:00	09/25/18 00:22	7440-36-0	
Arsenic	<10.0	ug/L	10.0	1	09/22/18 10:00	09/25/18 00:22	7440-38-2	
Barium	65.7J	ug/L	200	1	09/22/18 10:00	09/25/18 00:22	7440-39-3	
Beryllium	<5.0	ug/L	5.0	1	09/22/18 10:00	09/25/18 00:22	7440-41-7	
Boron	47.1J	ug/L	50.0	1	09/22/18 10:00	09/25/18 00:22	7440-42-8	
Cadmium	<2.5	ug/L	2.5	1	09/22/18 10:00	09/25/18 00:22	7440-43-9	
Calcium	76600	ug/L	200	1	09/22/18 10:00	09/25/18 00:22	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	09/22/18 10:00	09/25/18 00:22	7440-47-3	
Cobalt	3.1J	ug/L	50.0	1	09/22/18 10:00	09/25/18 00:22	7440-48-4	
Copper	<25.0	ug/L	25.0	1	09/22/18 10:00	09/25/18 00:22	7440-50-8	
Iron	865	ug/L	20.0	1	09/22/18 10:00	09/25/18 12:00	7439-89-6	
Lead	<5.0	ug/L	5.0	1	09/22/18 10:00	09/25/18 00:22	7439-92-1	
Magnesium	23800	ug/L	200	1	09/22/18 10:00	09/25/18 00:22	7439-95-4	
Manganese	5590	ug/L	10.0	1	09/22/18 10:00	09/25/18 12:00	7439-96-5	
Nickel	4.1J	ug/L	40.0	1	09/22/18 10:00	09/25/18 00:22	7440-02-0	
Potassium	2410J	ug/L	5000	1	09/22/18 10:00	09/25/18 00:22	7440-09-7	
Selenium	<10.0	ug/L	10.0	1	09/22/18 10:00	09/25/18 00:22	7782-49-2	
Silver	<10.0	ug/L	10.0	1	09/22/18 10:00	09/25/18 00:22	7440-22-4	
Sodium	9640	ug/L	5000	1	09/22/18 10:00	09/25/18 00:22	7440-23-5	
Thallium	6.6J	ug/L	10.0	1	09/22/18 10:00	09/25/18 00:22	7440-28-0	
Vanadium	<50.0	ug/L	50.0	1	09/22/18 10:00	09/25/18 00:22	7440-62-2	
Zinc	9.4J	ug/L	20.0	1	09/22/18 10:00	09/25/18 00:22	7440-66-6	B
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	0.13J	ug/L	0.20	1	09/21/18 09:44	09/24/18 11:44	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 22:56	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/17/18 22:56	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 22:56	79-34-5	CL
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/17/18 22:56	79-00-5	
1,1-Dichloroethane	9.5	ug/L	5.0	1		09/17/18 22:56	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/17/18 22:56	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/17/18 22:56	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/17/18 22:56	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/17/18 22:56	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 22:56	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/17/18 22:56	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/17/18 22:56	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 22:56	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/17/18 22:56	78-93-3	CL
2-Hexanone	ND	ug/L	5.0	1		09/17/18 22:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/17/18 22:56	108-10-1	
Acetone	ND	ug/L	5.0	1		09/17/18 22:56	67-64-1	
Acrylonitrile	ND	ug/L	5.0	1		09/17/18 22:56	107-13-1	CL

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-10B		Lab ID: 7064634006		Collected: 09/12/18 13:00	Received: 09/13/18 10:45	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	ND	ug/L	5.0	1		09/17/18 22:56	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		09/17/18 22:56	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/17/18 22:56	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/17/18 22:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/17/18 22:56	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		09/17/18 22:56	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/17/18 22:56	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/17/18 22:56	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/17/18 22:56	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/17/18 22:56	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/17/18 22:56	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/17/18 22:56	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		09/17/18 22:56	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		09/17/18 22:56	100-41-4	
Iodomethane	ND	ug/L	5.0	1		09/17/18 22:56	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		09/17/18 22:56	75-09-2	
Styrene	ND	ug/L	5.0	1		09/17/18 22:56	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/17/18 22:56	127-18-4	
Toluene	ND	ug/L	5.0	1		09/17/18 22:56	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		09/17/18 22:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/17/18 22:56	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		09/17/18 22:56	108-05-4	CL
Vinyl chloride	ND	ug/L	5.0	1		09/17/18 22:56	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/17/18 22:56	1330-20-7	
cis-1,2-Dichloroethene	<b>38.2</b>	ug/L	5.0	1		09/17/18 22:56	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 22:56	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 22:56	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 22:56	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		09/17/18 22:56	110-57-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	109	%	68-153	1		09/17/18 22:56	17060-07-0	
4-Bromofluorobenzene (S)	110	%	79-124	1		09/17/18 22:56	460-00-4	
Toluene-d8 (S)	90	%	69-124	1		09/17/18 22:56	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260						
TIC Search	<b>No TIC's Found</b>			1		09/20/18 22:16		
<b>2120B W Apparent Color</b>		Analytical Method: SM22 2120B						
Apparent Color	<b>5.0</b>	units	5.0	1		09/13/18 15:32		
pH	<b>7.0</b>	Std. Units	0.10	1		09/13/18 15:32		
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	<b>307</b>	mg/L	1.0	1		09/25/18 06:13		

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-10B	Lab ID: 7064634006	Collected: 09/12/18 13:00	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2340C Hardness, Total</b>	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B)	<b>227</b>	mg/L	5.0	1		09/26/18 12:23		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM22 2540C							
Total Dissolved Solids	<b>308</b>	mg/L	10.0	1		09/18/18 16:34		
<b>Chromium, Hexavalent</b>	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	<b>&lt;0.020</b>	mg/L	0.020	1		09/13/18 16:43	18540-29-9	H1
<b>410.4 COD</b>	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	<b>29.8</b>	mg/L	10.0	1	09/20/18 10:07	09/20/18 12:36		
<b>5210B BOD, 5 day</b>	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	<b>7.0</b>	mg/L	2.0	1	09/13/18 16:30	09/18/18 12:28		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Bromide	<b>0.30J</b>	mg/L	0.50	1		09/26/18 20:27	24959-67-9	
Chloride	<b>10.9</b>	mg/L	2.0	1		09/26/18 20:27	16887-00-6	
Sulfate	<b>6.1</b>	mg/L	5.0	1		09/26/18 20:27	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	<b>0.53</b>	mg/L	0.10	1	09/26/18 06:18	09/26/18 14:24	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	<b>&lt;0.050</b>	mg/L	0.050	1		09/13/18 23:36	7727-37-9	
<b>353.2 Nitrogen, NO2</b>	Analytical Method: EPA 353.2							
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050	1		09/13/18 21:01	14797-65-0	
<b>Phenolics, Total Recoverable</b>	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	<b>11.0</b>	ug/L	5.0	1	09/26/18 12:00	09/26/18 15:44		
<b>4500 Ammonia Water</b>	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	<b>0.32</b>	mg/L	0.10	1		09/25/18 12:13	7664-41-7	
<b>9060A TOC as NPOC</b>	Analytical Method: EPA 9060A							
Total Organic Carbon	<b>2.9</b>	mg/L	1.0	1		09/21/18 22:29	7440-44-0	
Total Organic Carbon	<b>2.9</b>	mg/L	1.0	1		09/21/18 22:29	7440-44-0	
Total Organic Carbon	<b>2.8</b>	mg/L	1.0	1		09/21/18 22:29	7440-44-0	
Total Organic Carbon	<b>2.9</b>	mg/L	1.0	1		09/21/18 22:29	7440-44-0	
Mean Total Organic Carbon	<b>2.9</b>	mg/L	1.0	1		09/21/18 22:29	7440-44-0	

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-11B	Lab ID: 7064634007	Collected: 09/12/18 09:25	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 22:39	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/17/18 22:39	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 22:39	79-34-5	CL
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/17/18 22:39	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/17/18 22:39	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/17/18 22:39	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/17/18 22:39	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/17/18 22:39	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/17/18 22:39	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 22:39	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/17/18 22:39	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/17/18 22:39	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 22:39	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/17/18 22:39	78-93-3	CL
2-Hexanone	ND	ug/L	5.0	1		09/17/18 22:39	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/17/18 22:39	108-10-1	
Acetone	ND	ug/L	5.0	1		09/17/18 22:39	67-64-1	CH,IH
Acrylonitrile	ND	ug/L	5.0	1		09/17/18 22:39	107-13-1	CL
Benzene	ND	ug/L	5.0	1		09/17/18 22:39	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		09/17/18 22:39	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/17/18 22:39	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/17/18 22:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/17/18 22:39	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		09/17/18 22:39	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/17/18 22:39	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/17/18 22:39	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/17/18 22:39	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/17/18 22:39	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/17/18 22:39	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/17/18 22:39	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		09/17/18 22:39	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		09/17/18 22:39	100-41-4	
Iodomethane	ND	ug/L	5.0	1		09/17/18 22:39	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		09/17/18 22:39	75-09-2	
Styrene	ND	ug/L	5.0	1		09/17/18 22:39	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/17/18 22:39	127-18-4	
Toluene	ND	ug/L	5.0	1		09/17/18 22:39	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		09/17/18 22:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/17/18 22:39	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		09/17/18 22:39	108-05-4	CL
Vinyl chloride	ND	ug/L	5.0	1		09/17/18 22:39	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/17/18 22:39	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 22:39	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 22:39	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 22:39	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 22:39	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		09/17/18 22:39	110-57-6	

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-11B	Lab ID: 7064634007	Collected: 09/12/18 09:25	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	112	%	68-153	1		09/17/18 22:39	17060-07-0	
4-Bromofluorobenzene (S)	111	%	79-124	1		09/17/18 22:39	460-00-4	
Toluene-d8 (S)	93	%	69-124	1		09/17/18 22:39	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260						
TIC Search	<b>No TIC's Found</b>			1		09/20/18 22:17		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C						
Total Dissolved Solids	<b>87.0</b>	mg/L	10.0	1		09/18/18 16:34		
<b>5210B BOD, 5 day</b>		Analytical Method: SM22 5210B Preparation Method: SM22 5210B						
BOD, 5 day	<b>&lt;2.0</b>	mg/L	2.0	1	09/13/18 16:22	09/18/18 12:31		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0						
Bromide	<b>&lt;0.50</b>	mg/L	0.50	1		09/26/18 21:17	24959-67-9	
Chloride	<b>48.8</b>	mg/L	2.0	1		09/26/18 21:17	16887-00-6	
Sulfate	<b>2.5J</b>	mg/L	5.0	1		09/26/18 21:17	14808-79-8	B
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2						
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050	1		09/13/18 21:03	14797-65-0	
<b>9060A TOC as NPOC</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	<b>5.1</b>	mg/L	1.0	1		09/21/18 22:40	7440-44-0	
Total Organic Carbon	<b>5.0</b>	mg/L	1.0	1		09/21/18 22:40	7440-44-0	
Total Organic Carbon	<b>4.9</b>	mg/L	1.0	1		09/21/18 22:40	7440-44-0	
Total Organic Carbon	<b>4.9</b>	mg/L	1.0	1		09/21/18 22:40	7440-44-0	
Mean Total Organic Carbon	<b>5.0</b>	mg/L	1.0	1		09/21/18 22:40	7440-44-0	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-12A	Lab ID: 7064634008	Collected: 09/12/18 10:00	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 22:21	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/17/18 22:21	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 22:21	79-34-5	CL
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/17/18 22:21	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/17/18 22:21	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/17/18 22:21	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/17/18 22:21	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/17/18 22:21	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/17/18 22:21	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 22:21	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/17/18 22:21	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/17/18 22:21	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 22:21	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/17/18 22:21	78-93-3	CL
2-Hexanone	ND	ug/L	5.0	1		09/17/18 22:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/17/18 22:21	108-10-1	
Acetone	7.6	ug/L	5.0	1		09/17/18 22:21	67-64-1	CH,IH
Acrylonitrile	ND	ug/L	5.0	1		09/17/18 22:21	107-13-1	CL
Benzene	5.2	ug/L	5.0	1		09/17/18 22:21	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		09/17/18 22:21	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/17/18 22:21	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/17/18 22:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/17/18 22:21	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		09/17/18 22:21	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/17/18 22:21	56-23-5	
Chlorobenzene	8.1	ug/L	5.0	1		09/17/18 22:21	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/17/18 22:21	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/17/18 22:21	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/17/18 22:21	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/17/18 22:21	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		09/17/18 22:21	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		09/17/18 22:21	100-41-4	
Iodomethane	ND	ug/L	5.0	1		09/17/18 22:21	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		09/17/18 22:21	75-09-2	
Styrene	ND	ug/L	5.0	1		09/17/18 22:21	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/17/18 22:21	127-18-4	
Toluene	ND	ug/L	5.0	1		09/17/18 22:21	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		09/17/18 22:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/17/18 22:21	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		09/17/18 22:21	108-05-4	CL
Vinyl chloride	ND	ug/L	5.0	1		09/17/18 22:21	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/17/18 22:21	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 22:21	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 22:21	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 22:21	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 22:21	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		09/17/18 22:21	110-57-6	

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## ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-12A	Lab ID: 7064634008	Collected: 09/12/18 10:00	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	109	%	68-153	1		09/17/18 22:21	17060-07-0	
4-Bromofluorobenzene (S)	104	%	79-124	1		09/17/18 22:21	460-00-4	
Toluene-d8 (S)	90	%	69-124	1		09/17/18 22:21	2037-26-5	
<b>Tentatively Identified Compounds</b>								
Difluorochloromethane	7.1J	ug/L		1		09/17/18 22:21	75-45-6	N
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C						
Total Dissolved Solids	394	mg/L	10.0	1		09/18/18 16:37		
<b>5210B BOD, 5 day</b>		Analytical Method: SM22 5210B Preparation Method: SM22 5210B						
BOD, 5 day	14.4	mg/L	2.0	1	09/13/18 16:23	09/18/18 12:33		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0						
Bromide	0.24J	mg/L	0.50	1		09/26/18 21:34	24959-67-9	
Chloride	7.1	mg/L	2.0	1		09/26/18 21:34	16887-00-6	
Sulfate	7.4	mg/L	5.0	1		09/26/18 21:34	14808-79-8	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2						
Nitrite as N	<0.050	mg/L	0.050	1		09/13/18 21:04	14797-65-0	
<b>9060A TOC as NPOC</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	11.4	mg/L	1.0	1		09/21/18 22:52	7440-44-0	
Total Organic Carbon	12.4	mg/L	1.0	1		09/21/18 22:52	7440-44-0	
Total Organic Carbon	11.7	mg/L	1.0	1		09/21/18 22:52	7440-44-0	
Total Organic Carbon	11.4	mg/L	1.0	1		09/21/18 22:52	7440-44-0	
Mean Total Organic Carbon	11.7	mg/L	1.0	1		09/21/18 22:52	7440-44-0	

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-12B	Lab ID: 7064634009	Collected: 09/12/18 09:45	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Aluminum	96.0J	ug/L	200	1	09/18/18 10:35	09/18/18 22:27	7429-90-5	
Antimony	<60.0	ug/L	60.0	1	09/18/18 10:35	09/18/18 22:27	7440-36-0	
Arsenic	8.5J	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:27	7440-38-2	
Barium	325	ug/L	200	1	09/18/18 10:35	09/18/18 22:27	7440-39-3	
Beryllium	<5.0	ug/L	5.0	1	09/18/18 10:35	09/18/18 22:27	7440-41-7	
Boron	125	ug/L	50.0	1	09/18/18 10:35	09/18/18 22:27	7440-42-8	
Cadmium	<2.5	ug/L	2.5	1	09/18/18 10:35	09/18/18 22:27	7440-43-9	
Calcium	127000	ug/L	200	1	09/18/18 10:35	09/18/18 22:27	7440-70-2	
Chromium	10.7	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:27	7440-47-3	
Cobalt	6.3J	ug/L	50.0	1	09/18/18 10:35	09/18/18 22:27	7440-48-4	
Copper	<25.0	ug/L	25.0	1	09/18/18 10:35	09/18/18 22:27	7440-50-8	
Iron	11000	ug/L	20.0	1	09/18/18 10:35	09/18/18 22:27	7439-89-6	
Lead	1.6J	ug/L	5.0	1	09/18/18 10:35	09/18/18 22:27	7439-92-1	B
Magnesium	23800	ug/L	200	1	09/18/18 10:35	09/18/18 22:27	7439-95-4	
Manganese	9540	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:27	7439-96-5	
Nickel	4.6J	ug/L	40.0	1	09/18/18 10:35	09/18/18 22:27	7440-02-0	
Potassium	5520	ug/L	5000	1	09/18/18 10:35	09/18/18 22:27	7440-09-7	
Selenium	<10.0	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:27	7782-49-2	
Silver	<10.0	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:27	7440-22-4	
Sodium	15000	ug/L	5000	1	09/18/18 10:35	09/18/18 22:27	7440-23-5	
Thallium	<10.0	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:27	7440-28-0	
Vanadium	1.2J	ug/L	50.0	1	09/18/18 10:35	09/18/18 22:27	7440-62-2	
Zinc	4.5J	ug/L	20.0	1	09/18/18 10:35	09/18/18 22:27	7440-66-6	B
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	0.14J	ug/L	0.20	1	09/21/18 09:44	09/24/18 11:45	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 22:03	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/17/18 22:03	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 22:03	79-34-5	CL
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/17/18 22:03	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/17/18 22:03	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/17/18 22:03	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/17/18 22:03	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/17/18 22:03	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/17/18 22:03	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 22:03	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/17/18 22:03	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/17/18 22:03	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 22:03	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/17/18 22:03	78-93-3	CL
2-Hexanone	ND	ug/L	5.0	1		09/17/18 22:03	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/17/18 22:03	108-10-1	
Acetone	ND	ug/L	5.0	1		09/17/18 22:03	67-64-1	CH,IH
Acrylonitrile	ND	ug/L	5.0	1		09/17/18 22:03	107-13-1	CL

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-12B	Lab ID: 7064634009	Collected: 09/12/18 09:45	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	5.8	ug/L	5.0	1		09/17/18 22:03	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		09/17/18 22:03	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/17/18 22:03	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/17/18 22:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/17/18 22:03	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		09/17/18 22:03	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/17/18 22:03	56-23-5	
Chlorobenzene	7.0	ug/L	5.0	1		09/17/18 22:03	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/17/18 22:03	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/17/18 22:03	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/17/18 22:03	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/17/18 22:03	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		09/17/18 22:03	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		09/17/18 22:03	100-41-4	
Iodomethane	ND	ug/L	5.0	1		09/17/18 22:03	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		09/17/18 22:03	75-09-2	
Styrene	ND	ug/L	5.0	1		09/17/18 22:03	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/17/18 22:03	127-18-4	
Toluene	ND	ug/L	5.0	1		09/17/18 22:03	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		09/17/18 22:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/17/18 22:03	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		09/17/18 22:03	108-05-4	CL
Vinyl chloride	ND	ug/L	5.0	1		09/17/18 22:03	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/17/18 22:03	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 22:03	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 22:03	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 22:03	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 22:03	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		09/17/18 22:03	110-57-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	111	%	68-153	1		09/17/18 22:03	17060-07-0	
4-Bromofluorobenzene (S)	105	%	79-124	1		09/17/18 22:03	460-00-4	
Toluene-d8 (S)	90	%	69-124	1		09/17/18 22:03	2037-26-5	
<b>Tentatively Identified Compounds</b>								
Difluorochloromethane	7.3J	ug/L		1		09/17/18 22:03	75-45-6	N
<b>2120B W Apparent Color</b>		Analytical Method: SM22 2120B						
Apparent Color	75.0	units	25.0	5		09/13/18 15:32		
pH	8.0	Std. Units	0.10	5		09/13/18 15:32		
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	496	mg/L	1.0	1		09/25/18 06:35		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	340	mg/L	5.0	1		09/26/18 12:27		

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

Sample: MW-12B	Lab ID: 7064634009	Collected: 09/12/18 09:45	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM22 2540C							
Total Dissolved Solids	<b>458</b>	mg/L	10.0	1		09/18/18 16:39		
<b>Chromium, Hexavalent</b>	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	<b>0.0061J</b>	mg/L	0.020	1		09/13/18 16:40	18540-29-9	H3
<b>410.4 COD</b>	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	<b>74.7</b>	mg/L	10.0	1	09/20/18 10:07	09/20/18 12:37		
<b>5210B BOD, 5 day</b>	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	<b>7.6</b>	mg/L	2.0	1	09/13/18 16:23	09/18/18 12:35		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Bromide	<b>0.40J</b>	mg/L	0.50	1		09/26/18 21:51	24959-67-9	
Chloride	<b>10.8</b>	mg/L	2.0	1		09/26/18 21:51	16887-00-6	
Sulfate	<b>2.5J</b>	mg/L	5.0	1		09/26/18 21:51	14808-79-8	B
<b>351.2 Total Kjeldahl Nitrogen</b>	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	<b>4.7</b>	mg/L	0.10	1	09/26/18 06:18	09/26/18 14:25	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	<b>0.052</b>	mg/L	0.050	1		09/13/18 23:37	7727-37-9	
<b>353.2 Nitrogen, NO2</b>	Analytical Method: EPA 353.2							
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050	1		09/13/18 21:05	14797-65-0	
<b>Phenolics, Total Recoverable</b>	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	<b>49.0</b>	ug/L	5.0	1	09/26/18 12:00	09/26/18 15:44		
<b>4500 Ammonia Water</b>	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	<b>2.2</b>	mg/L	0.10	1		09/25/18 12:14	7664-41-7	
<b>9014 Cyanide, Total</b>	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	<b>&lt;10.0</b>	ug/L	10.0	1	09/23/18 07:33	09/23/18 09:30	57-12-5	
<b>9060A TOC as NPOC</b>	Analytical Method: EPA 9060A							
Total Organic Carbon	<b>9.0</b>	mg/L	1.0	1		09/21/18 23:05	7440-44-0	
Total Organic Carbon	<b>8.9</b>	mg/L	1.0	1		09/21/18 23:05	7440-44-0	
Total Organic Carbon	<b>9.1</b>	mg/L	1.0	1		09/21/18 23:05	7440-44-0	
Total Organic Carbon	<b>8.8</b>	mg/L	1.0	1		09/21/18 23:05	7440-44-0	
Mean Total Organic Carbon	<b>9.0</b>	mg/L	1.0	1		09/21/18 23:05	7440-44-0	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-13	Lab ID: 7064634010	Collected: 09/12/18 12:00	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Aluminum	69.7J	ug/L	200	1	09/18/18 10:35	09/18/18 22:43	7429-90-5	
Antimony	3.5J	ug/L	60.0	1	09/18/18 10:35	09/18/18 22:43	7440-36-0	
Arsenic	<10.0	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:43	7440-38-2	
Barium	19.4J	ug/L	200	1	09/18/18 10:35	09/18/18 22:43	7440-39-3	
Beryllium	<5.0	ug/L	5.0	1	09/18/18 10:35	09/18/18 22:43	7440-41-7	
Boron	73.4	ug/L	50.0	1	09/18/18 10:35	09/18/18 22:43	7440-42-8	
Cadmium	<2.5	ug/L	2.5	1	09/18/18 10:35	09/18/18 22:43	7440-43-9	
Calcium	50300	ug/L	200	1	09/18/18 10:35	09/18/18 22:43	7440-70-2	
Chromium	4.4J	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:43	7440-47-3	
Cobalt	<50.0	ug/L	50.0	1	09/18/18 10:35	09/18/18 22:43	7440-48-4	
Copper	<25.0	ug/L	25.0	1	09/18/18 10:35	09/18/18 22:43	7440-50-8	
Iron	95.2	ug/L	20.0	1	09/18/18 10:35	09/18/18 22:43	7439-89-6	
Lead	<5.0	ug/L	5.0	1	09/18/18 10:35	09/18/18 22:43	7439-92-1	
Magnesium	13800	ug/L	200	1	09/18/18 10:35	09/18/18 22:43	7439-95-4	
Manganese	170	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:43	7439-96-5	
Nickel	1.7J	ug/L	40.0	1	09/18/18 10:35	09/18/18 22:43	7440-02-0	
Potassium	1580J	ug/L	5000	1	09/18/18 10:35	09/18/18 22:43	7440-09-7	
Selenium	<10.0	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:43	7782-49-2	
Silver	<10.0	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:43	7440-22-4	
Sodium	11600	ug/L	5000	1	09/18/18 10:35	09/18/18 22:43	7440-23-5	
Thallium	<10.0	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:43	7440-28-0	
Vanadium	<50.0	ug/L	50.0	1	09/18/18 10:35	09/18/18 22:43	7440-62-2	
Zinc	29.5	ug/L	20.0	1	09/18/18 10:35	09/18/18 22:43	7440-66-6	B
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	<0.20	ug/L	0.20	1	09/18/18 10:33	09/18/18 16:11	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 21:45	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/17/18 21:45	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 21:45	79-34-5	CL
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/17/18 21:45	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/17/18 21:45	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/17/18 21:45	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/17/18 21:45	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/17/18 21:45	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/17/18 21:45	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 21:45	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/17/18 21:45	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/17/18 21:45	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 21:45	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/17/18 21:45	78-93-3	CL
2-Hexanone	ND	ug/L	5.0	1		09/17/18 21:45	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/17/18 21:45	108-10-1	
Acetone	ND	ug/L	5.0	1		09/17/18 21:45	67-64-1	
Acrylonitrile	ND	ug/L	5.0	1		09/17/18 21:45	107-13-1	CL

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

Sample: MW-13	Lab ID: 7064634010	Collected: 09/12/18 12:00	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	ND	ug/L	5.0	1		09/17/18 21:45	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		09/17/18 21:45	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/17/18 21:45	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/17/18 21:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/17/18 21:45	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		09/17/18 21:45	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/17/18 21:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/17/18 21:45	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/17/18 21:45	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/17/18 21:45	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/17/18 21:45	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/17/18 21:45	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		09/17/18 21:45	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		09/17/18 21:45	100-41-4	
Iodomethane	ND	ug/L	5.0	1		09/17/18 21:45	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		09/17/18 21:45	75-09-2	
Styrene	ND	ug/L	5.0	1		09/17/18 21:45	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/17/18 21:45	127-18-4	
Toluene	ND	ug/L	5.0	1		09/17/18 21:45	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		09/17/18 21:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/17/18 21:45	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		09/17/18 21:45	108-05-4	CL
Vinyl chloride	ND	ug/L	5.0	1		09/17/18 21:45	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/17/18 21:45	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 21:45	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 21:45	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 21:45	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 21:45	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		09/17/18 21:45	110-57-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	110	%	68-153	1		09/17/18 21:45	17060-07-0	
4-Bromofluorobenzene (S)	105	%	79-124	1		09/17/18 21:45	460-00-4	
Toluene-d8 (S)	94	%	69-124	1		09/17/18 21:45	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260						
TIC Search	<b>No TIC's Found</b>			1		09/20/18 22:22		
<b>2120B W Apparent Color</b>		Analytical Method: SM22 2120B						
Apparent Color	<b>10.0</b>	units	5.0	1		09/13/18 15:32		
pH	<b>8.0</b>	Std. Units	0.10	1		09/13/18 15:32		
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	<b>53.6</b>	mg/L	1.0	1		09/25/18 06:44		

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

Sample: MW-13	Lab ID: 7064634010	Collected: 09/12/18 12:00	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2340C Hardness, Total</b>	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B)	<b>113</b>	mg/L	5.0	1		09/26/18 12:57		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM22 2540C							
Total Dissolved Solids	<b>181</b>	mg/L	10.0	1		09/18/18 16:39		
<b>Chromium, Hexavalent</b>	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	<b>&lt;0.020</b>	mg/L	0.020	1		09/13/18 16:41	18540-29-9	H1
<b>410.4 COD</b>	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	<b>21.6</b>	mg/L	10.0	1	09/20/18 10:07	09/20/18 12:37		
<b>5210B BOD, 5 day</b>	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	<b>&lt;2.0</b>	mg/L	2.0	1	09/13/18 16:30	09/18/18 13:04		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Bromide	<b>0.16J</b>	mg/L	0.50	1		09/26/18 22:07	24959-67-9	
Chloride	<b>4.0</b>	mg/L	2.0	1		09/26/18 22:07	16887-00-6	
Sulfate	<b>4.7J</b>	mg/L	5.0	1		09/26/18 22:07	14808-79-8	B
<b>351.2 Total Kjeldahl Nitrogen</b>	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	<b>0.23</b>	mg/L	0.10	1	09/26/18 06:18	09/26/18 14:27	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	<b>0.062</b>	mg/L	0.050	1		09/13/18 23:38	7727-37-9	
<b>353.2 Nitrogen, NO2</b>	Analytical Method: EPA 353.2							
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050	1		09/13/18 21:06	14797-65-0	
<b>Phenolics, Total Recoverable</b>	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	<b>4.3J</b>	ug/L	5.0	1	09/26/18 12:00	09/26/18 15:45		
<b>4500 Ammonia Water</b>	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	<b>0.14</b>	mg/L	0.10	1		09/25/18 12:15	7664-41-7	B
<b>9014 Cyanide, Total</b>	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	<b>&lt;10.0</b>	ug/L	10.0	1	09/23/18 07:33	09/23/18 09:30	57-12-5	
<b>9060A TOC as NPOC</b>	Analytical Method: EPA 9060A							
Total Organic Carbon	<b>3.0</b>	mg/L	1.0	1		09/22/18 01:10	7440-44-0	
Total Organic Carbon	<b>2.9</b>	mg/L	1.0	1		09/22/18 01:10	7440-44-0	
Total Organic Carbon	<b>3.0</b>	mg/L	1.0	1		09/22/18 01:10	7440-44-0	
Total Organic Carbon	<b>2.9</b>	mg/L	1.0	1		09/22/18 01:10	7440-44-0	
Mean Total Organic Carbon	<b>2.9</b>	mg/L	1.0	1		09/22/18 01:10	7440-44-0	

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-14	Lab ID: 7064634011	Collected: 09/12/18 10:45	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Aluminum	76.6J	ug/L	200	1	09/18/18 10:35	09/18/18 22:49	7429-90-5	
Antimony	<60.0	ug/L	60.0	1	09/18/18 10:35	09/18/18 22:49	7440-36-0	
Arsenic	<10.0	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:49	7440-38-2	
Barium	40.5J	ug/L	200	1	09/18/18 10:35	09/18/18 22:49	7440-39-3	
Beryllium	<5.0	ug/L	5.0	1	09/18/18 10:35	09/18/18 22:49	7440-41-7	
Boron	22.5J	ug/L	50.0	1	09/18/18 10:35	09/18/18 22:49	7440-42-8	
Cadmium	<2.5	ug/L	2.5	1	09/18/18 10:35	09/18/18 22:49	7440-43-9	
Calcium	66100	ug/L	200	1	09/18/18 10:35	09/18/18 22:49	7440-70-2	
Chromium	3.2J	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:49	7440-47-3	
Cobalt	<50.0	ug/L	50.0	1	09/18/18 10:35	09/18/18 22:49	7440-48-4	
Copper	<25.0	ug/L	25.0	1	09/18/18 10:35	09/18/18 22:49	7440-50-8	
Iron	55.2	ug/L	20.0	1	09/18/18 10:35	09/18/18 22:49	7439-89-6	
Lead	<5.0	ug/L	5.0	1	09/18/18 10:35	09/18/18 22:49	7439-92-1	
Magnesium	15900	ug/L	200	1	09/18/18 10:35	09/18/18 22:49	7439-95-4	
Manganese	183	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:49	7439-96-5	
Nickel	<40.0	ug/L	40.0	1	09/18/18 10:35	09/18/18 22:49	7440-02-0	
Potassium	2320J	ug/L	5000	1	09/18/18 10:35	09/18/18 22:49	7440-09-7	
Selenium	<10.0	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:49	7782-49-2	
Silver	<10.0	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:49	7440-22-4	
Sodium	11100	ug/L	5000	1	09/18/18 10:35	09/18/18 22:49	7440-23-5	
Thallium	<10.0	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:49	7440-28-0	
Vanadium	<50.0	ug/L	50.0	1	09/18/18 10:35	09/18/18 22:49	7440-62-2	
Zinc	5.1J	ug/L	20.0	1	09/18/18 10:35	09/18/18 22:49	7440-66-6	B
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	<0.20	ug/L	0.20	1	09/18/18 10:33	09/18/18 16:13	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 21:27	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/17/18 21:27	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 21:27	79-34-5	CL
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/17/18 21:27	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/17/18 21:27	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/17/18 21:27	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/17/18 21:27	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/17/18 21:27	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/17/18 21:27	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 21:27	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/17/18 21:27	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/17/18 21:27	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 21:27	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/17/18 21:27	78-93-3	CL
2-Hexanone	ND	ug/L	5.0	1		09/17/18 21:27	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/17/18 21:27	108-10-1	
Acetone	ND	ug/L	5.0	1		09/17/18 21:27	67-64-1	CH,IH
Acrylonitrile	ND	ug/L	5.0	1		09/17/18 21:27	107-13-1	CL

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-14	Lab ID: 7064634011	Collected: 09/12/18 10:45	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	ND	ug/L	5.0	1		09/17/18 21:27	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		09/17/18 21:27	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/17/18 21:27	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/17/18 21:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/17/18 21:27	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		09/17/18 21:27	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/17/18 21:27	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/17/18 21:27	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/17/18 21:27	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/17/18 21:27	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/17/18 21:27	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/17/18 21:27	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		09/17/18 21:27	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		09/17/18 21:27	100-41-4	
Iodomethane	ND	ug/L	5.0	1		09/17/18 21:27	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		09/17/18 21:27	75-09-2	
Styrene	ND	ug/L	5.0	1		09/17/18 21:27	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/17/18 21:27	127-18-4	
Toluene	ND	ug/L	5.0	1		09/17/18 21:27	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		09/17/18 21:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/17/18 21:27	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		09/17/18 21:27	108-05-4	CL
Vinyl chloride	ND	ug/L	5.0	1		09/17/18 21:27	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/17/18 21:27	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 21:27	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 21:27	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 21:27	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 21:27	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		09/17/18 21:27	110-57-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	110	%	68-153	1		09/17/18 21:27	17060-07-0	
4-Bromofluorobenzene (S)	104	%	79-124	1		09/17/18 21:27	460-00-4	
Toluene-d8 (S)	89	%	69-124	1		09/17/18 21:27	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260						
TIC Search	<b>No TIC's Found</b>			1		09/20/18 22:23		
<b>2120B W Apparent Color</b>		Analytical Method: SM22 2120B						
Apparent Color	5.0	units	5.0	1		09/13/18 15:32		
pH	8.0	Std. Units	0.10	1		09/13/18 15:32		
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	232	mg/L	1.0	1		09/26/18 09:11		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: MW-14	Lab ID: 7064634011	Collected: 09/12/18 10:45	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2340C Hardness, Total</b>								
Analytical Method: SM22 2340C								
Tot Hardness asCaCO3 (SM 2340B)	<b>187</b>	mg/L	5.0	1		09/26/18 13:02		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM22 2540C								
Total Dissolved Solids	<b>216</b>	mg/L	10.0	1		09/18/18 16:39		
<b>Chromium, Hexavalent</b>								
Analytical Method: SM22 3500-Cr B								
Chromium, Hexavalent	<b>&lt;0.020</b>	mg/L	0.020	1		09/13/18 16:41	18540-29-9	H1
<b>410.4 COD</b>								
Analytical Method: EPA 410.4 Preparation Method: EPA 410.4								
Chemical Oxygen Demand	<b>27.7</b>	mg/L	10.0	1	09/20/18 10:07	09/20/18 12:37		
<b>5210B BOD, 5 day</b>								
Analytical Method: SM22 5210B Preparation Method: SM22 5210B								
BOD, 5 day	<b>&lt;2.0</b>	mg/L	2.0	1	09/13/18 16:30	09/18/18 13:06		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0								
Bromide	<b>0.021J</b>	mg/L	0.50	1		09/26/18 22:24	24959-67-9	
Chloride	<b>2.3</b>	mg/L	2.0	1		09/26/18 22:24	16887-00-6	
Sulfate	<b>14.6</b>	mg/L	5.0	1		09/26/18 22:24	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>								
Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	<b>&lt;0.10</b>	mg/L	0.10	1	09/26/18 06:18	09/26/18 14:28	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>								
Analytical Method: EPA 353.2								
Nitrate-Nitrite (as N)	<b>&lt;0.050</b>	mg/L	0.050	1		09/13/18 23:39	7727-37-9	
<b>353.2 Nitrogen, NO2</b>								
Analytical Method: EPA 353.2								
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050	1		09/13/18 21:07	14797-65-0	
<b>Phenolics, Total Recoverable</b>								
Analytical Method: EPA 420.1 Preparation Method: EPA 420.1								
Phenolics, Total Recoverable	<b>7.4</b>	ug/L	5.0	1	09/26/18 12:00	09/26/18 15:45		
<b>4500 Ammonia Water</b>								
Analytical Method: SM22 4500 NH3 H								
Nitrogen, Ammonia	<b>0.047J</b>	mg/L	0.10	1		09/25/18 12:16	7664-41-7	B
<b>9014 Cyanide, Total</b>								
Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C								
Cyanide	<b>&lt;10.0</b>	ug/L	10.0	1	09/23/18 07:33	09/23/18 09:30	57-12-5	
<b>9060A TOC as NPOC</b>								
Analytical Method: EPA 9060A								
Total Organic Carbon	<b>0.71J</b>	mg/L	1.0	1		09/22/18 01:20	7440-44-0	
Total Organic Carbon	<b>0.84J</b>	mg/L	1.0	1		09/22/18 01:20	7440-44-0	
Total Organic Carbon	<b>0.92J</b>	mg/L	1.0	1		09/22/18 01:20	7440-44-0	
Total Organic Carbon	<b>0.78J</b>	mg/L	1.0	1		09/22/18 01:20	7440-44-0	
Mean Total Organic Carbon	<b>0.81J</b>	mg/L	1.0	1		09/22/18 01:20	7440-44-0	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: <b>SEEP</b>		Lab ID: <b>7064634012</b>	Collected: 09/12/18 12:15	Received: 09/13/18 10:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Aluminum	<b>77.9J</b>	ug/L	200	1	09/18/18 10:35	09/18/18 22:54	7429-90-5	
Antimony	<b>&lt;60.0</b>	ug/L	60.0	1	09/18/18 10:35	09/18/18 22:54	7440-36-0	
Arsenic	<b>28.8</b>	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:54	7440-38-2	
Barium	<b>177J</b>	ug/L	200	1	09/18/18 10:35	09/18/18 22:54	7440-39-3	
Beryllium	<b>&lt;5.0</b>	ug/L	5.0	1	09/18/18 10:35	09/18/18 22:54	7440-41-7	
Boron	<b>85.2</b>	ug/L	50.0	1	09/18/18 10:35	09/18/18 22:54	7440-42-8	
Cadmium	<b>&lt;2.5</b>	ug/L	2.5	1	09/18/18 10:35	09/18/18 22:54	7440-43-9	
Calcium	<b>52400</b>	ug/L	200	1	09/18/18 10:35	09/18/18 22:54	7440-70-2	
Chromium	<b>10.7</b>	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:54	7440-47-3	
Cobalt	<b>8.1J</b>	ug/L	50.0	1	09/18/18 10:35	09/18/18 22:54	7440-48-4	
Copper	<b>&lt;25.0</b>	ug/L	25.0	1	09/18/18 10:35	09/18/18 22:54	7440-50-8	
Iron	<b>14300</b>	ug/L	20.0	1	09/18/18 10:35	09/18/18 22:54	7439-89-6	
Lead	<b>&lt;5.0</b>	ug/L	5.0	1	09/18/18 10:35	09/18/18 22:54	7439-92-1	
Magnesium	<b>16600</b>	ug/L	200	1	09/18/18 10:35	09/18/18 22:54	7439-95-4	
Manganese	<b>10600</b>	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:54	7439-96-5	
Nickel	<b>3.1J</b>	ug/L	40.0	1	09/18/18 10:35	09/18/18 22:54	7440-02-0	
Potassium	<b>4240J</b>	ug/L	5000	1	09/18/18 10:35	09/18/18 22:54	7440-09-7	
Selenium	<b>&lt;10.0</b>	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:54	7782-49-2	
Silver	<b>&lt;10.0</b>	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:54	7440-22-4	
Sodium	<b>6640</b>	ug/L	5000	1	09/18/18 10:35	09/18/18 22:54	7440-23-5	
Thallium	<b>&lt;10.0</b>	ug/L	10.0	1	09/18/18 10:35	09/18/18 22:54	7440-28-0	
Vanadium	<b>1.4J</b>	ug/L	50.0	1	09/18/18 10:35	09/18/18 22:54	7440-62-2	
Zinc	<b>&lt;20.0</b>	ug/L	20.0	1	09/18/18 10:35	09/18/18 22:54	7440-66-6	
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	<b>&lt;0.20</b>	ug/L	0.20	1	09/18/18 10:33	09/18/18 16:19	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 21:09	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/17/18 21:09	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 21:09	79-34-5	CL
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/17/18 21:09	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/17/18 21:09	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/17/18 21:09	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/17/18 21:09	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/17/18 21:09	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/17/18 21:09	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 21:09	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/17/18 21:09	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/17/18 21:09	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 21:09	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/17/18 21:09	78-93-3	CL
2-Hexanone	ND	ug/L	5.0	1		09/17/18 21:09	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/17/18 21:09	108-10-1	
Acetone	ND	ug/L	5.0	1		09/17/18 21:09	67-64-1	
Acrylonitrile	ND	ug/L	5.0	1		09/17/18 21:09	107-13-1	CL

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

Sample: SEEP	Lab ID: 7064634012	Collected: 09/12/18 12:15	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	ND	ug/L	5.0	1		09/17/18 21:09	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		09/17/18 21:09	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/17/18 21:09	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/17/18 21:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/17/18 21:09	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		09/17/18 21:09	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/17/18 21:09	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/17/18 21:09	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/17/18 21:09	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/17/18 21:09	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/17/18 21:09	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/17/18 21:09	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		09/17/18 21:09	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		09/17/18 21:09	100-41-4	
Iodomethane	ND	ug/L	5.0	1		09/17/18 21:09	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		09/17/18 21:09	75-09-2	
Styrene	ND	ug/L	5.0	1		09/17/18 21:09	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/17/18 21:09	127-18-4	
Toluene	ND	ug/L	5.0	1		09/17/18 21:09	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		09/17/18 21:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/17/18 21:09	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		09/17/18 21:09	108-05-4	CL
Vinyl chloride	ND	ug/L	5.0	1		09/17/18 21:09	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/17/18 21:09	1330-20-7	
cis-1,2-Dichloroethene	<b>9.6</b>	ug/L	5.0	1		09/17/18 21:09	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 21:09	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 21:09	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 21:09	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		09/17/18 21:09	110-57-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	111	%	68-153	1		09/17/18 21:09	17060-07-0	
4-Bromofluorobenzene (S)	106	%	79-124	1		09/17/18 21:09	460-00-4	
Toluene-d8 (S)	93	%	69-124	1		09/17/18 21:09	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260						
TIC Search	<b>No TIC's Found</b>			1		09/20/18 22:24		
<b>2120B W Apparent Color</b>		Analytical Method: SM22 2120B						
Apparent Color	<b>125</b>	units	25.0	5		09/13/18 15:32		
pH	<b>7.0</b>	Std. Units	0.10	5		09/13/18 15:32		
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	<b>231</b>	mg/L	1.0	1		09/26/18 09:23		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

Sample: SEEP	Lab ID: 7064634012	Collected: 09/12/18 12:15	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2340C Hardness, Total</b>	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B)	<b>200</b>	mg/L	5.0	1		09/26/18 13:18		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM22 2540C							
Total Dissolved Solids	<b>217</b>	mg/L	10.0	1		09/18/18 16:39		
<b>Chromium, Hexavalent</b>	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	<b>&lt;0.020</b>	mg/L	0.020	1		09/13/18 16:41	18540-29-9	H1
<b>410.4 COD</b>	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	<b>44.1</b>	mg/L	10.0	1	09/20/18 10:07	09/20/18 12:37		
<b>5210B BOD, 5 day</b>	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	<b>&lt;2.0</b>	mg/L	2.0	1	09/13/18 16:30	09/18/18 13:08		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Bromide	<b>0.24J</b>	mg/L	0.50	1		09/26/18 22:41	24959-67-9	
Chloride	<b>4.7</b>	mg/L	2.0	1		09/26/18 22:41	16887-00-6	
Sulfate	<b>5.6</b>	mg/L	5.0	1		09/26/18 22:41	14808-79-8	B
<b>351.2 Total Kjeldahl Nitrogen</b>	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	<b>2.9</b>	mg/L	0.10	1	09/26/18 06:18	09/26/18 14:29	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	<b>&lt;0.050</b>	mg/L	0.050	1		09/13/18 23:40	7727-37-9	
<b>353.2 Nitrogen, NO2</b>	Analytical Method: EPA 353.2							
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050	1		09/13/18 21:09	14797-65-0	
<b>Phenolics, Total Recoverable</b>	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	<b>7.9</b>	ug/L	5.0	1	09/26/18 12:00	09/26/18 15:52		
<b>4500 Ammonia Water</b>	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	<b>3.0</b>	mg/L	0.10	1		09/25/18 12:17	7664-41-7	
<b>9014 Cyanide, Total</b>	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	<b>&lt;10.0</b>	ug/L	10.0	1	09/23/18 07:33	09/23/18 09:30	57-12-5	
<b>9060A TOC as NPOC</b>	Analytical Method: EPA 9060A							
Total Organic Carbon	<b>5.3</b>	mg/L	1.0	1		09/22/18 01:32	7440-44-0	
Total Organic Carbon	<b>5.4</b>	mg/L	1.0	1		09/22/18 01:32	7440-44-0	
Total Organic Carbon	<b>5.3</b>	mg/L	1.0	1		09/22/18 01:32	7440-44-0	
Total Organic Carbon	<b>5.4</b>	mg/L	1.0	1		09/22/18 01:32	7440-44-0	
Mean Total Organic Carbon	<b>5.4</b>	mg/L	1.0	1		09/22/18 01:32	7440-44-0	

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: <b>STREAM</b>	Lab ID: <b>7064634013</b>	Collected: 09/12/18 12:30	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Aluminum	<b>139J</b>	ug/L	200	1	09/18/18 10:35	09/18/18 23:00	7429-90-5	
Antimony	<b>&lt;60.0</b>	ug/L	60.0	1	09/18/18 10:35	09/18/18 23:00	7440-36-0	
Arsenic	<b>&lt;10.0</b>	ug/L	10.0	1	09/18/18 10:35	09/18/18 23:00	7440-38-2	
Barium	<b>10.0J</b>	ug/L	200	1	09/18/18 10:35	09/18/18 23:00	7440-39-3	
Beryllium	<b>&lt;5.0</b>	ug/L	5.0	1	09/18/18 10:35	09/18/18 23:00	7440-41-7	
Boron	<b>28.8J</b>	ug/L	50.0	1	09/18/18 10:35	09/18/18 23:00	7440-42-8	
Cadmium	<b>&lt;2.5</b>	ug/L	2.5	1	09/18/18 10:35	09/18/18 23:00	7440-43-9	
Calcium	<b>28600</b>	ug/L	200	1	09/18/18 10:35	09/18/18 23:00	7440-70-2	
Chromium	<b>3.1J</b>	ug/L	10.0	1	09/18/18 10:35	09/18/18 23:00	7440-47-3	
Cobalt	<b>&lt;50.0</b>	ug/L	50.0	1	09/18/18 10:35	09/18/18 23:00	7440-48-4	
Copper	<b>4.6J</b>	ug/L	25.0	1	09/18/18 10:35	09/18/18 23:00	7440-50-8	
Iron	<b>224</b>	ug/L	20.0	1	09/18/18 10:35	09/18/18 23:00	7439-89-6	
Lead	<b>&lt;5.0</b>	ug/L	5.0	1	09/18/18 10:35	09/18/18 23:00	7439-92-1	
Magnesium	<b>7740</b>	ug/L	200	1	09/18/18 10:35	09/18/18 23:00	7439-95-4	
Manganese	<b>242</b>	ug/L	10.0	1	09/18/18 10:35	09/18/18 23:00	7439-96-5	
Nickel	<b>1.3J</b>	ug/L	40.0	1	09/18/18 10:35	09/18/18 23:00	7440-02-0	
Potassium	<b>2450J</b>	ug/L	5000	1	09/18/18 10:35	09/18/18 23:00	7440-09-7	
Selenium	<b>&lt;10.0</b>	ug/L	10.0	1	09/18/18 10:35	09/18/18 23:00	7782-49-2	
Silver	<b>&lt;10.0</b>	ug/L	10.0	1	09/18/18 10:35	09/18/18 23:00	7440-22-4	
Sodium	<b>2290J</b>	ug/L	5000	1	09/18/18 10:35	09/18/18 23:00	7440-23-5	
Thallium	<b>&lt;10.0</b>	ug/L	10.0	1	09/18/18 10:35	09/18/18 23:00	7440-28-0	
Vanadium	<b>&lt;50.0</b>	ug/L	50.0	1	09/18/18 10:35	09/18/18 23:00	7440-62-2	
Zinc	<b>&lt;20.0</b>	ug/L	20.0	1	09/18/18 10:35	09/18/18 23:00	7440-66-6	
<b>7470 Mercury</b> Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	<b>&lt;0.20</b>	ug/L	0.20	1	09/18/18 10:33	09/18/18 16:21	7439-97-6	
<b>8260C Volatile Organics</b> Analytical Method: EPA 8260C/5030C								
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 20:51	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/17/18 20:51	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 20:51	79-34-5	CL
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/17/18 20:51	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/17/18 20:51	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/17/18 20:51	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/17/18 20:51	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/17/18 20:51	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/17/18 20:51	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 20:51	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/17/18 20:51	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/17/18 20:51	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 20:51	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/17/18 20:51	78-93-3	CL
2-Hexanone	ND	ug/L	5.0	1		09/17/18 20:51	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/17/18 20:51	108-10-1	
Acetone	ND	ug/L	5.0	1		09/17/18 20:51	67-64-1	
Acrylonitrile	ND	ug/L	5.0	1		09/17/18 20:51	107-13-1	CL

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

<b>Sample: STREAM</b>		<b>Lab ID: 7064634013</b>		Collected: 09/12/18 12:30	Received: 09/13/18 10:45	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	ND	ug/L	5.0	1		09/17/18 20:51	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		09/17/18 20:51	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/17/18 20:51	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/17/18 20:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/17/18 20:51	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		09/17/18 20:51	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/17/18 20:51	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/17/18 20:51	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/17/18 20:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/17/18 20:51	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/17/18 20:51	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/17/18 20:51	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		09/17/18 20:51	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		09/17/18 20:51	100-41-4	
Iodomethane	ND	ug/L	5.0	1		09/17/18 20:51	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		09/17/18 20:51	75-09-2	
Styrene	ND	ug/L	5.0	1		09/17/18 20:51	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/17/18 20:51	127-18-4	
Toluene	ND	ug/L	5.0	1		09/17/18 20:51	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		09/17/18 20:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/17/18 20:51	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		09/17/18 20:51	108-05-4	CL
Vinyl chloride	ND	ug/L	5.0	1		09/17/18 20:51	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/17/18 20:51	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 20:51	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 20:51	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 20:51	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 20:51	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		09/17/18 20:51	110-57-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	113	%	68-153	1		09/17/18 20:51	17060-07-0	
4-Bromofluorobenzene (S)	110	%	79-124	1		09/17/18 20:51	460-00-4	
Toluene-d8 (S)	89	%	69-124	1		09/17/18 20:51	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260						
TIC Search	<b>No TIC's Found</b>			1		09/20/18 22:25		
<b>2120B W Apparent Color</b>		Analytical Method: SM22 2120B						
Apparent Color	<b>30.0</b>	units	5.0	1		09/13/18 15:32		
pH	<b>7.0</b>	Std. Units	0.10	1		09/13/18 15:32		
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	<b>103</b>	mg/L	1.0	1		09/26/18 08:12		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: <b>STREAM</b>	Lab ID: <b>7064634013</b>	Collected: 09/12/18 12:30	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2340C Hardness, Total</b>	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B)	<b>80.0</b>	mg/L	5.0	1		09/26/18 13:21		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM22 2540C							
Total Dissolved Solids	<b>113</b>	mg/L	10.0	1		09/18/18 16:39		
<b>Chromium, Hexavalent</b>	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	<b>&lt;0.020</b>	mg/L	0.020	1		09/13/18 16:42	18540-29-9	H1
<b>410.4 COD</b>	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	<b>44.1</b>	mg/L	10.0	1	09/20/18 10:07	09/20/18 12:37		
<b>5210B BOD, 5 day</b>	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	<b>&lt;2.0</b>	mg/L	2.0	1	09/13/18 16:30	09/18/18 13:11		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Bromide	<b>0.056J</b>	mg/L	0.50	1		09/26/18 22:58	24959-67-9	
Chloride	<b>1.3J</b>	mg/L	2.0	1		09/26/18 22:58	16887-00-6	
Sulfate	<b>6.9</b>	mg/L	5.0	1		09/26/18 22:58	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	<b>0.31</b>	mg/L	0.10	1	09/26/18 06:18	09/26/18 14:30	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	<b>&lt;0.050</b>	mg/L	0.050	1		09/13/18 23:42	7727-37-9	
<b>353.2 Nitrogen, NO2</b>	Analytical Method: EPA 353.2							
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050	1		09/13/18 21:10	14797-65-0	
<b>Phenolics, Total Recoverable</b>	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	<b>8.9</b>	ug/L	5.0	1	09/26/18 12:00	09/26/18 15:52		
<b>4500 Ammonia Water</b>	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	<b>0.058J</b>	mg/L	0.10	1		09/25/18 12:19	7664-41-7	B
<b>9014 Cyanide, Total</b>	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	<b>&lt;10.0</b>	ug/L	10.0	1	09/23/18 07:33	09/23/18 09:31	57-12-5	
<b>9060A TOC as NPOC</b>	Analytical Method: EPA 9060A							
Total Organic Carbon	<b>7.4</b>	mg/L	1.0	1		09/22/18 01:44	7440-44-0	
Total Organic Carbon	<b>7.4</b>	mg/L	1.0	1		09/22/18 01:44	7440-44-0	
Total Organic Carbon	<b>7.5</b>	mg/L	1.0	1		09/22/18 01:44	7440-44-0	
Total Organic Carbon	<b>7.4</b>	mg/L	1.0	1		09/22/18 01:44	7440-44-0	
Mean Total Organic Carbon	<b>7.5</b>	mg/L	1.0	1		09/22/18 01:44	7440-44-0	

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: DUP	Lab ID: 7064634014	Collected: 09/12/18 00:00	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Aluminum	100J	ug/L	200	1	09/18/18 10:35	09/18/18 23:05	7429-90-5	
Antimony	<60.0	ug/L	60.0	1	09/18/18 10:35	09/18/18 23:05	7440-36-0	
Arsenic	<10.0	ug/L	10.0	1	09/18/18 10:35	09/18/18 23:05	7440-38-2	
Barium	69.6J	ug/L	200	1	09/18/18 10:35	09/18/18 23:05	7440-39-3	
Beryllium	<5.0	ug/L	5.0	1	09/18/18 10:35	09/18/18 23:05	7440-41-7	
Boron	50.7	ug/L	50.0	1	09/18/18 10:35	09/18/18 23:05	7440-42-8	
Cadmium	<2.5	ug/L	2.5	1	09/18/18 10:35	09/18/18 23:05	7440-43-9	
Calcium	81900	ug/L	200	1	09/18/18 10:35	09/18/18 23:05	7440-70-2	
Chromium	5.2J	ug/L	10.0	1	09/18/18 10:35	09/18/18 23:05	7440-47-3	
Cobalt	2.7J	ug/L	50.0	1	09/18/18 10:35	09/18/18 23:05	7440-48-4	
Copper	<25.0	ug/L	25.0	1	09/18/18 10:35	09/18/18 23:05	7440-50-8	
Iron	858	ug/L	20.0	1	09/18/18 10:35	09/18/18 23:05	7439-89-6	
Lead	<5.0	ug/L	5.0	1	09/18/18 10:35	09/18/18 23:05	7439-92-1	
Magnesium	25700	ug/L	200	1	09/18/18 10:35	09/18/18 23:05	7439-95-4	
Manganese	6420	ug/L	10.0	1	09/18/18 10:35	09/18/18 23:05	7439-96-5	
Nickel	4.5J	ug/L	40.0	1	09/18/18 10:35	09/18/18 23:05	7440-02-0	
Potassium	2930J	ug/L	5000	1	09/18/18 10:35	09/18/18 23:05	7440-09-7	
Selenium	<10.0	ug/L	10.0	1	09/18/18 10:35	09/18/18 23:05	7782-49-2	
Silver	<10.0	ug/L	10.0	1	09/18/18 10:35	09/18/18 23:05	7440-22-4	
Sodium	10500	ug/L	5000	1	09/18/18 10:35	09/18/18 23:05	7440-23-5	
Thallium	<10.0	ug/L	10.0	1	09/18/18 10:35	09/18/18 23:05	7440-28-0	
Vanadium	0.90J	ug/L	50.0	1	09/18/18 10:35	09/18/18 23:05	7440-62-2	
Zinc	3.2J	ug/L	20.0	1	09/18/18 10:35	09/18/18 23:05	7440-66-6	B
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	<0.20	ug/L	0.20	1	09/18/18 10:33	09/18/18 16:22	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 20:33	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/17/18 20:33	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 20:33	79-34-5	CL
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/17/18 20:33	79-00-5	
1,1-Dichloroethane	11.4	ug/L	5.0	1		09/17/18 20:33	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/17/18 20:33	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/17/18 20:33	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/17/18 20:33	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/17/18 20:33	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 20:33	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/17/18 20:33	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/17/18 20:33	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 20:33	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/17/18 20:33	78-93-3	CL
2-Hexanone	ND	ug/L	5.0	1		09/17/18 20:33	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/17/18 20:33	108-10-1	
Acetone	ND	ug/L	5.0	1		09/17/18 20:33	67-64-1	
Acrylonitrile	ND	ug/L	5.0	1		09/17/18 20:33	107-13-1	CL

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: DUP		Lab ID: 7064634014		Collected: 09/12/18 00:00	Received: 09/13/18 10:45	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	ND	ug/L	5.0	1		09/17/18 20:33	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		09/17/18 20:33	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/17/18 20:33	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/17/18 20:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/17/18 20:33	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		09/17/18 20:33	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/17/18 20:33	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/17/18 20:33	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/17/18 20:33	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/17/18 20:33	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/17/18 20:33	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/17/18 20:33	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		09/17/18 20:33	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		09/17/18 20:33	100-41-4	
Iodomethane	ND	ug/L	5.0	1		09/17/18 20:33	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		09/17/18 20:33	75-09-2	
Styrene	ND	ug/L	5.0	1		09/17/18 20:33	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/17/18 20:33	127-18-4	
Toluene	ND	ug/L	5.0	1		09/17/18 20:33	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		09/17/18 20:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/17/18 20:33	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		09/17/18 20:33	108-05-4	CL
Vinyl chloride	5.0	ug/L	5.0	1		09/17/18 20:33	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/17/18 20:33	1330-20-7	
cis-1,2-Dichloroethene	45.5	ug/L	5.0	1		09/17/18 20:33	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 20:33	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 20:33	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 20:33	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		09/17/18 20:33	110-57-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	115	%	68-153	1		09/17/18 20:33	17060-07-0	
4-Bromofluorobenzene (S)	109	%	79-124	1		09/17/18 20:33	460-00-4	
Toluene-d8 (S)	89	%	69-124	1		09/17/18 20:33	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260						
TIC Search	<b>No TIC's Found</b>			1		09/20/18 22:26		
<b>2120B W Apparent Color</b>		Analytical Method: SM22 2120B						
Apparent Color	5.0	units	5.0	1		09/13/18 15:32		
pH	8.0	Std. Units	0.10	1		09/13/18 15:32		
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	347	mg/L	1.0	1		09/26/18 08:46		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

Sample: DUP	Lab ID: 7064634014	Collected: 09/12/18 00:00	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2340C Hardness, Total</b>	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B)	17.3	mg/L	5.0	1		09/26/18 13:26		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM22 2540C							
Total Dissolved Solids	299	mg/L	10.0	1		09/18/18 16:40		
<b>Chromium, Hexavalent</b>	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	<0.020	mg/L	0.020	1		09/13/18 16:37	18540-29-9	H3
<b>410.4 COD</b>	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	31.8	mg/L	10.0	1	09/20/18 10:07	09/20/18 12:37		
<b>5210B BOD, 5 day</b>	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	<2.0	mg/L	2.0	1	09/13/18 16:22	09/18/18 13:13		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Bromide	0.31J	mg/L	0.50	1		09/26/18 23:14	24959-67-9	
Chloride	10.7	mg/L	2.0	1		09/26/18 23:14	16887-00-6	
Sulfate	5.8	mg/L	5.0	1		09/26/18 23:14	14808-79-8	B
<b>351.2 Total Kjeldahl Nitrogen</b>	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	0.38	mg/L	0.10	1	09/26/18 06:18	09/26/18 14:32	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		09/13/18 23:43	7727-37-9	
<b>353.2 Nitrogen, NO2</b>	Analytical Method: EPA 353.2							
Nitrite as N	<0.050	mg/L	0.050	1		09/13/18 21:13	14797-65-0	
<b>Phenolics, Total Recoverable</b>	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	12.5	ug/L	5.0	1	09/26/18 12:00	09/26/18 15:53		
<b>4500 Ammonia Water</b>	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	0.30	mg/L	0.10	1		09/25/18 12:20	7664-41-7	
<b>9014 Cyanide, Total</b>	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	<10.0	ug/L	10.0	1	09/23/18 07:33	09/23/18 09:31	57-12-5	
<b>9060A TOC as NPOC</b>	Analytical Method: EPA 9060A							
Total Organic Carbon	3.0	mg/L	1.0	1		09/22/18 01:55	7440-44-0	
Total Organic Carbon	3.1	mg/L	1.0	1		09/22/18 01:55	7440-44-0	
Total Organic Carbon	3.2	mg/L	1.0	1		09/22/18 01:55	7440-44-0	
Total Organic Carbon	3.1	mg/L	1.0	1		09/22/18 01:55	7440-44-0	
Mean Total Organic Carbon	3.1	mg/L	1.0	1		09/22/18 01:55	7440-44-0	

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: TRIP BLANK	Lab ID: 7064634015	Collected: 09/12/18 00:00	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 20:15	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/17/18 20:15	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 20:15	79-34-5	CL
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/17/18 20:15	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/17/18 20:15	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/17/18 20:15	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/17/18 20:15	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/17/18 20:15	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/17/18 20:15	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 20:15	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/17/18 20:15	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/17/18 20:15	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 20:15	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/17/18 20:15	78-93-3	CL
2-Hexanone	ND	ug/L	5.0	1		09/17/18 20:15	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/17/18 20:15	108-10-1	
Acetone	ND	ug/L	5.0	1		09/17/18 20:15	67-64-1	
Acrylonitrile	ND	ug/L	5.0	1		09/17/18 20:15	107-13-1	CL
Benzene	ND	ug/L	5.0	1		09/17/18 20:15	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		09/17/18 20:15	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/17/18 20:15	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/17/18 20:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/17/18 20:15	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		09/17/18 20:15	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/17/18 20:15	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/17/18 20:15	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/17/18 20:15	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/17/18 20:15	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/17/18 20:15	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/17/18 20:15	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		09/17/18 20:15	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		09/17/18 20:15	100-41-4	
Iodomethane	ND	ug/L	5.0	1		09/17/18 20:15	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		09/17/18 20:15	75-09-2	
Styrene	ND	ug/L	5.0	1		09/17/18 20:15	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/17/18 20:15	127-18-4	
Toluene	ND	ug/L	5.0	1		09/17/18 20:15	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		09/17/18 20:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/17/18 20:15	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		09/17/18 20:15	108-05-4	CL
Vinyl chloride	ND	ug/L	5.0	1		09/17/18 20:15	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/17/18 20:15	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 20:15	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 20:15	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 20:15	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 20:15	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		09/17/18 20:15	110-57-6	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: <b>TRIP BLANK</b>	Lab ID: <b>7064634015</b>	Collected: 09/12/18 00:00	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	116	%	68-153	1		09/17/18 20:15	17060-07-0	
4-Bromofluorobenzene (S)	109	%	79-124	1		09/17/18 20:15	460-00-4	
Toluene-d8 (S)	89	%	69-124	1		09/17/18 20:15	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260						
TIC Search	<b>No TIC's Found</b>			1		09/20/18 22:27		

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### ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Sample: STORAGE BLANK	Lab ID: 7064634016	Collected: 09/12/18 00:00	Received: 09/13/18 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 19:56	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/17/18 19:56	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/17/18 19:56	79-34-5	CL
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/17/18 19:56	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/17/18 19:56	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/17/18 19:56	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/17/18 19:56	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/17/18 19:56	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/17/18 19:56	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 19:56	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/17/18 19:56	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/17/18 19:56	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/17/18 19:56	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/17/18 19:56	78-93-3	CL
2-Hexanone	ND	ug/L	5.0	1		09/17/18 19:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/17/18 19:56	108-10-1	
Acetone	ND	ug/L	5.0	1		09/17/18 19:56	67-64-1	
Acrylonitrile	ND	ug/L	5.0	1		09/17/18 19:56	107-13-1	CL
Benzene	ND	ug/L	5.0	1		09/17/18 19:56	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		09/17/18 19:56	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/17/18 19:56	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/17/18 19:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/17/18 19:56	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		09/17/18 19:56	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/17/18 19:56	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/17/18 19:56	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/17/18 19:56	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/17/18 19:56	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/17/18 19:56	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/17/18 19:56	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		09/17/18 19:56	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		09/17/18 19:56	100-41-4	
Iodomethane	ND	ug/L	5.0	1		09/17/18 19:56	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		09/17/18 19:56	75-09-2	
Styrene	ND	ug/L	5.0	1		09/17/18 19:56	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/17/18 19:56	127-18-4	
Toluene	ND	ug/L	5.0	1		09/17/18 19:56	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		09/17/18 19:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/17/18 19:56	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		09/17/18 19:56	108-05-4	CL
Vinyl chloride	ND	ug/L	5.0	1		09/17/18 19:56	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/17/18 19:56	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 19:56	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 19:56	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/17/18 19:56	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/17/18 19:56	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		09/17/18 19:56	110-57-6	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: STORAGE BLANK</b>								
<b>Lab ID: 7064634016</b>								
Collected: 09/12/18 00:00    Received: 09/13/18 10:45    Matrix: Water								
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	108	%	68-153	1		09/17/18 19:56	17060-07-0	
4-Bromofluorobenzene (S)	106	%	79-124	1		09/17/18 19:56	460-00-4	
Toluene-d8 (S)	94	%	69-124	1		09/17/18 19:56	2037-26-5	
<b>TIC MSV Water</b>								
Analytical Method: EPA 8260								
TIC Search	<b>No TIC's Found</b>			1		09/20/18 22:28		

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

QC Batch: 83361 Analysis Method: EPA 7470A  
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
 Associated Lab Samples: 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

METHOD BLANK: 383592 Matrix: Water  
 Associated Lab Samples: 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	09/18/18 15:59	

LABORATORY CONTROL SAMPLE: 383593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.1	112	80-120	

MATRIX SPIKE SAMPLE: 383594

Parameter	Units	7064635001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.1	110	75-125	

SAMPLE DUPLICATE: 383595

Parameter	Units	7064635001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

QC Batch: 84039 Analysis Method: EPA 7470A  
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
Associated Lab Samples: 7064634001, 7064634002, 7064634003, 7064634004, 7064634006, 7064634009

METHOD BLANK: 386580 Matrix: Water  
Associated Lab Samples: 7064634001, 7064634002, 7064634003, 7064634004, 7064634006, 7064634009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	09/24/18 11:09	

LABORATORY CONTROL SAMPLE: 386581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.1	113	80-120	

MATRIX SPIKE SAMPLE: 386582

Parameter	Units	7064274008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.14J	1	1.1	100	75-125	

MATRIX SPIKE SAMPLE: 386584

Parameter	Units	7064634004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.14J	1	1.1	93	75-125	

SAMPLE DUPLICATE: 386583

Parameter	Units	7064274008 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	0.14J	<0.20		

SAMPLE DUPLICATE: 386585

Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	0.14J	<0.20		

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

QC Batch: 83394 Analysis Method: EPA 6010C  
 QC Batch Method: EPA 3005A Analysis Description: 6010 MET Water  
 Associated Lab Samples: 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

METHOD BLANK: 383689 Matrix: Water  
 Associated Lab Samples: 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	09/18/18 21:37	
Antimony	ug/L	<60.0	60.0	09/18/18 21:37	
Arsenic	ug/L	<10.0	10.0	09/18/18 21:37	
Barium	ug/L	<200	200	09/18/18 21:37	
Beryllium	ug/L	<5.0	5.0	09/18/18 21:37	
Boron	ug/L	<50.0	50.0	09/18/18 21:37	
Cadmium	ug/L	<2.5	2.5	09/18/18 21:37	
Calcium	ug/L	<200	200	09/18/18 21:37	
Chromium	ug/L	<10.0	10.0	09/18/18 21:37	
Cobalt	ug/L	<50.0	50.0	09/18/18 21:37	
Copper	ug/L	<25.0	25.0	09/18/18 21:37	
Iron	ug/L	<20.0	20.0	09/18/18 21:37	
Lead	ug/L	1.3J	5.0	09/18/18 21:37	
Magnesium	ug/L	<200	200	09/18/18 21:37	
Manganese	ug/L	0.85J	10.0	09/18/18 21:37	
Nickel	ug/L	<40.0	40.0	09/18/18 21:37	
Potassium	ug/L	<5000	5000	09/18/18 21:37	
Selenium	ug/L	<10.0	10.0	09/18/18 21:37	
Silver	ug/L	<10.0	10.0	09/18/18 21:37	
Sodium	ug/L	171J	5000	09/18/18 21:37	
Thallium	ug/L	<10.0	10.0	09/18/18 21:37	
Vanadium	ug/L	<50.0	50.0	09/18/18 21:37	
Zinc	ug/L	18.8J	20.0	09/18/18 21:37	

LABORATORY CONTROL SAMPLE: 383690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	4940	99	80-120	
Antimony	ug/L	750	746	99	80-120	
Arsenic	ug/L	500	490	98	80-120	
Barium	ug/L	500	501	100	80-120	
Beryllium	ug/L	50	49.8	100	80-120	
Boron	ug/L	2500	2490	100	80-120	
Cadmium	ug/L	50	49.2	98	80-120	
Calcium	ug/L	25000	24300	97	80-120	
Chromium	ug/L	250	247	99	80-120	
Cobalt	ug/L	500	500	100	80-120	
Copper	ug/L	250	249	99	80-120	
Iron	ug/L	2000	2000	100	80-120	
Lead	ug/L	500	497	99	80-120	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

LABORATORY CONTROL SAMPLE: 383690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	ug/L	25000	24000	96	80-120	
Manganese	ug/L	250	249	100	80-120	
Nickel	ug/L	250	249	100	80-120	
Potassium	ug/L	50000	50200	100	80-120	
Selenium	ug/L	750	741	99	80-120	
Silver	ug/L	250	241	96	80-120	
Sodium	ug/L	50000	49000	98	80-120	
Thallium	ug/L	750	744	99	80-120	
Vanadium	ug/L	500	491	98	80-120	
Zinc	ug/L	1000	988	99	80-120	

MATRIX SPIKE SAMPLE: 383692

Parameter	Units	7064635001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	5000	5060	101	75-125	
Antimony	ug/L	<60.0	750	797	106	75-125	
Arsenic	ug/L	<10.0	500	513	103	75-125	
Barium	ug/L	5.8J	500	512	101	75-125	
Beryllium	ug/L	<5.0	50	50.7	101	75-125	
Boron	ug/L	275	2500	2900	105	75-125	
Cadmium	ug/L	<2.5	50	48.9	98	75-125	
Calcium	ug/L	594000	25000	636000	169	75-125	M1
Chromium	ug/L	3.8J	250	260	103	75-125	
Cobalt	ug/L	<50.0	500	499	100	75-125	
Copper	ug/L	<25.0	250	250	100	75-125	
Iron	ug/L	100	2000	2100	100	75-125	
Lead	ug/L	<5.0	500	496	99	75-125	
Magnesium	ug/L	52700	25000	79400	107	75-125	
Manganese	ug/L	49.9	250	304	101	75-125	
Nickel	ug/L	<40.0	250	249	100	75-125	
Potassium	ug/L	2710J	50000	54100	103	75-125	
Selenium	ug/L	<10.0	750	789	105	75-125	
Silver	ug/L	<10.0	250	261	105	75-125	
Sodium	ug/L	33300	50000	87300	108	75-125	
Thallium	ug/L	<10.0	750	737	98	75-125	
Vanadium	ug/L	<50.0	500	503	101	75-125	
Zinc	ug/L	<20.0	1000	1030	103	75-125	

SAMPLE DUPLICATE: 383691

Parameter	Units	7064635001 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Antimony	ug/L	<60.0	<60.0		
Arsenic	ug/L	<10.0	<10.0		

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

SAMPLE DUPLICATE: 383691

Parameter	Units	7064635001 Result	Dup Result	RPD	Qualifiers
Barium	ug/L	5.8J	5.6J		
Beryllium	ug/L	<5.0	<5.0		
Boron	ug/L	275	271	1	
Cadmium	ug/L	<2.5	<2.5		
Calcium	ug/L	594000	592000	0	
Chromium	ug/L	3.8J	3.5J		
Cobalt	ug/L	<50.0	<50.0		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	100	99.9	1	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	52700	52200	1	
Manganese	ug/L	49.9	48.7	3	
Nickel	ug/L	<40.0	<40.0		
Potassium	ug/L	2710J	2710J		
Selenium	ug/L	<10.0	<10.0		
Silver	ug/L	<10.0	<10.0		
Sodium	ug/L	33300	33000	1	
Thallium	ug/L	<10.0	<10.0		
Vanadium	ug/L	<50.0	<50.0		
Zinc	ug/L	<20.0	<20.0		

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

QC Batch: 84096 Analysis Method: EPA 6010C  
QC Batch Method: EPA 3005A Analysis Description: 6010 MET Water  
Associated Lab Samples: 7064634001, 7064634002, 7064634003, 7064634004, 7064634005, 7064634006

METHOD BLANK: 386960 Matrix: Water  
Associated Lab Samples: 7064634001, 7064634002, 7064634003, 7064634004, 7064634005, 7064634006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	09/24/18 23:12	
Antimony	ug/L	<60.0	60.0	09/24/18 23:12	
Arsenic	ug/L	<10.0	10.0	09/24/18 23:12	
Barium	ug/L	<200	200	09/24/18 23:12	
Beryllium	ug/L	<5.0	5.0	09/24/18 23:12	
Boron	ug/L	<50.0	50.0	09/24/18 23:12	
Cadmium	ug/L	<2.5	2.5	09/24/18 23:12	
Calcium	ug/L	<200	200	09/24/18 23:12	
Chromium	ug/L	<10.0	10.0	09/24/18 23:12	
Cobalt	ug/L	<50.0	50.0	09/24/18 23:12	
Copper	ug/L	<25.0	25.0	09/24/18 23:12	
Iron	ug/L	<20.0	20.0	09/25/18 11:46	
Lead	ug/L	<5.0	5.0	09/24/18 23:12	
Magnesium	ug/L	<200	200	09/24/18 23:12	
Manganese	ug/L	<10.0	10.0	09/25/18 11:46	
Nickel	ug/L	<40.0	40.0	09/24/18 23:12	
Potassium	ug/L	<5000	5000	09/24/18 23:12	
Selenium	ug/L	<10.0	10.0	09/24/18 23:12	
Silver	ug/L	<10.0	10.0	09/24/18 23:12	
Sodium	ug/L	<5000	5000	09/24/18 23:12	
Thallium	ug/L	<10.0	10.0	09/24/18 23:12	
Vanadium	ug/L	<50.0	50.0	09/24/18 23:12	
Zinc	ug/L	5.3J	20.0	09/24/18 23:12	

LABORATORY CONTROL SAMPLE: 386961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	4160	83	80-120	
Antimony	ug/L	750	672	90	80-120	
Arsenic	ug/L	500	444	89	80-120	
Barium	ug/L	500	446	89	80-120	
Beryllium	ug/L	50	44.2	88	80-120	
Boron	ug/L	2500	2260	91	80-120	
Cadmium	ug/L	50	45.1	90	80-120	
Calcium	ug/L	25000	21700	87	80-120	
Chromium	ug/L	250	218	87	80-120	
Cobalt	ug/L	500	452	90	80-120	
Copper	ug/L	250	224	89	80-120	
Iron	ug/L	2000	1830	92	80-120	
Lead	ug/L	500	456	91	80-120	

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

LABORATORY CONTROL SAMPLE: 386961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	ug/L	25000	21600	86	80-120	
Manganese	ug/L	250	228	91	80-120	
Nickel	ug/L	250	225	90	80-120	
Potassium	ug/L	50000	41400	83	80-120	
Selenium	ug/L	750	669	89	80-120	
Silver	ug/L	250	223	89	80-120	
Sodium	ug/L	50000	44100	88	80-120	
Thallium	ug/L	750	697	93	80-120	
Vanadium	ug/L	500	438	88	80-120	
Zinc	ug/L	1000	894	89	80-120	

MATRIX SPIKE SAMPLE: 386963

Parameter	Units	7064634004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	41.6J	5000	4780	95	75-125	
Antimony	ug/L	<60.0	750	722	96	75-125	
Arsenic	ug/L	22.8	500	492	94	75-125	
Barium	ug/L	126J	500	606	96	75-125	
Beryllium	ug/L	<5.0	50	48.9	98	75-125	
Boron	ug/L	56.5	2500	2480	97	75-125	
Cadmium	ug/L	<2.5	50	47.6	95	75-125	
Calcium	ug/L	74400	25000	96600	89	75-125	
Chromium	ug/L	<10.0	250	239	95	75-125	
Cobalt	ug/L	11.6J	500	498	97	75-125	
Copper	ug/L	<25.0	250	243	97	75-125	
Iron	ug/L	7150	2000	8620	74	75-125	M1
Lead	ug/L	1.3J	500	484	96	75-125	
Magnesium	ug/L	10700	25000	34300	94	75-125	
Manganese	ug/L	8250	250	8140	-44	75-125	M1
Nickel	ug/L	4.8J	250	244	96	75-125	
Potassium	ug/L	3050J	50000	47600	89	75-125	
Selenium	ug/L	<10.0	750	710	95	75-125	
Silver	ug/L	<10.0	250	250	100	75-125	
Sodium	ug/L	5100	50000	52700	95	75-125	
Thallium	ug/L	10.3	750	740	97	75-125	
Vanadium	ug/L	1.4J	500	483	96	75-125	
Zinc	ug/L	9.9J	1000	968	96	75-125	

SAMPLE DUPLICATE: 386962

Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	41.6J	21.1J		
Antimony	ug/L	<60.0	<60.0		
Arsenic	ug/L	22.8	19.6	15	

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

SAMPLE DUPLICATE: 386962

Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers
Barium	ug/L	126J	119J		
Beryllium	ug/L	<5.0	<5.0		
Boron	ug/L	56.5	54.0	4	
Cadmium	ug/L	<2.5	<2.5		
Calcium	ug/L	74400	68400	8	
Chromium	ug/L	<10.0	<10.0		
Cobalt	ug/L	11.6J	10.8J		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	7150	6680	7	
Lead	ug/L	1.3J	<5.0		
Magnesium	ug/L	10700	9860	8	
Manganese	ug/L	8250	7690	7	
Nickel	ug/L	4.8J	4.8J		
Potassium	ug/L	3050J	2850J		
Selenium	ug/L	<10.0	<10.0		
Silver	ug/L	<10.0	<10.0		
Sodium	ug/L	5100	4600J		
Thallium	ug/L	10.3	9.8J		
Vanadium	ug/L	1.4J	0.91J		
Zinc	ug/L	9.9J	9.3J		

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

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QC Batch: 83278 Analysis Method: EPA 8260C/5030C  
 QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV  
 Associated Lab Samples: 7064634001, 7064634002, 7064634003, 7064634004, 7064634005, 7064634006, 7064634007, 7064634008,  
 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014, 7064634015, 7064634016

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METHOD BLANK: 383258 Matrix: Water  
 Associated Lab Samples: 7064634001, 7064634002, 7064634003, 7064634004, 7064634005, 7064634006, 7064634007, 7064634008,  
 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014, 7064634015, 7064634016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	09/17/18 17:29	
1,1,1-Trichloroethane	ug/L	ND	5.0	09/17/18 17:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	09/17/18 17:29	CL
1,1,2-Trichloroethane	ug/L	ND	5.0	09/17/18 17:29	
1,1-Dichloroethane	ug/L	ND	5.0	09/17/18 17:29	
1,1-Dichloroethene	ug/L	ND	5.0	09/17/18 17:29	
1,2,3-Trichloropropane	ug/L	ND	5.0	09/17/18 17:29	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	09/17/18 17:29	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	09/17/18 17:29	
1,2-Dichlorobenzene	ug/L	ND	5.0	09/17/18 17:29	
1,2-Dichloroethane	ug/L	ND	5.0	09/17/18 17:29	
1,2-Dichloropropane	ug/L	ND	5.0	09/17/18 17:29	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/17/18 17:29	
2-Butanone (MEK)	ug/L	ND	5.0	09/17/18 17:29	CL
2-Hexanone	ug/L	ND	5.0	09/17/18 17:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	09/17/18 17:29	
Acetone	ug/L	ND	5.0	09/17/18 17:29	
Acrylonitrile	ug/L	ND	5.0	09/17/18 17:29	CL
Benzene	ug/L	ND	5.0	09/17/18 17:29	
Bromochloromethane	ug/L	ND	5.0	09/17/18 17:29	
Bromodichloromethane	ug/L	ND	5.0	09/17/18 17:29	
Bromoform	ug/L	ND	5.0	09/17/18 17:29	
Bromomethane	ug/L	ND	5.0	09/17/18 17:29	
Carbon disulfide	ug/L	ND	5.0	09/17/18 17:29	
Carbon tetrachloride	ug/L	ND	5.0	09/17/18 17:29	
Chlorobenzene	ug/L	ND	5.0	09/17/18 17:29	
Chloroethane	ug/L	ND	5.0	09/17/18 17:29	
Chloroform	ug/L	ND	5.0	09/17/18 17:29	
Chloromethane	ug/L	ND	5.0	09/17/18 17:29	
cis-1,2-Dichloroethene	ug/L	ND	5.0	09/17/18 17:29	
cis-1,3-Dichloropropene	ug/L	ND	5.0	09/17/18 17:29	
Dibromochloromethane	ug/L	ND	5.0	09/17/18 17:29	
Dibromomethane	ug/L	ND	5.0	09/17/18 17:29	
Ethylbenzene	ug/L	ND	5.0	09/17/18 17:29	
Iodomethane	ug/L	ND	5.0	09/17/18 17:29	
Methylene Chloride	ug/L	ND	5.0	09/17/18 17:29	
Styrene	ug/L	ND	5.0	09/17/18 17:29	
Tetrachloroethene	ug/L	ND	5.0	09/17/18 17:29	
Toluene	ug/L	ND	5.0	09/17/18 17:29	
trans-1,2-Dichloroethene	ug/L	ND	5.0	09/17/18 17:29	

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

METHOD BLANK: 383258

Matrix: Water

Associated Lab Samples: 7064634001, 7064634002, 7064634003, 7064634004, 7064634005, 7064634006, 7064634007, 7064634008, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014, 7064634015, 7064634016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	5.0	09/17/18 17:29	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	09/17/18 17:29	
Trichloroethene	ug/L	ND	5.0	09/17/18 17:29	
Trichlorofluoromethane	ug/L	ND	5.0	09/17/18 17:29	
Vinyl acetate	ug/L	ND	5.0	09/17/18 17:29	CL
Vinyl chloride	ug/L	ND	5.0	09/17/18 17:29	
Xylene (Total)	ug/L	ND	5.0	09/17/18 17:29	
1,2-Dichloroethane-d4 (S)	%	114	68-153	09/17/18 17:29	
4-Bromofluorobenzene (S)	%	108	79-124	09/17/18 17:29	
Toluene-d8 (S)	%	91	69-124	09/17/18 17:29	

LABORATORY CONTROL SAMPLE: 383259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.5	95	74-113	
1,1,1-Trichloroethane	ug/L	50	51.4	103	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	44.2	88	74-121	CL
1,1,2-Trichloroethane	ug/L	50	47.4	95	80-117	
1,1-Dichloroethane	ug/L	50	42.8	86	83-151	
1,1-Dichloroethene	ug/L	50	43.2	86	45-146	
1,2,3-Trichloropropane	ug/L	50	48.0	96	71-123	
1,2-Dibromo-3-chloropropane	ug/L	50	52.6	105	74-119	
1,2-Dibromoethane (EDB)	ug/L	50	51.4	103	83-115	
1,2-Dichlorobenzene	ug/L	50	49.7	99	74-113	
1,2-Dichloroethane	ug/L	50	47.5	95	74-129	
1,2-Dichloropropane	ug/L	50	44.4	89	75-117	
1,4-Dichlorobenzene	ug/L	50	49.3	99	71-113	
2-Butanone (MEK)	ug/L	50	41.3	83	44-162	CL
2-Hexanone	ug/L	50	44.3	89	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	51.4	103	69-132	
Acetone	ug/L	50	42.9	86	23-188	CH,IH
Acrylonitrile	ug/L	50	43.4	87	59-148	CL
Benzene	ug/L	50	47.5	95	73-119	
Bromochloromethane	ug/L	50	45.5	91	81-116	
Bromodichloromethane	ug/L	50	50.7	101	78-117	
Bromoform	ug/L	50	50.3	101	65-122	
Bromomethane	ug/L	50	42.9	86	52-147	
Carbon disulfide	ug/L	50	41.9	84	41-144	
Carbon tetrachloride	ug/L	50	49.2	98	59-120	
Chlorobenzene	ug/L	50	45.0	90	75-113	
Chloroethane	ug/L	50	41.5	83	49-151	
Chloroform	ug/L	50	45.2	90	72-122	
Chloromethane	ug/L	50	32.1	64	46-144	

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

LABORATORY CONTROL SAMPLE: 383259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	43.5	87	72-121	
cis-1,3-Dichloropropene	ug/L	50	49.7	99	78-116	
Dibromochloromethane	ug/L	50	48.3	97	70-120	
Dibromomethane	ug/L	50	47.1	94	75-125	
Ethylbenzene	ug/L	50	45.2	90	70-113	
Iodomethane	ug/L	50	48.6	97	61-144	CH
Methylene Chloride	ug/L	50	41.5	83	61-142	
Styrene	ug/L	50	50.4	101	72-118	
Tetrachloroethene	ug/L	50	50.2	100	60-128	
Toluene	ug/L	50	47.0	94	72-119	
trans-1,2-Dichloroethene	ug/L	50	41.6	83	56-142	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	50.1	100	71-121	
Trichloroethene	ug/L	50	48.9	98	69-117	
Trichlorofluoromethane	ug/L	50	46.5	93	27-173	CH
Vinyl acetate	ug/L	50	41.3	83	20-158	CL
Vinyl chloride	ug/L	50	37.5	75	43-143	
Xylene (Total)	ug/L	150	144	96	71-109	
1,2-Dichloroethane-d4 (S)	%			112	68-153	
4-Bromofluorobenzene (S)	%			111	79-124	
Toluene-d8 (S)	%			91	69-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 384345 384346

Parameter	Units	7064634004		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.							
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	50	46.1	46.0	92	92	74-113	0	
1,1,1-Trichloroethane	ug/L	ND	50	50	50	55.1	54.0	110	108	65-118	2	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	50	32.6	36.8	65	74	74-121	12	CL,M1
1,1,2-Trichloroethane	ug/L	ND	50	50	50	33.1	39.1	66	78	80-117	17	M1
1,1-Dichloroethane	ug/L	ND	50	50	50	38.6	37.9	77	76	83-151	2	M1
1,1-Dichloroethene	ug/L	ND	50	50	50	40.0	40.7	80	81	45-146	2	
1,2,3-Trichloropropane	ug/L	ND	50	50	50	39.9	41.8	80	84	71-123	5	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	50	42.7	43.6	85	87	74-119	2	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	50	39.4	45.2	79	90	83-115	14	M1
1,2-Dichlorobenzene	ug/L	ND	50	50	50	45.1	46.0	90	92	74-113	2	
1,2-Dichloroethane	ug/L	ND	50	50	50	43.2	43.5	86	87	74-129	1	
1,2-Dichloropropane	ug/L	ND	50	50	50	31.0	40.6	62	81	75-117	27	M1,R1
1,4-Dichlorobenzene	ug/L	ND	50	50	50	46.5	47.7	89	91	71-113	2	
2-Butanone (MEK)	ug/L	ND	50	50	50	28.2	30.6	56	61	44-162	8	CL
2-Hexanone	ug/L	ND	50	50	50	32.7	35.7	65	71	32-183	9	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	50	31.8	42.5	64	85	69-132	29	M1,R1
Acetone	ug/L	ND	50	50	50	33.7	34.4	67	69	23-188	2	CH,IH
Acrylonitrile	ug/L	ND	50	50	50	33.0	33.5	66	67	59-148	2	CL
Benzene	ug/L	ND	50	50	50	46.6	46.4	89	88	73-119	1	

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Parameter	Units	7064634004		MS		MSD		384345		384346		Qual
		Result	Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec	RPD		
Bromochloromethane	ug/L	ND	50	50	39.5	42.1	79	84	81-116	6	M1	
Bromodichloromethane	ug/L	ND	50	50	41.2	47.8	82	96	78-117	15		
Bromoform	ug/L	ND	50	50	48.7	49.9	97	100	65-122	3		
Bromomethane	ug/L	ND	50	50	37.7	39.4	75	79	52-147	5		
Carbon disulfide	ug/L	ND	50	50	38.5	38.1	77	76	41-144	1		
Carbon tetrachloride	ug/L	ND	50	50	53.0	52.8	106	106	59-120	0		
Chlorobenzene	ug/L	6.6	50	50	49.1	49.9	85	87	75-113	2		
Chloroethane	ug/L	ND	50	50	35.9	35.8	72	72	49-151	0		
Chloroform	ug/L	ND	50	50	41.5	41.7	83	83	72-122	0		
Chloromethane	ug/L	ND	50	50	36.1	35.7	72	71	46-144	1		
cis-1,2-Dichloroethene	ug/L	6.7	50	50	45.9	46.1	78	79	72-121	0		
cis-1,3-Dichloropropene	ug/L	ND	50	50	36.9	45.6	74	91	78-116	21	M1,R1	
Dibromochloromethane	ug/L	ND	50	50	46.5	46.1	93	92	70-120	1		
Dibromomethane	ug/L	ND	50	50	37.5	44.5	75	89	75-125	17		
Ethylbenzene	ug/L	ND	50	50	41.9	43.9	84	88	70-113	5		
Iodomethane	ug/L	ND	50	50	47.2	47.4	94	95	61-144	0	CH	
Methylene Chloride	ug/L	ND	50	50	36.7	36.0	73	72	61-142	2		
Styrene	ug/L	ND	50	50	44.7	47.8	89	96	72-118	7		
Tetrachloroethene	ug/L	ND	50	50	52.9	51.6	106	103	60-128	3		
Toluene	ug/L	ND	50	50	37.7	44.5	75	89	72-119	17		
trans-1,2-Dichloroethene	ug/L	ND	50	50	38.9	39.6	78	79	56-142	2		
trans-1,3-Dichloropropene	ug/L	ND	50	50	39.5	47.3	79	95	79-116	18		
trans-1,4-Dichloro-2-butene	ug/L	ND	50	50	41.6	44.4	83	89	71-121	7		
Trichloroethene	ug/L	ND	50	50	50.3	50.5	96	96	69-117	0		
Trichlorofluoromethane	ug/L	ND	50	50	48.0	46.9	96	94	27-173	2	CH	
Vinyl acetate	ug/L	ND	50	50	27.5	28.1	55	56	20-158	2	CL	
Vinyl chloride	ug/L	ND	50	50	41.1	39.4	74	71	43-143	4		
Xylene (Total)	ug/L	ND	150	150	134	138	89	92	71-109	3		
1,2-Dichloroethane-d4 (S)	%						115	115	68-153			
4-Bromofluorobenzene (S)	%						110	114	79-124			
Toluene-d8 (S)	%						88	90	69-124			

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

QC Batch: 82877

Analysis Method: SM22 2120B

QC Batch Method: SM22 2120B

Analysis Description: 2120B Color

Associated Lab Samples: 7064634002, 7064634003, 7064634004, 7064634006, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

METHOD BLANK: 381245

Matrix: Water

Associated Lab Samples: 7064634002, 7064634003, 7064634004, 7064634006, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Apparent Color	units	<5.0	5.0	09/13/18 15:32	

LABORATORY CONTROL SAMPLE: 381246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Apparent Color	units	40	40.0	100	90-110	

SAMPLE DUPLICATE: 381247

Parameter	Units	7064634014 Result	Dup Result	RPD	Qualifiers
Apparent Color	units	5.0	5.0	0	
pH	Std. Units	8.0	8.0	0	

SAMPLE DUPLICATE: 381248

Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers
Apparent Color	units	15.0	15.0	0	
pH	Std. Units	7.0	7.0	0	

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

QC Batch: 84380 Analysis Method: SM22 2320B  
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity  
Associated Lab Samples: 7064634002, 7064634003, 7064634004, 7064634006, 7064634009, 7064634010

METHOD BLANK: 387938 Matrix: Water  
Associated Lab Samples: 7064634002, 7064634003, 7064634004, 7064634006, 7064634009, 7064634010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	<1.0	1.0	09/25/18 02:36	

LABORATORY CONTROL SAMPLE: 387939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	25	26.5	106	80-120	

MATRIX SPIKE SAMPLE: 387941

Parameter	Units	7064634004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	278	50	331	106	75-125	

SAMPLE DUPLICATE: 387940

Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	278	286	3	

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

QC Batch: 84478

Analysis Method: SM22 2320B

QC Batch Method: SM22 2320B

Analysis Description: 2320B Alkalinity

Associated Lab Samples: 7064634011, 7064634012, 7064634013, 7064634014

METHOD BLANK: 388652

Matrix: Water

Associated Lab Samples: 7064634011, 7064634012, 7064634013, 7064634014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	<1.0	1.0	09/26/18 07:49	

LABORATORY CONTROL SAMPLE: 388653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	25	27.2	109	80-120	

MATRIX SPIKE SAMPLE: 388655

Parameter	Units	7064634013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	103	50	150	94	75-125	

SAMPLE DUPLICATE: 388654

Parameter	Units	7064634013 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	103	111	7	

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

QC Batch: 84305 Analysis Method: SM22 2340C  
QC Batch Method: SM22 2340C Analysis Description: 2340C Hardness, Total  
Associated Lab Samples: 7064634001, 7064634002, 7064634003

METHOD BLANK: 387781 Matrix: Water  
Associated Lab Samples: 7064634001, 7064634002, 7064634003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	<5.0	5.0	09/25/18 12:26	

LABORATORY CONTROL SAMPLE: 387782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	100	103	103	90-110	

MATRIX SPIKE SAMPLE: 387783

Parameter	Units	7064274008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	1140	2000	3000	93	75-125	

MATRIX SPIKE SAMPLE: 387785

Parameter	Units	7064635001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	1020	2000	3040	101	75-125	

SAMPLE DUPLICATE: 387784

Parameter	Units	7064274008 Result	Dup Result	RPD	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	1140	1120	2	

SAMPLE DUPLICATE: 387786

Parameter	Units	7064635001 Result	Dup Result	RPD	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	1020	1040	2	

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

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QC Batch: 84479 Analysis Method: SM22 2340C  
QC Batch Method: SM22 2340C Analysis Description: 2340C Hardness, Total  
Associated Lab Samples: 7064634004, 7064634005, 7064634006, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

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METHOD BLANK: 388656 Matrix: Water  
Associated Lab Samples: 7064634004, 7064634005, 7064634006, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	<5.0	5.0	09/26/18 12:07	

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LABORATORY CONTROL SAMPLE: 388657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	100	105	105	90-110	

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MATRIX SPIKE SAMPLE: 388658

Parameter	Units	7064634004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	173	667	833	99	75-125	

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SAMPLE DUPLICATE: 388659

Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	173	180	4	

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

QC Batch: 83380 Analysis Method: SM22 2540C  
QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids  
Associated Lab Samples: 7064634002, 7064634003, 7064634004, 7064634006, 7064634007, 7064634008, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

METHOD BLANK: 383659 Matrix: Water  
Associated Lab Samples: 7064634002, 7064634003, 7064634004, 7064634006, 7064634007, 7064634008, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	09/18/18 16:21	

LABORATORY CONTROL SAMPLE: 383660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	520	104	85-115	

MATRIX SPIKE SAMPLE: 383662

Parameter	Units	7064635001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	2270	600	3010	123	75-125	

MATRIX SPIKE SAMPLE: 383664

Parameter	Units	7064634004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	279	300	588	103	75-125	

SAMPLE DUPLICATE: 383661

Parameter	Units	7064635001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	2270	2360	4	

SAMPLE DUPLICATE: 383663

Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	279	267	4	

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

QC Batch: 82879 Analysis Method: SM22 3500-Cr B  
QC Batch Method: SM22 3500-Cr B Analysis Description: Chromium, Hexavalent by 3500  
Associated Lab Samples: 7064634002, 7064634003, 7064634004, 7064634006, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

METHOD BLANK: 381257 Matrix: Water  
Associated Lab Samples: 7064634002, 7064634003, 7064634004, 7064634006, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	09/13/18 16:36	

LABORATORY CONTROL SAMPLE: 381258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.2	0.20	102	85-115	

MATRIX SPIKE SAMPLE: 381259

Parameter	Units	7064634014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	.2	0.20	102	75-125	H3

MATRIX SPIKE SAMPLE: 381866

Parameter	Units	7064634004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	.2	0.21	103	75-125	

SAMPLE DUPLICATE: 381260

Parameter	Units	7064634014 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		H3

SAMPLE DUPLICATE: 381261

Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		H1

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

QC Batch:	83767	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	7064634002, 7064634003, 7064634004, 7064634005, 7064634006, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014		

METHOD BLANK:	385548	Matrix:	Water
Associated Lab Samples:	7064634002, 7064634003, 7064634004, 7064634005, 7064634006, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.0	10.0	09/20/18 12:32	

LABORATORY CONTROL SAMPLE:	385549					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	526	105	90-110	

MATRIX SPIKE SAMPLE:	385550						
Parameter	Units	7064274008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	19.6	1000	979	96	90-110	

MATRIX SPIKE SAMPLE:	385552						
Parameter	Units	7064634004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	46.1	1000	1020	97	90-110	

SAMPLE DUPLICATE:	385551					
Parameter	Units	7064274008 Result	Dup Result	RPD	Qualifiers	
Chemical Oxygen Demand	mg/L	19.6	23.6	19		

SAMPLE DUPLICATE:	385553					
Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers	
Chemical Oxygen Demand	mg/L	46.1	52.2	12		

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

QC Batch: 82902

Analysis Method: SM22 5210B

QC Batch Method: SM22 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 7064634002, 7064634003, 7064634007, 7064634008, 7064634009, 7064634014

METHOD BLANK: 381408

Matrix: Water

Associated Lab Samples: 7064634002, 7064634003, 7064634007, 7064634008, 7064634009, 7064634014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<2.0	2.0	09/18/18 11:45	

LABORATORY CONTROL SAMPLE: 381409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	180	91	84.5-115.4	

SAMPLE DUPLICATE: 381410

Parameter	Units	7064274008 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	<2.0	<2.0		H3

SAMPLE DUPLICATE: 381411

Parameter	Units	7064635001 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	<2.0	<2.0		

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

QC Batch: 82907

Analysis Method: SM22 5210B

QC Batch Method: SM22 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 7064634004, 7064634006, 7064634010, 7064634011, 7064634012, 7064634013

METHOD BLANK: 381432

Matrix: Water

Associated Lab Samples: 7064634004, 7064634006, 7064634010, 7064634011, 7064634012, 7064634013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<2.0	2.0	09/18/18 13:15	

LABORATORY CONTROL SAMPLE: 381433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	185	94	84.5-115.4	

SAMPLE DUPLICATE: 381434

Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	<2.0	<2.0		

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

QC Batch: 84647 Analysis Method: EPA 300.0  
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
 Associated Lab Samples: 7064634002, 7064634003, 7064634004, 7064634006, 7064634007, 7064634008, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

METHOD BLANK: 389288 Matrix: Water  
 Associated Lab Samples: 7064634002, 7064634003, 7064634004, 7064634006, 7064634007, 7064634008, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	<0.50	0.50	09/26/18 18:30	
Chloride	mg/L	<2.0	2.0	09/26/18 18:30	
Sulfate	mg/L	0.60J	5.0	09/26/18 18:30	

LABORATORY CONTROL SAMPLE: 389289

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	1	0.92	92	90-110	
Chloride	mg/L	10	9.2	92	90-110	
Sulfate	mg/L	10	10.8	108	90-110	

MATRIX SPIKE SAMPLE: 389290

Parameter	Units	7064634004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	<0.50	1	1.1	108	80-120	
Chloride	mg/L	4.9	10	14.1	92	80-120	
Sulfate	mg/L	5.7	10	16.2	105	80-120	

SAMPLE DUPLICATE: 389291

Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	<0.50	0.17J		
Chloride	mg/L	4.9	5.0	2	
Sulfate	mg/L	5.7	6.4	11	

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

QC Batch: 84466 Analysis Method: EPA 351.2  
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN  
Associated Lab Samples: 7064634002, 7064634003, 7064634004, 7064634005, 7064634006, 7064634009

METHOD BLANK: 388611 Matrix: Water  
Associated Lab Samples: 7064634002, 7064634003, 7064634004, 7064634005, 7064634006, 7064634009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	0.10	09/26/18 14:01	

LABORATORY CONTROL SAMPLE: 388612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	3.9	97	90-110	

MATRIX SPIKE SAMPLE: 388613

Parameter	Units	7064274008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	4	3.6	88	90-110	

MATRIX SPIKE SAMPLE: 388615

Parameter	Units	7064634004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.4	4	6.9	113	90-110	

SAMPLE DUPLICATE: 388614

Parameter	Units	7064274008 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	0.23		

SAMPLE DUPLICATE: 388616

Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.4	2.3	6	

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

QC Batch: 84467 Analysis Method: EPA 351.2  
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN  
Associated Lab Samples: 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

METHOD BLANK: 388617 Matrix: Water  
Associated Lab Samples: 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	0.10	09/26/18 14:26	

LABORATORY CONTROL SAMPLE: 388618

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	3.8	94	90-110	

MATRIX SPIKE SAMPLE: 388619

Parameter	Units	7065217002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.2	4	3.7	62	90-110	M1

MATRIX SPIKE SAMPLE: 388621

Parameter	Units	7065438002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4.1	4	8.5	108	90-110	

SAMPLE DUPLICATE: 388620

Parameter	Units	7065217002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.2	1.1	2	

SAMPLE DUPLICATE: 388622

Parameter	Units	7065438002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4.1	4.0	3	

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

QC Batch: 82947 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrite, Unpres.  
Associated Lab Samples: 7064634002, 7064634003, 7064634004, 7064634006, 7064634007, 7064634008, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

METHOD BLANK: 381677 Matrix: Water  
Associated Lab Samples: 7064634002, 7064634003, 7064634004, 7064634006, 7064634007, 7064634008, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	09/13/18 20:50	

LABORATORY CONTROL SAMPLE: 381678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 381679

Parameter	Units	7064635001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	.5	0.54	108	90-110	H1

MATRIX SPIKE SAMPLE: 381681

Parameter	Units	7064634004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	.5	0.52	104	90-110	

SAMPLE DUPLICATE: 381680

Parameter	Units	7064635001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		H1

SAMPLE DUPLICATE: 381682

Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

QC Batch: 82960 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 7064634002, 7064634003, 7064634004, 7064634005, 7064634006, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

METHOD BLANK: 381721 Matrix: Water  
Associated Lab Samples: 7064634002, 7064634003, 7064634004, 7064634005, 7064634006, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	09/13/18 23:08	

LABORATORY CONTROL SAMPLE: 381722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	0.98	98	90-110	

MATRIX SPIKE SAMPLE: 381723

Parameter	Units	7064274008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	.5	0.43	85	90-110	M1

MATRIX SPIKE SAMPLE: 381725

Parameter	Units	7064634004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	.5	0.48	88	90-110	M1

SAMPLE DUPLICATE: 381724

Parameter	Units	7064274008 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 381726

Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

QC Batch: 84146

Analysis Method: EPA 420.1

QC Batch Method: EPA 420.1

Analysis Description: 420.1 Phenolics Macro

Associated Lab Samples: 7064634002, 7064634003

METHOD BLANK: 387159

Matrix: Water

Associated Lab Samples: 7064634002, 7064634003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	5.0	09/24/18 15:15	

LABORATORY CONTROL SAMPLE: 387160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	30	31.0	103	90-110	

MATRIX SPIKE SAMPLE: 387161

Parameter	Units	7064274008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	20	22.3	111	75-125	

MATRIX SPIKE SAMPLE: 387163

Parameter	Units	7064634003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	20	19.7	95	75-125	

SAMPLE DUPLICATE: 387162

Parameter	Units	7064274008 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	<5.0		

SAMPLE DUPLICATE: 387164

Parameter	Units	7064634003 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	<5.0		

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

QC Batch: 84508 Analysis Method: EPA 420.1  
 QC Batch Method: EPA 420.1 Analysis Description: 420.1 Phenolics Macro  
 Associated Lab Samples: 7064634004, 7064634005, 7064634006, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

METHOD BLANK: 388718 Matrix: Water  
 Associated Lab Samples: 7064634004, 7064634005, 7064634006, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	5.0	09/26/18 15:32	

LABORATORY CONTROL SAMPLE: 388719

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	30	27.4	91	90-110	

MATRIX SPIKE SAMPLE: 388720

Parameter	Units	7064635001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	20	24.3	122	75-125	

MATRIX SPIKE SAMPLE: 388722

Parameter	Units	7064634004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	27.4	20	44.9	87	75-125	

SAMPLE DUPLICATE: 388721

Parameter	Units	7064635001 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	<5.0		

SAMPLE DUPLICATE: 388723

Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	27.4	24.9	10	

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

QC Batch: 84318

Analysis Method: SM22 4500 NH3 H

QC Batch Method: SM22 4500 NH3 H

Analysis Description: 4500 Ammonia

Associated Lab Samples: 7064634002

METHOD BLANK: 387824

Matrix: Water

Associated Lab Samples: 7064634002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.032J	0.10	09/25/18 11:26	

LABORATORY CONTROL SAMPLE: 387825

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 387826

Parameter	Units	7064274008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.079J	1	1.1	101	75-125	

SAMPLE DUPLICATE: 387827

Parameter	Units	7064274008 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.079J	0.082J		

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

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QC Batch: 84319 Analysis Method: SM22 4500 NH3 H  
 QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia  
 Associated Lab Samples: 7064634003, 7064634004, 7064634005, 7064634006, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

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METHOD BLANK: 387828 Matrix: Water  
 Associated Lab Samples: 7064634003, 7064634004, 7064634005, 7064634006, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.025J	0.10	09/25/18 12:02	

LABORATORY CONTROL SAMPLE: 387829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 387830

Parameter	Units	7064634004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.99	1	1.9	88	75-125	

SAMPLE DUPLICATE: 387831

Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.99	1.0	1	

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

QC Batch: 83564 Analysis Method: EPA 9014 Total Cyanide

QC Batch Method: EPA 9010C Analysis Description: 9014 Cyanide, Total

Associated Lab Samples: 7064634002, 7064634003

METHOD BLANK: 384640 Matrix: Water

Associated Lab Samples: 7064634002, 7064634003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	<10.0	10.0	09/19/18 14:32	

LABORATORY CONTROL SAMPLE: 384641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	65.5	87	85-115	

MATRIX SPIKE SAMPLE: 384642

Parameter	Units	7064274008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<10.0	100	90.8	89	75-125	

SAMPLE DUPLICATE: 384643

Parameter	Units	7064274008 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	<10.0	<10.0		

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

QC Batch: 84114 Analysis Method: EPA 9014 Total Cyanide  
QC Batch Method: EPA 9010C Analysis Description: 9014 Cyanide, Total  
Associated Lab Samples: 7064634004, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

METHOD BLANK: 387072 Matrix: Water  
Associated Lab Samples: 7064634004, 7064634009, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	<10.0	10.0	09/23/18 09:29	

LABORATORY CONTROL SAMPLE: 387073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	65.7	88	85-115	

MATRIX SPIKE SAMPLE: 387074

Parameter	Units	7064635001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<10.0	100	82.2	81	75-125	

MATRIX SPIKE SAMPLE: 387076

Parameter	Units	7064634004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<10.0	100	90.1	89	75-125	

SAMPLE DUPLICATE: 387075

Parameter	Units	7064635001 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	<10.0	<10.0		

SAMPLE DUPLICATE: 387077

Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	<10.0	<10.0		

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

QC Batch:	83610	Analysis Method:	EPA 9060A
QC Batch Method:	EPA 9060A	Analysis Description:	9060 TOC
Associated Lab Samples:	7064634001, 7064634002, 7064634003, 7064634005, 7064634006, 7064634007, 7064634008, 7064634009		

METHOD BLANK: 384826 Matrix: Water  
Associated Lab Samples: 7064634001, 7064634002, 7064634003, 7064634005, 7064634006, 7064634007, 7064634008, 7064634009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	1.0	09/21/18 18:21	
Total Organic Carbon	mg/L	<1.0	1.0	09/21/18 18:21	
Total Organic Carbon	mg/L	<1.0	1.0	09/21/18 18:21	
Total Organic Carbon	mg/L	<1.0	1.0	09/21/18 18:21	
Total Organic Carbon	mg/L	<1.0	1.0	09/21/18 18:21	

LABORATORY CONTROL SAMPLE: 384827

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	10	9.3	93	85-115	
Total Organic Carbon	mg/L	10	9.2	92	85-115	
Total Organic Carbon	mg/L	10	9.2	92	85-115	
Total Organic Carbon	mg/L	10	9.3	93	85-115	
Total Organic Carbon	mg/L	10	9.3	93	85-115	

MATRIX SPIKE SAMPLE: 384829

Parameter	Units	7064274008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	0.43J	10	10.3	98	75-125	
Total Organic Carbon	mg/L	0.44J	10	10.2	98	75-125	
Total Organic Carbon	mg/L	0.46J	10	10.2	98	75-125	
Total Organic Carbon	mg/L	0.42J	10	10.3	99	75-125	
Total Organic Carbon	mg/L	0.41J	10	10.2	98	75-125	

MATRIX SPIKE SAMPLE: 384831

Parameter	Units	7064635001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	0.47J	10	10.8	103	75-125	
Total Organic Carbon	mg/L	0.45J	10	10.7	103	75-125	
Total Organic Carbon	mg/L	0.47J	10	10.8	104	75-125	
Total Organic Carbon	mg/L	0.49J	10	10.8	103	75-125	
Total Organic Carbon	mg/L	0.48J	10	10.8	104	75-125	

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

SAMPLE DUPLICATE: 384828

Parameter	Units	7064274008 Result	Dup Result	RPD	Qualifiers
Mean Total Organic Carbon	mg/L	0.43J	0.43J		
Total Organic Carbon	mg/L	0.41J	0.42J		
Total Organic Carbon	mg/L	0.46J	0.45J		
Total Organic Carbon	mg/L	0.42J	0.43J		
Total Organic Carbon	mg/L	0.44J	0.43J		

SAMPLE DUPLICATE: 384830

Parameter	Units	7064635001 Result	Dup Result	RPD	Qualifiers
Mean Total Organic Carbon	mg/L	0.47J	0.42J		
Total Organic Carbon	mg/L	0.45J	0.49J		
Total Organic Carbon	mg/L	0.47J	0.42J		
Total Organic Carbon	mg/L	0.49J	0.40J		
Total Organic Carbon	mg/L	0.48J	0.39J		

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

QC Batch: 83611 Analysis Method: EPA 9060A  
 QC Batch Method: EPA 9060A Analysis Description: 9060 TOC  
 Associated Lab Samples: 7064634004, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

METHOD BLANK: 384832 Matrix: Water  
 Associated Lab Samples: 7064634004, 7064634010, 7064634011, 7064634012, 7064634013, 7064634014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	1.0	09/21/18 23:15	
Total Organic Carbon	mg/L	<1.0	1.0	09/21/18 23:15	
Total Organic Carbon	mg/L	<1.0	1.0	09/21/18 23:15	
Total Organic Carbon	mg/L	<1.0	1.0	09/21/18 23:15	
Total Organic Carbon	mg/L	<1.0	1.0	09/21/18 23:15	

LABORATORY CONTROL SAMPLE: 384833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	10	9.3	93	85-115	
Total Organic Carbon	mg/L	10	9.2	92	85-115	
Total Organic Carbon	mg/L	10	9.2	92	85-115	
Total Organic Carbon	mg/L	10	9.4	94	85-115	
Total Organic Carbon	mg/L	10	9.3	93	85-115	

MATRIX SPIKE SAMPLE: 384834

Parameter	Units	7064634004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	6.2	10	15.7	95	75-125	
Total Organic Carbon	mg/L	5.9	10	15.3	94	75-125	
Total Organic Carbon	mg/L	6.0	10	16.1	101	75-125	
Total Organic Carbon	mg/L	6.7	10	15.7	90	75-125	
Total Organic Carbon	mg/L	6.1	10	15.7	96	75-125	

MATRIX SPIKE SAMPLE: 384837

Parameter	Units	7064634011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	0.81J	10	9.9	91	75-125	
Total Organic Carbon	mg/L	0.78J	10	9.9	91	75-125	
Total Organic Carbon	mg/L	0.84J	10	9.9	91	75-125	
Total Organic Carbon	mg/L	0.71J	10	9.8	91	75-125	
Total Organic Carbon	mg/L	0.92J	10	9.9	89	75-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

SAMPLE DUPLICATE: 384835

Parameter	Units	7064634004 Result	Dup Result	RPD	Qualifiers
Mean Total Organic Carbon	mg/L	6.2	5.3	15	
Total Organic Carbon	mg/L	6.7	5.6	17	
Total Organic Carbon	mg/L	6.0	5.3	12	
Total Organic Carbon	mg/L	6.1	5.4	14	
Total Organic Carbon	mg/L	5.9	5.1	15	

SAMPLE DUPLICATE: 384836

Parameter	Units	7064635010 Result	Dup Result	RPD	Qualifiers
Mean Total Organic Carbon	mg/L	0.45J	0.43J		
Total Organic Carbon	mg/L	0.49J	0.45J		
Total Organic Carbon	mg/L	0.47J	0.43J		
Total Organic Carbon	mg/L	0.44J	0.41J		
Total Organic Carbon	mg/L	0.41J	0.44J		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

H1 Analysis conducted outside the EPA method holding time.

H3 Sample was received or analysis requested beyond the recognized method holding time.

IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N The reported TIC has an 85% or higher match on a mass spectral library search.

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7064634001	MW-6D	EPA 3005A	84096	EPA 6010C	84099
7064634002	MW-7A	EPA 3005A	84096	EPA 6010C	84099
7064634003	MW-7C	EPA 3005A	84096	EPA 6010C	84099
7064634004	MW-8B	EPA 3005A	84096	EPA 6010C	84099
7064634005	MW-9B	EPA 3005A	84096	EPA 6010C	84099
7064634006	MW-10B	EPA 3005A	84096	EPA 6010C	84099
7064634009	MW-12B	EPA 3005A	83394	EPA 6010C	83399
7064634010	MW-13	EPA 3005A	83394	EPA 6010C	83399
7064634011	MW-14	EPA 3005A	83394	EPA 6010C	83399
7064634012	SEEP	EPA 3005A	83394	EPA 6010C	83399
7064634013	STREAM	EPA 3005A	83394	EPA 6010C	83399
7064634014	DUP	EPA 3005A	83394	EPA 6010C	83399
7064634001	MW-6D	EPA 7470A	84039	EPA 7470A	84051
7064634002	MW-7A	EPA 7470A	84039	EPA 7470A	84051
7064634003	MW-7C	EPA 7470A	84039	EPA 7470A	84051
7064634004	MW-8B	EPA 7470A	84039	EPA 7470A	84051
7064634006	MW-10B	EPA 7470A	84039	EPA 7470A	84051
7064634009	MW-12B	EPA 7470A	84039	EPA 7470A	84051
7064634010	MW-13	EPA 7470A	83361	EPA 7470A	83402
7064634011	MW-14	EPA 7470A	83361	EPA 7470A	83402
7064634012	SEEP	EPA 7470A	83361	EPA 7470A	83402
7064634013	STREAM	EPA 7470A	83361	EPA 7470A	83402
7064634014	DUP	EPA 7470A	83361	EPA 7470A	83402
7064634001	MW-6D	EPA 8260C/5030C	83278		
7064634002	MW-7A	EPA 8260C/5030C	83278		
7064634003	MW-7C	EPA 8260C/5030C	83278		
7064634004	MW-8B	EPA 8260C/5030C	83278		
7064634005	MW-9B	EPA 8260C/5030C	83278		
7064634006	MW-10B	EPA 8260C/5030C	83278		
7064634007	MW-11B	EPA 8260C/5030C	83278		
7064634008	MW-12A	EPA 8260C/5030C	83278		
7064634009	MW-12B	EPA 8260C/5030C	83278		
7064634010	MW-13	EPA 8260C/5030C	83278		
7064634011	MW-14	EPA 8260C/5030C	83278		
7064634012	SEEP	EPA 8260C/5030C	83278		
7064634013	STREAM	EPA 8260C/5030C	83278		
7064634014	DUP	EPA 8260C/5030C	83278		
7064634015	TRIP BLANK	EPA 8260C/5030C	83278		
7064634016	STORAGE BLANK	EPA 8260C/5030C	83278		
7064634001	MW-6D	EPA 8260			
7064634002	MW-7A	EPA 8260			
7064634003	MW-7C	EPA 8260			
7064634004	MW-8B	EPA 8260			
7064634005	MW-9B	EPA 8260			
7064634006	MW-10B	EPA 8260			
7064634007	MW-11B	EPA 8260			

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7064634010	MW-13	EPA 8260			
7064634011	MW-14	EPA 8260			
7064634012	SEEP	EPA 8260			
7064634013	STREAM	EPA 8260			
7064634014	DUP	EPA 8260			
7064634015	TRIP BLANK	EPA 8260			
7064634016	STORAGE BLANK	EPA 8260			
7064634002	MW-7A	SM22 2120B	82877		
7064634003	MW-7C	SM22 2120B	82877		
7064634004	MW-8B	SM22 2120B	82877		
7064634006	MW-10B	SM22 2120B	82877		
7064634009	MW-12B	SM22 2120B	82877		
7064634010	MW-13	SM22 2120B	82877		
7064634011	MW-14	SM22 2120B	82877		
7064634012	SEEP	SM22 2120B	82877		
7064634013	STREAM	SM22 2120B	82877		
7064634014	DUP	SM22 2120B	82877		
7064634002	MW-7A	SM22 2320B	84380		
7064634003	MW-7C	SM22 2320B	84380		
7064634004	MW-8B	SM22 2320B	84380		
7064634006	MW-10B	SM22 2320B	84380		
7064634009	MW-12B	SM22 2320B	84380		
7064634010	MW-13	SM22 2320B	84380		
7064634011	MW-14	SM22 2320B	84478		
7064634012	SEEP	SM22 2320B	84478		
7064634013	STREAM	SM22 2320B	84478		
7064634014	DUP	SM22 2320B	84478		
7064634001	MW-6D	SM22 2340C	84305		
7064634002	MW-7A	SM22 2340C	84305		
7064634003	MW-7C	SM22 2340C	84305		
7064634004	MW-8B	SM22 2340C	84479		
7064634005	MW-9B	SM22 2340C	84479		
7064634006	MW-10B	SM22 2340C	84479		
7064634009	MW-12B	SM22 2340C	84479		
7064634010	MW-13	SM22 2340C	84479		
7064634011	MW-14	SM22 2340C	84479		
7064634012	SEEP	SM22 2340C	84479		
7064634013	STREAM	SM22 2340C	84479		
7064634014	DUP	SM22 2340C	84479		
7064634002	MW-7A	SM22 2540C	83380		
7064634003	MW-7C	SM22 2540C	83380		
7064634004	MW-8B	SM22 2540C	83380		
7064634006	MW-10B	SM22 2540C	83380		
7064634007	MW-11B	SM22 2540C	83380		
7064634008	MW-12A	SM22 2540C	83380		
7064634009	MW-12B	SM22 2540C	83380		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7064634010	MW-13	SM22 2540C	83380		
7064634011	MW-14	SM22 2540C	83380		
7064634012	SEEP	SM22 2540C	83380		
7064634013	STREAM	SM22 2540C	83380		
7064634014	DUP	SM22 2540C	83380		
7064634002	MW-7A	SM22 3500-Cr B	82879		
7064634003	MW-7C	SM22 3500-Cr B	82879		
7064634004	MW-8B	SM22 3500-Cr B	82879		
7064634006	MW-10B	SM22 3500-Cr B	82879		
7064634009	MW-12B	SM22 3500-Cr B	82879		
7064634010	MW-13	SM22 3500-Cr B	82879		
7064634011	MW-14	SM22 3500-Cr B	82879		
7064634012	SEEP	SM22 3500-Cr B	82879		
7064634013	STREAM	SM22 3500-Cr B	82879		
7064634014	DUP	SM22 3500-Cr B	82879		
7064634002	MW-7A	EPA 410.4	83767	EPA 410.4	83793
7064634003	MW-7C	EPA 410.4	83767	EPA 410.4	83793
7064634004	MW-8B	EPA 410.4	83767	EPA 410.4	83793
7064634005	MW-9B	EPA 410.4	83767	EPA 410.4	83793
7064634006	MW-10B	EPA 410.4	83767	EPA 410.4	83793
7064634009	MW-12B	EPA 410.4	83767	EPA 410.4	83793
7064634010	MW-13	EPA 410.4	83767	EPA 410.4	83793
7064634011	MW-14	EPA 410.4	83767	EPA 410.4	83793
7064634012	SEEP	EPA 410.4	83767	EPA 410.4	83793
7064634013	STREAM	EPA 410.4	83767	EPA 410.4	83793
7064634014	DUP	EPA 410.4	83767	EPA 410.4	83793
7064634002	MW-7A	SM22 5210B	82902	SM22 5210B	83779
7064634003	MW-7C	SM22 5210B	82902	SM22 5210B	83779
7064634004	MW-8B	SM22 5210B	82907	SM22 5210B	83780
7064634006	MW-10B	SM22 5210B	82907	SM22 5210B	83780
7064634007	MW-11B	SM22 5210B	82902	SM22 5210B	83779
7064634008	MW-12A	SM22 5210B	82902	SM22 5210B	83779
7064634009	MW-12B	SM22 5210B	82902	SM22 5210B	83779
7064634010	MW-13	SM22 5210B	82907	SM22 5210B	83780
7064634011	MW-14	SM22 5210B	82907	SM22 5210B	83780
7064634012	SEEP	SM22 5210B	82907	SM22 5210B	83780
7064634013	STREAM	SM22 5210B	82907	SM22 5210B	83780
7064634014	DUP	SM22 5210B	82902	SM22 5210B	83779
7064634002	MW-7A	EPA 300.0	84647		
7064634003	MW-7C	EPA 300.0	84647		
7064634004	MW-8B	EPA 300.0	84647		
7064634006	MW-10B	EPA 300.0	84647		
7064634007	MW-11B	EPA 300.0	84647		
7064634008	MW-12A	EPA 300.0	84647		
7064634009	MW-12B	EPA 300.0	84647		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ischua Landfill 9/12  
Pace Project No.: 7064634

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7064634010	MW-13	EPA 300.0	84647		
7064634011	MW-14	EPA 300.0	84647		
7064634012	SEEP	EPA 300.0	84647		
7064634013	STREAM	EPA 300.0	84647		
7064634014	DUP	EPA 300.0	84647		
7064634002	MW-7A	EPA 351.2	84466	EPA 351.2	84481
7064634003	MW-7C	EPA 351.2	84466	EPA 351.2	84481
7064634004	MW-8B	EPA 351.2	84466	EPA 351.2	84481
7064634005	MW-9B	EPA 351.2	84466	EPA 351.2	84481
7064634006	MW-10B	EPA 351.2	84466	EPA 351.2	84481
7064634009	MW-12B	EPA 351.2	84466	EPA 351.2	84481
7064634010	MW-13	EPA 351.2	84467	EPA 351.2	84482
7064634011	MW-14	EPA 351.2	84467	EPA 351.2	84482
7064634012	SEEP	EPA 351.2	84467	EPA 351.2	84482
7064634013	STREAM	EPA 351.2	84467	EPA 351.2	84482
7064634014	DUP	EPA 351.2	84467	EPA 351.2	84482
7064634002	MW-7A	EPA 353.2	82960		
7064634003	MW-7C	EPA 353.2	82960		
7064634004	MW-8B	EPA 353.2	82960		
7064634005	MW-9B	EPA 353.2	82960		
7064634006	MW-10B	EPA 353.2	82960		
7064634009	MW-12B	EPA 353.2	82960		
7064634010	MW-13	EPA 353.2	82960		
7064634011	MW-14	EPA 353.2	82960		
7064634012	SEEP	EPA 353.2	82960		
7064634013	STREAM	EPA 353.2	82960		
7064634014	DUP	EPA 353.2	82960		
7064634002	MW-7A	EPA 353.2	82947		
7064634003	MW-7C	EPA 353.2	82947		
7064634004	MW-8B	EPA 353.2	82947		
7064634006	MW-10B	EPA 353.2	82947		
7064634007	MW-11B	EPA 353.2	82947		
7064634008	MW-12A	EPA 353.2	82947		
7064634009	MW-12B	EPA 353.2	82947		
7064634010	MW-13	EPA 353.2	82947		
7064634011	MW-14	EPA 353.2	82947		
7064634012	SEEP	EPA 353.2	82947		
7064634013	STREAM	EPA 353.2	82947		
7064634014	DUP	EPA 353.2	82947		
7064634002	MW-7A	EPA 420.1	84146	EPA 420.1	84243
7064634003	MW-7C	EPA 420.1	84146	EPA 420.1	84243
7064634004	MW-8B	EPA 420.1	84508	EPA 420.1	84575
7064634005	MW-9B	EPA 420.1	84508	EPA 420.1	84575
7064634006	MW-10B	EPA 420.1	84508	EPA 420.1	84575
7064634009	MW-12B	EPA 420.1	84508	EPA 420.1	84575
7064634010	MW-13	EPA 420.1	84508	EPA 420.1	84575

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ischua Landfill 9/12

Pace Project No.: 7064634

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7064634011	MW-14	EPA 420.1	84508	EPA 420.1	84575
7064634012	SEEP	EPA 420.1	84508	EPA 420.1	84575
7064634013	STREAM	EPA 420.1	84508	EPA 420.1	84575
7064634014	DUP	EPA 420.1	84508	EPA 420.1	84575
7064634002	MW-7A	SM22 4500 NH3 H	84318		
7064634003	MW-7C	SM22 4500 NH3 H	84319		
7064634004	MW-8B	SM22 4500 NH3 H	84319		
7064634005	MW-9B	SM22 4500 NH3 H	84319		
7064634006	MW-10B	SM22 4500 NH3 H	84319		
7064634009	MW-12B	SM22 4500 NH3 H	84319		
7064634010	MW-13	SM22 4500 NH3 H	84319		
7064634011	MW-14	SM22 4500 NH3 H	84319		
7064634012	SEEP	SM22 4500 NH3 H	84319		
7064634013	STREAM	SM22 4500 NH3 H	84319		
7064634014	DUP	SM22 4500 NH3 H	84319		
7064634002	MW-7A	EPA 9010C	83564	EPA 9014 Total Cyanide	83625
7064634003	MW-7C	EPA 9010C	83564	EPA 9014 Total Cyanide	83625
7064634004	MW-8B	EPA 9010C	84114	EPA 9014 Total Cyanide	84117
7064634009	MW-12B	EPA 9010C	84114	EPA 9014 Total Cyanide	84117
7064634010	MW-13	EPA 9010C	84114	EPA 9014 Total Cyanide	84117
7064634011	MW-14	EPA 9010C	84114	EPA 9014 Total Cyanide	84117
7064634012	SEEP	EPA 9010C	84114	EPA 9014 Total Cyanide	84117
7064634013	STREAM	EPA 9010C	84114	EPA 9014 Total Cyanide	84117
7064634014	DUP	EPA 9010C	84114	EPA 9014 Total Cyanide	84117
7064634001	MW-6D	EPA 9060A	83610		
7064634002	MW-7A	EPA 9060A	83610		
7064634003	MW-7C	EPA 9060A	83610		
7064634004	MW-8B	EPA 9060A	83611		
7064634005	MW-9B	EPA 9060A	83610		
7064634006	MW-10B	EPA 9060A	83610		
7064634007	MW-11B	EPA 9060A	83610		
7064634008	MW-12A	EPA 9060A	83610		
7064634009	MW-12B	EPA 9060A	83610		
7064634010	MW-13	EPA 9060A	83611		
7064634011	MW-14	EPA 9060A	83611		
7064634012	SEEP	EPA 9060A	83611		
7064634013	STREAM	EPA 9060A	83611		
7064634014	DUP	EPA 9060A	83611		

## REPORT OF LABORATORY ANALYSIS

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# Sample Condition Upon Receipt

Client Name: LBA-B

Proj

WO#: 7064634

PM: JSA Due Date: 09/27/18

CLIENT: LBA-B

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking #: 441481294620

Custody Seal on Cooler/Box Present:  Yes  No Seals intact:  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  Ziploc  None  Other

Thermometer Used: TH091

Correction Factor: 0.0

Cooler Temperature (°C): 4.2

Cooler Temperature Corrected (°C): 4.2

Temperature Blank Present:  Yes  No

Type of Ice:  Wet  Blue  None

Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer \_\_\_\_\_

Temp should be above freezing to 6.0°C

USDA Regulated Soil  N/A, water sample

Date and Initials of person examining contents: 9/13 ML

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)?  YES  NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.	
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.	
Sufficient Volume: (Triple volume provided for MS/MSD)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.	sample OOS loaded off bottle provided (Sulfuric) - no unpres. vol. provided
-Includes date/time/ID/Analysis Matrix SL WT OIL			
All containers needing preservation have been checked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	<input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl OOS -
pH paper Lot # <u>1-1C 739245</u>			
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		Sample #
		Initial when completed:	Lot # of added preservative: Date/Time preservative added:
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
KI starch test strips Lot #			
Residual chlorine strips Lot #			Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if applicable):			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

# APPENDIX D

## Historical Analytical Results Tables

MW-6A  
 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 CLEAN, NEW YORK

PARAMETER VOLATILES (ug/L)	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02		
Acetone																																					
Acrylonitrile																																					
Benzene	ND	ND	ND																																		ND
Bromobenzene	ND	ND	ND																																		ND
Bromochloromethane	ND	ND	ND																																		ND
Bromodichloromethane	ND	ND	ND																																		
Bromoform	ND	ND	ND																																		
Bromomethane	ND	ND	ND																																		ND
2-Butanone																																					
n-Butylbenzene	ND	ND	ND																																		ND
sec-Butylbenzene	ND	ND	ND																																		ND
tert-Butylbenzene	ND	ND	ND																																		ND
Carbon disulfide																																					
Carbon tetrachloride	ND	ND	ND																																		ND
Chlorobenzene	ND	ND	ND																																		ND
Chloroethane	ND	ND	ND																																		ND
Chloroform	<DL	ND	ND																																		
Chloromethane	ND	ND	ND																																		ND
2-Chlorotoluene	ND	ND	ND																																		ND
4-Chlorotoluene	ND	ND	ND																																		ND
Dibromochloromethane	ND	ND	ND																																		
1,2-Dibromo-3-chloropropane	ND	ND	ND																																		
1,2-Dibromoethane	ND	ND	ND																																		
Dibromomethane	ND	ND	ND																																		ND
1,2-Dichlorobenzene	ND	ND	ND																																		ND
1,3-Dichlorobenzene	ND	ND	ND																																		ND
1,4-Dichlorobenzene	ND	ND	ND																																		ND
trans-1,4-Dichloro-2-butene																																					
Dichlorodifluoromethane	ND	ND	ND																																		ND
1,1-Dichloroethane	ND	ND	ND																																		ND
1,2-Dichloroethane	ND	ND	ND																																		ND
1,1-Dichloroethene	ND	ND	ND																																		ND
cis-1,2-Dichloroethene	ND	ND	ND																																		ND
trans-1,2-Dichloroethene	ND	ND	ND																																		ND
1,2-Dichloropropane	ND	ND	ND																																		ND
1,3-Dichloropropane	ND	ND	ND																																		ND
2,2-Dichloropropane	ND	ND	ND																																		ND
1,1-Dichloropropene	ND	ND	ND																																		ND
cis-1,3-Dichloropropene	ND	ND	ND																																		ND
trans-1,3-Dichloropropene	ND	ND	ND																																		ND
Ethylbenzene	ND	ND	ND																																		ND
2-Hexanone																																					
Hexachlorobutadiene	ND	ND	ND																																		ND
Iodomethane																																					
Isopropylbenzene	ND	ND	ND																																		ND
p-Isopropyltoluene	ND	ND	ND																																		ND
Methylene chloride	ND	ND	ND																																		ND
4-Methyl-2-pentanone																																					
Naphthalene	ND	ND	ND																																		ND
n-Propylbenzene	ND	ND	ND																																		ND
Styrene	ND	ND	ND																																		ND
1,1,1,2-Tetrachloroethane	ND	ND	ND																																		ND
1,1,1,2,2-Tetrachloroethane	ND	ND	ND																																		ND
Tetrachloroethene	ND	ND	ND																																		ND
Toluene	ND	ND	ND																																		ND
1,2,3-Trichlorobenzene	ND	ND	ND																																		ND
1,2,4-Trichlorobenzene	ND	ND	ND																																		ND
1,1,1-Trichloroethane	ND	ND	ND																																		ND
1,1,2-Trichloroethane	ND	ND	ND																																		ND
Trichloroethene	ND	ND	ND																																		ND
Trichlorofluoromethane	ND	ND	ND																																		ND
1,2,3-Trichloropropane	ND	ND	ND																																		ND
1,2,4-Trimethylbenzene	ND	ND	ND																																		ND
1,3,5-Trimethylbenzene																																					ND
Vinyl acetate																																					
Vinyl chloride	ND	ND	ND																																		ND
o-Xylene	ND	ND	ND																																		ND
p-Xylene & m-Xylene																																					ND







MW-6A  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	6/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD
<b>PARAMETER METALS (mg/L)</b>																																			
Aluminum																		0																0	
Calcium										78.6								0																	5.614
Iron										11								0																	0.786
Magnesium										23.3								0																	1.664
Manganese										0.36								0																	0.026
Potassium										4.6								0																	0.328
Sodium										4.9								0																	0.35
<b>PARAMETER (mg/l) TOXIC METALS</b>																																			
Antimony																		0																0	
Arsenic																		0																	0
Barium																		0																	0
Beryllium																		0																	0
Cadmium										ND								0																	0
Chromium (Total)																		0																	0
Copper																		0																	0
Lead										0.015								0																	0.001
Mercury																		0																	0
Nickel																		0																	0
Selenium																		0																	0
Silver																		0																	0
Thallium																		0																	0
Zinc																		0																	0
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																			
Alkalinity																		0																	0
Biochemical Oxygen Demand																		0																	0
Boron																		0																	0
Chemical Oxygen Demand																		0																	0
Chromium (Hexavalent)																		0																	0
Chloride																		0																	0
Color (PCU units)																		0																	0
Nitrate-Nitrite																		0																	0
Nitrogen-Ammonia																		0																	0
Phenols																		0																	0
Sulfate																		0																	0
Total Organic Carbon (TOC)																		0																	0
Total Dissolved Solids (TDS)																		0																	0
Total Hardness																		0																	0
Total Kjeldahl Nitrogen (TKN)																		0																	0
Turbidity (NTU units)																		0																	0
Cyanide																		0																	0
(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards. * = Applies to the sum of cis and trans-1,3-dichloropropene. ** = Guidance Value. ND values are included in calculation of Mean and are considered equal to zero. (Blank) or "-" = Not Analyzed. ND = Not Detected. J = Estimated. <DL = Detected below method detection limit. B = Analyte was detected in method blank.																																			

MW-6D  
 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 OLEAN, NEW YORK

PARAMETER VOLATILES (ug/L)	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02		
Acetone																																					
Acrylonitrile																																					
Benzene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND					ND						ND	
Bromobenzene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND					ND							ND
Bromochloromethane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND					ND							ND
Bromodichloromethane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND					ND							ND
Bromodibromomethane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND					ND							ND
Bromomethane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND					ND							ND
2-Butanone																																					
n-Butylbenzene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND					ND							ND
sec-Butylbenzene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND					ND							ND
tert-Butylbenzene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND					ND							ND
Carbon disulfide																																					
Carbon tetrachloride	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND					ND							ND
Chlorobenzene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND					ND							ND
Chloroethane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND					ND							ND
Chloroform	0.36	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												
Chloromethane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND					ND							ND
2-Chlorotoluene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND					ND							ND
4-Chlorotoluene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND					ND							ND
Dibromochloromethane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												
1,2-Dibromoethane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
Dibromomethane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
1,2-Dichlorobenzene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
1,3-Dichlorobenzene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
1,4-Dichlorobenzene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
trans-1,4-Dichloro-2-butene	ND	ND	ND	4.0			5.0		3.0		ND				0.90					0.90			ND		ND											ND	
Dichlorodifluoromethane																																					
1,1-Dichloroethane	0.51	0.69	<DL	ND			ND		ND		ND				ND					ND			ND		ND											ND	
1,2-Dichloroethane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
1,1-Dichloroethene	ND	ND	<DL	ND			ND		ND		ND				ND					ND			ND		ND												ND
cis-1,2-Dichloroethene	ND	0.40	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
trans-1,2-Dichloroethene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
1,2-Dichloropropane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
1,3-Dichloropropane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
2,2-Dichloropropane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
1,1-Dichloropropene	ND	ND	<DL	ND			ND		ND		ND				ND					ND			ND		ND												ND
cis-1,3-Dichloropropene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
trans-1,3-Dichloropropene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
Ethylbenzene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
2-Hexanone																																					
Hexachlorobutadiene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
Iodomethane																																					
Isopropylbenzene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
p-Isopropyltoluene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
Methylene chloride	<DL	<DL	<DL	1.0			2.0		ND		ND				ND					ND			ND		ND												ND
4-Methyl-2-pentanone																																					
Naphthalene	ND	ND	<DL	ND			ND		ND		ND				ND					ND			ND		ND												ND
n-Propylbenzene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
Styrene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
Tetrachloroethene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
Toluene	ND	ND	ND	ND			ND		ND		0.9				ND					ND			7.00		ND												ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
1,1,1-Trichloroethane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												1.00
1,1,2-Trichloroethane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
Trichloroethene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
Trichlorofluoromethane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
1,2,3-Trichloropropane	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND			ND		ND		ND				ND					ND			ND		ND												ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND			ND		ND		ND				ND		</																				

MW-6D  
 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 CLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02				
<b>PARAMETER METALS (mg/L)</b>																																							
Aluminum	5.7								34.30																														
Calcium	86.5	88.5	65.7	102			66.40	70.20	99.00	75.40	78.80	72.6		119	128	69.4																							
Iron	21	13.1	0.4	44.8			0.70	1.50	62.80	10.40	26.20	17.2		187	152	0.92																							
Magnesium	7.8	19.1	17.7	27.5			17.70	19.40	28.60	20.80	22.10	19.9		49.7	48.5	19.4																							
Manganese	0.32	0.32	0.2	0.73			0.03	0.08	1.23	0.23	0.459	0.361		3.34	3.11	0.03																							
Potassium	5.4	4.8	2	9.7			2.80	8.00	11.30	4.48	8.78	5.22		21.8	17.9	3.96																							
Sodium	8.7	4.7	7.1	7.5			5.10	6.20	4.87	4.98	16.16	8.23		6.24	8.57	5.62																							
<b>PARAMETER (mg/l) TOXIC METALS</b>																																							
Antimony	<DL								0.028																														
Arsenic	ND								0.029																														
Barium	0.12	0.1	ND	0.23			0.06	0.07	0.296	0.100	0.17	0.124		0.661	0.565	0.05																							
Beryllium									0.003																														
Cadmium		0	ND	ND			ND	ND	ND	ND	ND	ND				0.008	ND																						
Chromium (Total)	<DL	0.01	<DL	0.04			ND	0.01	0.062		0.054	0.023		0.174	0.159	ND																							
Copper	<DL								ND																														
Lead	0.011	0.010	0.002	0.022			ND	0.009	0.043	0.006	0.013	0.017		0.280	0.140	0.006																							
Mercury	ND	<DL	ND	ND			ND	ND	ND	ND	ND	ND		ND	ND	ND																							
Nickel	0.25								0.040																														
Selenium	0.028	<DL	<DL	ND			ND	ND	ND	ND	ND	ND		ND	ND	ND																							
Silver	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND		ND	ND	ND																							
Thallium	0.04								ND																														
Zinc	0.04								0.182																														
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																							
Alkalinity	531	237	243	241			286.0	268.0	278.0	240.0	252	239		239	250	255																							
Biochemical Oxygen Demand	20								12.0																														
Boron	ND								ND																														
Chemical Oxygen Demand	190	24	<DL	ND			ND	31.0	124.0	126.0	84.6	47.3		101	21.6	24.1																							
Chromium (Hexavalent)	<DL								ND																														
Chloride	6	12	12	4			7.0	15.0	ND	6.4	7.26	9.72		7.1	6.5	8.43																							
Color (PCU units)	15								10.0																														
Nitrate-Nitrite	<DL	<DL	<DL	0.68			ND	0.3	0.14	ND	0.277	0.087		0.331	ND	ND																							
Nitrogen-Ammonia	<DL	<DL	1.3	0.3			ND	0.2	0.08	0.01	0.176	0.055		0.52	0.086	0.01																							
Phenols	0.003	ND	ND	0.811			ND	ND	ND	ND	0.003	0.007		ND	0.008	ND																							
Sulfate	29	39.8	25.4	32			29.0	36.0	17.0	42.0	37	39		37	35	34																							
Total Organic Carbon (TOC)	25	24	2.7	1			ND	45.0	6.5	16.0	14.8	6.8		8.7	3	4																							
Total Dissolved Solids (TDS)	324	351	294	366			281.0	336.0	290.0	305.0	318	331		361	282	296																							
Total Hardness	248	304	237	368			238.0	255.0	1070	308.0	981	360		840	654	310																							
Total Kjeldahl Nitrogen (TKN)	7.7								ND																														
Turbidity (NTU units)	0.5	3150	195	910			83.0	400	650	1600	2000	1600		340	30	110																							
Cyanide	0.004								ND																														

MW-6D  
 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 OLEAN, NEW YORK

PARAMETER VOLATILES (ug/L)	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD	
Acetone								ND	ND	2.3		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.10	50.0	
Acrylonitrile								ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
Benzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	1.0	
Bromobenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
Bromochloromethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
Bromodichloromethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	50.0	
Bromoform		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	50.0	
Bromomethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	0.45	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.01	5.0
2-Butanone		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	50.0	
n-Butylbenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
sec-Butylbenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
tert-Butylbenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
Carbon disulfide								ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	60.0	
Carbon tetrachloride		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
Chlorobenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
Chloroethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
Chloroform		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.01	7.0	
Chloromethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.20	5.0	
2-Chlorotoluene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
4-Chlorotoluene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
Dibromochloromethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	50.0	
1,2-Dibromo-3-chloropropane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	0.04	
1,2-Dibromoethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
Dibromomethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
1,2-Dichlorobenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	3.0	
1,3-Dichlorobenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	3.0	
1,4-Dichlorobenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	3.0	
trans-1,4-Dichloro-2-butene								ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
Dichlorodifluoromethane		ND	ND	ND	0.34	ND		ND	ND	ND		0.37		0.4	0.38	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
1,1-Dichloroethane		ND	ND	ND	0.39	0.4		0.43	0.43	0.36		0.48		0.43	0.55	0.45		0.41	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.36	5.0	
1,2-Dichloroethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	6.0	
1,1-Dichloroethene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
cis-1,2-Dichloroethene		ND	ND	ND	ND	ND		ND	0.39	ND		0.3		0.27	0.46	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.05	5.0	
trans-1,2-Dichloroethene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	0.35		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.01	5.0	
1,2-Dichloropropane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	1.0	
1,3-Dichloropropane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
2,2-Dichloropropane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
1,1-Dichloropropene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	0.4	
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	0.34	-	-	-	-	ND	-	ND	ND	0.01	0.4	
Ethylbenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
2-Hexanone								ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	50.0	
Hexachlorobutadiene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	0.5	
Iodomethane								ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
Isopropylbenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
p-Isopropyltoluene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
Methylene chloride		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.08	5.0	
4-Methyl-2-pentanone								ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
Naphthalene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	10.0	
n-Propylbenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
Styrene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
1,1,1,2-Tetrachloroethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
Tetrachloroethene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.00	5.0	
Toluene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	0.20	5.0	
1,2,3-Trichlorobenzene		ND	ND	ND	0.65	ND		ND	ND	ND		ND		ND	ND	ND		ND																		

MW-6D  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

PARAMETER (mg/L)	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD	
<b>PARAMETER METALS (mg/L)</b>																																				
Aluminum			16.3	2.4				0.45				1.6		0.49				0.42				0.31	-	-	ND	-	-	-	-	0.367	-	-	27.3	4.48		
Calcium			98.8	95.6	118	139		90.9	87.3			95.6		101	92.9	94		101				82.9	-	87.8	ND	-	-	-	90.7	-	-	96	120	77.40		
Iron			31.6	0.35	3.9	4.1		0.49	0.56			1.7		0.403	0.128	0.178		0.29			0.57	0.34	-	0.39	ND	-	-	-	0.723	-	1.32	63.4	17.51	0.3		
Magnesium			27.8	23.6	24.5	26		23.9	23.6			25.1		26.5	24.5	24.8		26.8				22.9	-	24.6	ND	-	-	-	24.7	-	25.9	35.1	20.88	35.0		
Manganese			0.9	0.03	1.4	1.7		0.02	0.04			0.05		ND	ND	ND		ND				0.02	-	0.02	ND	-	-	-	0.0242	-	0.059	1.78	0.45	0.3		
Potassium			6.58	2.72	3.4	3.2		2.7	2.6			2.8		3.04	2.71	2.29		2.4				2.5	-	2.3	ND	-	-	-	2.71	-	2.68	7.39	4.63			
Sodium			6.21	6.85	7.6	5.7		5.5	5.9			4.9		6	4.5	4.7		4.9				4.6	-	4.6	ND	-	-	-	3.81	-	4.94	6.62	5.12	20.0		
<b>PARAMETER (mg/l) TOXIC METALS</b>																																				
Antimony			ND	ND				ND				ND		ND				ND				ND	-	-	ND	-	-	-	-	ND	-	-	ND	0.00	0.003	
Arsenic			ND	ND				ND				ND		ND				ND				ND	-	-	ND	-	-	-	-	ND	-	-	0.0626	0.00	0.025	
Barium			0.23	0.07	0.16	0.26		0.06	0.06			0.06		0.055	0.047			0.051				0.05	-	-	0.061	-	-	-	0.0513	-	-	0.205	0.12	1.0		
Beryllium			ND	ND	ND	ND		ND	ND			ND		ND	ND	ND		ND				0.0002	-	-	ND	-	-	-	ND	-	-	0.0014	0.00			
Cadmium			ND	ND	ND	ND		ND	ND			ND		ND	ND	ND		ND				ND	-	ND	ND	-	-	-	ND	-	ND	ND	0.00	0.005		
Chromium (Total)			0.02	ND	ND	ND		ND	ND			ND		ND	ND	ND		ND				ND	-	-	0.001	-	-	-	ND	-	-	0.0504	0.02	0.05		
Copper			0.02	0.02				ND	ND			ND		ND	ND	ND		ND				0.005	-	-	ND	-	-	-	0.003	-	-	0.0533	0.01	0.2		
Lead			0.01	ND	0.03	0.03		ND	ND			ND		ND	ND	ND		ND			0.002	ND	-	ND	0.005	-	-	-	0.0027	-	0.0048	0.126	0.02	0.025		
Mercury			ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND				ND	-	-	ND	-	-	-	ND	-	-	0.0002	0.00	0.0007		
Nickel			ND	ND	ND	ND		ND	ND			ND		ND	ND	ND		ND				ND	-	-	0.004	-	-	-	0.0021	-	-	0.0616	0.02	0.1		
Selenium			ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND				ND	-	-	ND	-	-	-	ND	-	-	ND	0.00	0.01		
Silver			ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND				ND	-	-	ND	-	-	-	ND	-	-	ND	0.00	0.05		
Thallium			ND	ND	ND	ND		ND	ND			ND		ND	ND	ND		ND				ND	-	-	ND	-	-	-	ND	-	-	0.005	0.00	0.0005		
Zinc			0.08	0.03				ND	ND			ND		0.038				ND				0.047	-	-	0.069	-	-	-	0.0084	-	-	0.178	0.03	2.0		
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																				
Alkalinity			340	330	289	268		496	175	275		250		337	298	329		382	378	310		319	-	329	-	-	-	-	294	-	311	-	242			
Biochemical Oxygen Demand			ND		6.6			ND				ND		ND				ND		ND		ND	-	-	-	-	-	-	1	-	ND	-	2			
Boron			ND	ND	ND			ND				0.03		0.028				0.03				0.06	-	-	0.06	-	-	-	0.0303	-	-	0.0382	0	1.0		
Chemical Oxygen Demand			ND	ND	92.1	ND		ND	ND	ND		ND		ND	ND	ND		ND		ND	ND	ND	-	ND	ND	-	-	-	50.5	-	21.6	-	30			
Chromium (Hexavalent)			ND	ND	ND	ND		ND	ND			ND		ND	ND	ND		ND				ND	-	-	0.013	-	-	-	ND	-	-	-	-	0	0.05	
Chloride			3.8	3.7	3.3	3.1		3.2	3	3.2		2.3		2.2	2.79	2.5		2.7	2.2	2.26		3	-	2.5	2.1	-	-	-	4.1	-	-	2.4	-	4.4	250.0	
Color (PCU units)			5		160			20				15		ND	20			50				12	-	-	17	-	-	-	5	-	-	-	-	15	15.0	
Nitrate-Nitrite			0.07	0.03	ND	ND		ND	ND	ND		ND		0.088	0.58			ND	0.05	0.534		ND	-	ND	ND	-	-	-	0.09	-	ND	-	0	10.0		
Nitrogen-Ammonia			ND	0.1	ND	0.14		ND	ND	ND		ND		ND	ND	ND		ND		ND	ND	ND	-	ND	ND	-	-	-	0.026	-	-	0.022	-	0	2.0	
Phenols			ND	ND	0.02	ND		ND	0.01	ND		ND		ND	ND	ND		ND		ND	ND	ND	-	ND	ND	-	-	-	0.0041	-	0.0056	-	0	0.001		
Sulfate			2.8	31	27.3	25.3		23.2	22.4	23.7		20.6		21	22.4	20.9		20.6	19.5	21		20.4	-	20.65	24.5	-	-	-	25.2	-	20.6	-	23.0	250		
Total Organic Carbon (TOC)			ND	1.2	1.3	28.4	ND		ND	ND	ND	ND		ND	1.5	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	ND	-	13.6	2.1	5			
Total Dissolved Solids (TDS)			358		377	332		359	394	435		363		365	354	331		351		420		738	-	359	381	-	-	-	349	-	381	-	293	500		
Total Hardness			361	336	395	454		325	315	288		342		360	330	340		363		350		301	-	321	342	-	-	-	310	-	330	347	331			
Total Kjeldahl Nitrogen (TKN)			1.7		2.1			ND				ND		ND				ND		ND		ND	-	-	0.28	-	-	-	0.35	-	ND	-	1			
Turbidity (NTU units)			750	920	2390	3460		272	95	202		16.9		16	30	5		-	-	18.02		19.6	-	17.8	24.2	18.8	17.4	-	11.7	-	15.8	365.6	473	5.0		
Cyanide			ND	ND	ND	ND		ND	ND	ND		ND		ND				ND				ND	-	-	-	-	-	-	ND	-	-	-	-	0	0.2	

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.  
\* = Applies to the sum of cis and trans-1,3-dichloropropene.  
\*\* = Guidance Value.  
ND values are included in calculation of Mean and are considered equal to zero.  
(Blank) or "-" = Not Analyzed.  
ND = Not Detected.  
<DL = Detected below method detection limit.

J = Estimated.  
B = Analyte was detected in method blank.





MW-7A  
 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD			
<b>PARAMETER VOLATILES (ug/L)</b>																																						
Acetone							ND	2.3	2.8	2.8		1.9	3.2	ND	ND	ND	ND	ND	ND	ND	ND	1.4	-	ND	ND	ND	ND	ND	-	ND	ND	1.7	ND	0.64	50.0			
Acrylonitrile							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	0.00	5.0		
Benzene	ND	1.0	1.3	0.7	0.84	ND	1.0	1.1	1.1	0.75		0.8	0.3	0.35	0.8	0.35	ND	0.83	ND	ND		0.74	-	ND	1.1	0.37	ND	ND	-	ND	ND	1.3	ND	1.30	1.0			
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	0.00	5.0		
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00	5.0		
Bromodichloromethane							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00	50.0		
Bromoform							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00	50.0		
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00	5.0		
2-Butanone							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00	50.0		
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-	0.00	5.0		
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-	0.00	5.0		
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-	0.01	5.0		
Carbon disulfide							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00	60.0		
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00	5.0		
Chlorobenzene	ND	ND	ND	ND	0.36	ND	ND	0.33	0.26		0.29	ND	ND	0.37	ND	ND	ND	ND	ND	ND	ND	0.31	-	ND	0.56	ND	ND	-	ND	ND	ND	ND	ND	0.08	5.0			
Chloroethane	ND	ND	ND	ND	0.38	ND	0.44	0.58	0.31		0.32	ND	ND	0.25	ND	ND	ND	ND	ND	ND	ND	0.26	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	0.27	5.0			
Chloroform							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.01	7.0		
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.28	5.0		
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-	0.00	5.0		
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-	0.00	5.0		
Dibromochloromethane							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00	50.0		
1,2-Dibromo-3-chloropropane							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00	0.04		
1,2-Dibromoethane							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00	5.0		
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00	5.0		
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00	3.0		
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-	0.00	3.0		
1,4-Dichlorobenzene	ND	ND	ND	ND	0.55	ND	ND	ND	0.34	0.38		0.4	0.28	0.34	0.57	0.24	ND	ND	ND	ND	ND	0.48	-	ND	0.71	0.44	ND	ND	-	ND	ND	ND	0.10	3.0				
trans-1,4-Dichloro-2-butene							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	0.00	5.0			
Dichlorodifluoromethane	ND	ND	ND	ND	0.38	ND	0.37	0.78	2.1	0.9		0.47	ND	ND	0.31	0.25	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	9.7	-	1.4	-	0.31	5.0		
1,1-Dichloroethane	0.82	2.1	2.3	1.5	1.4	0.52	1.8	2.1	1.8	1.4		1.4	0.8	0.65	1.3	0.75	ND	1.4	0.73	ND	0.96	-	ND	1.5	0.41	ND	ND	-	ND	ND	1.2	ND	1.84	5.0				
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.15	0.6			
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.07	5.0		
cis-1,2-Dichloroethene	ND	2	2.4	1.3	1.6	0.4	2.1	2.5	2.5	1.6		1.9	0.84	0.79	1.8	0.86	ND	1.9	ND	ND	1.8	-	ND	2.6	0.79	ND	ND	-	ND	ND	3	ND	1.11	5.0				
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	0.34	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.03	5.0			
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00	1.0			
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-	0.00	5.0			
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-	0.00	5.0			
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-	0.00	5.0			
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00	0.4			
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00	0.4			
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.06	5.0			
2-Hexanone							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00	50.0			
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-	0.00	0.5			
Iodomethane							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00	5.0			
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-	0.03	5.0			
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-	0.01	5.0			
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.12	5.0			
4-Methyl-2-pentanone							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.00				
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-	0.09	10.0			
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-	0.01	5.0			
Styrene	ND	ND																																				



MW-7A  
 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD	
<b>PARAMETER METALS (mg/L)</b>																																				
Aluminum			0.14		1.1		ND		ND		ND			0.251				ND				0.04	-	-	ND	ND	-	ND	-	0.03	0.853	-	0.104	4.62		
Calcium	48.6	43.7	34.8	34.8	26.3	45.3	52.4	55.9	36.3		46			33.5	44	32.5		53.5	94.2	60		40.8	-	-	54.6	53.4	25.3	70.9	42.3	-	58.2	30.7	57.8	48.2	43.84	
Iron	<b>27</b>	<b>16.4</b>	<b>16.6</b>	<b>17.2</b>	<b>6.8</b>	<b>1.1</b>	<b>20.8</b>	<b>25.7</b>	<b>21.8</b>		<b>3.8</b>			<b>10</b>	<b>16.8</b>	<b>8.98</b>		<b>7.8</b>	0.12	<b>28</b>		<b>8.15</b>	-	<b>10.1</b>	<b>20.2</b>	<b>11.8</b>	<b>4.68</b>	<b>18.4</b>	-	<b>11.9</b>	<b>2.31</b>	<b>32.8</b>	<b>25.2</b>	22.93	0.3	
Magnesium	10.2	8.23	6.52	6.8	5.1	9.1	10.5	11.3	7.5		9.4			6.67	8.78	6.5		10.9	15.3	12		8.8	-	11.7	11.1	5.2	12.6	7.48	-	11.7	6.07	11.6	9.51	9.74	35.0	
Manganese	<b>11.7</b>	<b>9.91</b>	<b>8.31</b>	<b>8.9</b>	<b>6</b>	<b>7.2</b>	<b>12.8</b>	<b>14.3</b>	<b>9.6</b>		<b>13.5</b>			<b>8.55</b>	<b>11.3</b>	<b>7.84</b>		<b>13.7</b>	<b>2</b>	<b>16</b>		<b>15.7</b>	-	<b>16.1</b>	<b>16.3</b>	<b>6.89</b>	<b>9.5</b>	<b>10.7</b>	-	<b>16.4</b>	<b>2.16</b>	<b>11.6</b>	<b>12.7</b>	10.89	0.3	
Potassium	18.3	20.3	15.7	21.8	14.1	23.9	19.7	23.8	18		20.6			19.1	22	15.7		18.4	1.8	18		19	-	19.8	16.6	11.6	13.3	17	-	21.6	21.6	18.1	17.9	19.16		
Sodium	6.68	8.28	5.35	5.9	3.6	6.5	5.3	5.9	3.9		5.1			4.4	4.6	3.8		5	6.4	5.3		4.3	-	4.7	4.8	2.6	5.9	ND	-	4.71	4.74	4.28	4.42	6.12	20.0	
<b>PARAMETER (mg/l) TOXIC METALS</b>																																				
Antimony			ND		ND		ND		ND		ND			ND				ND				0	-	-	ND	ND	-	ND	-	ND	ND	-	ND	0.00	0.003	
Arsenic			ND		<b>0.04</b>		ND		<b>0.043</b>		ND			0.016				ND				0.007	-	-	<b>0.026</b>	<b>0.026</b>	-	<b>0.026</b>	-	0.01	0.01	-	<b>0.0413</b>	0.02	0.025	
Barium			0.61		0.5		0.59		0.76		0.65			0.45				0.65				0.661	-	-	0.681	0.36	-	0.499	-	0.76	0.614	-	0.617	0.58	1.0	
Beryllium			ND		ND		ND		ND		ND			ND				ND				2E-04	-	-	ND	ND	-	ND	-	ND	ND	-	ND	0.00		
Cadmium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND		ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	8E-05	ND	ND	ND	0.00	0.005	
Chromium (Total)			ND		0.01		ND		ND		ND			ND	ND			ND				0.003	-	-	0.003	0.001	-	0.011	-	0.006	ND	-	ND	0.02	0.05	
Copper			ND		ND		ND		ND		ND			ND				ND				ND	-	-	ND	ND	-	ND	-	0.003	ND	-	ND	0.00	0.2	
Lead	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND		ND	ND	0.001		0.002	-	ND	0.002	ND	ND	0.003	-	0.003	0.003	0.0025	0.0021	0.01	0.025	
Mercury			ND		ND		ND		ND		ND			ND	ND			ND				ND	-	-	ND	ND	-	ND	-	ND	2E-04	-	0.0001	0.00	0.0007	
Nickel			ND		ND		ND		ND		ND			ND	ND			ND				0.012	-	-	0.011	0.005	-	ND	-	0.013	0.005	-	0.0048	0.02	0.1	
Selenium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND		ND	ND	ND		0.007	-	-	0.006	0.008	-	ND	-	ND	ND	-	ND	0.00	0.01	
Silver		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND		ND				ND	-	-	0.003	0.002	-	ND	-	ND	ND	-	ND	0.01	0.05	
Thallium			ND		ND		ND		ND		ND			ND	ND	ND		ND				ND	-	-	ND	ND	-	<b>0.014</b>	-	ND	ND	-	<b>0.0145</b>	0.01	0.0005	
Zinc			ND		ND		ND		0.039		0.02			0.032				0.038				0.063	-	-	0.036	0.015	-	ND	-	0.01	0.008	-	0.0078	0.03	2.0	
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																				
Alkalinity		238	225	180	144	101	203	218	263	96.7		121		145	188	128		252	328	240		209	-	250	265	120	160	193	-	287	243	206	249	204.8		
Biochemical Oxygen Demand		8		ND		ND		2.8				4.4		3.2				5.7		12		5	-	-	10.4	2.1	4.9	6	-	7.3	ND	8.5	8.3	5.7		
Boron			ND		0.07		0.08		0.073			0.05		0.057				0.057				0.08	-	-	0.06	0.07	-	ND	-	0.061	0.082	-	0.0865	0.0	1.0	
Chemical Oxygen Demand		18.1	13	13	26.2	ND	18.8	17.9	20.1	16.6		19.2		ND	19.9	13.9		ND	10.5	24		14.8	-	18.1	20.8	10.3	19.1	-	-	50.5	111	54.3	50.2	25.9		
Chromium (Hexavalent)			ND		ND		ND		ND		ND			ND	ND			ND				ND	-	-	ND	ND	-	-	ND	-	-	-	ND	0.6	0.05	
Chloride		4.17	4.6	3.7	2.7	1.4	5	3.5	3.8	3.3		2.7		2	2.39	1.83		4.3	9.1	4.26		2.9	-	3.1	3	ND	2.8	2.28	-	5	4.6	3.5	4.6	5.5	250.0	
Color (PCU units)		<b>20</b>		<b>50</b>		<b>100</b>		<b>250</b>			<b>25</b>			<b>60</b>				<b>200</b>				<b>130</b>	-	-	<b>280</b>	<b>120</b>	-	10	-	<b>15</b>	-	-	<b>75</b>	66.9	15.0	
Nitrate-Nitrite		ND	0.03	0.03	ND	0.47	ND	ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	0.044	0.58	0.073	0.07	0.2	10.0	
Nitrogen-Ammonia		<b>2.21</b>	<b>2.8</b>	<b>2.1</b>	1.1	0.91	1.7	1.2	1.3	1.6		1.5		1.54	1.72			1.3	ND	<b>2.38</b>		1.49	-	1.3	<b>2.11</b>	1.72	1.86	<b>2.22</b>	-	1.8	1.6	<b>2.1</b>	1.2	1.8	2.0	
Phenols		<b>0.0116</b>	<b>0.002</b>	ND	ND	ND	ND	ND	<b>0.007</b>	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	<b>0.005</b>	<b>0.011</b>	ND	ND	<b>0.006</b>	-	<b>0.007</b>	<b>0.014</b>	<b>0.0146</b>	<b>0.0095</b>	0.0	0.001	
Sulfate		8.71	12	11	12	12.8	11	8.8	6.2	10		8.5		12	9.37	11.5		8	6.8	ND		6.9	-	6.6	5.9	7.7	7.7	6.37	-	5.9	5.2	4.6	24.6	12.3	250	
Total Organic Carbon (TOC)	3.6	4.2	6.1	4	7.1	1.5	4.6	5	5.4	5.5		4.4	11.9	3.7	4.2	1.7		4.8	ND	7		5.4	-	6.3	7.2	4.6	5.4	4.8	-	7	5.5	18.9	5.7	7.5		
Total Dissolved Solids (TDS)		283	255	208	213	107	248	336	231	351		244		184	221	178		265	309	350		242	-	291	293	141	259	207	-	272	448	296	246	246.6	500	
Total Hardness		163	143	114	115	86.7	150	174	186	122		154		110	150	110		179	298	200		138	-	185	179	84.6	235	140	-	220	96	200	187	156.7		
Total Kjeldahl Nitrogen (TKN)			3.6		2.9		2		1.8		1.7			1.76				2.2		2.23		2.1	-	-	2.51	1.81	-	2.27	-	2.4	6	2.7	0.43	2.9		
Turbidity (NTU units)		<b>84</b>	<b>64</b>	<b>81</b>	<b>63.4</b>	<b>118</b>	<b>44.6</b>	<b>40.3</b>	<b>87</b>	<b>33.2</b>		<b>5.9</b>		<b>23</b>	<b>4</b>	<b>0</b>	<b>308</b>	<b>3</b>	<b>6.9</b>	<b>11</b>		<b>9.6</b>	-	<b>12.5</b>	<b>13.8</b>	<b>15.2</b>	<b>21.2</b>	<b>15.4</b>	-	<b>3</b>	<b>41</b>	<b>3.5</b>	<b>10.5</b>	137.3	5.0	
Cyanide			ND		ND		ND		ND		ND			ND	ND	ND		ND				ND	-	-	ND	ND	-	-	-	ND	-	-	ND	0.0	0.2	
(Shade) – Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards. * = Applies to the sum of cis and trans-1,3-dichloropropene. ** = Guidance Value. ND values are included in calculation of Mean and are considered equal to zero. (Blank) or "-" = Not Analyzed. ND = Not Detected. <DL = Detected below method detection limit. J = Estimated. B = Analyte was detected in method blank.																																				

MW-7C  
 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 CLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02	
<b>PARAMETER VOLATILES (ug/L)</b>																																				
Acetone																																				
Acrylonitrile																																				
Benzene	ND			ND	ND																															
Bromobenzene	ND			ND	ND																															
Bromochloromethane	ND			ND	ND																															
Bromodichloromethane	0.40			ND	ND																															
Bromoform	ND			ND	ND																															
Bromomethane	ND			ND	ND																															
2-Butanone																																				
n-Butylbenzene	ND			ND	ND																															
sec-Butylbenzene	ND			ND	ND																															
tert-Butylbenzene	ND			ND	ND																															
Carbon disulfide																																				
Carbon tetrachloride	ND			ND	ND																															
Chlorobenzene	ND			ND	ND																															
Chloroethane	ND			ND	ND																															
Chloroform	0.91			ND	ND																															
Chloromethane	ND			ND	ND																															
2-Chlorotoluene	ND			ND	ND																															
4-Chlorotoluene	ND			ND	ND																															
Dibromochloromethane	ND			ND	ND																															
1,2-Dibromo-3-chloropropane	ND			ND	ND																															
1,2-Dibromomethane	ND			ND	ND																															
Dibromomethane	ND			ND	ND																															
1,2-Dichlorobenzene	ND			ND	ND																															
1,3-Dichlorobenzene	ND			ND	ND																															
1,4-Dichlorobenzene	ND			ND	ND																															
trans-1,4-Dichloro-2-butene																																				
Dichlorodifluoromethane	ND			ND	ND																															
1,1-Dichloroethane	1.11			2.0	1.0																															
1,2-Dichloroethane	ND			ND	ND																															
1,1-Dichloroethene	ND			ND	ND																															
cis-1,2-Dichloroethene	ND			ND	ND																															
trans-1,2-Dichloroethene	ND			ND	ND																															
1,2-Dichloropropane	ND			ND	ND																															
1,3-Dichloropropane	ND			ND	ND																															
2,2-Dichloropropane	ND			ND	ND																															
1,1-Dichloropropene	ND			ND	ND																															
cis-1,3-Dichloropropene	ND			ND	ND																															
trans-1,3-Dichloropropene	ND			ND	ND																															
Ethylbenzene	ND			ND	ND																															
2-Hexanone																																				
Hexachlorobutadiene	ND			ND	ND																															
Iodomethane																																				
Isopropylbenzene	ND			ND	ND																															
p-Isopropyltoluene	ND			ND	ND																															
Methylene chloride	0.75			2.0	ND																															
4-Methyl-2-pentanone																																				
Naphthalene	ND			ND	ND																															
n-Propylbenzene	ND			ND	ND																															
Styrene	ND			ND	ND																															
1,1,1,2-Tetrachloroethane	ND			ND	ND																															
1,1,2,2-Tetrachloroethane	ND			ND	ND																															
Tetrachloroethene	ND			ND	ND																															
Toluene	ND			ND	ND																															
1,2,3-Trichlorobenzene	ND			ND	ND																															
1,2,4-Trichlorobenzene	ND			ND	ND																															
1,1,1-Trichloroethane	ND			ND	ND																															
1,1,2-Trichloroethane	ND			ND	ND																															
Trichloroethene	ND			ND	ND																															
Trichlorofluoromethane	ND			ND	ND																															
1,2,3-Trichloropropane	ND			ND	ND																															
1,2,4-Trimethylbenzene	ND			ND	ND																															
1,3,5-Trimethylbenzene				ND	ND																															
Vinyl acetate																																				
Vinyl chloride	ND			ND	ND																															
o-Xylene	ND			ND	ND																															
p-Xylene & m-Xylene				ND	ND																															

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	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02	
<b>PARAMETER METALS (mg/L)</b>																																				
Aluminum	16.8				1.9																															
Calcium	139	117	102	109	93.8	88.2																														
Iron	34.6	0.66	0.32	0.47	2.8	0.68																														
Magnesium	23.7	16.4	17.4	17	15.6	14.2																														
Manganese	0.47	0.18	0.35	0.37	0.27	0.29																														
Potassium	5.3	1.7	3.4	1.5	2.2	1.6																														
Sodium	14.8	4	4.8	5.2	4.7	4.5																														
<b>PARAMETER (mg/l) TOXIC METALS</b>																																				
Antimony	ND				ND																															
Arsenic	ND				ND																															
Barium	0.21				0.1																															
Beryllium					ND																															
Cadmium		ND	<DL	ND	ND	ND																														
Chromium (Total)	<DL				ND																															
Copper	0.03				ND																															
Lead	0.06	ND	0.01	ND	ND	0.01																														
Mercury	0.01	<DL	ND	ND	ND																															
Nickel	0.39				ND																															
Selenium	0.05	ND	0.01	ND	ND	ND																														
Silver	ND				ND																															
Thallium	ND				ND																															
Zinc	0.08				0.1																															
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																				
Alkalinity	299	300	284	295	315	356																														
Biochemical Oxygen Demand	<DL				2.0																															
Boron	ND				ND																															
Chemical Oxygen Demand	15	20	<DL	ND	ND	ND																														
Chromium (Hexavalent)	<DL				ND																															
Chloride	42.3	40	39.1	30	21.0	30																														
Color (PCU units)	5				ND																															
Nitrate-Nitrite	<DL	<DL	<DL	ND	ND	ND																														
Nitrogen-Ammonia	<DL	<DL	<DL	0.2	0.2	0.1																														
Phenols	0.002	ND	ND	ND	0.01	ND																														
Sulfate	14	22	15.4	7	ND	21																														
Total Organic Carbon (TOC)	4.1	11	4	1	2.0	2																														
Total Dissolved Solids (TDS)	456	418	394	388	413	381																														
Total Hardness	444	357	326	342	298	279																														
Total Kjeldahl Nitrogen (TKN)	34				0.9																															
Turbidity (NTU units)	65	126	83	200	111	33																														
Cyanide	<DL				ND																															

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 OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD				
PARAMETER VOLATILES (ug/L)																																							
Acetone							ND	ND	5.3	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	0.43	50.0			
Acrylonitrile							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0		
Benzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	1.0		
Bromobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0		
Bromochloromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Bromodichloromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	50.0		
Bromoform							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Butanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
n-Butylbenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
sec-Butylbenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
tert-Butylbenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Carbon disulfide							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	60.0	
Carbon tetrachloride							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chlorobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chloroethane							ND	0.27	ND	0.36	ND	0.41	ND	ND	ND	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	5.0		
Chloroform							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	7.0	
Chloromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Chlorotoluene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
4-Chlorotoluene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dibromochloromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
1,2-Dibromo-3-chloropropane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2-Dibromoethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dibromomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2-Dichlorobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	3.0	
1,3-Dichlorobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	3.0	
1,4-Dichlorobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	3.0	
trans-1,4-Dichloro-2-butene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dichlorodifluoromethane							ND	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	5.0	
1,1-Dichloroethane							1.5	1.4	1.4	1.5	1.2	1.2	1.1	1.1	1.1	1.1	0.72	1.5	ND	ND	0.66	ND	ND	0.79	0.89	ND	ND	ND	ND	ND	1.1	ND	0.79	5.0	0.6	5.0			
1,2-Dichloroethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.6	
1,1-Dichloroethene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
cis-1,2-Dichloroethene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.08	5.0		
trans-1,2-Dichloroethene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0		
1,2-Dichloropropane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
1,3-Dichloropropane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2,2-Dichloropropane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1-Dichloropropene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
cis-1,3-Dichloropropene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	
trans-1,3-Dichloropropene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	
Ethylbenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Hexanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Hexachlorobutadiene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.5	
Iodomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Isopropylbenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0
p-Isopropyltoluene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Methylene chloride							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.09	5.0	
4-Methyl-2-pentanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0
Naphthalene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	10.0	
n-Propylbenzene							ND	ND	ND	ND	ND																												

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PARAMETER METALS (mg/L)	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD		
Aluminum							ND		ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0	-	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	0.85		
Calcium							103.0	91.0	97.3	96.5	98.2	94.7	97.9	97.3	96.3	97	100	90.9	52.3	98	96	84.2	94.6	91.6	92.4	102	95.8	102	105	96.6	96.6	105	97.8	97.55			
Iron							ND	0.063	ND	ND	0.092	ND	0.081	0.177	ND	ND	0.184	ND	2.3	ND	ND	0.03	ND	0.17	0.08	ND	ND	ND	0.0147	0.07	0.0643	0.147	1.30	0.3			
Magnesium							16.4	14.9	15.7	15.5	15.4	14.9	15.3	15.5	15.3	15.3	15.4	14.8	10.9	16	16	14	15.9	15.5	16.4	16.7	15.8	15	16.9	15.4	15.3	16.7	15.7	15.78	35.0		
Manganese							0.2	1.5	1.6	1.5	2.2	1.7	0.9	2.65	1.01	1.21	0.633	1.2	9.3	0.89	0.44	1.1	2.04	2.83	1.35	0.945	0.571	0.928	0.464	0.32	6.75	1.20	2.95	1.52	0.3		
Potassium							1.6	1.5	1.5	1.6	1.6	1.4	1.5	1.57	1.39	1.48	1.83	1.5	24.3	1.5	1.5	1.4	ND	ND	1.4	1.6	ND	ND	ND	2.04	2.57	1.73	1.79	2.24			
Sodium							6.7	6.3	6.9	7.7	6.4	6.1	6.3	6.5	6.1	6	6.8	6	5.9	6.6	ND	5.8	6.4	6.5	6.3	6.4	6.9	6.62	7.44	8.48	6.53	6.74	6.24	6.32	20.0		
<b>PARAMETER (mg/l) TOXIC METALS</b>																																					
Antimony							ND		ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	0.00	0.003		
Arsenic							ND		ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	0.00	0.025		
Barium							0.12		0.1		0.16	0.14		0.186		0.101	0.11		ND	0.104	-	-	0.132	0.128	-	ND	ND	0.0904	0.239	-	0.14	0.10	1.0				
Beryllium							ND		ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	0.0002	-	-	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	0.00			
Cadmium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.005		
Chromium (Total)							ND		ND	ND	ND	ND	0.006		0.005	ND			ND	0.0001	-	-	0.001	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.05		
Copper							ND		ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	0.003	-	-	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	0.00	0.2		
Lead							ND	ND	ND	ND	ND	ND	ND	ND	ND	0.009	ND	ND	0.002	ND	ND	ND	ND	0.005	0.003	ND	0.0039	ND	0.0021	0.0036	0.0025	ND	0.00	0.025			
Mercury							ND		ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	ND	0.0001	0.00	0.0007			
Nickel							ND		ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	0.0016	0.0015	-	0.0011	0.02	0.1			
Selenium							ND		ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	-	-	0.003	0.003	-	ND	ND	ND	ND	ND	ND	0.00	0.0			
Silver							ND		ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	0.00	0.05		
Thallium							ND		ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	0	-	ND	ND	-	ND	ND	ND	ND	ND	0.0052	-	ND	0.00	0.0005	
Zinc							ND		0.015		0.028	0.011	0.012		0.034	ND					0.012	0.011	-	-	0.011	ND	-	0.0276	ND	0.0237	0.0495	-	0.0292	0.02	2.0		
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																					
Alkalinity							282.0	484	264	311	401	279	246	294	293	350	307	323	252	270	300	299	320	302	320	321	320	307	310	314	292	286	314	309.4			
Biochemical Oxygen Demand							ND		ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	1	1	ND	ND	ND	0.2			
Boron							ND		ND	ND	ND	ND	ND	ND		0.02	0.021			ND	ND	-	-	0.03	0.05	-	ND	ND	0.0166	0.0187	-	0.0136	0.0	1.0			
Chemical Oxygen Demand							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.7	ND	ND	11.4	6.3	ND	11.1	12.8	9.1	-	ND	15.1	18.2	25.7	15.5	5.4			
Chromium (Hexavalent)							ND		ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	0.0033	-	-	ND	0.0	0.05				
Chloride							14.7	14.3	13.2	12.2	12.3	10.5	11.9	12	12	10.2	9.72	10.3	4	9.18	7.69	7.9	7.6	6.8	6.3	7.7	6.1	5.82	7.1	7.5	5.7	5.4	6.3	13.5	250		
Color (PCU units)							13.0		15.0		50	5		ND		0	17.5			ND	8	-	-	12	8	-	5	5	5	-	-	15	7.4	15.0			
Nitrate-Nitrite							ND	ND	ND	0.092	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.023	0.044	ND	ND	ND	0.0	10.0		
Nitrogen-Ammonia							ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.028	0.038	0.03	0.089	0.1	2.0				
Phenols							ND	ND	ND	0.01	ND	0.0098	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.252	ND	ND	0.0031	0.0034	ND	0.0087	0.001			
Sulfate							8.0	7.3	6	8	8.2	5.5	6.7	6.8	6.82	7.41	6.1	7.9	7.9	6.2	ND	6.6	6.4	7.2	6.3	7.8	7.4	6.86	8.3	8.7	6.5	6.8	9.3	8.1	250		
Total Organic Carbon (TOC)							1.1	ND	ND	2	1.1	1.3	1.6	ND	2.3	ND	1.4	1.3	1.8	ND	ND	1.4	1.5	1.3	1.4	1.4	577	1.35	2.7	ND	1.6	13.5	1.7	19.5			
Total Dissolved Solids (TDS)							341.0	344	325	326	299	327	326	319	321	319	259	287	254	340	370	340	329	290	330	308	325	334	338	349	342	354	323	338.5	500		
Total Hardness							ND	288	308	305	308	298	307	310	300	310	310	288	176	310	300	268	302	293	298	324	318	340	310	280	310	340	273	297.6			
Total Kjeldahl Nitrogen (TKN)							ND		ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	-	-	0.24	0.28	-	0.13	ND	0.21	0.15	ND	2.8	1.7				
Turbidity (NTU units)							62.2	4.2	5	11.3	15.5	2.4	4.9	1	0	1	12	1	8.2	3.4	15.3	2.2	1.8	10	3.9	17.2	8.1	3.8	5.8	24.7	5.86	16.7	25.1	27.0	5.0		
Cyanide							ND		ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	-	-	ND	ND	0.0	0.2			

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.  
\* = Applies to the sum of cis and trans-1,3-dichloropropene.  
\*\* = Guidance Value.  
ND values are included in calculation of Mean and are considered equal to zero.  
(Blank) or "-" = Not Analyzed.  
ND = Not Detected. J = Estimated.  
<DL = Detected below method detection limit. B = Analyte was detected in method blank.

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ISCHUA LANDFILL  
CLEAN, NEW YORK

PARAMETER VOLATILES (ug/L)	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02			
Acetone																																						
Acrylonitrile																																						
Benzene	0.08			3.0	2.0				3.0		3.0		4		4		3				4		4	3	3	3	4	1	3	5	4	3	3	1.2	3.1			
Bromobenzene	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromochloromethane	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromodichloromethane	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND			ND	ND				ND		ND		ND		ND		5				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND			ND	ND				ND		ND		ND		ND		5				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.21
tert-Butylbenzene	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide																																						
Carbon tetrachloride	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	<DL			ND	ND				1.0		1.0		1		2		1				ND		2	1	1	1	1	0.6	1	3	2	1	2	0.6	2.3			
Chloroethane	ND			ND	ND				ND		ND		1		1		0.6				ND		2	1	1	1	1	0.6	ND	2	2	ND	ND	ND	ND	ND	ND	
Chloroform	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.12			ND	ND				2.0		1.0		1		2		1				ND		2	1	2	2	1	0.6	1	2	2	1	2	ND	1.92			
trans-1,4-Dichloro-2-butene	ND			3.0	3.0				1.0		0.6		ND		ND		0.8				ND		0.7	ND	0.5	ND	ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND	ND	
Dichlorodifluoromethane	ND			3.0	3.0				1.0		0.6		ND		ND		0.8				ND		0.7	ND	0.5	ND	ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND	ND	
1,1-Dichloroethane	2.12			8.0	7.0				3.0		0.6		4		3		3				ND		2	4	2	3	3	4	3	3	2	3	2	3.72	2.18			
1,2-Dichloroethane	<DL			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND			ND	ND				ND		3.0		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND			8.0	6.0				4.0		25.0		9		4		5				ND		4	7	4	8	7	9	6	8	5	5	5	4.16	3.52			
trans-1,2-Dichloroethene	1.68			ND	ND				0.6		0.7		0.8		0.9		0.5				ND		0.6	0.6	0.6	0.8	0.8	0.6	0.7	2	1	0.7	0.9	0.84	ND	ND		
1,2-Dichloropropane	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND			4.0	2.0				8.0		2.0		6		11		6				ND		10	2	4	1	ND	ND	ND	3	5	0.6	0.8	ND	1.35			
2-Hexanone																																						
Hexachlorobutadiene	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iodomethane																																						
Isopropylbenzene	ND			ND	ND				0.9		ND		1		1		0.9				ND		1	0.5	0.8	0.8	0.7	ND	ND	1	0.9	ND	0.7	ND	1.16			
p-Isopropyltoluene	ND			ND	ND				ND		ND		ND		0.6		ND				ND		0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND			4.0	ND				ND		ND		0.5*		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone																																						
Naphthalene	ND			ND	ND				2.0		1.0		ND		1		ND				ND		0.9 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ND			ND	ND				1.0		ND		1		1		0.8				ND		1	ND	0.8	ND	0.7	ND	ND	0.8	0.9	ND	ND	ND	ND	ND	ND	1.13
Styrene	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND			ND	ND				ND		ND		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND			ND	ND				ND		3.0		ND		ND		ND				ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND			ND	ND				0.6		0.8		ND		0.6		ND				ND		5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND			ND	ND																																	

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 ISCHUA LANDFILL  
 CLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02			
<b>PARAMETER METALS (mg/L)</b>																																						
Aluminum	1.5				0.5				1.03				1.59				0.47				3.7			0.095		4.4	0.18		0.09	0.23		0.39						
Calcium	75.4	81.2	67.7	86.8	65.7	55.7	69.6	67.0	70.8	77	74.8	69.9	69.4	73.2	75.5	74.8	69.5	67.2	64.9	64.2	80.3	76.4	88.5	66.8	69.9	64.6	72.4	86.8	67.2	70.4	77.8	71.5	71.3	78.8	72.1			
Iron	16.1	14.1	8.8	7.3	10.0	7.56	14.6	7.9	16	20.5	17.9	13.1	23.3	13.4	18.9	18.8	13.8	11.4	10.0	9.99	64.9	15.1	20.3	8.11	11.1	14.4	11.9	57.2	5.96	31.2	15.8	11.7	10.2	46.4	9.15			
Magnesium	5.8	11.4	12.2	13.2	9.9	8.5	10.8	11.0	11.5	13.3	11.9	11.1	11.1	11.4	12.9	12.2	10.6	10.3	9.8	10.2	12.5	11.9	14.0	10.3	11.2	10.8	11.1	11.6	10.4	10.9	12.3	11.2	11	11.5	11.2			
Manganese	10.9	10.8	8.39	9.17	6.13	7.97	10	9.6	10.6	10.5	10.7	9.94	10.3	9.8	11.1	11.1	9.85	8.94	8.1	8.53	8.53	11	12.3	7.95	9.37	9	9.67	8.06	7.75	10.6	10.9	9.51	9.66	7.24	9.8			
Potassium	3.4	2.4	3.3	2.8	2.0	2.5	3.7	3.1	4.9	4.5	3.3	2.56	3.62	3.64	4.1	3.76	3.31	3.56	2.7	2.91	2.85	4.18	3.77	2.88	3.39	4.68	3.07	2.7	2.81	4.33	3.87	4.35	3.11	2.28	2.86			
Sodium	8.2	6.8	6.6	13.5	8.8	8.3	9.2	10.5	11.1	10.2	7.4	7.79	9.72	9.09	8.86	9.06	8.14	8.18	6.3	9.23	9.23	8.28	7.85	9.69	7.27	9.5	6.86	10.5	7.08	7.88	7.38	8.79	6.58	8.99	6.83			
<b>PARAMETER (mg/l) TOXIC METALS</b>																																						
Antimony	0.01				ND				0.04				ND				ND				ND			ND		ND		ND		ND		ND		ND		ND		
Arsenic	0.020				0.024				0.028				0.046					0.023						0.018		0.02		0.04		0.07		0.03		0.16				
Barium	0.04				0.35				0.23				0.27					0.21				0.712		0.211		0.22		0.77		0.25		0.2		0.47				
Beryllium					ND				ND				ND					ND				ND		ND		ND		ND		ND		ND		ND		ND		
Cadmium		ND	<DL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.004	0.01	ND	ND	ND	0.005	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	
Chromium (Total)	<DL				ND				0				0.01				ND	ND	ND	ND	0.046	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Copper	<DL				ND				ND				0.01				0.01				0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Lead	0.583	ND	0.009	ND	ND	ND	0.060	ND	0.005	0.026	0.008	0.004	0.031	0.005	0.013	0.004	0.004	ND	ND	ND	0.036	ND	0.012	0.010	0.004	0.02	0.01	0.03	0.003	0.01	0.01	0.01	0.002	0.02	0.002			
Mercury	ND				ND				ND				ND				ND				0.0003			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Nickel	ND				ND				0.02				0.05				0.06				0.066		0.033		0.05	0.03		0.05		0.04		0.04						
Selenium	0.03	<DL	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Silver	0.03				ND				ND				ND				ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	0.01				ND				ND				ND				ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	0.03				0.01				0.02				0.07				0.03				0.129			ND	0.06		0.06		0.03	0.03	ND	ND	ND	0.03				
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																						
Alkalinity	275	281	258	228	244	251	296	226.0	243	262	256	264	246	261	294	271	267	275	258	258	260	258	282	271	278	244	293	261	281	287	283	261	276	350	250			
Biochemical Oxygen Demand	28				ND				13				3				ND				17			4		ND		16		ND		5		18				
Boron	<DL				0.04				ND				ND				ND				ND			0.072		0.07		0.08		0.11		0.08		ND				
Chemical Oxygen Demand	30	33	20	ND	11.0	28.0	66.0	ND	51.9	51.3	79.6	37.1	28.5	28.1	26.4	61	27	13.1	16.5	69.4	57.3	37.6	36.3	16.0	18.2	16.2	28.9	205	23.1	31.1	37.3	19.2	24.4	33.3				
Chromium (Hexavalent)	ND				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND		ND		
Chloride	18.5	18	17.6	29	22.0	15.0	22.0	80.0	18.2	17.7	14.5	18	19	15.7	15.8	15.2	17.1	12	11.4	18.3	20.7	13.6	12.5	17.8	9.18	13.8	8.56	20	12	12.9	9.57	14.2	9.45					
Color (PCU units)	45				ND				60.0				30				35				25			200		30		500		250		45			750			
Nitrate-Nitrite	2.1	<DL	<DL	ND	0.04	ND	ND	ND	1.97	1.08	ND	ND	0.4	0.37	ND	ND	ND	ND	ND	ND	ND	ND	0.107	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	ND	ND	ND	ND	
Nitrogen-Ammonia	2.2	<DL	0.7	ND	1.3	0.6	2.3	2.7	2.58	2.3	2.64	2.31	2.17	1.8	3.13	3.31	2.91	1.52	2.04	1.75	1.5	2.74	3.26	1.42	2.49	2.19	2.72	0.9	1.46	3.08	2.77	1.85	2.09	1.05	1.61			
Phenols	<DL	ND	<DL	ND	0.020	ND	ND	ND	0.035	0.029	0.046	0.042	0.038	ND	0.050	0.037	0.043	0.025	0.019	0.071	0.067	0.031	0.046	0.023	0.030	0.02	0.02	0.01	0.03	0.04	0.03	0.02	0.03	0.01	0.02			
Sulfate	16	4.9	9	16	9.0	17.0	6.0	ND	30.0	21.0	7.8	ND	13	18	6.6	6.6	5	9.1	9.1	9.3	12	9.4	15	8.2	7.2	7.4	8.1	14	13	7.8	9.2	8.2	13			9.84		
Total Organic Carbon (TOC)	13	14	9.3	6	4.0	8.0	9.0	5.6	17.6	13.9	6.2	8	12	8	8.7	7.8	7	7.3	10.9	5.1	5.9	10.3	9.8	6.2	9.5	1.7	6.9	21	5.7	9.4	8.7	8.2	5.5	2.9	5.8			
Total Dissolved Solids (TDS)	330	330	303	329	329	269	323	283	282	335	316	359	120	311	334	311	320	307	278	312	301	290	325	287	288	276	277	316	300	289	317	278	306	304	294			
Total Hardness	212	249	219	271	205	174	219	213	262	270	266	243	267	301	356	271	327	210	202	202	242	252	240	279	209	221	206	226	265	211	187	245	225	223	244	226		
Total Kjeldahl Nitrogen (TKN)	2.8				1.6				1.91				3.56				5.88				3.7			3.55		2.48		10.5		9.47		2.36						
Turbidity (NTU units)	46	207	80	12	147	24	30.0	8.3	38.0	46.0	26	20	24	40	19	26	28	20	22	14	130	26	27	39	19	12	29	16	7.5	210	15	27	11	63	4.7			
Cyanide	ND				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND		ND		





MW-8B  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
CLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD			
<b>PARAMETER METALS (mg/L)</b>																																						
Aluminum	ND		0.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0473	-	0.0416	0.41		
Calcium	65.5	65.4	65.3	62.5	69.7	80.1	77.2	73.4	74.6	75.5	73.8	81.5	79.6	78.4	72.5	76.5	86.9	80	74.1	76	87	69.5	78.1	72.3	69	72.5	81.2	78.7	95.8	76.8	66.6	75.7	74.4	73.84				
Iron	7.05	6.61	8.1	8.49	6.9	6.2	21	9.5	7.9	7.7	0.86	6.4	12.4	9.23	9.06	5.09	5.5	4.8	11.4	4.4	6.3	3.49	7.45	3.44	11.5	3.39	4.52	4.19	3	4.17	11	3.5	7.15	12.33	0.3			
Magnesium	9.83	10.3	9.54	9.24	10.4	11.6	12.5	11.6	11.5	11.4	10.4	12.2	12.2	11.2	11.6	13	11.9	11.8	12	14	11.1	12.6	11.4	10.8	11.6	12.1	11.5	14	11.2	9.89	11	10.7	11.31	35.0				
Manganese	7.43	7.62	8.05	9.91	7.9	7.9	12	9.1	9	8.7	6.8	7.7	9.8	8.51	9.39	7.71	7.98	7	10.8	6.9	9.5	5.73	8.77	6.28	11.7	5.9	7.74	7.05	7.26	7.02	9.06	5.32	8.25	8.88	0.3			
Potassium	3.01	2.7	3.16	3.36	3.1	2.5	5.8	3.1	3.2	2.6	2.7	2.3	3.7	2.89	3.2	2.24	2.8	2.2	4.3	1.9	1.7	3.1	ND	3.5	1.9	2.7	ND	ND	3.51	5.7	2.13	3.05	3.06					
Sodium	7.18	6.69	5.48	5.67	6.5	6.4	6.8	6.6	7.1	5.9	9.5	7.1	7.8	7.1	6.3	6.2	11	6.6	6.2	6.7	ND	6.4	7	5.8	4.7	6.5	7.5	6.68	10.7	7.13	4.71	6	5.1	7.60	20.0			
<b>PARAMETER (mg/l) TOXIC METALS</b>																																						
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.003		
Arsenic	0.02	ND	ND	0.01		0.03		0.02	ND	0.02	ND	0.02		0.021		0.02	0.017		ND	0.012	-	-	0.025	0.014	-	0.0174	0.0114	0.0144	0.0283	-	0.0228	0.03	0.025					
Barium	0.19	0.17	0.17	0.17	0.14	0.14	0.14	0.23	0.16	0.161				0.184	0.14				ND	0.137	-	-	0.116	0.137	-	ND	ND	0.124	0.111	-	0.126	0.18	1.0					
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0002	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00			
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.005		
Chromium (Total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.05		
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.2		
Lead	0.004	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	0.0008	ND	ND	0.002	ND	0.0064	ND	0.0017	0.0033	0.0041	0.0013	0.01	0.025				
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7E-05	-	0.0001	0.00	0.0007				
Nickel	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0006	-	-	0.007	0.005	-	ND	ND	0.0052	0.0057	-	0.0048	0.01	0.1				
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	0.004	0.005	-	ND	ND	ND	ND	ND	ND	ND	0.00	0.0		
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	0.002	0.002	-	ND	ND	ND	ND	ND	ND	ND	0.00	0.05		
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	0.0128	ND	ND	ND	ND	ND	ND	0.0103	0.00	0.0005	
Zinc	ND	ND	ND	ND	ND	ND	ND	0.01	ND	0.02	ND	0.013				0.01	0.015				0.023	0.11	-	-	0.002	0.009	-	ND	0.0209	ND	0.021	-	0.0099	0.02	2.0			
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																						
Alkalinity	219	270	250	210	205	225	254	248	269	249	274	178	256	281	247	292	272	296	268	250	280	270	310	270	272	255	270	248	287	266	241	207	278	262.00				
Biochemical Oxygen Demand	ND		4		15.6		ND		ND		2.9	2.8		3.9				ND	ND		ND	3.6	-	-	7	3.2	2.7	ND	ND	1.2	3.5	ND	ND	4.29				
Boron	0.08		0.05		0.06		0.1		0.07		0.054	0.047		0.059				0.052	0.052		ND	0.05	-	-	0.06	0.05	-	ND	ND	0.0428	0.0676	-	0.0565	0.04	1.0			
Chemical Oxygen Demand	33.6	32.1	42	ND	50.2	10.1	21.6	23.3	16.8	18.2	26.3	13.8	18.4	ND	20.3	18.2	11.2	ND	20.3	ND	89	ND	16.9	7.3	9	ND	12.8	-	19.2	23.4	39.4	27.7	46.1	28.37				
Chromium (Hexavalent)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.05		
Chloride	12.8	7.79	6.7	5.2	6	5.4	9.6	5.5	5.3	19.6	6.4	7.6	7.5	4.71	4.17	23.5	4	4.4	3.34	9.9	3.3	6.4	3.1	2.8	3.2	4.3	2.71	4.1	4.7	3.6	2.8	4.9	12.08	250.0				
Color (PCU units)			10		18		70		30	20		7.5		0	7.5				ND	170	-	-	27	38	-	5	20	10	-	-	15	69.43	15.0					
Nitrate-Nitrite	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24	ND	0.077	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.68	0.032	0.062	ND	ND	0.11	10.0			
Nitrogen-Ammonia	1.87	1.45	2.4	2.7	0.81	0.83	2.6	1.1	1.1	0.96	0.87	0.99	1.9	1.9	1.54	0.797	0.812	0.73	2.8	1.08	ND	0.804	1.3	0.595	2.46	1.03	1.23	1.22	1.1	0.86	2.4	0.62	0.99	1.67	2.0			
Phenols	0.01	0.01	ND	ND	0.01	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014	ND	ND	ND	0.0163	ND	0.0272	ND	ND	0.0148	0.0078	0.0021	0.0325	0.0096	0.0274	0.02	0.001			
Sulfate	8.76	8.22	8.2	7.6	8.8	8.4	7.7	7.3	6.9	8.8	10.6	6.2	5.1	6.9	6.24	7.91	7.69	8.8	5.6	ND	ND	6.9	6.8	6.7	4.8	6.1	6.9	6.36	8.5	7.9	4.2	6.6	5.7	8.64	250.0			
Total Organic Carbon (TOC)	2.9	2.5	10	4.4	20.8	3.6	8.2	3.5	5.6	3.5	3.8	4.0	7.4	5.4	4.4	2.2	5.3	2.8	2.6	ND	ND	3.2	4.0	2.9	6.2	3.8	3.5	2.59	4.6	4.8	5.2	1.5	6.2	6.83				
Total Dissolved Solids (TDS)		311	285	268	297	276	311	294	280	271	272	304	330	319	297	314	319	283	299	260	250	292	320	283	274	276	291	269	329	290	248	279	279	295.51	500.0			
Total Hardness	204	206	202	194	217	248	244	231	234	235	227	254	249	250	230	240	270	240	249	234	240	270	219	247	228	217	229	261	212	240	0.88	228	250	220	173	238.38		
Total Kjeldahl Nitrogen (TKN)	1.81		4.5		2.7		3.2		1.5		1.7	1.1		2.31		1.47	1.2		0.508	1.3	0.98	-	-	ND	1.14	-	1.23	0.88	1.6	3.4	0.79	2.4	2.39					
Turbidity (NTU units)		8	19	9	41.2	24.4	10.7	3.6	14	27.2	15.1	3.3	4.2	20	16	0	3	6	7	3.9	2.2	18.1	1.6	0	7.3	18.5	9.9	2	3.6	0.3	3.5	9.8	20.1	28.02	5.0			
Cyanide	ND		ND		ND		ND		ND		ND	ND		ND		ND	ND		ND	ND		-	-	ND	ND	-	-	ND	ND	-	-	ND	ND	-	-	ND	0.00	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards

were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.

\* = Applies to the sum of cis and trans-1,3-dichloropropene.

\*\* = Guidance Value.

ND values are included in calculation of Mean and are considered equal to zero.

(Blank) or "-" = Not Analyzed.

ND = Not Detected.

J = Estimated.

<DL = Detected below method detection limit. B = Analyte was detected in method blank.



MW-9B  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02			
<b>PARAMETER METALS (mg/L)</b>																																						
Aluminum	61.8				21.6												35.0																					
Calcium	82.6	103	47	49.1	51.9	41.9	37.6	79.3						44.7		48.2	55.6																					
Iron	110	90.3	0.6	72.3	40.6	25.6	37.5	36.2						73.1		68.1	77.2																					
Magnesium	14.4	19.5	13.3	16.3	11.9	8.6	10.2	15.3						16.4		16.2	16.9																					
Manganese	1.24	1.48	0.66	0.95	0.7	0.33	1.07	0.48						0.84		1.03	1.6																					
Potassium	10.5	8.7	5.8	12.8	6.9	5.7	6.1	8.1						11.9		10.5	8.9																					
Sodium	3.4	2.2	3	4.5	4.1	3.3	3.7	6.3						3.7		3.24	4.0																					
<b>PARAMETER (mg/l) TOXIC METALS</b>																																						
Antimony	<DL				ND												ND																					
Arsenic	ND				0.015												0.028																					
Barium	0.21				0.12												0.208																					
Beryllium					ND												0.002																					
Cadmium		ND	0	ND	ND	ND	ND	ND						ND		ND	ND																					
Chromium (Total)	0.06	0.03	0.02	0.08	0.07	0.05	0.04	0.06						0.11		0.076	0.076																					
Copper	0.12				0.05												0.065																					
Lead	0.015	<DL	0.010	0.013	0.008	0.007	0.014	0.015						0.031		0.026	0.018																					
Mercury	<DL				ND												ND																					
Nickel	0.82				0.07												0.087																					
Selenium	0.08	0.03	0.01	ND	ND	ND	ND	ND						0		ND	ND																					
Silver	ND				ND												ND																					
Thallium	ND				ND												ND																					
Zinc	0.32				0.16												0.28																					
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																						
Alkalinity			402	140		158	143	147.0																														
Biochemical Oxygen Demand																																						
Boron					0.06												ND																					
Chemical Oxygen Demand		<DL	<DL	ND		ND	ND	ND						78.3																								
Chromium (Hexavalent)	<DL				ND												ND																					
Chloride			11	12		10.0	15.0	8.0																														
Color (PCU units)																																						
Nitrate-Nitrite	<DL	<DL	0.27		ND	ND	0.2																															
Nitrogen-Ammonia	<DL	<DL	0.4	0.2	ND	0.1	0.2							ND																								
Phenols	ND	0.078	ND		ND	ND	ND							0.031																								
Sulfate			22.3	11		42.0	15.0	7.0																														
Total Organic Carbon (TOC)		14	2	3	2.0	2.0	1.0	5.2						2.8																								
Total Dissolved Solids (TDS)			180	858		140	163.0	176.0																														
Total Hardness	265	340	172			156	135.0	261.0																														
Total Kjeldahl Nitrogen (TKN)					1.3												3.3																					
Turbidity (NTU units)			182	1110		130	4.0	1840																														
Cyanide																	ND																					

MW-9B  
 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 CLEAN, NEW YORK

PARAMETER VOLATILES (ug/L)	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD		
Acetone									2.8	ND	3.6	2.6	ND	1.8	ND	ND	ND	ND	ND	ND	ND	1.5	-	ND	-	ND	ND	ND	ND	ND	ND	1.5	ND	0.55	50.0		
Acrylonitrile									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	1.0	
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Bromodichloromethane									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromoform									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Butanone									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Carbon disulfide									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	60.0	
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	0.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	0.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	5.0	
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	0.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	5.0	
Chloroform									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07	7.0	
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	5.0	
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dibromochloromethane									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
1,2-Dibromo-3-chloropropane									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2-Dibromoethane									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	3.0	
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	3.0	
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	0.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	3.0	
trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07	5.0	
1,1-Dichloroethane	2.1	2.8							1.9	2.2	2.3	2.2	1.6	2.3	0.97	1.2	1.7	1.3	ND	ND	ND	ND	-	ND	-	1.5	ND	ND	ND	ND	ND	2.8	ND	1.91	5.0		
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	0.6	
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	2.7	0.41	0.38	0.41	ND	0.43	ND	ND	ND	ND	ND	ND	0.37	-	ND	-	0.43	ND	ND	ND	ND	ND	ND	ND	ND	0.20	5.0		
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	0.05	5.0		
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0		
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0		
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0		
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0		
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4		
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4		
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Hexanone									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.5	
Iodomethane									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.75	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.62	5.0	
4-Methyl-2-pentanone									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	10.0	
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND																																	

MW-9B  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
CLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD
<b>PARAMETER METALS (mg/L)</b>																																			
Aluminum									2.3			ND		0.238			ND	0.59			0.12	ND	-	-	-	ND	-	ND	-	0.056	-	-	0.43	5.82	
Calcium									60.7	52.6		68	72.1	62	61.9	60.5	54.9	65.4	61.8	57	63	54.7	-	61.2	-	63.8	75.6	70.7	-	75.6	-	-	76.4	53.11	
Iron									2.8	0.31		0.28	2	1.11	0.451	0.46	0.472	1.2	0.86	0.33	1.3	0.3	-	1.44	-	0.65	1.22	0.462	-	0.135	-	-	1.78	19.98	0.3
Magnesium									8.2	6.9		8.5	9.1	8.44	8.26	8.98	8.74	9.5	9.8	9.2	10	8.8	-	9.9	-	9.5	10.1	9.52	-	10.6	-	-	10.1	9.72	35.0
Manganese									0.14	0.032		0.05	0.03	ND	ND	0.07	0.035	0.12	0.055	0.029	0.053	0.021	-	0.066	-	0.969	0.428	0.779	-	0.118	-	-	0.658	0.42	0.3
Potassium									1.9	1		1.4	5	1.61	1.18	1.17	1.7	1.8	1.7	1	2.3	1.2	-	2.1	-	1.4	3.3	ND	-	2.04	-	-	1.83	3.86	
Sodium									4.2	3.5		4.9	5.7	4.8	4.3	4.1	4.7	4.6	4.7	4.1	ND	4.1	-	4.3	-	4.4	5.5	ND	-	5.89	-	-	5.33	3.45	20.0
<b>PARAMETER (mg/l) TOXIC METALS</b>																																			
Antimony									ND			ND		ND			ND	ND			ND	ND	-	-	-	ND	-	ND	-	-	-	-	ND	0.00	0.003
Arsenic									ND			ND		ND			ND	ND			ND	ND	-	-	-	ND	-	ND	-	-	-	-	ND	0.00	0.025
Barium									0.04			0.02		0.019			0.019	0.029			ND	0.016	-	-	-	0.021	-	ND	-	0.02	-	-	0.0377	0.04	1.0
Beryllium									ND			ND		ND			ND	ND			ND	2E-04	-	-	-	ND	-	ND	-	-	-	-	ND	0.00	
Cadmium									ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND	-	-	ND	0.00	0.005
Chromium (Total)									0.01			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	ND	-	-	-	-	0.0069	0.03	0.05
Copper									ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	ND	-	-	-	-	0.0044	0.01	0.2
Lead									0.01	ND		ND	ND	ND	ND	ND	ND	0.006	ND	0.001	ND	0.001	-	ND	-	0.002	ND	0.005	-	ND	-	-	ND	0.01	0.025
Mercury									ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	ND	-	-	-	-	0.00	0.0007	
Nickel									ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	0.002	-	ND	-	0.001	-	-	0.0042	0.05	0.1
Selenium									ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	0.004	-	ND	-	-	-	-	ND	0.00	0.0
Silver									ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	ND	-	-	-	-	ND	0.00	0.05
Thallium									ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	-	ND	-	-	-	-	ND	0.00	0.0005
Zinc									0.03			0.15		0.054			0.143	0.15			0.17	0.059	-	-	-	0.255	-	0.204	-	0.006	-	-	0.323	0.11	2.0
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																			
Alkalinity									158	155						1.860			226	220		180	-	-	-	-	-	-	200	-	-	-	96.9		
Biochemical Oxygen Demand									-										ND				-	-	-	-	-	-	1.2	-	-	-	0.1		
Boron									ND			ND		ND		ND	ND					ND	ND	-	-	-	ND	-	0.01	-	-	-	0.0115	0.0	1.0
Chemical Oxygen Demand									14.9	23.4		19.2				ND	ND	ND	107	ND		6	-	30.3	-	-	-	ND	17.2	-	-	44.1	12.6		
Chromium (Hexavalent)									ND													ND	-	-	-	-	-	-	0.01	-	-	-	0.0	0.05	
Chloride									5.4	4.2						5.86	6.59		5.5	60.7		5	-	4.3	-	-	-	5	10	-	-	6.9	250.0		
Color (PCU units)									-												12	-	-	-	-	-	-	5	10	-	-	-	2.1	15.0	
Nitrate-Nitrite									0.05	0.15									ND	0.069		ND	-	ND	-	-	-	0.055	0.035	-	-	ND	0.0	10.0	
Nitrogen-Ammonia									ND	ND		ND				ND	ND	ND	ND	ND		ND	-	ND	-	-	ND	0.026	-	-	-	0.091	0.0	2.0	
Phenols									ND	0.0081			ND	ND	ND	ND	ND	ND	ND	ND		ND	-	-	-	-	-	0.003	-	-	-	0.0161	0.0	0.001	
Sulfate									8.2	10.1						9.52	8.13		8.8	8.5		8.3	-	7.9	-	-	-	9.6	-	-	-	7.7	250.0		
Total Organic Carbon (TOC)									-	1.5	5	2.4	2.3		ND	ND	ND	2.5	ND	ND		1.5	-	-	-	-	-	2.6	ND	5.8	15.8	3.8	3.4		
Total Dissolved Solids (TDS)									244	177										240		215	-	228	-	-	-	-	225	-	-	-	142.3	500.0	
Total Hardness									185	160		205			190	190	170		195		200	173	-	194	-	-	-	170	-	-	-	200	144.7		
Total Kjeldahl Nitrogen (TKN)									ND								ND	ND		ND		ND	-	-	-	-	-	0.11	0.27	-	-	-	0.35	0.3	
Turbidity (NTU units)									-	5.2		18.5	19.1	48	3	12	14	4	22.8	11.4	27.5	17	-	9.2	28.3	31	23.8	14.4	3.5	14.8	229	38.3	28.8	134.1	5.0
Cyanide									-														-	-	-	-	-	-	ND	-	-	-	0.0	0.2	

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.

\* = Applies to the sum of cis and trans-1,3-dichloropropene.

\*\* = Guidance Value.

ND values are included in calculation of Mean and are considered equal to zero.

(Blank) or "-" = Not Analyzed.

ND = Not Detected.

J = Estimated.

<DL = Detected below method detection limit. B = Analyte was detected in method blank.



MW-10B  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
CLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02			
<b>PARAMETER METALS (mg/L)</b>																																						
Aluminum					12.6				6.27				1.33				ND					1.44			1.80		2.43		0.13		0.1	0.146		ND				
Calcium	72.2	59.4	64.6	65.0	51.8	58	62.8	73.5	66.7			61.6	62.1	55.6	57.5	66.2	ND	55	52.6	61.1	65.8	64.7	64.4	61.7	59.3	63.9	62.7	68.6	55.9	66.8	68.1	66.9	59.4	62.7	62.3			
Iron	16.8	12.4	8.96	23.9	0.73	11.8	7.1	21.3	22			12.1	7.31	5.55	8.9	38.8	ND	10.7	43.5	10.6	11.3	15.3	11.1	7.90	14.6	5.48	6.26	4.13	1.01	1.1	5.45	3.72	1.46	5	2.8			
Magnesium	22.7	21.4	20.1	22.7	15.6	19.4	20.6	25.6	24.1			20.1	20	19.2	20.5	27.3	0.13	18.2	22.1	19.7	21	21.9	21.4	20.2	20.4	20.8	19.8	20.3	18.9	20.3	22.3	21.4	18.7	21.1	20.2			
Manganese	12.8	11.9	12	13.1	9.75	11.6	12	14.7	12.5			11.9	11.9	10.9	10.3	12.5	ND	9.22	10.0	11.0	12.7	11.9	11.7	11.4	10.7	10.7	10.2	11.3	7.94	10.9	9.91	11.3	7.97	11.4	6.93			
Potassium	2.7	2.3	2.4	5.0	3.3	3.3	3.8	3.58	3.9			3.4	2.34	2.88	3.18	5.24	ND	3.56	5.9	3.12	2.49	3.49	2.89	3.00	3.18	3.84	4.28	3.24	2.97	2.58	5.54	3.46	2.77	2.54	4.53			
Sodium	9.9	11.6	10.2	11.3	10.1	10.7	10.7	12.2	10			8.86	10.6	10	10.7	3.02	11	10.5	7.6	10.7	10.3	10.7	9.45	10.9	9.83	10.6	9.76	8.96	9.39	9.86	10.4	9.82	9.62	9.84	10.3			
<b>PARAMETER (mg/l) TOXIC METALS</b>																																						
Antimony					ND				ND				ND				ND					ND			ND		ND			0.05		ND		ND				
Arsenic					0.021				0.028				0.016				0.013					0.02			0.030		0.01		0.01	0.01		0.013		0.03				
Barium					0.17				0.25				0.1									0.13			0.124		0.13		0.09	0.09		0.105		0.11				
Beryllium					ND				ND				ND									ND			ND		ND		ND		ND		ND		ND			
Cadmium	<DL	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	0	ND	ND	ND	0.002	ND	0	ND	0.01	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND		
Chromium (Total)					0.03				0.02				0.02									0.035			0.026		0.03		ND	0.01		0.013		ND		ND		
Copper					0.02				ND				ND									ND			ND		ND		ND		ND		ND		ND		ND	
Lead	0.020	<DL	0.022	0.029	ND	0.018	0.023	0.010	0.034	0.021	0.009	0.007	0.012	0.005	0.026	0.004	0.013	0.009	0.006	0.02	0.003	0.010	0.042	0.010	0.01	0	0.01	0	0	0.014	0	0.01	0.003					
Mercury					ND				ND				ND									ND			ND		ND		ND		ND		ND		ND		ND	
Nickel					ND				0.04				0.06									0.15			0.055		0.07		0.04	0.05	0.048		0.06					
Selenium	<DL				ND				ND				ND									ND			ND		ND		ND		ND		ND		ND		ND	
Silver					ND				ND				0.01									ND			ND		ND		ND		ND		ND		ND		ND	
Thallium					ND				ND				ND									ND			ND		ND		ND		ND		ND		ND		ND	
Zinc					0.08				0.04				0.03									ND			ND		0.03		ND		ND		ND		ND		0.03	
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																						
Alkalinity	278	271	247	296	306	321	294.0	282	259	278	257	275	238	262	264	291	261	247	288	265	256		246	310	260	281	317	288	268	310	285	281	251	282	257			
Biochemical Oxygen Demand				3				ND				7				8					15			9		13		17		ND		9		14				
Boron				0.1				ND				0.02				ND					0.07			0.112		0.06		0.08		0.07		0.081		0.08				
Chemical Oxygen Demand	16	17	ND	8	6.0	ND	15.0	45.4	29.9	18.1	16.4	23.4	45.3	27.7	20.4	25.3	ND	25.1	45.4	36.6	ND	29.5	19.0	ND	22.4	39.1	26.3	25.4	ND	38.3	ND	23.2	ND	24.3				
Chromium (Hexavalent)				ND				ND					ND								ND			ND		ND		ND		ND		ND		ND		ND		
Chloride	21	20.3	23	22	26.0	18.0	43.0	20.7	16.4	23.2	23	25.6	16.5	19.9	17.8	23.3	18.4	15	21.1	24.4	18.9	15.0	24.0	13.2	20.6	12.8	20.3	16.3	20.8	13.7	18	14.5	18.5	15.3				
Color (PCU units)				ND				30				20				40					30			60		20		35		50		20		15				
Nitrate-Nitrite	<DL	<DL	ND	ND	ND	ND	0.1	1.63	1.1	ND	ND	0.86	ND	ND	0.48	0.76	ND	0.096	0.78	ND	0.096	0.78	ND	1.56	ND	0.58	ND	0.61	0.62	0.71	ND	1.12	0.1	0.21	ND			
Nitrogen-Ammonia	<DL	<DL	ND	0.3	0.8	1.2	4.6	1.76	1.9	1.99	1.2	2.05	0.51	1.3	3.74	1.39	1.3	2.02	2.92	1.5	1.7	0.890	1.24	1.54	1.26	1.45	1.66	0.88	1.14	1.32	1.52	0.76	1.68	0.684				
Phenols	ND	ND	ND	0.010	ND	ND	ND	0.010	ND	0.018	0.013	0.031	ND	0.020	0.015	0.017	0.008	0.010	0.040	0.05	0.013	0.01	0.014	0.005	0.01	0.01	0.01	0.02	0.01	0.020	0.0112	0.02	0.01	0.0129				
Sulfate	0.5	4.5	ND	ND	ND	ND	14	11	ND	ND	5	5.7	6.7	6.7	ND	ND	ND	ND	ND	ND	8.7	6.4	ND	ND	12	7.1	ND	14	7.4	106	ND	11	6.37	7.15				
Total Organic Carbon (TOC)	13	5.4	6	6	6	5.0	14.0	8.9	6.3	7.2	5.6	7.8	4.7	7	4.9	8.9	4.8	9.5	8.9	6.4	6.1	7.0	6.4	4.6	ND	4.5	6.2	4.5	6	5.3	7	4.8	4.8	4.3				
Total Dissolved Solids (TDS)	290	311	336	360	149	306	332.0	228	376	347	338	305	283	284	288	336	282	269	330	319	290	282	326	290	319	271	368	292	306	308	290	305	336	297				
Total Hardness	272	237	294	256	194	225	242.0	320	304	368	277	299	295	422	284	352	212	222	234	251	252	249	237	232	245	199	255	217	250	262	255	225	243	239				
Total Kjeldahl Nitrogen (TKN)				1.9				1.62				2.88				3.28					2.35			5.01		ND		3.03		2.52		3.24		4.71				
Turbidity (NTU units)	3200	496	280	386	24.0	214	138.0	220	160	240	75	24	150	88	66	23	9	130	19	27	46	70	29	36	14	43	18	23	700	18	22	9	6.1	2.4				
Cyanide				ND				ND				ND									ND			ND		ND		ND		ND		ND		ND		ND		

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PARAMETER VOLATILES (ug/L)	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD			
Acetone							ND	ND	ND	2.8	14	ND	2	ND	1.2	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	0.84	50.0		
Acrylonitrile							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Benzene	1.5	2.2	2.1	2.3	2.2	2.3	1.8	1.6	2	1.6	1.6	1.4	1.7	ND	0.59	0.85	1.8	1.4	0.82	ND	ND	1.9	ND	ND	1.6	1.3	ND	ND	1.4	ND	ND	1.8	ND	1.91	1.0			
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0		
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Bromodichloromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromoform							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0
2-Butanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	5.0	
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	60.0	
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0
Chlorobenzene	0.58	1.5	1.4	1.5	1.4	1.5	0.87	1	1.2	0.95	0.88	1.2	1	ND	0.36	0.52	1.4	0.98	ND	ND	ND	1.7	ND	ND	1.2	0.93	ND	ND	ND	ND	ND	1.3	ND	0.81	5.0			
Chloroethane	ND	ND	ND	ND	0.4	0.55	0.33	0.4	ND	0.37	0.5	ND	0.52	ND	ND	0.26	0.59	0.55	ND	ND	ND	0.67	ND	ND	0.75	0.57	ND	ND	ND	ND	ND	ND	ND	0.18	5.0			
Chloroform							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	7.0	
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dibromochloromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
1,2-Dibromo-3-chloropropane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2-Dibromoethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	3.0	
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	3.0	
1,4-Dichlorobenzene	ND	0.55	ND	ND	0.53	0.57	ND	ND	ND	0.31	0.3	ND	0.34	ND	ND	0.41	ND	ND	ND	ND	0.53	ND	ND	0.37	0.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25	3.0		
trans-1,4-Dichloro-2-butene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dichlorodifluoromethane	ND	ND	ND	ND	1.3	0.95	0.58	0.85	ND	0.85	0.64	ND	ND	ND	0.33	0.42	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.90	5.0		
1,1-Dichloroethane	17	15	16.1	17.6	18	16	21	18	19	17	19	12	18	13	11	14	18	14	12	12	15	12	13	21	11	15	11	16	11.5	18.1	15.5	9.5	18.17	5.0				
1,2-Dichloroethane	ND	ND	ND	0.5	ND	ND	0.4	ND	ND	0.33	ND	0.39	ND	ND	ND	0.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	0.6	
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.4	ND	ND	ND	0.31	0.35	ND	0.37	ND	0.37	ND	0.24	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	5.0	
cis-1,2-Dichloroethene	17	20	26.1	31.5	35	39	22	28	36	35	31	27	28	15	19	31	55	26	19	36	37	40	38	49	41	54	30	38	43	35.2	62.3	54.4	38.2	26.51	5.0			
trans-1,2-Dichloroethene	0.53	0.67	1.1	1.1	0.96	1.1	0.69	0.61	0.87	0.88	0.64	ND	1.1	ND	0.34	0.52	0.97	0.58	ND	ND	ND	ND	ND	ND	0.64	ND	ND	ND	ND	ND	ND	ND	1.2	ND	0.64	5.0		
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.56	5.0	
2-Hexanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.5	
Iodomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	5.0	
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	5.0	
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	5.0		
4-Methyl-2-pentanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Naphthalene	ND	ND	ND	ND																																		







MW-11B  
 HISTORICAL ANALYTICAL RESULTS  
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	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02			
<b>PARAMETER METALS (mg/L)</b>																																						
Aluminum	4.3				3.1																																	
Calcium	23.4	16.5	25.1		48.2	13.9	25.4			12.3					28.2	11.6	14															29.7				36.7		
Iron	<b>26.9</b>	<b>11.7</b>	<b>26.5</b>		<b>25.1</b>	<b>13.1</b>	<b>18.2</b>			<b>13.1</b>					<b>22.7</b>	<b>12.7</b>	<b>39.3</b>																	<b>26.5</b>			<b>19.3</b>	
Magnesium	7.6	4.5	8.1		14.8	4	9.8			4.61					9.5	3.87	8.09																	9.34		14		
Manganese	<b>6.99</b>	<b>6.5</b>	<b>7.71</b>		<b>17.1</b>	<b>5.42</b>	<b>7.44</b>			<b>4.56</b>					<b>8.5</b>	<b>4.45</b>	<b>5.27</b>																	<b>11.9</b>		<b>10.8</b>		
Potassium	3.3	1.1	4		4.1	1.6	3.1			3.46					4.04	2.04	9.5																	3.19		3.08		
Sodium	1.3	1.4	3.3		8.8	3.3	7.5			1.58					6.38	1.67	3.02																	3.99		7.24		
<b>PARAMETER (mg/l) TOXIC METALS</b>																																						
Antimony	ND				ND																																	
Arsenic	ND				<b>0.041</b>																																	
Barium	0.23				0.52																																	
Beryllium					ND																																	
Cadmium		<DL	<DL		ND	ND	ND			ND					ND	ND	ND							ND		ND							ND			ND		
Chromium (Total)	<DL				0.04																																	
Copper	<DL				0.01																																	
Lead	<DL	<DL	0.008		ND	ND	0.020			0.005					0.006	0.004	0.024						0.009			0.003		0.001					ND			0.001		
Mercury	ND				ND																																	
Nickel	<b>0.62</b>				0.05																																	
Selenium	<b>0.021</b>	ND	<b>0.08</b>		ND	ND	ND			ND					0.01	ND	ND						ND		ND								ND			ND		
Silver	ND				ND																																	
Thallium	ND				ND																																	
Zinc	0.04				0.12																																	
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																						
Alkalinity	95	95	117			84.0	135.0			44.4					128	45.4																				192		
Biochemical Oxygen Demand	19.0																																					
Boron	ND				0.06																																	
Chemical Oxygen Demand	21.0	15.0	12		5.0	ND				ND					43.9	17.5																		48.4		33.2		
Chromium (Hexavalent)	<DL				ND																																	
Chloride	<DL	6	7		ND	4.0				ND					10.1	ND																		3.92		10.3		
Color (PCU units)	<b>55.0</b>																																					
Nitrate-Nitrite	<DL	<DL	<DL		ND	ND	ND			1.3					0.34	ND																		ND		0.176		
Nitrogen-Ammonia	1.0	<DL	<DL		1.6	0.6	<b>2.2</b>			0.4					1.01	ND																		0.390		0.8		
Phenols	<b>0.002</b>	ND	<DL		ND	ND				<b>0.010</b>					<b>0.019</b>	<b>0.013</b>																		<b>0.0138</b>		<b>0.0225</b>		
Sulfate	11	16.3	19.9			21.0	12.0			12.0					8.7	8																				12	8.77	
Total Organic Carbon (TOC)	8	8	5		10.0	3.0	6.0			5.0					6.7	5.4																			6.6	4.3		
Total Dissolved Solids (TDS)	132.0	110	118			139	153.0			60.0					183	85																				153	216	
Total Hardness	89.5	60.7	96			51.0	104.0			54.0					187	99																				71.6	149	
Total Kjeldahl Nitrogen (TKN)	1.9				2.1																																	
Turbidity (NTU units)	<b>55</b>	<b>243</b>	<b>182</b>			<b>32.0</b>	<b>94.0</b>			<b>76.0</b>					<b>100</b>	<b>500</b>																				<b>33</b>		<b>9.7</b>
Cyanide	<DL																																					



MW-11B  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
CLEAN, NEW YORK

PARAMETER	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD	
<b>PARAMETER METALS (mg/L)</b>																																				
Aluminum					3.2				ND			ND						ND																		
Calcium		40.8		21.5	46.2	23.2		57.6	55.5	34.4		26.9										0.06	0		0.07					0.0369						
Iron		28.1		16.3	23.6	9.6		26	22.4	13.1		12.6							23.8	4.5	18		9.5	11.5	20.2	8.52		8.73			19		62.4		25.63	
Magnesium		15.9		6.58	16.2	6.8		20.7	23.6	12.4		7.8							32.6	4.8	16		5.9	4.9	21.5	4.3		5.2			5.69		24.4		9.06	
Manganese		11.2		9.41	14.8	9.4		12.9	13.9	10.7		11.9							16.6	7.5	16		9.31	8.09	20	7.69		9.89			8.89		ND		8.15	
Potassium		4.1		2.21	4.3	1.7		4.2	4.6	2.6		1.6							4.8	1.6	2.3		1.3	ND		1.1		ND			2.12		2.82		2.47	
Sodium		8.7		1.31	7.4	2.1		10.5	11.7	4.9		2.1							13.3	1.1	6.2		1.2	ND	7.5	0.8		1.3			3.11		11.2		3.91	
<b>PARAMETER (mg/l) TOXIC METALS</b>																																				
Antimony					ND				ND			ND										ND			ND											
Arsenic					0.02				0.02			0.02										0.01			0.014					0.0069						0.00
Barium					0.37				0.4			0.18										0.206			0.149					0.158						0.00
Beryllium					ND				ND			ND										0.0003			ND					ND						0.00
Cadmium		ND		ND	ND	ND		ND	ND	ND		ND								ND	ND	ND		ND		ND			ND		ND				0.00	
Chromium (Total)					0.01				ND	ND		ND								ND	ND	ND		ND		ND			ND		ND				0.00	
Copper					ND				ND	ND		ND										0.002			0.003				0.003						0.00	
Lead		0.003		ND	ND	ND		ND	ND	ND		ND								0.006	ND	0.001		ND	ND	ND		ND		0.0017		0.0034			0.00	
Mercury					ND				ND			ND										ND			ND					ND					0.00	
Nickel					0.03				ND			ND										0.013			0.013					0.0106					0.04	
Selenium		ND		ND	ND	ND		ND	ND	ND		ND									0.007			ND					ND						0.00	
Silver					ND				ND			ND										ND			0.001					ND					0.00	
Thallium					ND				ND			ND										ND			ND				ND						0.00	
Zinc					0.02				0.03			0.07										0.035			0.046					0.977					0.08	
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																				
Alkalinity		205		90	175	67.1		229	218	150		62.5													299			80.8			179		264		110.1	
Biochemical Oxygen Demand					ND				4.9			4.5										12.2		11				4.1			9.6		7.6	ND	4.1	
Boron					0.07				0.09			0.02										0.1			ND					0.0125					0.0	
Chemical Oxygen Demand		28.8	298	18	54.8	18.5		29.8	28	23.4		16									19.4	23.8	32		12.6		27.6		22.8		58.8	62.9		84.9		29.2
Chromium (Hexavalent)					ND				ND			ND										ND			ND					ND					0.0	
Chloride					2.2	12.2	1.8		14.1	17.8		3.8			4.88							16.8	ND	9.48		ND				6.4			10.8	48.8	6.0	
Color (PCU units)					60				80			60																								27.4
Nitrate-Nitrite		ND	0.04	ND	ND	ND		ND	ND	ND		ND									ND		ND		ND				ND	0.046		ND			0.1	
Nitrogen-Ammonia		3.55	0.8	0.5	1.1	0.56		2.8	2.6	1.6		0.71									4	0.36	2.1		0.369		1.87		0.482		0.78	2.1		3.1	1.1	
Phenols		0.0157		ND	0.028	ND		0.01	0.01	ND		ND									ND			0.0073					ND			0.0099		0.0172		0.0
Sulfate		5.9		5.8	4.6	5.9		4.1	3.2	5.1		5.2				5.15					388		4.1	ND		2.5		4.3		3.3		3.3		2.5	5.8	
Total Organic Carbon (TOC)		6.1	17	4	62.9	5	4.1	6.2	6.8	4.6	10.8	3				3.4							7.1			8.9			4.6		5.7	3.1	14.6	20	5	
Total Dissolved Solids (TDS)		262		125	283	99		304	402	174		190											115			320			96			170		315	87	
Total Hardness		167		81	182	85.9		229	236	137		99.3											388			227			68.5			88		290		
Total Kjeldahl Nitrogen (TKN)			14		4.3				3.9			1.1											2.2		2.09							1.1	3.8		5.7	
Turbidity (NTU units)		24		61	49.1	89.4		36.9	56	21.3		28			5	7	267	6	5	36.1	29	12.8	16.1			19.5	27.6	35.7	11.3	41.2	15	6.2	107	62.3		
Cyanide					ND				ND			ND										ND								ND					0.0	

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.  
 \* = Applies to the sum of cis and trans-1,3-dichloropropene.  
 \*\* = Guidance Value.  
 ND values are included in calculation of Mean and are considered equal to zero.  
 (Blank) or "-" = Not Analyzed.  
 ND = Not Detected.  
 J = Estimated.  
 -DL = Detected below method detection limit. B = Analyte was detected in method blank.



MW-12A  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
CLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02		
<b>PARAMETER METALS (mg/L)</b>																																					
Aluminum	0.15				0.3				0.09				1.39				1.84																				
Calcium	78.3	55.9	70.3	67.5	88.9	56.3	71.4	85.2	113	97.3	80.3		77	109	87.5	92.6	97.2	103	81.5	92		112	104		96.0				107		122		96.5		104		
Iron	49.4	34.2	9.2	21.8	37.4	16.0	9.0	13.3	24.3	24.5	7.99		13.4	26.1	4.83	14.8	28.1	25.9	11.5	16.1		55.7	10.9		12.2				47.4		27		25.9		37.8		
Magnesium	7.9	7	9.5	10.4	11.6	8.0	8.3	12.2	13.3	11.8	10.3		10.7	11.6	10.8	11.4	10.5	8.39	12.4			10.3	13.7		11.6				10.9		11.8		10.7		11.9		
Manganese	11.3	10.9	8.87	8.78	9.62	7.43	6.23	7.64	9.53	7.79	5.38		6.51	9.18	5.39	7.84	7.71	7.88	7.01	7.39		8.34	6.58		7.58				7.32		8.46		7.24		9.31		
Potassium	2.6	2.9	3.3	3	3.5	2.8	2.8	3.0	8.52	3.22	1.6		2.38	3.25	2.51	2.43	2.88	2.7	2.2	2.54		3.61	2.07		3.27				3.49		3.33		2.27		3.22		
Sodium	11.2	6.9	12.7	18.1	17.9	15.2	12.4	18.7	19.2	17.0	15.4		17.9	10	13.3	14	0.82	10.4	8.09	14.1		7.86	12.6		10.9				5.82		6.27		6.4		6.88		
<b>PARAMETER (mg/l) TOXIC METALS</b>																																					
Antimony	ND				ND				0.05				ND				0.04																				
Arsenic	<DL				0.050				0.031				0.042				0.038																				
Barium	1.44	1.59	1.37	1.53	1.39	1.28	1.12	1.58	1.63	1.41	1.4		1.47	1.45	1.22	1.52	1.58	1.23	1.08	1.57		1.82	1.72		1.31				1.49		1.6		1.57		1.75		
Beryllium					ND				ND				ND				ND																				
Cadmium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		ND				ND		ND		ND		ND		ND
Chromium (Total)	<DL				0.01								0.02				0.02																				
Copper	ND				ND				ND				ND				0.01																				
Lead	ND	ND	ND	ND	ND	ND	0.010	0.007	ND	0.001	0.004		0.019	0.003	0.002	0.003	0.011	ND	0.020	0.003		ND	ND		0.001				0.002		ND		0		ND		
Mercury	ND				ND				ND				ND				ND																				
Nickel	0.05				ND				ND				0.04				0.64																				
Selenium	0.014	<DL	0.01	ND	ND		ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		ND				ND		ND		ND		ND		ND
Silver	0.08	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		0.007	ND		ND				ND		ND		ND		ND		ND
Thallium	0.1				ND				ND				ND				ND																				
Zinc	<DL				0.05				0.06				0.06				0.08																				
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																					
Alkalinity	309	259	278	299	420	326	449	236	366	316	297			357	332	344						384	322		355					423		400		355		353	
Biochemical Oxygen Demand	55.0				4				15.0				0.02				ND																				
Boron	ND				0.12								0.08				ND																				
Chemical Oxygen Demand	29.1	20	15	ND	ND	16.0	ND	31.0	19.8	77.2	19.1		13.2	33.8	18.5	ND		12.4	12			51.8	ND		29.4				40.6		43.4					37.4	
Chromium (Hexavalent)	<DL				ND				ND								ND																				
Chloride	4.1	7	10.8	5	3	7.0	ND	13.0	6.13	3.9	3.76		2.98	2.97	136		ND	ND				4.66	3.70		1.84				2.42		ND				8.42		
Color (PCU units)	55.0				ND				125																												
Nitrate-Nitrite	0.1	20.1	<DL	ND	ND	ND	ND	0.2	1.63	1.8	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		ND				ND		ND		ND		ND		ND
Nitrogen-Ammonia	2.9	<DL	0.9	ND	3.4	1.3	2.6	7.0	2.6	2.5	3.07		2.79	1.8	2.4	2.54		2.19	7.02			3.96	1.26		1.51				0.715						4.47		
Phenols	0.003	ND	0.014	ND	ND	ND	ND	ND	ND	ND	ND		0.008	0.005	0.009	ND	ND	0.070	ND			0.025	0.007		0.013				0.001		0.01					0.0203	
Sulfate	5.5	6.7	2.6	ND	ND	12.0	ND	ND	16.0	18.0	ND						ND	ND	ND	ND		ND	ND		ND				ND		ND		11		ND		ND
Total Organic Carbon (TOC)	11.3	8	8.5	4	5	6.0	4.0	16.0	6.5	14.6	3.4		5.5	6.3	4.3		4.3	6.2				7.8	6.6		4.9			9.9		13				8.8			
Total Dissolved Solids (TDS)	312	598	316	286	448	314	335	262	375	337	293		356	218	353		377	311				360	360		383			406		410		380		405			
Total Hardness	242	168	215	211	270	174	212	263	336	267	316		510	374	328		300	238				322	316		287			312		353		285		309			
Total Kjeldahl Nitrogen (TKN)	3.2				4.1				2.14				4.2																								
Turbidity (NTU units)	36	900	270	340	231	17.0	45	182	110	20	140		110	15	21		78	78				200	90		30			60		32					46		
Cyanide	<DL				ND				ND																												





MW-12A  
 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 OLEAN, NEW YORK

PARAMETER	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD
<b>PARAMETER METALS (mg/L)</b>																																			
Aluminum			0.11	ND	ND	ND	ND	ND	ND			ND					ND				ND	-	-	ND	-	-	-	-	0.016	-	-	-	0.17		
Calcium	86.4	70.4	114	108	94.8	88	114	91	89.2			106					109	72.9			80.1	-	90.3	102	-	77.9	-	-	112	-	118	-	81.39		
Iron	26.3	30.9	21.5	45.6	30.9	33.5	33.9	40.6	33.8			33.3					30.4	29.7			30.9	-	32	29.8	-	33.8	-	-	42.4	-	35	-	23.98	0.3	
Magnesium	10.7	9.32	13.5	11.9	12.4	11.7	14.1	23.6	12.6			15.3					17.4	11.3			13.3	-	14.7	14.6	-	12.7	-	-	14.3	-	14.5	-	10.53	35.0	
Manganese	8.21	9.49	8.31	9.5	10.6	1.1	10.3	13.9	12.9			15.3					17	12			17.1	-	16.1	11.5	-	17.4	-	-	12.4	-	7.92	-	8.36	0.3	
Potassium	2.54	3.52	2.18	4.2	2.6	3.5	2.9	4.6	3.5			4.1					3.8	4.5			3.8	-	3.8	3.9	-	4.7	-	-	6.74	-	3.35	-	2.95		
Sodium	5.7	5.85	7.68	6.2	6.8	7	8.1	11.7	7.6			8.8					9.5	7.2			7.8	-	6.8	7.2	-	6.5	-	-	10.4	-	6.92	-	8.96	20.0	
<b>PARAMETER (mg/l) TOXIC METALS</b>																																			
Antimony			ND		ND		ND		ND			ND					ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	0.00	0.003	
Arsenic			0.06		0.07		0.06		0.03			0.03					0.047				0.042	-	0.068	-	-	-	-	0.056	-	-	-	0.03	0.025		
Barium	1.52	1.92	2	1.8	1.9	1.7	2.2		1.9			1.9					1.77				1.77	-	-	1.59	-	-	-	-	1.78	-	-	-	1.28	1.0	
Beryllium			ND		ND		ND		ND			ND					ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	0.00	0.00	
Cadmium		ND	ND	ND	ND	ND	ND	ND	ND			ND					ND	ND			ND	-	ND	ND	-	ND	-	-	6E-04	-	ND	-	0.00	0.005	
Chromium (Total)		ND	ND	ND	ND	ND	ND	ND	ND			ND					0.003	-	-	-	0.003	-	-	0.003	-	-	-	-	0.022	-	-	-	0.00	0.05	
Copper			ND		ND		ND		ND			ND					ND				ND	-	-	ND	-	-	-	-	0.004	-	-	-	0.00	0.2	
Lead		ND	ND	ND	ND	ND	ND	ND	ND			ND					0.001	-	-	-	ND	ND	-	ND	-	ND	-	-	0.003	-	0.003	-	0.00	0.025	
Mercury			ND		ND		ND		ND			ND					ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	0.00	0.0007	
Nickel			ND		ND		ND		ND			ND					0.007	-	-	-	0.003	-	-	-	-	-	-	-	0.006	-	-	-	0.03	0.1	
Selenium		ND	ND	ND	ND	ND	ND	ND	ND			ND					0.009	-	-	-	0.004	-	-	-	-	-	-	-	ND	-	-	-	0.00	0.0	
Silver		ND	ND	ND	ND	ND	ND	ND	ND			ND					0.003	-	-	-	0.003	-	-	-	-	-	-	-	ND	-	-	-	0.00	0.05	
Thallium			ND		ND		ND		ND			ND					ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	0.00	0.0005	
Zinc			ND		ND		ND		ND			0.2					0.012				0.004	-	-	0.01	-	-	-	-	0.024	-	-	-	0.02	2.0	
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																			
Alkalinity	319	410	350	42.9	211	430	407	242	206			191				185				467	252	320		349	-	377	-	-	315	-	-	380	-	-	273.0
Biochemical Oxygen Demand		11		15.9		4.7		8.9				4.5					8.6			16			-	-	-	-	7.9	-	-	9.6	-	8.1	14.4	8.3	
Boron		ND		0.09		0.09		0.12				0.1					0.11				0.11	-	-	0.07	-	-	-	-	0.118	-	-	-	0.0	1.0	
Chemical Oxygen Demand	26.5	38	34	61	31.6	55.9	48.6	61.3	46.7			33.6					36.4	50.6	41		22.1	-	38.8	36.2	-	52.9	-	-	75.4	-	101	-	28.8		
Chromium (Hexavalent)		ND		ND		ND		ND				ND					ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	0.0	0.05	
Chloride	4.41	5.1	2.5	3	2.2	8.2	6.6	8.7	5.5			6.6			3.48		8.2	3.8	5.97		4.9	-	4.4	3.4	-	4.4	-	-	10.5	-	6.1	7.1	7.0	250.0	
Color (PCU units)		20		140		140		200				120					200				-	-	-	-	-	-	-	-	25	-	-	-	48.8	15.0	
Nitrate-Nitrite		ND	ND	ND	ND	0.07	ND	ND	ND			ND					ND	ND	ND		ND	-	ND	ND	-	ND	-	-	0.065	-	0.097	-	0.5	10.0	
Nitrogen-Ammonia	2.54	4.1	2	1.3	1.4	4.3	1.8	4.5	3.2			3.8					5.9	7.7	5.26		5.57	-	4.45	5.8	-	6.1	-	-	7.0	-	5.7	-	2.8	2.0	
Phenols	0.004	ND	ND	0.02	ND	ND	ND	ND	0.01			ND					ND	0.014	ND		0.015	-	-	-	-	-	-	0.042	-	0.0253	-	0.0	0.001		
Sulfate	5.8	ND	2.9	ND	4.4	ND	3.1	ND	4.2			ND			4.87		3.4	ND	ND		2.5	-	4.7	ND	-	2	-	2.9	-	2.3	7.4	2.5	250.0		
Total Organic Carbon (TOC)	3.4	7.8	8.2	29.5	6.1	12.1	6.3	11.7	8.6	35.4	8.8	23.2		13	6.1		8.8	9.5	13		11.7	-	-	16.2	-	12.6	-	7.5	24.9	25	11.7	9.4			
Total Dissolved Solids (TDS)	383	298	402	330	345	413	446	484	378			390					449	344	440		395	-	375	392	-	349	-	426	-	436	394	334.7	500.0		
Total Hardness	260	214	341	319	288	268	343	277	274			328					345	228			255	-	286	314	-	259	-	340	-	410	-	254.4			
Total Kjeldahl Nitrogen (TKN)		8.4		5		6.3		6.5				5.2					2.4				3.52		7.11	-	-	6.91	-	-	8.2	-	8.9	-	3.4		
Turbidity (NTU units)		53	38	48	56.4	22	30.2	45.2	75	64.4		13.9			19	150	12	4	29.5	79.7	54.4	31.5	-	36.3	22	66.8	26.6	-	12.4	219	41.4	154	86.1	5.0	
Cyanide			ND		ND		ND		ND			ND					ND				-	-	-	-	-	-	-	-	ND	-	-	-	0.0	0.2	

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.

\* = Applies to the sum of cis and trans-1,3-dichloropropene.

\*\* = Guidance Value.

ND values are included in calculation of Mean and are considered equal to zero.

(Blank) or "-" = Not Analyzed.

ND = Not Detected.

<DL = Detected below method detection limit.

J = Estimated.

B = Analyte was detected in method blank.



MW-12B  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02				
<b>PARAMETER METALS (mg/L)</b>																																							
Aluminum	1.7				0.1				0.61				5.07				6.38					2.34			0.248		0.2			ND		ND		ND		ND		104	
Calcium	96.6	138	167	123	98.4	117	12.3	123	109	95.5	89.2	109	108	137	90.1	82.1	49.2	89.8	99.6	103	120	123	117	95.6	110	121	107	129	104	112	116	114	109				104		
Iron	45.7	63.8	57.6	52.6	23.9	28.6	57.3	62.8	63.5	57.2	53.9	54.9	47.8	65	13.8	35.9	11.5	19.3	40.2	44.2	48.6	63.7	55.5	26.2	50.6	40.9	38.9	25.7	43.2	23.1	50.4	14.4	30.5			53.7			
Magnesium	8.7	20.4	20.5	26.3	21.9	22.7	25.2	28.2	22.7	19.8	21.6	24.1	24.2	26.5	17.2	16.9	11.8	1.6	18.8	23.0	25.2	24.4	22.8	19.5	22.2	23.3	20.3	23.3	21.3	21.7	23.1	22.4	21			21.8			
Manganese	19	23.1	23.9	13.1	16.4	15.6	23.9	22.1	19.5	16.4	10.7	16.1	16	20.9	9.03	12.2	2.72	9.34	13.7	12.0	15.4	20.2	17.3	11.3	15.4	14.7	12.9	12.8	15.9	11.2	16.1	12.3	12.2			16			
Potassium	8.9	12.1	11.8	11	7.6	6.0	11.0	12.7	12.9	11.3	6.87	9.29	9.61	12.4	4.87	9.46	3.14	6.76	7.99	12.4	11.7	12.4	9.54	12.8	10.1	11.2	8.91	8.66	10	8.18	10.7	10	8.78			11.1			
Sodium	18.9	27.7	30.4	34.9	27.3	25.2	34.0	38.0	32.2	26.0	19.3	27.9	30.8	33.8	22.8	22.8	31	20.6	21.8	27.6	31.9	30.8	24.7	31.0	24.3	27.8	20.9	23.8	24.6	23.4	23.2	21.2	19.3			24.1			
<b>PARAMETER (mg/l) TOXIC METALS</b>																																							
Antimony	ND				ND				0.05				ND				ND				ND			0.055		ND		ND		ND		ND		ND					
Arsenic	ND				0.032				0.010				0.020				0.019							0.010		0.02		0.03		0.01		0.01							
Barium	0.53				0.36				0.8				0.66				0.15					0.73		0.581		0.73		0.58		0.43		0.5							
Beryllium					ND				ND				ND				ND					ND																	
Cadmium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND				
Chromium (Total)	<DL				0.01				0.02				0.03				0.04					0.04		0.028		0.02		0.02		0.02		0.02					0.02		
Copper	ND				ND				ND				0.01				0.02					0.02		ND		ND		ND		ND		ND		ND					
Lead	<DL	ND	ND	ND	ND	ND	0.070	0.009	0.003	0.004	0.023	0.012	0.009	0.005	ND	0.005	0.017	0.002	0.001	0.003	0.01	ND	0	0.011	0.005	0	0	0	0	0	0	0	0	0	0	0			
Mercury	ND				ND				ND				ND				ND					ND		ND		ND		ND		ND		ND		ND					
Nickel	0.64				ND				0.05				0.09				0.04					0.1		0.058		0.08		0.06		0.06		0.06		0.05					
Selenium	0.04	0.03	0.05	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Silver	ND				ND				ND				0.02				ND					0.01		ND		ND		ND		ND		ND		ND					
Thallium	ND				ND				ND				ND				ND					ND		ND		ND		ND		ND		ND		ND					
Zinc	0.03				0.01				0.02				0.06				0.06					0.08		0.095		0.05		0.07		0.03		0.03		ND					
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																							
Alkalinity	411	461	523	522	468	522	653	562	489	507	394	446	523	656	475	386	656	253	516	587	583	530	470		499	412	543		587	571	521	500	487		603				
Biochemical Oxygen Demand	45				6.0	ND			24.0				11				13					ND		29		26				10									
Boron	0.11				0.21	ND			0.25				0.02				ND					0.29		0.249		0.28		0.24		0.23			0.18						
Chemical Oxygen Demand	100	20	98	90	50	259	158.0	106	85.1	107	82.4	84.7	89.8	228	92.1	50.9	131	84	69.3	127	325	139	88.3		27.4	85.5	44.8		93.9	77.2	94	32.1	71.5		76.7				
Chromium (Hexavalent)	<DL				ND				ND				ND				ND					ND				0.010		ND		ND		ND							
Chloride	42.5	46	64	7	71	36.0	70.0	32.4	37.4	29.8	56.3	72.6	61.6	27	15.5	69.9	38.6	38	55.2	79.1	43.8	29.2		30.9	35.6	29.8		36.4	34.9	32.8	40.1	27			42				
Color (PCU units)	51				ND				250				400				175					600				320			450										
Nitrate-Nitrite	<DL	<DL	<DL	ND	ND	ND	ND	ND	1.99	1.2	0.23	ND	0.18	ND	ND	ND	0.1	ND	0.110	ND	ND	ND					ND	ND	ND	ND	ND	ND	1.28	ND	ND	ND			
Nitrogen-Ammonia	16.3	8.7	7.5	0.5	17.5	2.8	20.8	38.0	20.5	19.7	11.8	12.6	19.1	22.9	27.1	6.31	2.6	20.8	20.3	13.8	24	13.4	8.66		11.2	13.7	15		20.4	16.9	18.1		12.5		25.3				
Phenols	0.005	0.084	ND	0.010	0.020	0.100	ND	ND	0.096	0.100	0.049	0.087	0.147	0.011	0.060	0.032	0.235	0.046	0.063	0.118	0.25	0.145	0.11		0.06	0.08	0.07		0.13	0.07	0.12		0.06		0.11				
Sulfate	14	1.8	16.8	ND	ND	ND	ND	20.0	8.4	ND	ND	11		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.4		11	ND	ND	ND	18			ND			
Total Organic Carbon (TOC)	30.4	29	36	27	24	172	35.0	58.0	21.8	29.0	19.2	22.9	30	44.2	30.8	13	372	25.6	24.3	24.3	50.9	32.7	25.6		19	19	18		28	44	33	17	19		27.2				
Total Dissolved Solids (TDS)	436	580	546	685	584	454	639.0	588	474	556	430	602	380	688	426	367	658	530	461	568	670	565	470		544	438	468		543	480	558	503	514		509				
Total Hardness	277	427	721	415	336	386	134.0	422	376	404	361	386	521	595	554	320	589	290	326	352	446	408	386		366	398	351		347	301	385	377	359		349				
Total Kjeldahl Nitrogen (TKN)	11.2				15.8				21.9				22				30					19.5		24.3		12.8				17.5									
Turbidity (NTU units)	44	1440	370	570	179	62.0	173.0	240	80.0	58.0	120	130	200	140	64	40	155	88	98	150	190	100	125		75	43	48		23	600	51		48		140				
Cyanide	<DL				ND				ND				ND				ND					ND		ND		ND		ND		ND		ND							



MW-12B  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
CLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD	
<b>PARAMETER (mg/L) METALS</b>																																				
Aluminum	0.1		0.18	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.053	0.001	-	-	ND	ND	-	ND	ND	0.0157	0.0282	-	0.096	0.50		
Calcium	126	95.7	96.1	110	99.9	119	119	115	106	113	124	113	118	122	126	117	130	117	105	130	130	107	111	120	126	148	104	133	135	121	106	119	127	112.05		
Iron	26.8	29.3	24.6	18.4	21.6	29.9	13.3	20.6	19.6	29.8	14.6	22.8	17.7	26.6	13.2	22.4	19.2	19.7	15.1	27	15	14.5	26.8	8.94	14.5	6.01	10.2	17.3	13.2	12.3	14.4	17.5	11.0	31.03	0.3	
Magnesium	24.7	19.6	17.8	20.9	19	22.6	22.7	20.7	19.8	22.9	24.3	22.8	24.1	25.6	24.9	23.2	26.2	23.5	20.9	27	28	22.2	23.7	23.3	24.5	29.3	19.1	24.4	27.3	22.8	20.8	22.0	23.8	22.29	35.0	
Manganese	13.2	11.4	10.8	9.84	10.6	12.7	12.2	11.4	13.1	12.4	11.2	12.5	10.7	11.9	9.03	11.5	11.2	11.1	10.6	12	11	9.61	11.7	11.2	9.39	8.04	13.4	10.8	10.5	10.7	9.94	7.62	9.54	13.15	0.3	
Potassium	7.87	6.84	8	5.81	6.6	6.9	5.1	6.2	7.2	7.4	6.9	8.1	7.35	5.17	5.97	6.44	5.7	7.1	6.4	7.5	4.8	7.4	3.8	4.6	3.3	4.6	ND	7.67	6.3	7.42	3.97	5.52	7.96			
Sodium	22.3	16.5	16.1	15.6	14.9	16.7	19.9	14.2	15.5	17.2	21	16.6	19.4	20.2	14.9	15.8	20	14.5	15.5	16	ND	13.3	17.1	12.2	14	13	11.2	16.1	17.4	11.8	14.5	11.2	15.0	21.10	20.0	
<b>PARAMETER (mg/l) TOXIC METALS</b>																																				
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	0.00	0.003
Arsenic	0.01	ND	0.01	ND	ND	0.01	0.012	0.01	0.013																											
Barium	0.56	0.52	0.43	0.43	0.44	0.6	0.53	0.555																												
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00
Chromium (Total)	ND	ND	0.01	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	-	-	0.0009	ND	-	0.0175	ND	0.006	0.0069	-	0.0107	0.01	0.05	
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00
Lead	0	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND	0.002	ND	ND	0.003	0.002	ND	0.0046	ND	0.0015	0.0035	0.0021	0.0016	0.00	0.025	
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6E-05	-	0.0001	0.00	0.0007	
Nickel	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	-	-	0.005	0.004	-	ND	ND	0.0058	0.0063	-	0.0046	0.04	0.1		
Selenium	0	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	-	-	0.006	0.006	-	ND	ND	ND	ND	ND	ND	ND	ND	0.00	
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	0.001	0.002	-	ND	ND	ND	ND	ND	ND	ND	ND	0.00
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	0.0127	ND	ND	0.0044	-	ND	ND	0.00	0.0005
Zinc	0.04	ND	ND	ND	ND	ND	0.03	0.03	0.018	ND																										
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																				
Alkalinity	469	363	480	440	167	371	449	383	373	ND	476	267	457	482	410	413	490	482	407	440	480	460	485	461	487	530	388	468	484	539	483	378	496	465.8		
Biochemical Oxygen Demand	8		9	ND		6.3		3.5		6.3	4.7		11.9					5		11	7	10.1	-	-	11.1	6.7	3.7	9	ND	9.9	6	13	7.6	9.0		
Boron	0.18		0.11	0.14		0.19		0.17		0.18	0.16		0.163					0.151	0.15		ND	0.14	-	-	0.1	0.08	-	0.119	0.107	0.11	0.165	-	0.125	0.1	1.0	
Chemical Oxygen Demand	80.2	54.1	45	42	83	44.6	71.3	23.7	50.5	43	46.5	41.2	42.9	45	38	41.6	36.3	31	48.8	38	45	37.4	56.7	26.6	42.8	24.5	30	-	46.3	48.4	73.3	64.5	74.7	73.6		
Chromium (Hexavalent)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0061	0.0
Chloride	45.5	23.8		17	24.8	18.3	38.6	17.4	16	21.4	27.7	15.7	27.3	25	21.7	16	25	14	14.5	13.6	22.7	12.8	19.1	8.1	10.2	9.6	7.9	12.6	18.2	11.4	16.3	9.1	10.8	31.2	250.0	
Color (PCU units)	500		30		120		60		160		300		80		30		0	320				5	280	-	-	340	90	-	20	5	15	-	75	139.9	15.0	
Nitrate-Nitrite	0.72	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	0.4	0.144	ND			0.104	ND	ND	0.055	0.182	ND	ND	ND	ND	ND	ND	ND	ND	0.052	1.4	ND	0.052	0.2	10.0	
Nitrogen-Ammonia	14.2	14	12.2	10.4	2.3	8	17.1	5	4.3	8.8	6.3	8.3	9.2	13.2	7.36		9.36	8.9	11	7.82	9.24	6.63	12.5	3.7	7.03	5.29	5.1	6.87	9.3	6.7	12.9	5.1	2.2	12.0	2.0	
Phenols	0.06	0.0661	0.002	0.002	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.09	ND	ND	0.031	0.087	0.026	0.0412	0.0057	ND	0.0406	0.0318	0.047	0.0578	0.0437	0.049	0.0	0.001	
Sulfate	ND	ND	2.2	2.2	ND	2.2	2.6	ND	2.1	ND	ND	ND	ND	ND	2.32	ND	ND	ND	ND	ND	ND	ND	2.9	ND	3.2	3	ND	ND	2.6	1.3	1.9	2.5	2.2	250.0		
Total Organic Carbon (TOC)	15.1	11	14	13	23.5	13.7	14.9	10	13.2	16.2	13.3	14.4	17.9	14.9	9.6	9.1	11.4	11.2	8.7	10.9	11.5	12.7	17.2	8.7	14.1	9.3	11.6	9.52	9.8	3.2	19.5	20.8	9.0	28.1		
Total Dissolved Solids (TDS)	560	500	445	478	478	449	515	464	587	312	502	468	467	508	482	503	510	468	430	610	600	482	511	479	488	523	407	487	516	459	201	457	458	503.4	500.0	
Total Hardness	416	320	313	361	328	390	390	372	346	376	410	376	494	410	420	390	430	389	349			450	387	396	415	490	352	390	450	410	520	450	340	394.4		
Total Kjeldahl Nitrogen (TKN)	16.2		14	12.9		19.4		6		9.4	ND		13.1				9.95	9.5			5.2	9.26	7.89	-	-	7.59	5.25	-	7.53	7.7	6.4	14.3	6.7	4.7	11.2	
Turbidity (NTU units)	200	42	100	53	41.6	25.8	12.7	22.6	40	47.8	33.8	10.8	15.1	12	4	5	6	10	0.8	6.4	26.8	14.4	10.4	2.3	7.1	23.4	7.84	6.3	10.9	6.6	87.2	43.8	16.2	106.2	5.0	
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	-	-	ND	ND	-	0.0	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.  
 \* = Applies to the sum of cis and trans-1,3-dichloropropane.  
 \*\* = Guidance Value.  
 ND values are included in calculation of Mean and are considered equal to zero.  
 (Blank) or "-" = Not Analyzed.  
 ND = Not Detected.  
 J = Estimated.  
 -DL = Detected below method detection limit. B = Analyte was detected in method blank.



MW-13  
 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 CLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02			
<b>PARAMETER METALS (mg/L)</b>																																						
Aluminum	5.04				12.6				7.85				8.91	41.3	41	1.17					15.2			1.54	10.4		2.14		0.78		0.85		1.48					
Calcium	53.1	48.8	54.7	52.8	65.9	62.6	53.7	56.2	55.2	56.4	48.7	51.2	51	41.3	41	45.4	50.9	45.2	36.5	38.2	50.8	48.6	51.9	44.5	42.5	44.8	37.1	45.3	40.4	41.2	34.4	40.8	35.5	44.9	38.3			
Iron	9.75	0.8	2	0.28	22.0	4.03	0.2	8.6	14.4	52.1	10.2	45.5	13.4	2.08	7.39	52.3	59.6	17.2	7.75	10.6	36.9	23.1	30.8	2.56	3.13	10.2	1.91	2.94	10.7	1.19	2.92	0.8	4.95	2.57	2.52			
Magnesium	11	9.9	13.2	11.3	15.1	11.9	10.8	12.6	13.7	17.8	11.8	16.6	13	9.91	11.3	17.4	15.7	12.2	9.82	10.9	15.6	14	15.0	10.6	10.9	11.8	9.16	9.98	11.1	9.36	6.79	9.79	9.72	10.1	9.58			
Manganese	3.33	1.94	2.02	1.06	0.83	0.82	0.18	0.71	2.85	1.98	1.94	2.82	2.37	1	2.29	2.95	11	2.08	1.94	1.39	3.79	3.11	1.79	2.58	1.44	4.79	2.03	1.38	2.35	2.18	2.6	1.54	1.15	2.99	1.87			
Potassium	2.6	1.5	3.1	1.1	5.1	2.1	1.3	3.8	4.22	7.24	2.85	6.79	4.88	2.21	2.67	8.74	3.26	4.41	1.91	2.36	3.9	4.47	4.70	2.22	1.78	4.49	1.53	3.16	3.85	1.55	2.64	2.91	3.06	1.42	1.15			
Sodium	6.6	8.6	9	8.4	8.0	7.5	7.5	7.8	8.76	7.75	6.29	5.92	8.38	6.22	7.8	7.64	0.04	7.65	6.57	8.01	8.69	7.71	7.03	8.45	7.17	7.95	6.95	7.75	6.99	7.38	7.36	7.43	7.01	6.59	8.25			
<b>PARAMETER (mg/l) TOXIC METALS</b>																																						
Antimony	ND				ND				0.03				ND				ND				ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	<DL				0.006				0.005				0.004				0.004				0.004			ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium	0.1				0.18				0.17				0.15				0.29				0.19			0.060	0.12		0.13	0.05	0.08	0.08	0.03							
Beryllium	ND				ND				ND				ND				ND				ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium		<DL	<DL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.004	0.01	ND	ND	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chromium (Total)	<DL				0.03				0.02				0.03				ND				ND			0.66	0.02	ND	0.02	ND	0.02	ND	0.02	ND	ND	ND	ND	ND	ND	
Copper	ND				0.02				ND				0.02				ND				0.03			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Lead	0.004	ND	0.005	ND	0.009	0.007	ND	0.007	0.003	0.013	0.002	0.014	0.011	0.003	0.001	0.018	0.007	0.010	0.007	0.005	0.01	0.004	0.010	0.005	0.008	0.01	ND	0	0.01	0	0	0.01	0	0.02	0			
Mercury	ND				ND				ND				ND				ND				ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Nickel	0.1			ND	ND				ND				0.03				0.06				0.47			0.017	0.04		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03		
Selenium	0.01	ND			ND	ND			ND				ND				ND				ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Silver	ND				ND				ND				ND				ND				ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	0.2				ND				ND				ND				ND				ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	0.05				0.07				0.05				0.05				0.04						0.14			0.04		0.03		0.02		0.02		0.02		ND		
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																						
Alkalinity	203	209	182	190	208	242	204	173	188	178	152	170	215	141	148	144	178	153	144	184	203	140	136	183	141	161	190	167	123	168	116	114	124	169	114			
Biochemical Oxygen Demand	<DL				ND	ND			7				14				10				9			12	22		9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Boron	ND				0.08	ND			ND				0.03				ND				0.07			0.087	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.07		
Chemical Oxygen Demand	8.4	20	11	ND	7.0	5.0	ND	17.0	20.2	30.7	46	57.2	11.1	27.7	27.1	30.6	36.2	11.7	11.6	60.0	18.9	90.5	126	ND	25.3	ND	10.3	32.3	31.4	37.1	ND	ND	ND	ND	ND	ND		
Chromium (Hexavalent)	<DL				ND				ND				ND				ND				ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloride	16.9	18	16.6	12	11	14.0	16.0	14.0	15.9	10.8	ND	12.6	11.9	11.7	12.5	11.7	13	11.4	10.3	10.1	9.66	9.82	9.05	11.5	ND	10.6	8.33	8.17	10.3	10.6	10.2	9.22	9.24	8.19	11.3			
Color (PCU units)	9				ND				20				15				ND				25			30	20		300	1250	300	250	250	250	250	250	250	250	250	
Nitrate-Nitrite	<DL	<DL	0.2	ND	0.04	0.4	0.18	0.28	0.67	0.22	0.22	0.21	0.22	0.39	0.11	0.16	0.15	0.12	0.06	0.552	0.08	0.206	ND	0.080	0.068	ND	ND	0.13	0.14	0.17	0.09	0.1	0.11	0.13	0.42			
Nitrogen-Ammonia	<DL	<DL	<DL	0.1	0.2	ND	0.4	0.1	0.19	0.07	0.17	0.23	0.35	0.59	0.13	0.06	0.13	0.1	0.05	0.102	0.22	0.172	0.16	0.117	0.316	0.22	0.2	0.47	0.11	0.17	0.17	0.13	0.14	0.12	ND			
Phenols	0.002	ND	ND	ND	0.020	ND	ND	ND	ND	ND	ND	ND	0.015	0.013	0.100	0.002	ND	0.004	ND	ND	0.039	0.01	ND	0.020	0.004	0.007	0.002	ND	0.01	0.01	ND	ND	ND	ND	ND	ND		
Sulfate	8	1	23	ND	26	47.0	58.0	26.0	22	21.0	20	16	12	17	11	12	12	11	ND	6.3	6.5	26	17	18	11	12	8.4	108	26	ND	19	14	14	8.62	15.2			
Total Organic Carbon (TOC)	6.2	9	4.8	4	3.0	3.0	19.0	18	8.3	7.8	5.7	11.4	11	5.6	8.8	5.4	4.9	9.1	10.1	23.7	18.8	16.9	6.7	8.7	4.8	6	4.1	4.8	2.9	5.2	5.9	7.6	2.7	3.2				
Total Dissolved Solids (TDS)	212	222	225	236	291	309	260	221	238	209	201	218	212	211	171	192	215	205	169	187	252	199	221	206	169	213	161	211	215	183	162	170	156	199	175			
Total Hardness	178	163	191	178	203	205	178	192	241	175	259	189	201	218	211	180	257	163	132	140	191	179	191	155	151	160	130	154	111	112	122	142	129	154	135			
Total Kjeldahl Nitrogen (TKN)	0.9				1.1				2.19				3.36				ND				ND			3.10	ND		1.6		3.26		ND		1.18					
Turbidity (NTU units)	75	320	128	175	308	79.0	44.0	107	600	52.0	170	31	60	100	40	270	17	69	19	280	43	80	33	24	70	19	66	54	700	37	77	23	168	6.8				
Cyanide	<DL				ND				ND				ND				ND				ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	





MW-13  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD				
<b>PARAMETER METALS (mg/L)</b>																																							
Aluminum	5.93		2.52		9.4		0.27		ND		ND	0.22		ND		0.296	ND				ND	0.02	0	-	0.08	ND	-	ND	0.238	0.026	ND	-	0.0697	2.42					
Calcium	52.3	32.5	45.1	46.5	46.9	42.3	48.7	43.7	44.5	37.3	40.1	33.7	41.7	39.3	41.6	37.7	41.6	37.3	46.2	38	47	31.7	14.1	33.4	39.5	36.6	44.3	38.4	44	46.8	43.9	42.7	50.3	44.11					
Iron	10.8	6.82	4.89	1.26	12.8	0.74	0.33	0.07	0.12	0.1	0.16	0.36	0.21	0.133	0.103	0.223	0.409	0.14	0.21	0.039	0.19	0.1	0.34		0.19	0.08	0.42	0.101	0.459	0.0907	0.106	0.357	0.0952	7.66	0.3				
Magnesium	13.8	9.53	10.9	10.7	12.9	10.7	12	11	11.6	10.2	10.4	9.2	10.8	10.5	11.1	10.5	10.8	10.4	12.6	11	13	9.6	5.3	10	10.3	10.6	11.3	9.95	11.9	13	11.9	12.1	13.8	11.55	35.0				
Manganese	4.84	1.45	5.57	0.76	4.2	0.83	0.48	0.1	7.5	0.53	0.08	0.42	0.24	0.167	0.08	0.28	0.365	0.34	0.49	0.12	0.55	0.219	2.09	0.562	0.145	0.294	0.136	0.641	0.94	0.171	0.0609	1.12	0.17	1.72	0.3				
Potassium	2.68	2.61	1.97	1.06	4.2	1.1	1.3	0.87	2.1	0.84	1.1	0.78	0.94	0.874	0.825	0.696	1.05	0.7	1.1	0.64	0.91	0.6	ND	ND	0.7	1.7	ND	ND	ND	1.04	1.09	1.58	2.21						
Sodium	8.68	7.51	8	7.54	8.6	7.5	11.2	7.9	8.1	7.6	11	8.8	9.9	11.5	11.7	9.8	11.8	9.2	12.2	11	ND	11.5	1.9	10.8	10.1	11.3	10.4	11.2	12.4	10.7	10.2	8.94	11.6	8.35	20.0				
<b>PARAMETER (mg/L) TOXIC METALS</b>																																							
Antimony	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	0.0035	0.00	0.003		
Arsenic	0	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.025		
Barium	0.11	0.1		0.13	0.01	0.03	0.013	0.018	0.015					0.021	0.019							ND	0.0016	-	-	0.019	0.022	-	ND	ND	0.017	0.0166	-	0.0194	0.06	1.0			
Beryllium	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.00		
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.005		
Chromium (Total)	0.02	ND		0.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	ND	ND	0.0044	0.02	0.05			
Copper	ND	ND	0.01	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.2		
Lead	0.01	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.025		
Mercury	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	ND	6E-05	-	ND	0.00	0.0007				
Nickel	0.04	ND		0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	0.002	-	ND	ND	0.0021	0.0012	-	0.0017	0.02	0.1				
Selenium	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.0		
Silver	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.05	
Thallium	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	0.0005	
Zinc	0.05		0.02		0.04		ND		0.02		0.054	0.019		0.033			0.098	0.031				0.074	0.041	-	-	0.03	0.015	-	0.0206	0.0267	0.0143	0.0225	-	0.0295	0.03	2.0			
<b>PARAMETER (mg/L) LEACHATE INDICATORS</b>																																							
Alkalinity	175	111	165	150	181	129	132	148	160	155	202	79.8	147	132	156	165	186	156	189	140	180	147	164	147	158	154	168	145	169	170	191	144	53.6	160.4					
Biochemical Oxygen Demand	ND	ND		2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	1	1	ND	ND	2.4	0.0				
Boron	0.09		0.06		0.08		0.07		0.06		0.073	0.045		0.058			0.068	0.045				ND	0.07	-	-	0.06	0.06	-	ND	0.0569	0.0434	0.06	-	0.0734	0.0	1.0			
Chemical Oxygen Demand	33.6	ND	ND	9	54.1	ND	12	ND	ND	12.9	ND	ND	ND	ND	ND	ND	ND	ND	11.4	ND	ND	6	ND	30.3	ND	9.7	9.7	-	ND	17.2	11.9	17.5	21.6	15.8					
Chromium (Hexavalent)	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	0.0059	-	-	ND	0.0	0.05					
Chloride	11.2	8.78	8.4	7.5	5.7	6.6	10.2	8.1	6.5	6.5	6.2	6	7.4	6.9	5.43	5.94	5.66	6.7	7.1	5.52	4.96	6	5.7	5.3	4.4	6.3	5.3	4.82	4	6.3	4.4	5.1	4.0	8.8	250.0				
Color (PCU units)	100		5		200		25		15		60	18		5		60	80				5	12	-	-	14	16	-	10	5	5	-	-	10	81.7	15.0				
Nitrate-Nitrite	0.13	0.14	0.2	0.07	0.1	ND	0.1	0.09	ND	ND	0.18	0.19	0.16	0.098	0.113	ND	0.086	0.068	ND	0.055	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.066	ND	0.067	0.1	10.0
Nitrogen-Ammonia	0.14	ND	0.2	0.2	0.14	0.2	ND	ND	0.21	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.084	ND	0.17	0.1	0.032	0.1	0.07	0.14	0.1	2.0		
Phenols	ND	ND	0	0.02	ND	ND	ND	ND	ND	ND	ND	ND	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.247	ND	0.0099	0.0015	0.0016	0.0034	0.0043	0.0	0.001			
Sulfate	10.4	9.97	8.8	9.2	6.9	8	14.2	9.8	6.4	9.5	10.6	8.3	6.8	6.7	6.11	6.19	6.7	6.6	4.1	ND	ND	3.9	3.5	3.6	3.5	3.2	3.6	ND	8.5	9	5.8	5.1	4.7	12.7	250.0				
Total Organic Carbon (TOC)	2.8	1.7	5	2.4	15.8	1.9	3	2.3	2.8	2.7	2.3	2.2	3.2	2.1	1.4	1	2.2	2	ND	ND	2.4	2.4	2.2	2.2	2.2	2.2	543	2.21	3.5	ND	3.4	14.7	2.9	13.5					
Total Dissolved Solids (TDS)	197	149	190	192	220	163	255	220	334	157	148	179	163	193	144	193	188	178	175	260	190	161	167	164	172	168	183	163	204	197	195	157	181	198.5	500.0				
Total Hardness	187	120	157	161	170	150	171	154	159	135	143	122	394	140	150	140	150	136	167	140	170	119	56.8	127	141	135	157	108	170	150	150	150	113	162.7					
Total Kjeldahl Nitrogen (TKN)	ND	ND		1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	0.29	0.21	-	ND	0.16	0.17	0.42	0.14	0.23	0.6	0.6				
Turbidity (NTU units)	140	53	190	110	149	246	21.2	40.6	21	10.3	9.2	4.6	8	30	1	8	32	5	8.1	12.3	10.1	13	5.1	21.7	5.4	23	14.3	5.3	11.7	6.3	17.7	10.2	5.5	82.7	5.0				
Cyanide	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	-	-	ND	ND	-	-	ND	0.0	0.2	

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.  
\* = Applies to the sum of cis and trans-1,3-dichloropropene.  
\*\* = Guidance Value.  
ND values are included in calculation of Mean and are considered equal to zero.  
(Blank) or "-" = Not Analyzed.  
ND = Not Detected.  
J = Estimated.  
<DL = Detected below method detection limit. B = Analyte was detected in method blank.



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 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 CLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02	
<b>PARAMETER METALS (mg/L)</b>																																				
Aluminum	22				7.7				3.42				6.45				13.4				7.68			4.10		7.33		1.28		1.66		0.34		0.83		
Calcium	50.7	65.1	58.2	69.6	80.5	82.8	79.9	70.7	84.3	82.6	80.9	73.7	78.4	84.2	75.4	73.1	83.7	72.8	69.6	67.8	80.6		79.1	66.4	80.7	81.1	71.5	48.8	79.1	62.4	49.6	47.8	54.8	44.4	65.1	
Iron	49.5	4.6	0.55	1.24	13.6	2.15	1.6	1.2	6.8	9.02	9.63	5.92	11.5	14	6.26	16	22.1	15.6	16.9	20.2	15.6		3.88	7.79	6.49	8.5	6.74	1.72	5.24	3.11	0.73	0.77	0.53	1.59	1.68	
Magnesium	17.7	15.9	17.2	19.5	22.6	19.5	19.1	19.3	21.7	21.5	21	19.1	20.6	22	19.9	20.7	21.4	19.1	19	19.4	21.8		19.1	17.5	20.8	20.5	19.7	17.6	17.8	13.8	13.1	11.2	14.2	14.4	15.9	
Manganese	2.28	0.9	0.58	0.32	0.54	0.39	0.08	0.05	0.39	0.03	0.35	0.23	0.5	0.66	0.37	0.76	0.79	0.64	0.598	0.870	0.85		0.21	0.447	0.258	0.43	0.46	0.12	0.37	0.33	0.07	0.22	0.06	0.06		
Potassium	7.3	3.9	7.5	6.8	6.5	3.4	7.2	6.3	5.12	5.4	9.50	5.27	4.34	8.58	4.04	7.26	6.86	5.83	6.45	5.82	3.97		3.53	3.62	5.01	5.69	4.5	5.92	5.45	3.16	9.00	3.5	2.51	2.83	2.59	
Sodium	8.9	10.2	14.5	20.4	18.3	12.9	27.3	20.5	17.5	16.5	20.9	18.7	15.9	15.7	14.2	18.3	18	15	14.7	15.5	15.7		12.3	14.9	16.2	16	15.4	18.5	15.2	16.9	18.9	17.4	15.5	17.3	16.4	
<b>PARAMETER (mg/l) TOXIC METALS</b>																																				
Antimony	0.01				ND				ND				ND				ND				ND			0.028		ND		ND		ND		ND		ND		
Arsenic	ND				ND				0.003				0.004				ND				ND			0.004		ND		ND		ND		ND		ND		
Barium	0.15				0.08				0.08				0.1				0.14				0.12			0.087		0.13		0.12		0.1		0.1		0.15		
Beryllium					ND				ND				ND				ND				ND					ND		ND		ND		ND		ND		
Cadmium		<DL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND	0.01		ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	
Chromium (Total)	0.02	0	0	ND	0.02	ND	ND	ND	0.02	0.03	0.03	0.02	0.03	0.03	0.02	0.06	0.05	0.07	0.05	0.034	0.03		ND	0.024	0.044	0.34	0.03	ND	0.02	0.02	0.02	ND	ND	ND	0.003	
Copper	ND				0.01				ND				0.01				0.03				0.02			ND		0.02		ND		ND		ND		ND		
Lead	0.013	<DL	<DL	ND	0.005	ND	0.070	0.010	0.001	0.005	0.003	0.005	0.007	0.006	0.005	0.010	0.011	0.007	0.006	0.007	0.01		0	0.024	0.005	0.01	0	0	0	0	ND	0	ND	0.01	0.001	
Mercury					ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND		
Nickel	0.14				ND				ND				0.03				0.05				0.03			0.020		0.15		ND		ND		ND		ND		
Selenium	0.03	<DL	<DL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Silver					ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND		
Thallium	0.2				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND		
Zinc	0.11				0.06				0.03				0.05				0.09				0.07			0.054		0.07		0.03		0.03		0.03		0.03		
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																				
Alkalinity	207	224	226	209	244	233	299	236	237	221	236	231	189	227	221	244	235	225	232	237			224		234	235	171	189			139	136	187	139	165	
Biochemical Oxygen Demand	8				ND				6				ND				ND				19			3		8		3								
Boron	ND				0.04				ND				ND				ND				ND			ND		ND		0.06		ND		ND		ND		
Chemical Oxygen Demand	15.9	<DL	<DL	ND	ND	ND	ND	ND	12.2	ND	1.75	17.1	ND	ND	ND	ND	30.9	ND	14.3				ND	ND	ND	21.4	ND	ND		15.9	ND	ND	ND	ND	ND	
Chromium (Hexavalent)	<DL				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND		
Chloride	2.4		8	7.8	3	9	ND	ND	4.0	ND	1.9	ND	2.5	ND	2.08	1.87	2.15	2.69	2.07	2	ND		ND	ND	1.94	1.74	2.01	1.35				1.58	1.68		1.52	
Color (PCU units)	25				ND				30				5													30		250							75	
Nitrate-Nitrite	<DL	<DL	<DL	ND	0.05	ND	ND	0.1	0.19	1.3	0.14	6.89	0.13	0.43	0.09	0.08	0.49	0.2	0.09	0.252			ND		0.19	0.15	0.14	0.46				0.31	0.53	0.21	0.4	0.363
Nitrogen-Ammonia	<DL	<DL	<DL	ND	0.1	ND	0.3	ND	0.21	0.1	0.05	0.08	0.1	0.67	0.17	0.2	0.07	0.06	0.1	0.021			0.140		0.012	ND	ND	0.49				ND		ND	ND	ND
Phenols	0.002	ND	<DL	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.004	0.001	ND	ND	ND	ND	ND	0.054	0.03		0.01		ND	ND	ND	ND				ND	ND	ND	0.0042	
Sulfate	63.3	47.3	59.8	68	81	173	64.0	109	90	100	75	93	94	82	68	100	80	100	80	69			77		75	69	79	54				66	99	75	82.1	
Total Organic Carbon (TOC)	5.2	4	2.3	2	1	1.0	3.5	4.8	4.0	1.2	2.0	1.2	3	1.2	5.8	ND	1.1	2.7	14.5				2.4		1.9	1.2	1.4	2.5				1.2	1.6	1.7	1.3	1.1
Total Dissolved Solids (TDS)	305	310	316	331	373	375	429	369	395	348	371	377		383	319	306	317	344	340	327			326		331	338	288	282				270	238	281	241	285
Total Hardness	199	228	216	254	294	287	278	256	346	315	315	287		378	355	293	387	260	252	249			326		287	287	260	194				178	165	195	170	228
Total Kjeldahl Nitrogen (TKN)	<DL				0.9				ND				2.42			1.39					ND			2.98		ND		ND								
Turbidity (NTU units)	70	905	225	230	242	171	304	456	320	320	240	240	170	200	480	58	200	97	110	270			360		225	280	85	57			19		15	87	78	
Cyanide	0.01				ND				ND				ND				ND				ND			ND		ND		ND								



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 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 CLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD	
<b>PARAMETER METALS (mg/L)</b>																																				
Aluminum	0.4		4.33		1.1		ND		ND		0.24	ND		ND		ND	ND		ND		ND	-	-	ND	ND	-	ND	ND	ND	ND	-	0.0766	2.42			
Calcium	35.5	40.3	96.8	67.5	52.7	68.3	34.6	23.5	55.6	33	57.1	37.2	31	26.1	56.5	43.2	49.1	61.7	53.9	32		41.5	50	54.9	59.1	45.8	55.1	50.6	59.9	60.1	52.8	59.4	66.1	60.70		
Iron	<b>0.84</b>	<b>1.77</b>	<b>9.15</b>	<b>0.54</b>	<b>1.5</b>	<b>0.64</b>	0.07	0.06	0.16	0.07	<b>0.74</b>	0.11	0.22	0.089	0.165	0.06	0.05	ND	0.13	0.049		0.03	ND	ND	0.13	0.05	ND	0.162	ND	0.106	0.0518	0.0552	4.69	0.3		
Magnesium	10.3	12.4	14.4	8.7	15.5	15.8	25.4	16.6	19.1	17.1	19.1	18.1	21.3	14.8	17	17.9	17.8	16.4	19		14	15.1	15.3	15	14.6	14.7	13.4	15.2	15	13	14.3	15.9	17.31	35.0		
Manganese	0.04	0.06	<b>0.31</b>	0.06	0.08	0.06	ND	ND	0.11	ND	0.024	0.027	0.033	ND	0.215	ND	ND	0.12	0.12	ND		0.008	0.035	0.015	0.246	0.013	0.208	0.0524	0.126	0.0682	0.0486	0.05	0.183	0.27		
Potassium	3.2	3.71	4.33	5.48	3.7	3.8	2.7	3.6	2.5	3	3.3	2.6	3.9	3.72	2.09	2.24	2.45	2	2.4	2.2		1.8	2	ND	1.7	2.1	ND	ND	ND	1.92	2.18	1.78	2.32	3.99		
Sodium	14.9	15.6	13.4	18	17	17.2	17.8	18.3	15.9	15.2	15.9	16.2	15.8	16.7	14.2	13.5	14.1	13.1	11.4	10		9.9	9.3	9.5	9.4	10.5	10	10.6	10.4	9.93	8.54	9.46	11.1	14.90	20.0	
<b>PARAMETER (mg/l) TOXIC METALS</b>																																				
Antimony	ND		ND		ND		ND		ND		ND	ND		ND		ND	ND					ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	0.00	0.003	
Arsenic	0		ND		ND		ND		ND		ND	ND		ND		ND	ND					ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	0.00	0.025	
Barium	0.12		0.3		0.22		0.1		0.08		0.15	0.064		0.138			0.06	0.068				0.071	-	-	0.054	0.065	-	ND	ND	0.0415	0.0403	-	0.0405	0.09	1.0	
Beryllium	ND		ND		ND		ND		ND		ND	ND		ND		ND	ND					0.0002	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	0.00		
Cadmium	ND	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.005	
Chromium (Total)	ND	0.01	0.02	ND	0.02	0.01	ND	ND	ND	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	-	-	ND	ND	-	ND	ND	ND	-	0.0032	0.02	0.05	
Copper	ND		0.01		ND		ND		ND		ND	ND		ND		ND	ND					ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	0.00	0.2	
Lead	0	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001		0.0009	ND	ND	ND	ND	0.0039	ND	0.0013	ND	ND	0.00	0.025			
Mercury	ND		ND	ND	ND	<b>0.01</b>		ND		ND	ND		ND		ND	ND						ND	-	-	ND	ND	-	ND	ND	ND	7E-05	-	ND	0.00	0.0007	
Nickel	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	-	ND	ND	-	ND	ND	ND	0.0012	-	ND	0.01	0.1	
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	0.00	0.0	
Silver	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	0.00	0.05	
Thallium	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	0.01	0.0005	
Zinc	0.02		0.03		ND		ND		ND		0.015	0.016		0.01		0.015	ND					0.007	-	-	0.007	ND	-	ND	0.028	0.0016	0.0075	-	0.0051	0.02	2.0	
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																				
Alkalinity			145	34	146	139		355	ND	158		181			159	179		257	218	190	ND	210	205	216	216	205	210	187	-	243	282	207	232	196.5		
Biochemical Oxygen Demand			ND														0.031		ND	ND		ND	-	-	-	ND	ND	ND	-	1	1	ND	ND	2.0		
Boron	ND		ND		ND		ND		ND		0.03	0.03		0.027			0.033		ND	ND	ND	ND	ND	ND	ND	ND	0.04	-	ND	ND	0.0215	0.0195	-	0.0225	0.0	1.0
Chemical Oxygen Demand			ND	13	92.1	ND	ND	ND	ND	ND					ND	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	5.2	-	ND	13	24.6	17.5	27.7	5.9			
Chromium (Hexavalent)			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	-	ND	ND	-	-	0.0086	-	-	ND	0.0	0.05		
Chloride			1.5	ND	1.5	1.6	ND	1.4	1.6	1.4					1.42	1.94	1.62	1.7	1.7	1.91	15.1	ND	2.7	2	2.1	2.2	2.3	2.04	-	2.7	2.2	2.0	2.3	2.2	250.0	
Color (PCU units)			5		<b>120</b>																ND	7	-	-	13	14	-	5	<b>20</b>	10	-	5	26.3	15.0		
Nitrate-Nitrite			0.09	0.05	0.05	ND		ND	ND	ND					0.285		0.106	ND	ND	0.095	-	ND	ND	ND	ND	ND	ND	ND	ND	0.086	0.55	ND	ND	0.3	10.0	
Nitrogen-Ammonia			ND	ND	0.13	ND	ND	ND	ND	ND					0.116		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11	0.12	0.024	0.051	0.02	0.047	0.1	2.0	
Phenols			ND		<b>0.02</b>	ND	ND	ND	ND	<b>0.01</b>	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>0.0065</b>	<b>0.0043</b>	<b>0.0074</b>	0.0	0.001		
Sulfate			49	48.4	55.4		53.8	50.7	44.7						37.9	33.3	33.6	30.4	22	19	16.9	17	16.1	15.6	13.6	15.1	14.4	12.4	-	18.2	13.4	12.8	14.6	56.1	250.0	
Total Organic Carbon (TOC)	ND	ND	ND	1.3	20	ND	ND		ND	1.9	11.1	ND	4.9	1.3	1.3	ND	1	ND	ND	ND		ND	1.1	ND	ND	1.2	ND	ND	2.3	0.085	4.5	10.7	0.81	2.3		
Total Dissolved Solids (TDS)			305		259	215		229	278	232					255	245		238	215	350	240	215	223	229	228	211	231	209	-	249	225	202	216	283.3	500.0	
Total Hardness			301	205	195	236	191	127	217	153		167			210	180	200	224	202	160		161	187	200	209	175	206	132	200	240	190	190	187	231.0		
Total Kjeldahl Nitrogen (TKN)			ND		1.8	ND		ND	ND						ND	ND	ND	ND	ND	0.597	ND	ND	-	-	ND	ND	-	ND	0.98	0.14	0.59	ND	ND	0.4		
Turbidity (NTU units)			<b>74</b>	<b>67</b>	<b>129</b>	<b>415</b>		<b>21.7</b>		<b>24.1</b>		<b>6.3</b>	<b>16.7</b>	<b>22</b>	<b>3</b>	<b>2</b>	<b>42</b>	<b>6</b>	<b>5</b>	<b>6.2</b>	<b>50.1</b>	3.2	3	0	4.4	ND	<b>5.3</b>	3.3	<b>9.9</b>	1.8	<b>25</b>	<b>6.3</b>	<b>5.5</b>	131.1	5.0	
Cyanide					ND		ND		ND		ND		ND		ND	0.16						ND	-	-	ND	ND	-	-	ND	ND	-	-	ND	0.0	0.2	

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.  
 \* = Applies to the sum of cis and trans-1,3-dichloropropene.  
 \*\* = Guidance Value.  
 ND values are included in calculation of Mean and are considered equal to zero.  
 (Blank) or "-" = Not Analyzed.  
 ND = Not Detected.  
 J = Estimated.  
 <DL = Detected below method detection limit. B = Analyte was detected in method blank.



SEEP  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
CLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02		
<b>PARAMETER METALS (mg/L)</b>																																					
Aluminum	ND								0.06				0.2				0.87							ND		0.23				0.09	ND						
Calcium	12.8	40	32.8	41.6		29.0	35.3	42.1	26.7	33.8	33.2	39.3	38.2	35.7	28	28.1	40.6	29	29.9	39.5			45.8	29.6	32.4	27.6	32.2	37.3		40.4	49.2	39.2	41.6	38		54.2	
Iron	3.62	17.1	9.6	24.7		8.94	8.2	57.7	5.53	8.32	16.1	14.0	22.1	9.8	6.49	8.4	47.9	10.5	9.41	16.7			16.4	7.44	8.89	23.8	11.1	18.7		12.1	11.8	6.2	17.7	19.1		12.1	
Magnesium	4	9	10.3	13.6		9.0	10.9	14.3	8.26	10.1	10.7	12.9	12.8	11.6	9.09	8.86	12.6	8.86	9.17	13.5			14.4	8.82	10.9	8.98	10.7	11.2		12.8	16.2	12.7	14.3	12.5		14.6	
Manganese	3.85	11.3	9.2	9.65		6.3	9.48	10.8	5.52	8.82	8.02	9.59	8.5	8.4	5.74	6.53	8.82	6.89	6.97	8.63			10.8	6.39	6.59	6.23	6.24	8.21		6.68	9.27	7.13	8.03	7.73		11.3	
Potassium	2	3.2	2.4	3.3		3.2	4.5	4.2	3.34	3.78	2.22	2.92	2.63	3.23	3.04	2.53	2.94	2.9	2.6	3.20			3.89	2.39	2.85	2.56	2.94	2.76		3.4	3.94	3.23	3.39	2.93		4.3	
Sodium	4	10.3	7.1	8.2		8.3	8.8	10.1	7.22	7.23	6.31	6.64	7.92	6.71	6.43	6.12	9	6.11	5.25	7.41			8.17	4.80	6.69	5.12	6.37	5.46		7.08	9.23	6.51	7.34	6.08		8.06	
<b>PARAMETER (mg/l) TOXIC METALS</b>																																					
Antimony	ND								ND				ND				0.03							0.028	ND				ND	ND							
Arsenic	<DL								0.005				0.019				0.040						0.009	0.02					0.01	0.027							
Barium	0.05								0.11				0.18				0.22						0.131	0.14					0.21	0.172							
Beryllium		ND							ND				ND				ND												ND	ND							
Cadmium		<DL	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (Total)	ND								ND				0				0.02																				
Copper	ND								ND				ND				ND																				
Lead	ND		0.003	ND		ND	0.030	0.014	ND	ND	0.002	0.001	0	0.007	0.002	0.002	0.005	0.001	ND	0.007			0.002	0.001	0.006	0.005	0	ND	0	0	ND	0.005	0		0.004		
Mercury	ND								ND				ND				ND																				
Nickel	0.11								ND				0.03				0.05							0.023	0.03				0.04	0.032							
Selenium	ND	<DL							ND				ND				ND																				
Silver	ND								ND				ND				ND																				
Thallium	<DL								ND				ND				ND																				
Zinc	ND								0.003				0.02				0.02															0.03	ND				
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																					
Alkalinity	102	190	167	176		168	204	194	112	143	86.4	224	169	173	124	125	213	166	155	211			204	80.0	160	104	139	169		190	227	177	160	182		192	
Biochemical Oxygen Demand	3								ND				ND				4								ND	ND					ND	ND					
Boron	ND								ND				ND				ND							0.074	0.07					0.11	0.113						
Chemical Oxygen Demand	4.5	18	20	9		24.0	22.0	22.0	27.1	16.2	21.8	14.4	ND	21	14.4	ND	46.1	ND	ND	15.3			18.4	ND	ND	ND	ND		17.4	ND	23.6	ND	15.8		23.6		
Chromium (Hexavalent)	ND								ND				ND				ND																				
Chloride	6.1	13	15	15		13.0	20.0	17.0	7.14	8.5	11	12.8	12.8	10.4	7.34	7.71	16.8	7.71	7.69	11.6			14	7.72	10.4	5.54	8.17	7.24		12.2	14.9	7.56	9.45	6.97		10.9	
Color (PCU units)	45								65.0				75				60								150	40				25	300						
Nitrate-Nitrite	0.1	<DL	<DL	ND		0.22	ND	ND	0.52	1.3	1.52	0.18	ND	0.63	ND	0.11	ND	ND	ND	ND			1.9	ND	ND	ND	1.47	ND		0.11	3.06	0.09	0.191	ND	0.289		
Nitrogen-Ammonia	1.5	<DL	<DL	0.3		1.5	3.1	7.4	2.93	3.5	3.07	3.55	3.61	2.87	1.21	2.44	3.74	2.76	2.93	3.02			2.61	2.24	2.59	2.31	2.18	3.06		1.86	3.11	2.25	2.63	2.48		2.82	
Phenols	0.003	<DL	ND	0.006		ND	ND	ND	0.009	0.026	0.010	0.017	0.023	0.001	0.006	0.003	0.015	0.012	0.006	0.021			0.035	0.012	0.012	0.006	0.01	0.01		0.01	0.03	0.01	0.0099	0.02		0.0199	
Sulfate	<DL	5.1	8	8		14.0	18.0	ND	16.0	15.0	45	7.6	15	11	9	14	15	17	8.3	12			40	16	13	8.5	25	10		13	11	7.9	25	11	14.7		
Total Organic Carbon (TOC)	3.7	8	8.1	6		9.0	7.0	16.0	6.0	11.4	5.2	7	8.5	11.5	3.6	4.8	8.8	4.1	4.4	6.6			9.1	4.3	4.2	6.0	4.5	5.8		5.7	9.5	4.6	4.5	5.1		6.9	
Total Dissolved Solids (TDS)	132	200	211	231		165	200	195	129	172	189	230	178	224	128	148	262	179	171	220			262	161	1700	150	185	179		206	247	207	200	224		240	
Total Hardness	48.5	137	124	160		110	133	164	111	144	142	168	186	198	164	123	261	109	112	154			174	110	126	106	124	139		154	190	150	163	146		195	
Total Kjeldahl Nitrogen (TKN)	1.8								2.14				4.17				5.91								2.89	2.54				3.83	5.31						
Turbidity (NTU units)	5	122	40.2	120		15.5	5.0	345	8.9	3.1	320	18	21	30	5.1	7.5	170	7	11	14			18	7	27	21	11	16		26	2.6	5.4	35	7		23	
Cyanide	<DL								ND				ND				ND																				





SEEP  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
CLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD							
<b>PARAMETER METALS (mg/L)</b>																																										
Aluminum			ND	ND	ND			0.44		ND	ND					ND	0.32			0.19	ND	-	-	ND	ND	-	ND	ND	0.101	0.056	-	0.0779	0.07									
Calcium	21.9	41.2	33.3	35.4	14.8	68	45.4	46.8	38.6	48.9	41.8	46.8	55	53.9	51.9	53.6	22.3	47.7	48	49	39	46.8	47	49.8	50.3	28.5	54.5	54.4	47.3	48.8	57.5	52.4	40.38									
Iron	79.6	10.8	7.87	12.1	3.1	17.1	14.1	47.1	9.4	1.8	11.4	8.7	14	24.3	15.7	18.2	6.2	10.6	15	25	12.1	7.69	14.1	13.8	20.7	0.14	15.7	10.1	13.4	9.27	15.9	14.3	17.12	0.3								
Magnesium	6.57	11.8	9.8	10.6	4.1	23.1	13.5	14.2	12.4	16.2	13.2	15.4	18.9	17.5	17	18	6.6	15.9	16	17	13.8	17.1	16.4	15.4	1.7	8.6	16.8	17.5	13.9	14.7	17.8	16.6	12.87	35.0								
Manganese	4.28	7.93	6.03	7.4	2	12.6	8.5	9.7	7.6	7.2	8.7	8.4	10.7	11.5	10.8	8.7	3.6	9.5	10	8.7	8.59	8.93	10.3	9.3	10.5	0.125	11	9.12	10.9	9.25	9.69	10.6	8.25	0.3								
Potassium	2.65	3.34	2.53	3.4	2	4.7	3.5	3.8	3	3.5	3.1	3.2	3.6	3.46	3.29	3.19	2.3	3.6	2.9	2.6	2.8	3.1	3.2	2.8	3.3	ND	ND	ND	ND	5	4.39	3.77	4.24	3.06								
Sodium	3.89	5.93	4.99	5	2	10.5	6.2	6.4	5.4	7.2	6	6.8	8	6.6	5.8	7	2.8	7.1	5.5	ND	ND	5.3	6.5	5	5.6	6.3	1.5	6.19	ND	6.59	6.04	6.16	6.64	6.27	20.0							
<b>PARAMETER (mg/l) TOXIC METALS</b>																																										
Antimony			ND	ND	ND			ND	ND	ND	ND					ND	ND	-	-	ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	0.00	0.003								
Arsenic			ND	0.02	0.01			0.06		ND	0.012			0.017		0.022	ND			0.015	-	-	0.021	0.039	-	0.0177	0.0188	0.0164	0.02	-	0.0288	0.01	0.025									
Barium			0.16	0.13	0.25			0.2		0.18	0.15			0.2		0.19	0.075			ND	0.157	-	-	0.185	0.21	-	ND	ND	0.15	0.182	-	0.177	0.11	1.0								
Beryllium			ND	ND	ND	ND		ND		ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	0.0003	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	0.00	0.00								
Cadmium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.005							
Chromium (Total)			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	-	-	0.001	0.002	-	ND	ND	0.0066	0.0036	-	0.0107	0.00	0.05							
Copper			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.2							
Lead	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	ND	ND	ND	0.0015	ND	0.0024	ND	0.00	0.025							
Mercury			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	ND	0.0033	-	ND	0.00	0.0007							
Nickel			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.004	-	-	0.004	0.004	-	ND	ND	0.0059	6E-05	-	0.0031	0.01	0.1							
Selenium			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	-	-	0.005	0.008	-	ND	ND	ND	ND	-	ND	0.00	0.01							
Silver			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	0.002	0.004	-	ND	ND	ND	ND	-	ND	0.00	0.05							
Thallium			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	0.0141	ND	ND	0.0042	-	ND	0.00	0.0005							
Zinc			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	ND	0.0028	-	ND	0.00	2.0							
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																										
Alkalinity		85.7	180	150	132	46	261	178	174	172	232	128	245	245	181	207	218	144	228	210	210	ND	225	223	227	225	92.7	236	223	217	231	201	231	175.3								
Biochemical Oxygen Demand			4		4.4		2.8		ND		3.4	3.2		4.6			ND	ND		7	ND	6.8	-	-	7.9	5.1	ND	ND	ND	15.1	3.5	ND	2.2									
Boron			0.06		0.07		0.11		0.08		0.07	0.067		0.072			0.059	0.044			ND	0.07	-	-	0.05	0.07	-	ND	ND	0.0687	0.0811	-	0.0852	0.0	1.0							
Chemical Oxygen Demand		11.5	9	ND	17.1	11.4	16.2	23.3	23.4	ND	ND	13.8	10	ND	16.9	ND	15.8	ND	16.8	ND	62	24.4	11.2	6.7	ND	17.3	7.5	-	35.9	46.3	33	58.4	44.1	14.7								
Chromium (Hexavalent)			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	0.0099	-	-	ND	0.00	0.05								
Chloride		3.26	7.9	5	4.8	1.5	15.9	6.5	8.8	5.6	8.9	4.8	7.4	8.1	7.02	6.4	7.28	4	6.6	6.41	5.59	4.6	6	4.9	3.8	6.3	ND	4.81	6.1	7.9	4.8	6.1	4.7	8.4	250.0							
Color (PCU units)			10		10		100		80		50	50		25			30	80		5	110	-	-	34	38	-	5	10	10	-	-	125	51.1	15.0								
Nitrate-Nitrite		0.21	ND	0.09	ND	0.19	ND	ND	ND	0.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	10.0						
Nitrogen-Ammonia		1.47	2.8	2.3	1.4	0.76	3.4	1.9	1.6	2.1	1.9	2.4	2.3	2.71	2.68	1.96	1.9	0.92	3.5	2.84	1.98	2.61	2.68	2.32	2.65	2.98	ND	3.16	2.4	2.7	3.3	3.1	3.0	2.4	2.0							
Phenols		0.0052	0.002	ND	ND	0.02	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0134	0.0089	ND	ND	0.0128	0.0094	0.0151	0.0172	0.0172	0.0079	0.0	0.001
Sulfate		7.44	7.9	8.5	9.2	5.9	7	7.2	6.3	7.7	10.9	5.2	8	7.5	7.25	7.66	8.08	4.8	6.3	ND	ND	5.8	7	5.2	5.8	5.5	22.6	5.44	8.3	3.9	5.2	3.7	5.6	10.3	250.0							
Total Organic Carbon (TOC)		2.8	6.9	3	3	2.6	8	3.9	6.2	4.2	3.9	4.6	4.9	5.2	3.6	2.9	4.1	4.8	4.5	ND	3.9	4.4	4.7	5	4.5	6.3	2.1	3.95	7.9	6.3	5.9	18.5	5.4	5.8								
Total Dissolved Solids (TDS)		126	208	180	194	67	331	208	129	191	215	195	235	271	246	256	257	94	211	230	290	220	227	250	236	232	128	263	238	213	237	262	217	228.3	500.0							
Total Hardness		82.2	151	123	132	53.8	265	169	175	147	189	159	180	220	210	200	210	82.9	184	190	190	154	187	185	188	196	107	220	240	180	250	250	200	161.8								
Total Kjeldahl Nitrogen (TKN)			3.6		2.8		4.2		2		3.3	2.8		3.11			2.57	1.4			2.52	2.9	3.04		-	2.78	3.23	-	3.02	2.2	3.3	3.9	2.9	2.4								
Turbidity (NTU units)		4.7	15	10	25.9	7.6	21	26.3	15.6	9.7	8.2	3.6	4.5	10	31	3	1	4	5.7	0.1	26.5	0.9	14	0	4.2	19.2	2.2	1.9	8.9	3.5	28.5	15.3	17.7	31.1	5.0							
Cyanide			ND		ND		ND		ND		ND	ND		ND		ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	-	-	ND	0.0	0.2								

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.  
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 <DL = Detected below method detection limit.

STREAM  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02						
<b>PARAMETER VOLATILES (ug/L)</b>																																									
Acetone																																									
Acrylonitrile																																									
Benzene	<DL	ND	<DL			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Bromobenzene	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Bromochloromethane	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Bromodichloromethane	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Bromoform	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Bromomethane	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
2-Butanone																																									
n-Butylbenzene	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
sec-Butylbenzene	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
tert-Butylbenzene	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Carbon disulfide																																									
Carbon tetrachloride	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorobenzene	ND	ND	<DL			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Chloroethane	ND	ND	<DL			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Chloroform	ND	ND	<DL			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Chloromethane	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
2-Chlorotoluene	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
4-Chlorotoluene	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dibromochloromethane	ND	ND	ND			ND	ND		ND		ND																														
1,2-Dibromo-3-chloropropane	ND	ND	ND			ND	ND		ND																																
1,2-Dibromoethane	ND	ND	ND			ND	ND		ND																																
Dibromomethane	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-butene																																									
Dichlorodifluoromethane	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	0.45	0.54			ND	ND		ND		1.0				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	ND	ND	<DL			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	ND	ND	<DL			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene	ND	0.68	1.63			ND	ND		ND		1.0				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloropropane	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3-Dichloropropane	ND	ND	0.10			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,2-Dichloropropane	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloropropene	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,3-Dichloropropene	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Hexanone																																									
Hexachlorobutadiene	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iodomethane																																									
Isopropylbenzene	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3.62	ND	<DL			1.0	3.0		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-Methyl-2-pentanone																																									
Naphthalene	ND	ND	<DL			ND	ND		ND		ND				ND					ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND			ND	ND		ND	</																															

STREAM  
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ISCHUA LANDFILL  
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02			
<b>PARAMETER METALS (mg/L)</b>																																						
Aluminum	ND								31.1																	0.15				0.12		ND						
Calcium	6.1	13.4	21.7			14.4	13.5		28.8	14.2	ND			19.9	9.94	26.6		20	18.3					16.3		14.6	13.6	21.5		13.4	25.1	17.4	33.4	22.3		17.3		
Iron	0.06	0.8	2.4			0.07	ND		51	0.54	71			0.03	0.2	0.79		2.03	0.15					0.05		0.19	0.44	0.32		0.29	0.65	0.14	0.67	0.89		0.15		
Magnesium	2	2.7	6.8			3.7	3.9		11.6	3.79	132			5.8	2.64	7.07		5.83	5.04					4.26		3.98	3.02	6.02		3.43	6.52	4.65	9.26	6.8		4.78		
Manganese	0.26	0.33	2			ND	0.01		23.2	0.72	31.5			0.35	0.06	0.25		0.94	0.28					0.01		0.05	0.06	0.83		0.1	1.11	0.08	0.95	0.59		0.02		
Potassium	1.1	0.9	1.7			1.6	1.5		5.45	1.71	5.86			1.59	1.26	1.43		1.85	1.47					1.47		1.26	1.71	1.71		1.41	1.86	1.5	2.21	1.64		1.26		
Sodium	ND	1.5	5.4			2.9	2.6		5.5	1.94	4.83			2.62	1.14	4.04		3.6	2.78					2.15		1.93	0.97	2.95		1.31	2.98	1.99	5.2	3.37		2.39		
<b>PARAMETER (mg/l) TOXIC METALS</b>																																						
Antimony	ND								0.03																	ND				ND		ND						
Arsenic	<DL								0.024																					ND		ND						
Barium	ND								0.37																				0.03		0.04							
Beryllium	ND								0																					ND		ND						
Cadmium	ND	ND	ND			ND	ND		ND	ND	ND			ND	ND	ND		ND	ND					ND		ND	ND		ND	ND	ND	ND	ND	ND	ND		ND	
Chromium (Total)	ND								0.04																				ND		ND		ND		ND			
Copper	ND								ND																					ND		ND		ND				
Lead	ND	<DL	<DL			ND	0.040		0.018	ND	0.007			0.002	ND	0.002		0.006	ND					ND		0.002	ND	ND		ND	0	ND	0.01	0		ND		
Mercury	ND								ND																					ND		ND		ND				
Nickel	0.15								0.097																					ND		ND		ND				
Selenium	ND	ND				ND			ND																					ND		ND		ND				
Silver	ND								ND																					ND		ND		ND				
Thallium	<DL								ND																					ND		ND		ND				
Zinc	ND								0.13																					ND		ND		ND				
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																						
Alkalinity	64	57	85			28	38		106	44.3	97.6			55	30.2	96.3		63.6	63.9					39.8		44.9	31.9	93		24.6	157	50.7	117	70		49.3		
Biochemical Oxygen Demand	4								ND																					ND		ND		ND				
Boron	ND								0.07																					0.06		0.09						
Chemical Oxygen Demand	10.1	11	11.4			ND	ND		46	ND	8.7			ND	ND	ND		ND	ND					ND		ND	34.6	ND		10.6	ND	ND	10.7	ND		ND		
Chromium (Hexavalent)	ND								ND																					ND		ND		ND				
Chloride	ND								ND									4.44	3.78					ND		1.97	ND	3.76		2.44	5.85	2.06	10.3	4.02		2.74		
Color (PCU units)	19								50																				100		20		45					
Nitrate-Nitrite	0.3	<DL	<DL			ND	0.19		1.8	0.13	0.72			0.52	0.13	0.1		2.28	0.31				0.500		0.442	ND	0.41		1.86	ND	0.25	0.86	0.58		0.34			
Nitrogen-Ammonia	<DL	<DL	<DL			0.2	0.1		0.04	0.54	1.02			0.54	0.15	0.53		0.32	0.32					0.06		0.1	0.03	0.51		ND	0.13	0.12	ND	0.3		0.29		
Phenols	0.001	ND	<DL			ND	ND		ND	ND	ND			ND	0.007	0.006		ND	ND				ND		0.005	0.02	ND		ND	ND	ND	ND	ND	ND		ND		
Sulfate	22.1	5.2	16.2			40	15.0		13	15	23			19	8	13		68	7.1				13		14	16	8.1		21	30	18	23	13		14.8			
Total Organic Carbon (TOC)	5.6	5	4			3	2.0		8.9	5.1	4.6			4	3.8	5.2		3.4	3.0				3.9		2.9	2.4	3.6		3.8	4.3	2.9	4.9	3		3.2			
Total Dissolved Solids (TDS)	110	254	144			110	89.0		76	48	128			123	24	126		140	82				86		58	100	110		81	103	87	151	118		96			
Total Hardness	23	44.6	82			51	51.0		101	55	127			116	64	112		73.9	66.4				58.2		52.8	46.4	78.5		47.6	89.5	62.6	122	83.7		62.9			
Total Kjeldahl Nitrogen (TKN)	0.4								1.5																				1.55		ND		3.42					
Turbidity (NTU units)	<DL	18	9			0.4	1.0		340	7.9	175			5	2.6	0.52		12	2.8				1		0.56	3.4	4.3		5.5	0.59	0.81	2.7	2.3		0.38			
Cyanide	0.013								ND																				ND		ND		ND					



STREAM  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

	09/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD	
<b>PARAMETER METALS (mg/L)</b>																																				
Aluminum					ND		ND		2.3		1	0.48		0.439				1.3			0.31	1.64	-	-	0.15	0.15	-	0.398	ND	0.533	0.233	-	0.139	1.35		
Calcium		8.01		21.2	29.6	7.5	29.9	22.8	25.2	17.1	21.2	18	34.5	40.4	43.1	35.9		10.7	22.1	36	42	34	29.4	33	24.2	25.8	27.9	41.3	33.7	19.3	32.4	33.8	28.6	23.21		
Iron		0.46		0.74	0.05	0.66	0.06	0.18	2.5	1.2	1	0.42	0.06	0.405	0.407	0.787		1	0.22	0.52	0.47	1.74	0.24	0.18	0.28	0.47	ND	0.524	ND	0.963	0.319	0.655	0.224	2.82	0.3	
Magnesium		2.12		5.68	8	1.8	8.6	6.2	7.5	4.7	5.7	5.2	10.3	12	13.1	11.4		2.7	6.6	12	12	11.1	9.7	11.1	6.9	7.5	8.8	10.3	9.52	5.46	9.45	9.63	7.74	9.21	35	
Manganese		0.04		0.45	0.33	0.13	0.08	0.05	0.54	0.34	0.15	0.06	0.03	0.116	0.222	0.506		0.1	0.075	0.27	0.13	0.497	0.111	0.101	0.108	0.192	0.012	0.554	ND	0.198	0.082	0.378	0.242	1.32	0.3	
Potassium		1.86		1.51	2.4	1.4	2	1.7	2.2	1.4	2.1	1.6	1.8	2.55	2.38	2.58		1.4	1.6	2	1.7	2.2	ND	ND	1.5	1.8	ND	ND	ND	1.9	2.47	2.95	2.45	1.75		
Sodium		1.36		2.01	3.4	ND	5.2	2.5	3	1.6	2.3	1.8	5	6	5	4.3		ND	1.9	4.6	ND	4.2	3.2	3.2	1.6	1.7	3	ND	ND	3.18	3.52	3.61	2.29	2.71	20.0	
<b>PARAMETER (mg/l) TOXIC METALS</b>																																				
Antimony					ND		ND		ND		ND		ND					ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	0.00	0.003	
Arsenic					ND		ND		ND		ND		ND					ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	0.00	0.025	
Barium					ND		0.02		0.02		0.019	0.01		0.027				0.012			ND	0.027	-	-	0.01	0.011	-	ND	ND	0.011	0.015	-	0.01	0.02	1.0	
Beryllium					ND		ND		ND		ND		ND					ND			ND	4E-04	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	0.00	0.00	
Cadmium			ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.005	
Chromium (Total)					ND		ND		ND		ND		ND					ND			ND	0.001	-	-	ND	ND	-	ND	ND	ND	-	0.0031	0.00	0.05		
Copper					ND		ND		ND		ND		ND					ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	-	0.0046	0.00	0.2		
Lead			ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	0.001	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.00	0.025	
Mercury					ND		ND		ND		ND		ND					ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	7E-05	-	ND	0.00	0.0007	
Nickel					ND		ND		ND		ND		ND					ND			ND	ND	-	-	ND	ND	-	ND	ND	0.001	ND	-	0.0013	0.01	0.1	
Selenium					ND		ND		ND		ND		ND					ND			ND	ND	-	-	ND	0.003	-	ND	ND	ND	ND	-	ND	0.00	0.01	
Silver					ND		ND		ND		ND		ND					ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	0.00	0.05	
Thallium					ND		ND		ND		ND		ND					ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	0.00	0.0005	
Zinc					ND		ND		ND		ND		ND					ND			ND	0.005	-	-	ND	ND	-	ND	ND	0.001	0.003	-	ND	0.00	2.0	
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																				
Alkalinity		21.2		65	111	12.2	85.1	69.2	55.1	48.3	67.8	59	132	160	172	145		40.7	71.5	130	150	144	114	141	86.8	90.9	100	136	96	60.2	134	98.6	103	83.1		
Biochemical Oxygen Demand					ND		ND		ND		ND		ND		ND			ND			ND	ND	-	-	ND	ND	ND	ND	ND	1.2	1	7.7	ND	0.6		
Boron					ND		0.06		ND		0.035	ND		0.069				ND			ND	0.07	-	-	ND	0.04	-	ND	0.018	0.041	-	0.0288	0.0	1.0		
Chemical Oxygen Demand			ND		9	ND	ND	ND	ND	15.4	ND	ND	ND	ND	ND	12.6		14.6	16.5	ND	ND	9.5	8.1	14.3	9	28.6	11.3	-	ND	23.4	14	21.6	0.0441	6.6		
Chromium (Hexavalent)					ND		ND		ND		ND		ND					ND			ND	ND	-	-	ND	ND	-	ND	0.007	-	-	ND	0.0	0.05		
Chloride			ND		1.9	3.2	ND	10.7	2.3	3.3	1.1	2	1.5	7.6	4.7	6.24	4.38		ND	1.3	2.61	4.26	2.8	3.8	2.5	ND	ND	2.9	2.47	ND	2.7	3.3	2.9	1.3	2.8	250
Color (PCU units)					5		10		25		30	20		ND				80			5	12	-	-	34	105	-	15	10	15	-	-	30	20.3	15.0	
Nitrate-Nitrite		0.22		0.58	0.17	0.21	ND	0.17	0.26		0.23	0.24	ND	0.107				ND	ND	0.228	0.098	ND	ND	ND	ND	ND	ND	ND	0.23	ND	0.28	0.2	0.39	ND	0.3	10.0
Nitrogen-Ammonia			ND		0.1	ND	0.13	ND	ND	ND	0.13	ND	0.12	ND	ND	ND	0.28		ND	ND	ND	ND	ND	ND	ND	ND	0.051	ND	ND	0.1	0.084	0.028	0.058	0.1	2.0	
Phenols			ND		0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		ND	ND	ND	ND	ND	ND	0.007	ND	0.006	0.009	0.002	0.006	0.005	0.009	0.0	0.001
Sulfate		6.41		15	8.8	3.8	20	12.8	9.1	8.6	17.6	8.3	5.6	4.9	4.65	8.21		4.5	10.1	ND	ND	5.2	11.6	7.4	7.5	5.5	10.1	6.65	41.2	5.9	8.7	7.0	6.9	13.3	250	
Total Organic Carbon (TOC)		2.3		2.8	2.3	2.6	2.7	2.6	2.7	3.6	3.2	2.7	3.4	3.1	1.9	1.4		6.1	2.4	ND	4	3.5	3.6	3	6.1	10.3	3	3.32	4	ND	4.9	15.5	7.5	3.9		
Total Dissolved Solids (TDS)		62		115	160	41	167	108	72	164	104	90	195	168	166	144		43	80	160	170	154	134	152	112	120	128	150	148	98	148	143	113	118.0	500	
Total Hardness		28.7		76	ND	26.1	110	82.4	93.8	62	76.4	66.3	ND	150	160	140		37.7	82.2	140	150	131	114	128	88.7	95.3	106	104	140	60	116	120	80	83.7		
Total Kjeldahl Nitrogen (TKN)					ND		ND		ND		ND		ND					ND			ND	ND	-	-	0.49	0.86	-	0.17	0.18	0.48	0.15	0.21	0.31	0.3		
Turbidity (NTU units)		8.8		15	2	41.7	1.3	9.2	23	17.1	7.5	3	3.9	21	0	6		9	4.3	10.2	6.9	38.4	1.7	0	7	-	0.76	17.2	2	13.6	46	40.3	1.3	18.0	5.0	
Cyanide					ND		ND		ND		ND		ND		0.027			ND			ND	ND	-	-	ND	ND	-	-	ND	ND	-	-	ND	0.0	0.2	

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.  
 \* = Applies to the sum of cis and trans-1,3-dichloropropene.  
 \*\* = Guidance Value.  
 ND values are included in calculation of Mean and are considered equal to zero.  
 (Blank) or "-" = Not Analyzed.  
 ND = Not Detected.  
 J = Estimated.  
 B = Analyte was detected in method blank.  
 <DL = Detected below method detection limit.

DUPLICATE  
 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 OLEAN, NEW YORK

PARAMETER VOLATILES (ug/L)	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02			
Acetone																																						
Acrylonitrile																																						
Benzene																																						
Bromobenzene																																						
Bromochloromethane																																						
Bromodichloromethane																																						
Bromoform																																						
Bromomethane																																						
2-Butanone																																						
n-Butylbenzene																																						
sec-Butylbenzene																																						
tert-Butylbenzene																																						
Carbon disulfide																																						
Carbon tetrachloride																																						
Chlorobenzene																																						
Chloroethane																																						
Chloroform																																						
Chloromethane																																						
2-Chlorotoluene																																						
4-Chlorotoluene																																						
Dibromochloromethane																																						
1,2-Dibromo-3-chloropropane																																						
1,2-Dibromoethane																																						
Dibromomethane																																						
1,2-Dichlorobenzene																																						
1,3-Dichlorobenzene																																						
1,4-Dichlorobenzene																																						
trans-1,4-Dichloro-2-butene																																						
Dichlorodifluoromethane																																						
1,1-Dichloroethane																																						
1,2-Dichloroethane																																						
1,1-Dichloroethene																																						
cis-1,2-Dichloroethene																																						
trans-1,2-Dichloroethene																																						
1,2-Dichloropropane																																						
1,3-Dichloropropane																																						
2,2-Dichloropropane																																						
1,1-Dichloropropene																																						
cis-1,3-Dichloropropene																																						
trans-1,3-Dichloropropene																																						
Ethylbenzene																																						
2-Hexanone																																						
Hexachlorobutadiene																																						
Iodomethane																																						
Isopropylbenzene																																						
p-Isopropyltoluene																																						
Methylene chloride																																						
4-Methyl-2-pentanone																																						
Naphthalene																																						
n-Propylbenzene																																						
Styrene																																						
1,1,1,2-Tetrachloroethane																																						
1,1,2,2-Tetrachloroethane																																						
Tetrachloroethene																																						
Toluene																																						
1,2,3-Trichlorobenzene																																						
1,2,4-Trichlorobenzene																																						
1,1,1-Trichloroethane																																						
1,1,2-Trichloroethane																																						
Trichloroethene																																						
Trichlorofluoromethane																																						
1,2,3-Trichloropropane																																						
1,2,4-Trimethylbenzene																																						
1,3,5-Trimethylbenzene																																						
Vinyl acetate																																						
Vinyl chloride																																						
o-Xylene																																						
p-Xylene & m-Xylene																																						

DUPLICATE  
 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02		
<b>PARAMETER METALS (mg/L)</b>																																					
Aluminum																																					
Calcium																																					
Iron																																					
Magnesium																																					
Manganese																																					
Potassium																																					
Sodium																																					
<b>PARAMETER (mg/l) TOXIC METALS</b>																																					
Antimony																																					
Arsenic																																					
Barium																																					
Beryllium																																					
Cadmium																																					
Chromium (Total)																																					
Copper																																					
Lead																																					
Mercury																																					
Nickel																																					
Selenium																																					
Silver																																					
Thallium																																					
Zinc																																					
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																					
Alkalinity																																					
Biochemical Oxygen Demand																																					
Boron																																					
Chemical Oxygen Demand																																					
Chromium (Hexavalent)																																					
Chloride																																					
Color (PCU units)																																					
Nitrate-Nitrite																																					
Nitrogen-Ammonia																																					
Phenols																																					
Sulfate																																					
Total Organic Carbon (TOC)																																					
Total Dissolved Solids (TDS)																																					
Total Hardness																																					
Total Kjeldahl Nitrogen (TKN)																																					
Turbidity (NTU units)																																					
Cyanide																																					





DUPLICATE  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
CLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	10/17	5/18	9/18	MEAN	NYS STD			
<b>PARAMETER METALS (mg/L)</b>																																						
Aluminum							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.008	0	-	ND	ND	-	ND	ND	ND	0.147	-	0.1	0.0128				
Calcium							122	22.4	55.2	39	49.3	112	128	65	68.7	66.6	89.5	80.3	73.4	34	86	67.2	80	122	118	74.2	28.1	70.8	94.3	71.7	32.9	75.7	81.9	74.378				
Iron							15.9	0.53	0.096	9.6	2.3	22.7	32.1	0.241	0.202	0.383	5.31	5.8	0.65	0.88	6	1.79	5.7	10.3	15.1	1.29	ND	0.311	3.04	0.066	0.204	3.44	0.858	5.3626	0.3			
Magnesium							23.4	5.9	17.1	12.5	16.4	22.8	26.2	20.4	21.6	21.2	13.2	12	23.7	11	13	23.2	12.7	24.1	25.5	23.7	8.6	20.2	13.8	22.3	9.62	11	25.7	17.816	35.0			
Manganese							12.8	0.065	0.14	7.6	7.3	12.6	13.2	4.82	2.27	3.03	8.24	7.2	7	0.35	9.2	9.08	8.08	11.2	9.62	7.52	0.014	3.69	7.2	2.04	0.0492	5.33	6.42	6.1429	0.3			
Potassium							7.7	1.8	2.3	3.1	3.6	6.7	8	1.83	2.04	2.08	2.9	2.2	2.3	1.8	2.7	2.2	2.8	4.1	4.7	2.3	ND	ND	ND	2.74	2.48	2.03	2.93	2.8641				
Sodium							21.2	2.7	15.5	5.7	7.5	16.5	21.2	9.6	9.5	9.2	10.5	6.5	9.6	4.2	ND	8.5	7.4	12.4	14.4	9.1	3	9.92	11.6	7.32	3.6	6.02	10.5	9.3763	20.0			
<b>PARAMETER (mg/l) TOXIC METALS</b>																																						
Antimony							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	0.003			
Arsenic							ND	ND	ND	ND	ND	ND	ND	ND	ND	0.017	0.023					ND	0.005	-	-	0.014	0.005	-	ND	0.0163	ND	ND	-	ND	0.004	0.025		
Barium							0.48	0.011	0.07		0.18	0.54	0.64	0.0892	0.0543		0.18	0.15				ND	0.091	-	-	0.283	0.072	-	ND	ND	0.0518	0.0147	-	0.0696	0.1294	1.0		
Beryllium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0002	-	-	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	1E-05			
Cadmium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	0.005			
Chromium (Total)							ND	ND	ND	ND	ND	0.0055	0.0059	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0052	0.0008	0.005			
Copper							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.2			
Lead							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	0.001	ND	ND	0.003	0.002	ND	0.0043	ND	ND	ND	0.0028	ND	0.0005	0.025			
Mercury							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7E-05	-	ND	3E-06	0.0007					
Nickel							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	-	-	0.005	0.005	-	ND	ND	0.0036	ND	-	0.0045	0.0012	0.1			
Selenium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	-	-	0.006	0.006	-	ND	ND	ND	ND	-	ND	0.0008	0.0			
Silver							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9E-05	0.05			
Thallium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	0.0005			
Zinc							ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0466							0.063	0.004	-	-	0.011	ND	-	ND	0.0221	0.0017	0.0021	-	0.0032	0.0081	2.0	
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																						
Alkalinity							468	67.3	151	106	208	520	498	267	254	310	263	287	293	130	280	315	290	462	480	300	102	268	293	299	120	203	347	280.79				
Biochemical Oxygen Demand							6		ND			3.2	7.4			ND				ND	ND			ND	4	-	-	14.2	3	ND	ND	1	1	ND	ND	1.8952		
Boron							0.2		ND			0.074	0.17			0.0417				0.0534	0.052			ND	0.07	-	-	0.11	0.06	-	ND	ND	0.0457	0.0411	-	0.0507	0.0484	1.0
Chemical Oxygen Demand							67.1	ND	27.3	ND	ND	43.7	48.1	ND	ND		ND	ND	14	ND	24	10.7	14.2	29.8	12.1	12.8	9.7	-	15.1	13	14	27.7	31.8	15.965				
Chromium (Hexavalent)							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	0.05		
Chloride							39.4	2.3	1.7	5.6	8.9	17	29.1	12	12.6	11.1	23.4	4.1	11.1	2.87	12	9.1	7.5	8.8	12.6	10.2	2.9	8.83	18.6	12.4	3.2	2.9	10.7	11.144	250.0			
Color (FCU units)							140		ND			60	100		15		0	17.5			5	34	-	-	380	19	-	5	10	10	-	-	5	40.025	15.0			
Nitrate-Nitrite							ND	0.16	ND	0.085	ND	ND	0.3	ND	ND		ND	ND	2.7	0.224	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0064	0.21	ND	ND	0.1417	10.0		
Nitrogen-Ammonia							18	0.23	ND	1.9	1.9	9.8	9.8	0.886	0.245	0.245	0.75	0.78	0.43	ND	1.56	0.795	1.35	3.02	8.9	0.674	ND	0.44	1.1	0.19	0.055	0.7	0.3	2.3722	2.0			
Phenols							ND	ND	0.016	ND	ND	0.0092	0.054	0.0247	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0174	0.03	0.0527	ND	ND	0.0125	0.0115	ND	0.0025	0.0123	0.0125	0.0095	0.001	
Sulfate							ND	12.8	47.9	7.2	10.9	ND	ND	6.5	7.19	6.83	7.64	8.4	6.4	ND	ND	5.3	4.2	2.6	ND	5.4	10.6	5.78	9.6	6.6	8.6	6.5	5.8	7.1385	250.0			
Total Organic Carbon (TOC)							14.6	2.6	ND	4.2	3.9	13.6	18.4	2.7	2	1.3	4.7	2.6	2.3	ND	ND	4.2	7.3	10.1	14.8	3.1	2.9	1.75	4.9	ND	4.7	13.5	3.1	5.3056				
Total Dissolved Solids (TDS)							536	111	436	179	237	446	515	299	296	289	326	278	303	130	350	340	312	494	483	316	115	301	319	287	147	257	299	311.15	500.0			
Total Hardness							401	80.2	208	149	191	374	427	250	260	250	280	250	281	130	270	263	252	404	400	283	106	240	310	248	120	260	17.3	248.31				
Total Kjeldahl Nitrogen (TKN)							19.8		ND			2.7	ND				1.31	1.3				1.13	1.25	-	-	9.53	0.86	-	0.4	1.3	0.32	0.2	0.85	0.38	1.9681			
Turbidity (NTU units)							22.5	7.4	ND	9.2	9												0	0.3	-	-	7.1	ND	-	0.8	0.8	-	0	0	3.1722	5.0		
Cyanide							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	0.2		

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\* = Applies to the sum of cis and trans-1,3-dichloropropene.

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(Blank) or "-" = Not Analyzed.

ND = Not Detected.

<DL = Detected below method detection limit.

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B = Analyte was detected in method blank.