Fall 2019
Routine Semi-Annual Monitoring Event
Water Quality Monitoring Report

Location:

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

Prepared for:

City of Olean
101 East State Street
P.O. Box 668
Olean, New York 14760

LaBella Project No. 2191208
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300 Pearl Street, Suite 130 | Buffalo, NY 14202 | p (716) 551-6281 | f (716) 551-6282
www.labellapc.com

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Semi-Annual Monitoring Routine Event
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TABLE OF CONTENTS

1.0 INTRODUCTION 1
2.0 BACKGROUND INFORMATION 1
3.0 SAMPLE COLLECTION PROCEDURES 2
3.1 General Discussion 2
3.2 Groundwater Sample Collection Procedures 2
3.3 Surface Water Sample Collection Procedures 3
3.4 Field Parameter Measurements 3
3.5 Quality Assurance/Quality Control 3
3.6 Shipping and Chain-of-Custody 3
3.7 Health and Safety 3
4.0 DATA VALIDATION 3
4.1 Data Validation 3
4.2 Quality Assurance/Quality Control 4
4.2.1 Duplicate *4*
5.0 ANALYTICAL RESULTS 4
5.1 General Discussion 4
5.2 Summary of Results 4
5.2.1 Volatile Organic Compound Results *4*
5.2.2 Inorganic Parameters *5*
5.2.3 Leachate Indicator Parameters *5*
5.2.4 Comparison of Sampling Results *5*
6.0 SUMMARY AND CONCLUSIONS 5

Figures
Tables
Appendices

1.0 INTRODUCTION

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 2019 Routine 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

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

3.1 General Discussion

LaBella performed the Fall 2019 Monitoring Event sampling activities on September 24 and 25, 2019. 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) Routine Parameters plus Baseline VOCs However, MW-6A, MW-9B and MW-12A were dry, precluding sample collection from these locations. Additionally, MW-6D, MW-7A, and MW-11B contained insufficient water volumes for the full parameter list, thus the parameters analyzed were limited to the following:

- MW-6D: All parameters except alkalinity
- MW-7A: Only VOCs were sampled
- MW-11B: Total organic carbon (TOC) and VOCs

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 1/100th 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 with the exception of the SEEP. A filtered metals sample for the SEEP was inadvertently not collected during this event. This will be corrected during future sampling events. As discussed in Section 5.2 below, the metals results for the SEEP were generally within historical ranges.

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, MW-9B, and MW-12A (these 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 Routine Parameters plus Baseline VOCs. The blind field duplicate sample was designated as "DUP" on the chain-of-custody form and in the laboratory report from Pace. Additionally, a trip blank was submitted and analyzed.

3.6 Shipping and Chain-of-Custody

Sample containers were labeled in the field, placed on ice, and shipped by FedEx using properly signed seals to Pace under chain-of-custody protocols. The samples were relinquished to FedEx on September 25, 2019 and received by Pace September 26, 2019. 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

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 2019 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 exception of nitrate-nitrite which was detected in the DUP but was not detected in 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

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 2019 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-13, MW-14, and STREAM. The VOC concentrations that exceeded the applicable water quality standards are summarized below:

- *Benzene* was reported at the 6NYCRR standard of 1.0 µg/L in one sample (MW-8B).
- *Chlorobenzene* was reported above the 6NYCRR standard of 5.0 µg/L in one samples (MW-12B) a concentration of 6.9 µg/L.
- *1,1-Dichloroethane* was reported above the 6NYCRR standard of 5.0 µg/L in two samples (MW-10B and MW-12B) at concentrations of 11.6 µg/L and 5.4 µg/L, respectively.
- *cis-1,2-Dichloroethene* was reported above the 6NYCRR standard of 5.0 µg/L in four samples (MW-8B, MW-10B, MW-11B, and SEEP) at concentrations of 6.3 µg/L, 33.6 µg/L, 5.2 µg/L, and 18.8 µg/L respectively.
- *Vinyl Chloride* was reported above the 6NYCRR standard of 2.0 µg/L in four samples (MW-8B, MW-10B, MW-11B, and SEEP) at concentrations of 2.6 µg/L, 5.1 µg/L, 2.1 µg/L, and 2.9 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.

- *Iron* was reported above the 6NYCRR standard of 0.3 mg/L in five samples (MW-6D, MW-8B, MW-10B, MW-12B and SEEP): exceedances ranged in concentration from 0.512 mg/L to 32.9 mg/L.
- *Manganese* was reported above the 6NYCRR standard of 0.3 mg/L in six samples (MW-7C, MW-8B, MW-10B, MW-12B, SEEP, and STREAM): exceedances ranged in concentration from 0.7 mg/L to 11.7 mg/L.

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

5.2.3 *Leachate Indicator Parameters*

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

- *Ammonia-Nitrogen* was reported above the 6NYCRR standard of 2.0 mg/L in two samples (MW-12B, and SEEP): at concentrations of 8.6 mg/L and 2.4 mg/L, respectively.
- *Total Phenols* was reported above the 6NYCRR standard of 0.001 mg/L in nine samples (MW-6D, MW-7C, MW-8B, MW-10B, MW-12B, MW-13, MW-14, SEEP and STREAM): exceedances ranged in concentration from 0.004 mg/L to 0.0041 mg/L.

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

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

The results of the Fall 2019 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 2020.

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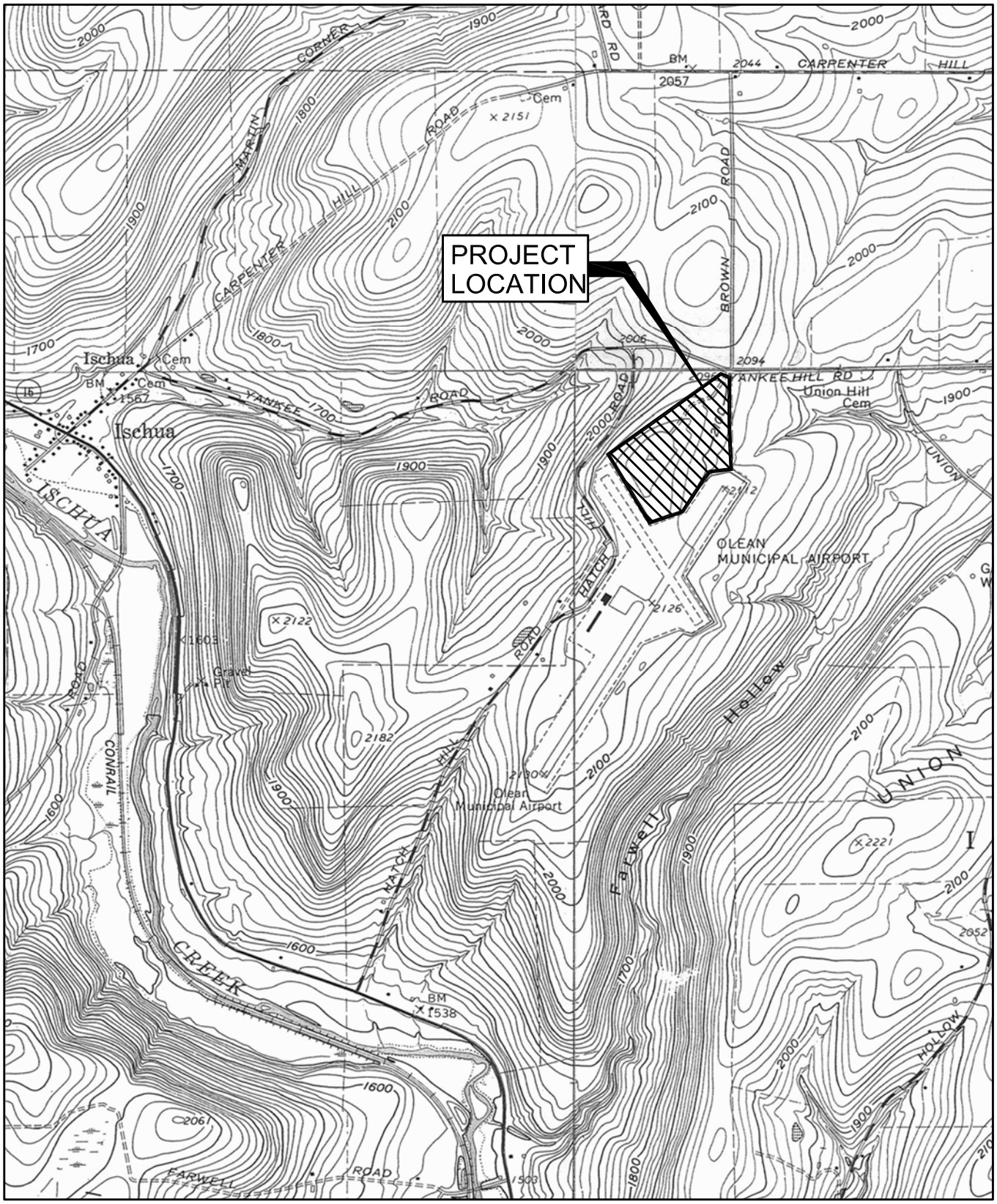
FIGURES



ROAD CLASSIFICATION

Heavy-duty — Light-duty

Medium-duty — Unimproved dirt

State Route

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

GRAPHIC SCALE

2000 0 1000 2000

(IN FEET)

1 inch = 2000 ft.

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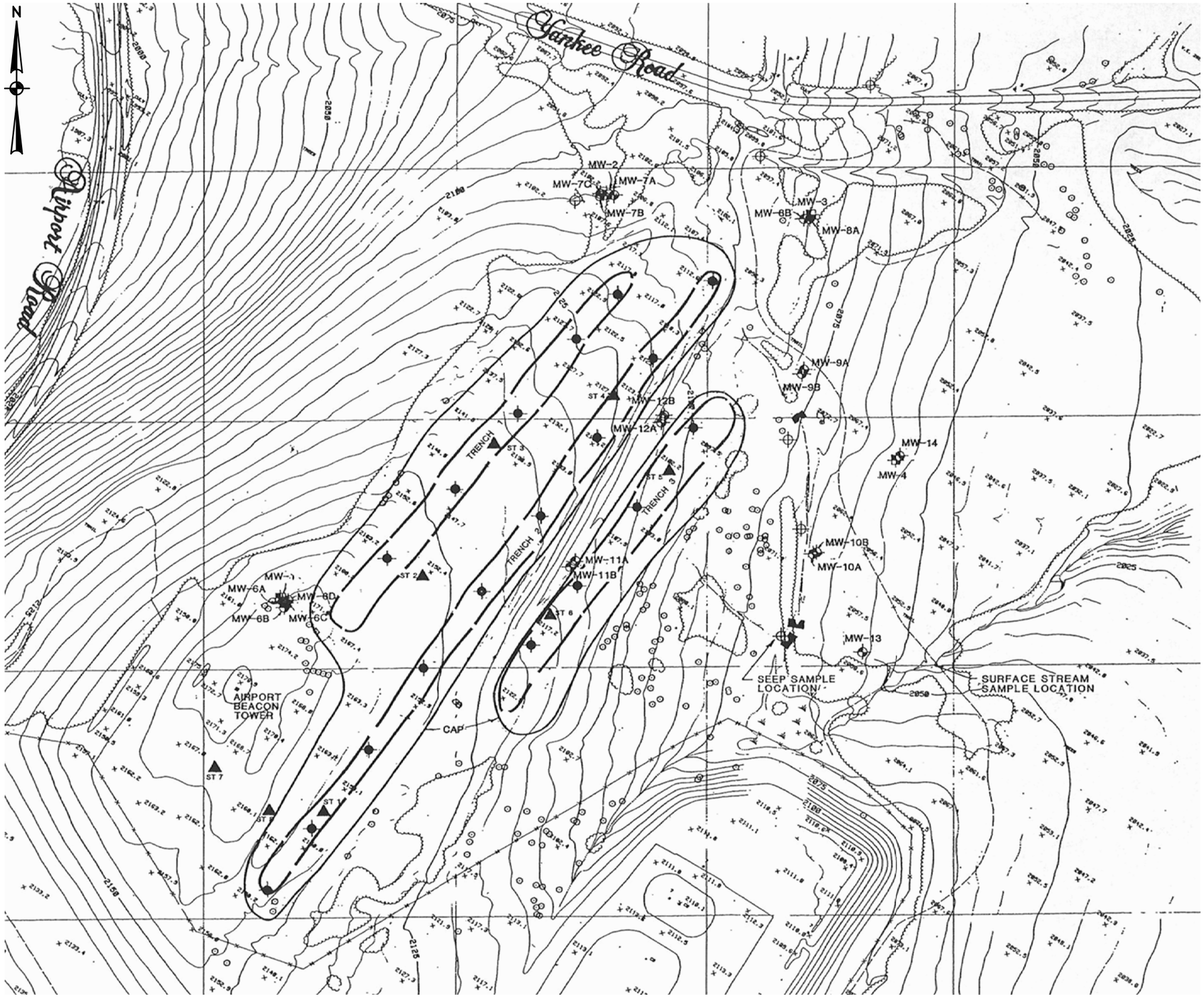
ISCHUA LANDFILL

FIGURE 1

SITE LOCATION MAP

File: J:\Olean, City of\2181366 – 2018 Ischua Landfill Monitoring\Reports\2018 Spring\Figure 1– USGS Site Location Map.dwg, Plot Date: 6/20/2018, By: BENKLEMAN, 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

200 0 100 200

1 inch = 200 ft.

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ISCHUA LANDFILL

FIGURE 2

SITE BASE MAP AND ENVIRONMENTAL MONITORING LOCATIONS

File: J:\Olean, City of\2181366 – 2018 Ischua Landfill Monitoring\Reports\2018 Spring\Figure 2 Site Map.DWG, Plot Date: 6/20/2018, By: BENKLEMAN, ANDREW, Plot Style: LABELLA.CTB

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TABLES

Ischua Landfill
Fall 2019
Summary of Monitoring Well and Groundwater Depths

TABLE 1

Monitoring Well No.	Top of Casing Elevation	Depth to Well Bottom	Historical Elevations		Depth to Water	Elevation of Water	Compared to Last Event	Compared to Last Year
			Sep-18	Apr-19	Sep-19	Sep-19		
MW-6A	2173.1	17.19	NA	2155.91	NA	NA	NA	NA
MW-6D	2173.7	103.14	2072.7	2082	100.20	2073.5	-8.5	0.80
MW-7A	2109.3	11.64	2101.4	2105.3	11.20	2098.1	-7.2	-3.30
MW-7C	2109.3	40.3	2075.60	2082.60	33.1	2076.20	-6.4	0.60
MW-8B	2089.6	25.65	2075.3	2075.55	17.50	2072.1	-3.4	-3.20
MW-9B	2081.1	32.43	2049.60	2050.10	NA	NA	NA	NA
MW-10B	2066.2	33.69	2043.90	2047.10	24.50	2041.70	-5.4	-2.20
MW-11B	2115.1	18.07	2099.1	2102.9	17.30	2097.8	-5.1	-1.30
MW-12A	2108.3	12.68	2097.4	2099.1	NA	NA	NA	NA
MW-12B	2107.5	20.9	2094.4	2096.6	17.60	2089.9	-6.7	-4.50
MW-13	2058.7	11.44	2054.8	2054.7	3.70	2055	0.3	0.20
MW-14	2060.9	23.45	2043.9	2045.7	17.90	2043	-2.7	-0.90

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.

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Ischua Landfill
Fall 2019
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	-	68.3	-16.5 *	89.6	-1.0	-	43.6	3.6*	-	-40.2	39.9	-1.6	-36.4	39.7	NA	mV
Field pH	SU	-	7.85	**6.34***	7.76	7.20	-	6.52	**6.51***	-	6.68	7.38	7.40	6.89	7.67	6.5-8.5	SU
Field Specific Conductivity	mS/cm	-	0.661	0.504*	0.602	0.552	-	0.580	0.353*	-	0.945	0.320	0.211	0.547	0.307	NA	mS/cm
Field Turbidity	NTU	-	**19.51**	**137.2***	**8.84**	**9.42**	-	2.86	**14.16***	-	**31.17**	**7.24**	**8.84**	**278**	1.25	5	NTU
Temperature	degC	-	10.4	12.7*	9.7	11.0	-	11.1	11.7*	-	12.0	14.0	12.2	16.4	13.8	NA	degC
Dissolved Oxygen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	5.33	4.18	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

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Ischua Landfill
Fall 2019
Groundwater and Surface Water Analysis Summary

TABLE 3

			MONITORING LOCATIONS																
	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	
Collection Date			9/25/2019	9/25/2019	9/25/2019	9/25/2019	9/25/2019	9/25/2019	9/25/2019	9/25/2019	9/25/2019	9/25/2019	9/25/2019	9/25/2019	9/25/2019	9/25/2019	9/25/2019			
BOD5		mg/l	-	1.0	-	1.0	1.4	-	1.7	-	-	8.1	1.0	1.0	2.1	1.8	1.8	NA	mg/l	BOD5
Color		Units	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	Units	Color
Hexavalent Chromium	18540-29-9	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05	mg/l	Hexavalent Chromium
Nitrate-Nitrogen		mg/l	-	0.11	-	0.083	0.066	-	ND	-	-	0.12	0.073	0.093	ND	0.074	0.049	10	mg/l	Nitrate-Nitrogen
Alkalinity		mg/lCaCO3	-	-	-	313	261	-	302	-	-	468	156	204	260	145	292	NA	mg/lCaCO3	Alkalinity
Chloride		mg/l	-	2.7	-	5.9	11.8	-	8.5	-	-	13.7	3.2	2.4	7.2	3.7	9.3	250	mg/l	Chloride
COD		mg/l	-	ND	-	ND	12.4	-	21.2	-	-	58.7	14.6	25.6	85.2	25.6	30.0	NA	mg/l	COD
Ammonia-Nitrogen	7664-41-7	mg/l	-	0.033	-	0.21	1.00	-	0.830	-	-	**8.60**	ND	ND	**2.40**	0.044	0.61	2	mg/l	Ammonia-Nitrogen
Sulfate		mg/l	-	28.7	-	8.3	8.5	-	7.0	-	-	ND	4.1	16	5.6	8.3	7.7	250	mg/l	Sulfate
Total Cyanide		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	mg/l	Total Cyanide
Total Dissolved Solids		mg/l	-	348	-	302	306	-	326	-	-	466	173	209	272	168	306	500	mg/l	Total Dissolved Solids
Total Kjeldahl Nitrogen		mg/l	-	ND	-	ND	1.5	-	1.40	-	-	10.1	0.63	ND	3.2	0.49	1.00	NA	mg/l	Total Kjeldahl Nitrogen
TOC		mg/l	-	0.7	-	0.7	2.8	-	2.0	8.4	-	9.7	2.2	1.3	7.5	4.9	2.4	NA	mg/l	TOC
Total Phenols		mg/l	-	**0.0041**	-	**0.004**	**0.0041**	-	**0.0040**	-	-	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	0.001	mg/l	Total Phenols
Aluminum		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	mg/l	Aluminum
Antimony by furnace method		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003	mg/l	Antimony by furnace method
Arsenic by furnace method		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.025	mg/l	Arsenic by furnace method
Barium		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	mg/l	Barium
Beryllium		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003	mg/l	Beryllium
Boron	7440-42-8	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	mg/l	Boron
Cadmium		mg/l	-	ND	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	ND	ND	0.005	mg/l	Cadmium
Calcium		mg/l	-	103	-	104	84.4	-	78.8	-	-	126	42.2	56.8	63.5	42	77.8	NA	mg/l	Calcium
Chromium		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05	mg/l	Chromium
Copper		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	mg/l	Copper
Iron		mg/l	-	**0.512**	-	0.030	**5.01**	-	**1.45**	-	-	**18.1**	0.162	0.0153	**32.9**	0.079	**1.43**	0.3	mg/l	Iron
Lead by furnace method		mg/l	-	ND	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	ND	ND	0.025	mg/l	Lead by furnace method
Magnesium		mg/l	-	27.4	-	17	12.3	-	24.6	-	-	25.5	11.9	14.0	23.2	12.3	24.3	35	mg/l	Magnesium
Manganese		mg/l	-	0.0143	-	**0.70**	**7.52**	-	**7.21**	-	-	**10.3**	0.259	0.0602	**11.70**	**2.33**	**7.12**	0.3	mg/l	Manganese
Mercury		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0007	mg/l	Mercury
Nickel		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	mg/l	Nickel
Potassium		mg/l	-	2.66	-	1.68	2.76	-	2.51	-	-	6.73	ND	1.62	3.73	2.2	2.3	NA	mg/l	Potassium
Selenium by furnace method		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	mg/l	Selenium by furnace method
Silver		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05	mg/l	Silver
Sodium		mg/l	-	7.2	-	6.71	7.1	-	9.08	-	-	14.8	9.59	8.99	6.92	3.89	8.88	20	mg/l	Sodium
Thallium by furnace method		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0005	mg/l	Thallium by furnace method
Zinc		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	mg/l	Zinc
Calculated Hardness		mg/l CaCO3	-	340	-	300	220	-	260	-	-	200	133	193	200	140	300	NA	mg/l CaCO3	Calculated Hardness
																		1.00		Value exceeds regulatory standard

"-" - Indictes the parameter was not analyzed

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

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 ultilized.

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Ischua Landfill
Fall 2019
Groundwater and Surface Water Analysis Summary

TABLE 3

			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 [1]	STREAM [1]	Duplicate	NYSDEC Part 703 Surfacewater and Groundwater Quality Standards	Units	
Acetone	67-64-1	ug/l	-	ND	ND	ND	ND	-	ND	ND	-	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	5.0	ug/l	Acrylonitrile
Benzene	71-43-2	ug/l	-	ND	ND	ND	1.0	-	ND	ND	-	ND	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	5.0	ug/l	Bromochloromethane
Bromodichloromethane	75-25-2	ug/l	-	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	50.0	ug/l	Bromoform
Bromomethane	56-23-5	ug/l	-	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	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	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	5.0	ug/l	Carbon tetrachloride
Chlorobenzene	95-50-1	ug/l	-	ND	ND	ND	2.3	-	ND	ND	-	6.9	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	5.0	ug/l	Chloroethane
Chloroform		ug/l	-	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	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	50.0	ug/l	Dibromochloromethane
1,2-Dibromo-3-chloropropane		ug/l	-	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	5.0	ug/l	1,2-Dibromoethane
Dibromomethane		ug/l	-	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	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	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	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	1.6	-	11.6	ND	-	5.4	ND	ND	ND	ND	16.6	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	0.6	ug/l	1,2-Dichloroethane
1,1-Dichloroethene		ug/l	-	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	6.3	-	33.6	5.2	-	ND	ND	ND	18.8	ND	35.1	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	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	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	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	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	5.0	ug/l	Ethylbenzene
2-Hexanone	591-78-6	ug/l	-	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	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	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	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	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	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	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	5.0	ug/l	Tetrachloroethene
Toluene	108-88-3	ug/l	-	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	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	1.0	ug/l	1,1,2-Trichloroethane
Trichloroethene		ug/l	-	ND	ND	ND	1.0	-	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	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	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	NA	ug/l	Vinyl acetate
Vinyl chloride	75-01-4	ug/l	-	ND	ND	ND	2.6	-	5.1	2.1	-	ND	ND	ND	2.9	ND	7.1	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	5.0	ug/l	p-Xylene & m-Xylene
																		1.00		Value exceeds regulatory standard

"-" - Indictes the parameter was not analyzed

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

APPENDIX A

Field Sampling Logs

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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: 2191208
Sampling Event: Fall 2019 Routine
Date: 9/ 24 /2019

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): _____ 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: _____

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: _____ Water Level (ft): _____

Sampling Information: Date: **9/ /2019**

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

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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: 2191208
Sampling Event: Fall 2019 Routine
Date: 9/ 24 /2019

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): 100.2 Height of Water Column (ft): 2.94

1 Well Volume [WV] (gal): 0.47 3 WV (gal): 1.41 5 WV (gal): [Not Applicable]

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

Purge X **Field Parameters** **Start Time:** 9:44 AM

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0	201.1	7.34	10.7	0.674	15.2	
/ 1	199.2	7.14	9.7	0.685	109.6	
/ 2	196.7	7.09	9.6	0.667	214	
/ 3	196.5	7.25	9.8	0.68	305	

Total Volume Purged (gal): Complete Time: 10:15 Water Level (ft):

Sampling Information: Date: 9/ 25 /2019

Sample Time: 9:30 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
68.3	7.85	10.4	0.661	19.51	clear

Other Comments:
All samples collected except Alkalinity - well dry

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

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WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: MW-7A

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

Project No: 2191208
Sampling Event: Fall 2019 Routine
Date: 9/ 24 /2019

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): 11.2 Height of Water Column (ft): 0.44

1 Well Volume [WV] (gal): 0.07 3 WV (gal): 0.21 5 WV (gal): [Not Applicable]

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

Purge X Field Parameters **Start Time:** 10:20

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start=_____gal] Characteristics
Initial / 0	-16.5	6.34	12.7	.504	137.2	
/ 1						
/ 2						
/ 3						

Total Volume Purged (gal): Complete Time: 10:25 Water Level (ft):

Sampling Information: Date: **9/ 25 /2019**

Sample Time: 10:15 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:

DM after Initial

VOCs Only - DM

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

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WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: MW-7C

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

Project No: 2191208
Sampling Event: Fall 2019 Routine
Date: **9/ 24 /2019**

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): 33.1 Height of Water Column (ft): 7.2

1 Well Volume [WV] (gal): 1.15 3 WV (gal): 3.46 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer X / Other:

Purge X Field Parameters **Start Time:** 10:25

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0	-51.2	6.79	9.6	0.59	10.6	
/ 1	-20.6	6.91	9	0.607	17.3	
/ 2	16.7	7	9	0.609	20.3	
/ 3	30.5	7.05	9.2	0.608	72	

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

Sampling Information: Date: **9/ 25 /2019**

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
82.4	7.76	9.7	0.602	9.04	clear

Other Comments:
Must be given time to recover. Wait well

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

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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: 2191208
Sampling Event: Fall 2019 Routine
Date: 9/24/2019

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): 17.5 Height of Water Column (ft): 8.15

1 Well Volume [WV] (gal): 1.3 3 WV (gal): 3.91 5 WV (gal): [Not Applicable]

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

Purge X Field Parameters **Start Time:**

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0	58.6	6.7	10.8	0.464	412	
/ 1	9.7	6.6	10	0.535	32.5	
/ 2	7.4	6.51	9.8	0.536	11.25	
/ 3	3.0	6.46	9.8	0.535	12.23	

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

Sampling Information: Date: **9/25/2019**

Sample Time: 13:00 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
-1.0	7.2	11	0.552	9.42	Clear

Other Comments:
MS/MSD

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

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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: 2191208
Sampling Event: Fall 2019 Routine
Date: **9/ /2019**

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): DM 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:** 11:05

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: _____ Water Level (ft): _____

Sampling Information: Date: **9/ /2019**

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:

DM

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

LaBella
Powered by partnership

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: 2191208
Sampling Event: Fall 2019 Routine
Date: **9/24 /2019**

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): ~~24.5~~ Height of Water Column (ft): 9.19

1 Well Volume [WV] (gal): 1.47 3 WV (gal): 4.41 5 WV (gal): [Not Applicable]

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

Purge X Field Parameters **Start Time:** ~~10~~ 11:50

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start=_____gal] Characteristics
Initial / 0	46.1	7.01	10.2	0.549	13.17	
/ 1	46.2	6.41	10	0.57	7.12	
/ 2	28.1	6.32	9.8	0.579	6.72	
/ 3	25.1	6.41	9.9	0.584	4.8	

Total Volume Purged (gal): _____ Complete Time: _____ Water Level (ft): _____

Sampling Information: Date: **9/25 /2019**

Sample Time: 11:30 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
43.6	10.52	11.1	0.58	2.2	clear

Other Comments:

DUP

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

LaBella
Powered by partnership

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: 2191208
Sampling Event: Fall 2019 Routine
Date: 9/ 24 /2019

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): 17.3 Height of Water Column (ft): 0.77

1 Well Volume [WV] (gal): 0.12 3 WV (gal): 0.37 5 WV (gal): [Not Applicable]

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

Purge X **Field Parameters** **Start Time:** 10:30

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0	3.6	6.51	11.7	0.353	14.16	
/ 1						
/ 2						
/ 3						

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

Sampling Information: Date: 9/ 25 /2019

Sample Time: 10:30 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
					orange in color

Other Comments:
Wait well. Should be Purged *well* before sampling.

Dry after 1 well volume
only VOCs and TOCs collected.

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

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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: 2191208
Sampling Event: Fall 2019 Routine
Date: 9/ 24 /2019

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): 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:** 10:45

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: _____ Water Level (ft): _____

Sampling Information: Date: 9/ 25 /2019

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:
Wait well due to turbidity

Dry - No samples

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

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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: 2191208
Sampling Event: Fall 2019 Routine
Date: **9/ 24 /2019**

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): 17.6 Height of Water Column (ft): 3.3

1 Well Volume [WV] (gal): 0.528 3 WV (gal): 1.58 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer X / Other:

Purge X Field Parameters **Start Time:** 10:55

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start=_____gal] Characteristics
Initial / 0	0.2	6.58	13.2	0.808	52.01	
/ 1	21.9	6.51	11.9	0.863	83	
/ 2	-30.3	6.73	11.5	0.931	49.7	
/ 3						

Total Volume Purged (gal): _____ Complete Time: _____ Water Level (ft): _____

Sampling Information: Date: **9/ 25 /2019**

Sample Time: 10:45 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
-40.2	6.68	12	0.945	31.17	

Other Comments:
Dry after 2 well volumes

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

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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: 2191208
Sampling Event: Fall 2019 Routine
Date: 9/ 24 /2019

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): 3.7 Height of Water Column (ft): 7.74

1 Well Volume [WV] (gal): 1.23 3 WV (gal): 3.72 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer X / Other:

Purge X **Field Parameters** **Start Time:** 12:20

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0	23.8	6.93	13.8	0.28	17.85	
/ 1	37.1	6.81	12.9	0.317	16.72	
/ 2	26.4	6.83	13.2	0.348	47.5	
/ 3						

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

Sampling Information: Date: 9/25 /2019

Sample Time: 10:15 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
39.9	7.38	14	0.32	7.24	Clear

Other Comments:
Requires some wait time after purging.

Dry after 2.5 gal.

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

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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: 2191208
Sampling Event: Fall 2019 Routine
Date: 9/24/2019

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): 17.9 Height of Water Column (ft): 5.55

1 Well Volume [WV] (gal): 0.89 3 WV (gal): 2.66 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer X / Other:

Purge X Field Parameters **Start Time:** 11:30

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start=_____gal] Characteristics
Initial / 0	341	8	12	0.336	562	
/ 1	410.5	7.84	11	0.393	3.86	
/ 2						
/ 3						

Total Volume Purged (gal): _____ Complete Time: _____ Water Level (ft): _____

Sampling Information: Date: 9/25/2019

Sample Time: 11:00 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
-1.6	7.4	12.2	0.211	8.84	

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

Dry after 1 well volume

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

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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: 2191208
Sampling Event: Fall 2019 Routine
Date: **9/ /2019**

Purge not required on this sample- Surface water

Sampling Information: Date: **9/25 /2019**

Sample Time: 12:30 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. = 5.33 mg/L]**
-36.4	6.89	16.4	0.547	278	

Other Comments:
orange in color

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

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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: 2191208
Sampling Event: Fall 2019 Routine
Date: **9/25/2019**

Purge not required on this sample- Surface water

Sampling Information: Date: **9/25/2019**

Sample Time: 12:00 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 **[For SW & SEEP Only: D.O. = 4.18 mg/L]**
39.7	7.67	13.8	0.307	1.25	

Other Comments:

Mostly dry, collected from puddle.

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

APPENDIX B

Chain-of-Custody

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Rec

The Chain-of-Custody is a LEGAL DOCUMENT. All releva

WO# : 70106329

70106329

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: LaBella Associates	Report To: Andrew Benkleman	Attention:
Address: 300 Pearl Street	Copy To:	Company Name:
Buffalo, NY 14201		Address:
Email: abenkleman@labellapc.com	Purchase Order #:	Pace Quote:
Phone: (716) 551-6281 Fax	Project Name: Ischua Landfill	Pace Project Manager: jennifer.aracri@pacelabs.com,
Requested Due Date:	Project #: 219 21208	Pace Profile #: 5498 Line 1 & 4

Regulatory Agency	
State / Location	NY

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: BOD, BR,Cl,SO4,NO2,TDS	Alkalinity	COD,NH3,NO3,Phenols, TK	TOC	Metals +Hardness	Dissolved Metals by 200.7 (L	Volatiles	Residual Chlorine (Y/N)	
1	MW-6A	WT		9/25/19														X	X	X	X	X		X		
2	MW-6D	WT		9/25/19	930				7									X	X	X	X	X		X		001
3	MW-7A	WT		9/25/19	1015				2									X	X	X	X	X		X		002
4	MW-7C	WT		9/25/19	945				8									X	X	X	X	X		X		003
5	MW-8B	WT		9/25/19	1300				24									X	X	X	X	X		X		MS/MSD here-004
6	MW-9B	WT																X	X	X	X	X		X		
7	MW-10B	WT		9/25/19	1130													X	X	X	X	X		X		005
8	MW-11B	WT		9/25/19	1030				4									X	X	X	X	X		X		006
9	MW-12A	WT																X	X	X	X	X		X		
10	MW-12B	WT		9/25/19	1045				8									X	X	X	X	X		X		007
11	MW-13	WT		9/25/19	1115				8									X	X	X	X	X		X		008
12	MW-14	WT		9/25/19	1100				8									X	X	X	X	X		X		009

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Part 360 Routine +Baseline VOCs	Brannen Dalton	9/25/19	1315		9/26/19	10:50

SAMPLE CONDITIONS			
2.6	4	4	4
3.0			
3.2			

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

Pace Analytical

CHAIN-OF-CUS

The Chain-of-Custody i… ccurately.

WO#: 70106329

PM: JSA Due Date: 10/10/19

CLIENT: LBA-B

Section A Required Client Information:		Section B Required Project Information:		Secti… Invoi…	
Company:	LaBella Associates	Report To:	Andrew Benkleman	Atten…	
Address:	300 Pearl Street	Copy To:		Compa…	
Buffalo, NY 14201				Address:	
Email:	abenkleman@labellapc.com	Purchase Order #:		Pace Quote:	
Phone:	(716) 551-6281 Fax	Project Name:	Ischua Landfill	Pace Project Manager:	jennifer.aracri@pacelabs.com,
Requested Due Date:		Project #:	71921258	Pace Profile #:	5498 Line 1 & 4

Regulatory Agency
State / Location
NY

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	BOD, BR,Cl,SO4,NO2,TDS	Alkalinity	COD,NH3,NO3,Phenols, TK	TOC	Metals +Hardness	Dissolved Metals by 200.7 (I	Volatiles	Residual Chlorine (Y/N)	
13	SEEP	WT		9/25/19	1230				8										X	X	X	X	X		X		010
14	STREAM	WT		9/25/19	1200				8										X	X	X	X	X		X		011
15	DUP	WT		9/25/19	—				8										X	X	X	X	X		X		012
16	MS/MSP			9/25/19	—				16										X	X	X	X	X		X		01
17																											
18																											
19																											
20																											
21																											
22																											
23																											
24																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Part 360 Routine +Baseline VOCs	Shannon Dalton	9/25/19			9/25/19	1052	2.6	Y	N	Y
							3.0			
							3.2			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

APPENDIX C

Analytical Laboratory Report

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

January 08, 2020

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

RE: Project: Ischua Landfill
Pace Project No.: 70106329

Dear Andrew Benkleman:
Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2019. 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.

REVISION 1: Report re-issued on 1/8/20 to include vinyl chloride.

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

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: Ischua Landfill
Pace Project No.: 70106329

Pace Analytical Services Long Island
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

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: Ischua Landfill
Pace Project No.: 70106329

Date: January 08, 2020

Trip Blank received but not noted on the COC. See Sample Condition Upon Receipt Form for details.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: Ischua Landfill
Pace Project No.: 70106329

Method: **EPA 6010C**
Description: 6010 MET ICP
Client: LaBella Associates
Date: January 08, 2020

General Information:
10 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.

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: 132791

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70106329004

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

- MS (Lab ID: 635178)
  - Manganese

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

Additional Comments:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: Ischua Landfill
Pace Project No.: 70106329

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: LaBella Associates
Date: January 08, 2020

General Information:
14 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: 132041

IC: The initial calibration for this compound was outside of method control limits. The result is estimated.

- BLANK (Lab ID: 631173)
  - Acetone
- DUP (Lab ID: 70106329012)
  - Acetone
- LCS (Lab ID: 631174)
  - Acetone
- MS (Lab ID: 635507)
  - Acetone
- MSD (Lab ID: 635508)
  - Acetone
- MW-10B (Lab ID: 70106329005)
  - Acetone
- MW-11B (Lab ID: 70106329006)
  - Acetone
- MW-12B (Lab ID: 70106329007)
  - Acetone
- MW-13 (Lab ID: 70106329008)
  - Acetone
- MW-14 (Lab ID: 70106329009)
  - Acetone
- MW-6D (Lab ID: 70106329001)
  - Acetone
- MW-7A (Lab ID: 70106329002)
  - Acetone
- MW-7C (Lab ID: 70106329003)
  - Acetone
- MW-8B (Lab ID: 70106329004)
  - Acetone
- SEEP (Lab ID: 70106329010)
  - Acetone
- STORAGE BLANK (Lab ID: 70106329014)
  - Acetone
- STREAM (Lab ID: 70106329011)
  - Acetone

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: Ischua Landfill
Pace Project No.: 70106329

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: LaBella Associates
Date: January 08, 2020

QC Batch: 132041

IC: The initial calibration for this compound was outside of method control limits. The result is estimated.

- TRIP BLANK (Lab ID: 70106329013)
  - Acetone

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

- BLANK (Lab ID: 631173)
  - 2-Butanone (MEK)
- DUP (Lab ID: 70106329012)
  - 2-Butanone (MEK)
- LCS (Lab ID: 631174)
  - 2-Butanone (MEK)
- MS (Lab ID: 635507)
  - 2-Butanone (MEK)
- MSD (Lab ID: 635508)
  - 2-Butanone (MEK)
- MW-10B (Lab ID: 70106329005)
  - 2-Butanone (MEK)
- MW-11B (Lab ID: 70106329006)
  - 2-Butanone (MEK)
- MW-12B (Lab ID: 70106329007)
  - 2-Butanone (MEK)
- MW-13 (Lab ID: 70106329008)
  - 2-Butanone (MEK)
- MW-14 (Lab ID: 70106329009)
  - 2-Butanone (MEK)
- MW-6D (Lab ID: 70106329001)
  - 2-Butanone (MEK)
- MW-7A (Lab ID: 70106329002)
  - 2-Butanone (MEK)
- MW-7C (Lab ID: 70106329003)
  - 2-Butanone (MEK)
- MW-8B (Lab ID: 70106329004)
  - 2-Butanone (MEK)
- SEEP (Lab ID: 70106329010)
  - 2-Butanone (MEK)
- STORAGE BLANK (Lab ID: 70106329014)
  - 2-Butanone (MEK)
- STREAM (Lab ID: 70106329011)
  - 2-Butanone (MEK)
- TRIP BLANK (Lab ID: 70106329013)
  - 2-Butanone (MEK)

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

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PROJECT NARRATIVE

Project: Ischua Landfill
Pace Project No.: 70106329

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: LaBella Associates
Date: January 08, 2020

QC Batch: 132041

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

- LCS (Lab ID: 631174)
  - Iodomethane
- MS (Lab ID: 635507)
  - Iodomethane
- MSD (Lab ID: 635508)
  - Iodomethane

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.

QC Batch: 132041

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70106329004

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

- MS (Lab ID: 635507)
  - 1,2-Dibromoethane (EDB)
  - trans-1,3-Dichloropropene
- MSD (Lab ID: 635508)
  - 1,2-Dibromoethane (EDB)
  - trans-1,3-Dichloropropene
  - trans-1,4-Dichloro-2-butene

R1: RPD value was outside control limits.

- MSD (Lab ID: 635508)
  - Iodomethane

Additional Comments:

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PROJECT NARRATIVE

Project: Ischua Landfill
Pace Project No.: 70106329

Method: **EPA 8260**
Description: TIC MSV Water
Client: LaBella Associates
Date: January 08, 2020

General Information:
10 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
Pace Project No.: 70106329

Method: **SM22 2320B**
Description: 2320B Alkalinity
Client: LaBella Associates
Date: January 08, 2020

General Information:
9 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
Pace Project No.: 70106329

Method: **SM22 2340C**
Description: 2340C Hardness, Total
Client: LaBella Associates
Date: January 08, 2020

General Information:
10 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
Pace Project No.: 70106329

Method: **SM22 2540C**
Description: 2540C Total Dissolved Solids
Client: LaBella Associates
Date: January 08, 2020

General Information:
10 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
Pace Project No.: 70106329

Method: **EPA 410.4**
Description: 410.4 COD
Client: LaBella Associates
Date: January 08, 2020

General Information:
10 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
Pace Project No.: 70106329

Method: **SM22 5210B**
Description: 5210B BOD, 5 day
Client: LaBella Associates
Date: January 08, 2020

General Information:
10 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
Pace Project No.: 70106329

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: LaBella Associates
Date: January 08, 2020

General Information:
10 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.

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
Pace Project No.: 70106329

Method: **EPA 351.2**
Description: 351.2 Total Kjeldahl Nitrogen
Client: LaBella Associates
Date: January 08, 2020

General Information:
10 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: 133689

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70106329004,70106866002

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

- MS (Lab ID: 639828)
  - Nitrogen, Kjeldahl, Total

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 639826)
  - 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
Pace Project No.: 70106329

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: LaBella Associates
Date: January 08, 2020

General Information:
10 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:

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PROJECT NARRATIVE

Project: Ischua Landfill
Pace Project No.: 70106329

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2
Client: LaBella Associates
Date: January 08, 2020

General Information:
10 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: 131960

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70106449001,70106451001

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

- MS (Lab ID: 630914)
  - 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
Pace Project No.: 70106329

Method: **EPA 420.1**
Description: Phenolics, Total Recoverable
Client: LaBella Associates
Date: January 08, 2020

General Information:
10 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.

QC Batch: 133477

B: Analyte was detected in the associated method blank.
- BLANK for HBN 133477 [WETA/215 (Lab ID: 638980)
  - Phenolics, Total Recoverable

QC Batch: 133478

B: Analyte was detected in the associated method blank.
- BLANK for HBN 133478 [WETA/215 (Lab ID: 638984)
  - Phenolics, Total Recoverable

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: 133477

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70106266003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 638982)
  - Phenolics, Total Recoverable

QC Batch: 133478

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70106329004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 638987)
  - Phenolics, Total Recoverable

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

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PROJECT NARRATIVE

Project: Ischua Landfill
Pace Project No.: 70106329

Method: **EPA 420.1**
Description: Phenolics, Total Recoverable
Client: LaBella Associates
Date: January 08, 2020

QC Batch: 133477

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 638983)
  - Phenolics, Total Recoverable

Additional Comments:

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PROJECT NARRATIVE

Project: Ischua Landfill
Pace Project No.: 70106329

Method: **SM22 4500 NH3 H**
Description: 4500 Ammonia Water
Client: LaBella Associates
Date: January 08, 2020

General Information:
10 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.

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
Pace Project No.: 70106329

Method: **SM22 5310B**
Description: 5310B TOC as NPOC
Client: LaBella Associates
Date: January 08, 2020

General Information:
11 samples were analyzed for SM22 5310B. 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.

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-6D **Lab ID: 70106329001** Collected: 09/25/19 09:30 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	10/03/19 10:14	10/09/19 17:10	7440-43-9	
Calcium	**103000**	ug/L	200	1	10/03/19 10:14	10/09/19 17:10	7440-70-2	
Iron	**512**	ug/L	20.0	1	10/03/19 10:14	10/09/19 17:10	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/03/19 10:14	10/09/19 17:10	7439-92-1	
Magnesium	**27400**	ug/L	200	1	10/03/19 10:14	10/09/19 17:10	7439-95-4	
Manganese	**14.3**	ug/L	10.0	1	10/03/19 10:14	10/09/19 17:10	7439-96-5	
Potassium	**2660J**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:10	7440-09-7	
Sodium	**7200**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:10	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	79-00-5	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 15:10	75-35-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/27/19 15:10	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 15:10	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	78-87-5	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 15:10	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/27/19 15:10	78-93-3	IL
2-Hexanone	**<5.0**	ug/L	5.0	1		09/27/19 15:10	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/27/19 15:10	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		09/27/19 15:10	67-64-1	IC
Acrylonitrile	**<1.0**	ug/L	1.0	1		09/27/19 15:10	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		09/27/19 15:10	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/27/19 15:10	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		09/27/19 15:10	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/27/19 15:10	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 15:10	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/27/19 15:10	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	124-48-1	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	74-95-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/27/19 15:10	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	74-88-4	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/27/19 15:10	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		09/27/19 15:10	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/27/19 15:10	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/27/19 15:10	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-6D **Lab ID: 70106329001** Collected: 09/25/19 09:30 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Trichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 15:10	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/27/19 15:10	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		09/27/19 15:10	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/27/19 15:10	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		09/27/19 15:10	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 15:10	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 15:10	10061-01-5	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/27/19 15:10	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/27/19 15:10	95-47-6	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 15:10	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 15:10	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		09/27/19 15:10	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	68-153	1		09/27/19 15:10	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		09/27/19 15:10	460-00-4	
Toluene-d8 (S)	95	%	69-124	1		09/27/19 15:10	2037-26-5	
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**340**	mg/L	5.0	1		10/03/19 21:24		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**348**	mg/L	20.0	1		10/01/19 10:41		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**<10.0**	mg/L	10.0	1	10/01/19 09:30	10/01/19 11:58		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**1.0J**	mg/L	4.0	2	09/26/19 15:36	10/01/19 11:46		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.052J**	mg/L	0.50	1		10/04/19 22:16	24959-67-9	
Chloride	**2.7**	mg/L	2.0	1		10/04/19 22:16	16887-00-6	
Sulfate	**28.7**	mg/L	5.0	1		10/04/19 22:16	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**<0.10**	mg/L	0.10	1	10/10/19 06:00	10/10/19 12:33	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**0.11**	mg/L	0.050	1		09/27/19 01:34	14797-55-8	
Nitrate-Nitrite (as N)	**0.11**	mg/L	0.050	1		09/27/19 01:34	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/26/19 21:52	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-6D **Lab ID: 70106329001** Collected: 09/25/19 09:30 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**4.1J**	ug/L	5.0	1	10/09/19 07:49	10/09/19 13:11		B
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.033J**	mg/L	0.10	1		10/07/19 13:08	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**0.66J**	mg/L	1.0	1		10/02/19 08:33	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-7A **Lab ID: 70106329002** Collected: 09/25/19 10:15 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	79-00-5	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 15:33	75-35-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/27/19 15:33	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 15:33	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	78-87-5	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 15:33	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/27/19 15:33	78-93-3	IL
2-Hexanone	**<5.0**	ug/L	5.0	1		09/27/19 15:33	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/27/19 15:33	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		09/27/19 15:33	67-64-1	IC
Acrylonitrile	**<1.0**	ug/L	1.0	1		09/27/19 15:33	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		09/27/19 15:33	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/27/19 15:33	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		09/27/19 15:33	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/27/19 15:33	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 15:33	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/27/19 15:33	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	124-48-1	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	74-95-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/27/19 15:33	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	74-88-4	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/27/19 15:33	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		09/27/19 15:33	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/27/19 15:33	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/27/19 15:33	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 15:33	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/27/19 15:33	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		09/27/19 15:33	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/27/19 15:33	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		09/27/19 15:33	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 15:33	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 15:33	10061-01-5	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/27/19 15:33	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/27/19 15:33	95-47-6	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 15:33	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-7A **Lab ID: 70106329002** Collected: 09/25/19 10:15 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 15:33	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		09/27/19 15:33	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	68-153	1		09/27/19 15:33	17060-07-0	
4-Bromofluorobenzene (S)	121	%	79-124	1		09/27/19 15:33	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		09/27/19 15:33	2037-26-5	
Tentatively Identified Compounds								
Sulfur dioxide	**13.1J**	ug/L		1		09/27/19 15:33	7446-09-5	N

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-7C **Lab ID: 70106329003** Collected: 09/25/19 09:45 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	10/03/19 10:14	10/09/19 17:13	7440-43-9	
Calcium	**104000**	ug/L	200	1	10/03/19 10:14	10/09/19 17:13	7440-70-2	
Iron	**30.3**	ug/L	20.0	1	10/03/19 10:14	10/09/19 17:13	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/03/19 10:14	10/09/19 17:13	7439-92-1	
Magnesium	**17000**	ug/L	200	1	10/03/19 10:14	10/09/19 17:13	7439-95-4	
Manganese	**704**	ug/L	10.0	1	10/03/19 10:14	10/09/19 17:13	7439-96-5	
Potassium	**1680J**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:13	7440-09-7	
Sodium	**6710**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:13	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	79-00-5	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 15:56	75-35-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/27/19 15:56	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 15:56	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	78-87-5	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 15:56	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/27/19 15:56	78-93-3	IL
2-Hexanone	**<5.0**	ug/L	5.0	1		09/27/19 15:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/27/19 15:56	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		09/27/19 15:56	67-64-1	IC
Acrylonitrile	**<1.0**	ug/L	1.0	1		09/27/19 15:56	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		09/27/19 15:56	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/27/19 15:56	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		09/27/19 15:56	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/27/19 15:56	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 15:56	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/27/19 15:56	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	124-48-1	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	74-95-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/27/19 15:56	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	74-88-4	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/27/19 15:56	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		09/27/19 15:56	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/27/19 15:56	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/27/19 15:56	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-7C **Lab ID: 70106329003** Collected: 09/25/19 09:45 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Trichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 15:56	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/27/19 15:56	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		09/27/19 15:56	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/27/19 15:56	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		09/27/19 15:56	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 15:56	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 15:56	10061-01-5	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/27/19 15:56	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/27/19 15:56	95-47-6	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 15:56	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 15:56	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		09/27/19 15:56	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	68-153	1		09/27/19 15:56	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		09/27/19 15:56	460-00-4	
Toluene-d8 (S)	95	%	69-124	1		09/27/19 15:56	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**313**	mg/L	1.0	1		09/30/19 17:33		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**300**	mg/L	5.0	1		10/03/19 21:27		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**302**	mg/L	20.0	1		10/01/19 10:42		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**<10.0**	mg/L	10.0	1	10/01/19 09:30	10/01/19 11:58		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**1.0J**	mg/L	4.0	2	09/26/19 15:36	10/01/19 11:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.21J**	mg/L	0.50	1		10/04/19 22:33	24959-67-9	
Chloride	**5.9**	mg/L	2.0	1		10/04/19 22:33	16887-00-6	
Sulfate	**8.3**	mg/L	5.0	1		10/04/19 22:33	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**<0.10**	mg/L	0.10	1	10/10/19 06:00	10/10/19 12:34	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**0.083**	mg/L	0.050	1		09/27/19 01:38	14797-55-8	
Nitrate-Nitrite (as N)	**0.083**	mg/L	0.050	1		09/27/19 01:38	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-7C **Lab ID: 70106329003** Collected: 09/25/19 09:45 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/26/19 21:53	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**4.0J**	ug/L	5.0	1	10/09/19 07:49	10/09/19 13:12		B
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.21**	mg/L	0.10	1		10/07/19 13:09	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**0.70J**	mg/L	1.0	1		10/02/19 08:51	7440-44-0	

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(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-8B **Lab ID: 70106329004** Collected: 09/25/19 13:00 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	10/03/19 10:14	10/09/19 17:15	7440-43-9	
Calcium	**84400**	ug/L	200	1	10/03/19 10:14	10/09/19 17:15	7440-70-2	
Iron	**5010**	ug/L	20.0	1	10/03/19 10:14	10/09/19 17:15	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/03/19 10:14	10/09/19 17:15	7439-92-1	
Magnesium	**12300**	ug/L	200	1	10/03/19 10:14	10/09/19 17:15	7439-95-4	
Manganese	**7520**	ug/L	10.0	1	10/03/19 10:14	10/09/19 17:15	7439-96-5	M1
Potassium	**2760J**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:15	7440-09-7	
Sodium	**7100**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:15	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 16:19	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 16:19	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 16:19	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 16:19	79-00-5	
1,1-Dichloroethane	**1.6**	ug/L	1.0	1		09/27/19 16:19	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 16:19	75-35-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 16:19	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		09/27/19 16:19	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/27/19 16:19	106-93-4	M1
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 16:19	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 16:19	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 16:19	78-87-5	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 16:19	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/27/19 16:19	78-93-3	IL
2-Hexanone	**<5.0**	ug/L	5.0	1		09/27/19 16:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/27/19 16:19	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		09/27/19 16:19	67-64-1	IC
Acrylonitrile	**<1.0**	ug/L	1.0	1		09/27/19 16:19	107-13-1	
Benzene	**1.0**	ug/L	1.0	1		09/27/19 16:19	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 16:19	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/27/19 16:19	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/27/19 16:19	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		09/27/19 16:19	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		09/27/19 16:19	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/27/19 16:19	56-23-5	
Chlorobenzene	**2.3**	ug/L	1.0	1		09/27/19 16:19	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/27/19 16:19	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/27/19 16:19	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/27/19 16:19	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 16:19	124-48-1	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/27/19 16:19	74-95-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/27/19 16:19	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		09/27/19 16:19	74-88-4	R1
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/27/19 16:19	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		09/27/19 16:19	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/27/19 16:19	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/27/19 16:19	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-8B **Lab ID: 70106329004** Collected: 09/25/19 13:00 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Trichloroethene	**1.0**	ug/L	1.0	1		09/27/19 16:19	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/27/19 16:19	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		09/27/19 16:19	108-05-4	
Vinyl chloride	**2.6**	ug/L	1.0	1		09/27/19 16:19	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		09/27/19 16:19	1330-20-7	
cis-1,2-Dichloroethene	**6.3**	ug/L	1.0	1		09/27/19 16:19	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 16:19	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 16:19	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 16:19	10061-02-6	M1
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		09/27/19 16:19	110-57-6	M1
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	68-153	1		09/27/19 16:19	17060-07-0	
4-Bromofluorobenzene (S)	103	%	79-124	1		09/27/19 16:19	460-00-4	
Toluene-d8 (S)	102	%	69-124	1		09/27/19 16:19	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**261**	mg/L	1.0	1		09/30/19 17:46		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**220**	mg/L	5.0	1		10/03/19 21:33		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**306**	mg/L	20.0	1		10/01/19 09:43		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**12.4**	mg/L	10.0	1	10/01/19 09:30	10/01/19 11:58		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**1.4J**	mg/L	2.0	1	09/26/19 15:36	10/01/19 11:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.19J**	mg/L	0.50	1		10/04/19 22:50	24959-67-9	
Chloride	**11.8**	mg/L	2.0	1		10/04/19 22:50	16887-00-6	
Sulfate	**8.5**	mg/L	5.0	1		10/04/19 22:50	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**1.5**	mg/L	0.10	1	10/10/19 06:00	10/10/19 12:35	7727-37-9	M6
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**0.066**	mg/L	0.050	1		09/27/19 01:39	14797-55-8	
Nitrate-Nitrite (as N)	**0.066**	mg/L	0.050	1		09/27/19 01:39	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/26/19 21:57	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-8B **Lab ID: 70106329004** Collected: 09/25/19 13:00 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**4.1J**	ug/L	5.0	1	10/09/19 07:49	10/09/19 13:24		B,M1
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**1.0**	mg/L	0.10	1		10/07/19 13:10	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**2.8**	mg/L	1.0	1		10/02/19 09:44	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-10B **Lab ID: 70106329005** Collected: 09/25/19 11:30 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	10/03/19 10:14	10/09/19 17:31	7440-43-9	
Calcium	**78800**	ug/L	200	1	10/03/19 10:14	10/09/19 17:31	7440-70-2	
Iron	**1450**	ug/L	20.0	1	10/03/19 10:14	10/09/19 17:31	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/03/19 10:14	10/09/19 17:31	7439-92-1	
Magnesium	**24600**	ug/L	200	1	10/03/19 10:14	10/09/19 17:31	7439-95-4	
Manganese	**7210**	ug/L	10.0	1	10/03/19 10:14	10/09/19 17:31	7439-96-5	
Potassium	**2510J**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:31	7440-09-7	
Sodium	**9080**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:31	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 16:42	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 16:42	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 16:42	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 16:42	79-00-5	
1,1-Dichloroethane	**11.6**	ug/L	1.0	1		09/27/19 16:42	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 16:42	75-35-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 16:42	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		09/27/19 16:42	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/27/19 16:42	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 16:42	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 16:42	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 16:42	78-87-5	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 16:42	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/27/19 16:42	78-93-3	IL
2-Hexanone	**<5.0**	ug/L	5.0	1		09/27/19 16:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/27/19 16:42	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		09/27/19 16:42	67-64-1	IC
Acrylonitrile	**<1.0**	ug/L	1.0	1		09/27/19 16:42	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		09/27/19 16:42	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 16:42	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/27/19 16:42	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/27/19 16:42	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		09/27/19 16:42	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		09/27/19 16:42	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/27/19 16:42	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 16:42	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/27/19 16:42	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/27/19 16:42	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/27/19 16:42	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 16:42	124-48-1	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/27/19 16:42	74-95-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/27/19 16:42	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		09/27/19 16:42	74-88-4	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/27/19 16:42	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		09/27/19 16:42	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/27/19 16:42	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/27/19 16:42	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-10B **Lab ID: 70106329005** Collected: 09/25/19 11:30 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Trichloroethene	**1.3**	ug/L	1.0	1		09/27/19 16:42	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/27/19 16:42	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		09/27/19 16:42	108-05-4	
Vinyl chloride	**5.1**	ug/L	1.0	1		09/27/19 16:42	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		09/27/19 16:42	1330-20-7	
cis-1,2-Dichloroethene	**33.6**	ug/L	1.0	1		09/27/19 16:42	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 16:42	10061-01-5	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/27/19 16:42	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/27/19 16:42	95-47-6	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 16:42	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 16:42	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		09/27/19 16:42	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	68-153	1		09/27/19 16:42	17060-07-0	
4-Bromofluorobenzene (S)	104	%	79-124	1		09/27/19 16:42	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		09/27/19 16:42	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TICs Found**			1		10/09/19 11:31		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**302**	mg/L	1.0	1		09/30/19 18:28		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**260**	mg/L	5.0	1		10/03/19 21:46		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**326**	mg/L	20.0	1		10/01/19 09:44		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**21.2**	mg/L	10.0	1	10/04/19 10:35	10/04/19 12:54		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**1.7J**	mg/L	2.0	1	09/26/19 15:36	10/01/19 11:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.27J**	mg/L	0.50	1		10/05/19 00:13	24959-67-9	
Chloride	**8.5**	mg/L	2.0	1		10/05/19 00:13	16887-00-6	
Sulfate	**7.0**	mg/L	5.0	1		10/05/19 00:13	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**1.4**	mg/L	0.10	1	10/10/19 06:00	10/10/19 12:37	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**0.030J**	mg/L	0.050	1		09/27/19 01:42	14797-55-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-10B **Lab ID: 70106329005** Collected: 09/25/19 11:30 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.030J**	mg/L	0.050	1		09/27/19 01:42	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/26/19 22:00	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**4.0J**	ug/L	5.0	1	10/09/19 07:49	10/09/19 13:12		B
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.83**	mg/L	0.10	1		10/07/19 13:14	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**2.0**	mg/L	1.0	1		10/02/19 10:56	7440-44-0	

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-11B **Lab ID: 70106329006** Collected: 09/25/19 10:30 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:05	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:05	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:05	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:05	79-00-5	
1,1-Dichloroethane	**3.1**	ug/L	1.0	1		09/27/19 17:05	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 17:05	75-35-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 17:05	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		09/27/19 17:05	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/27/19 17:05	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 17:05	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:05	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 17:05	78-87-5	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 17:05	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/27/19 17:05	78-93-3	IL
2-Hexanone	**<5.0**	ug/L	5.0	1		09/27/19 17:05	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/27/19 17:05	108-10-1	
Acetone	**2.8J**	ug/L	5.0	1		09/27/19 17:05	67-64-1	IC
Acrylonitrile	**<1.0**	ug/L	1.0	1		09/27/19 17:05	107-13-1	
Benzene	**1.7**	ug/L	1.0	1		09/27/19 17:05	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 17:05	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/27/19 17:05	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/27/19 17:05	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		09/27/19 17:05	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		09/27/19 17:05	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/27/19 17:05	56-23-5	
Chlorobenzene	**1.8**	ug/L	1.0	1		09/27/19 17:05	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:05	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/27/19 17:05	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/27/19 17:05	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 17:05	124-48-1	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/27/19 17:05	74-95-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/27/19 17:05	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		09/27/19 17:05	74-88-4	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/27/19 17:05	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		09/27/19 17:05	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/27/19 17:05	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/27/19 17:05	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 17:05	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/27/19 17:05	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		09/27/19 17:05	108-05-4	
Vinyl chloride	**2.1**	ug/L	1.0	1		09/27/19 17:05	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		09/27/19 17:05	1330-20-7	
cis-1,2-Dichloroethene	**5.2**	ug/L	1.0	1		09/27/19 17:05	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 17:05	10061-01-5	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/27/19 17:05	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/27/19 17:05	95-47-6	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 17:05	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-11B **Lab ID: 70106329006** Collected: 09/25/19 10:30 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 17:05	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		09/27/19 17:05	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	68-153	1		09/27/19 17:05	17060-07-0	
4-Bromofluorobenzene (S)	120	%	79-124	1		09/27/19 17:05	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		09/27/19 17:05	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TICs Found**			1		10/09/19 11:31		
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**8.4**	mg/L	1.0	1		10/02/19 11:18	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-12B **Lab ID: 70106329007** Collected: 09/25/19 10:45 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	10/03/19 10:14	10/09/19 17:34	7440-43-9	
Calcium	**126000**	ug/L	200	1	10/03/19 10:14	10/09/19 17:34	7440-70-2	
Iron	**18100**	ug/L	20.0	1	10/03/19 10:14	10/09/19 17:34	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/03/19 10:14	10/09/19 17:34	7439-92-1	
Magnesium	**25500**	ug/L	200	1	10/03/19 10:14	10/09/19 17:34	7439-95-4	
Manganese	**10300**	ug/L	10.0	1	10/03/19 10:14	10/09/19 17:34	7439-96-5	
Potassium	**6730**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:34	7440-09-7	
Sodium	**14800**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:34	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:28	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:28	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:28	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:28	79-00-5	
1,1-Dichloroethane	**5.4**	ug/L	1.0	1		09/27/19 17:28	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 17:28	75-35-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 17:28	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		09/27/19 17:28	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/27/19 17:28	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 17:28	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:28	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 17:28	78-87-5	
1,4-Dichlorobenzene	**2.3**	ug/L	1.0	1		09/27/19 17:28	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/27/19 17:28	78-93-3	IL
2-Hexanone	**<5.0**	ug/L	5.0	1		09/27/19 17:28	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/27/19 17:28	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		09/27/19 17:28	67-64-1	IC
Acrylonitrile	**<1.0**	ug/L	1.0	1		09/27/19 17:28	107-13-1	
Benzene	**4.7**	ug/L	1.0	1		09/27/19 17:28	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 17:28	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/27/19 17:28	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/27/19 17:28	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		09/27/19 17:28	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		09/27/19 17:28	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/27/19 17:28	56-23-5	
Chlorobenzene	**6.9**	ug/L	1.0	1		09/27/19 17:28	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:28	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/27/19 17:28	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/27/19 17:28	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 17:28	124-48-1	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/27/19 17:28	74-95-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/27/19 17:28	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		09/27/19 17:28	74-88-4	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/27/19 17:28	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		09/27/19 17:28	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/27/19 17:28	127-18-4	
Toluene	**1.2**	ug/L	1.0	1		09/27/19 17:28	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-12B **Lab ID: 70106329007** Collected: 09/25/19 10:45 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Trichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 17:28	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/27/19 17:28	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		09/27/19 17:28	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/27/19 17:28	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		09/27/19 17:28	1330-20-7	
cis-1,2-Dichloroethene	**1.2**	ug/L	1.0	1		09/27/19 17:28	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 17:28	10061-01-5	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/27/19 17:28	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/27/19 17:28	95-47-6	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 17:28	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 17:28	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		09/27/19 17:28	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	68-153	1		09/27/19 17:28	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-124	1		09/27/19 17:28	460-00-4	
Toluene-d8 (S)	95	%	69-124	1		09/27/19 17:28	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TICs Found**			1		10/09/19 11:31		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**468**	mg/L	1.0	1		09/30/19 18:47		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**200**	mg/L	5.0	1		10/03/19 21:50		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**466**	mg/L	20.0	1		10/01/19 09:54		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**58.7**	mg/L	10.0	1	10/04/19 10:35	10/04/19 12:55		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**8.1**	mg/L	6.7	3.33	09/26/19 15:36	10/01/19 11:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.54**	mg/L	0.50	1		10/05/19 00:30	24959-67-9	
Chloride	**13.7**	mg/L	2.0	1		10/05/19 00:30	16887-00-6	
Sulfate	**<5.0**	mg/L	5.0	1		10/05/19 00:30	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**10.1**	mg/L	0.50	5	10/10/19 06:00	10/10/19 13:24	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**0.12**	mg/L	0.050	1		09/27/19 01:43	14797-55-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-12B **Lab ID: 70106329007** Collected: 09/25/19 10:45 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.12**	mg/L	0.050	1		09/27/19 01:43	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/26/19 22:01	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**4.0J**	ug/L	5.0	1	10/09/19 07:49	10/09/19 13:13		B
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**8.6**	mg/L	1.0	10		10/07/19 13:47	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**9.7**	mg/L	1.0	1		10/02/19 11:39	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-13 **Lab ID: 70106329008** Collected: 09/25/19 11:15 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	10/03/19 10:14	10/09/19 17:36	7440-43-9	
Calcium	**42200**	ug/L	200	1	10/03/19 10:14	10/09/19 17:36	7440-70-2	
Iron	**162**	ug/L	20.0	1	10/03/19 10:14	10/09/19 17:36	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/03/19 10:14	10/09/19 17:36	7439-92-1	
Magnesium	**11900**	ug/L	200	1	10/03/19 10:14	10/09/19 17:36	7439-95-4	
Manganese	**259**	ug/L	10.0	1	10/03/19 10:14	10/09/19 17:36	7439-96-5	
Potassium	**<5000**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:36	7440-09-7	
Sodium	**9590**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:36	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	79-00-5	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 17:50	75-35-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/27/19 17:50	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 17:50	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	78-87-5	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 17:50	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/27/19 17:50	78-93-3	IL
2-Hexanone	**<5.0**	ug/L	5.0	1		09/27/19 17:50	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/27/19 17:50	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		09/27/19 17:50	67-64-1	IC
Acrylonitrile	**<1.0**	ug/L	1.0	1		09/27/19 17:50	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		09/27/19 17:50	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/27/19 17:50	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		09/27/19 17:50	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/27/19 17:50	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 17:50	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/27/19 17:50	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	124-48-1	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	74-95-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/27/19 17:50	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	74-88-4	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/27/19 17:50	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		09/27/19 17:50	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/27/19 17:50	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/27/19 17:50	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-13 **Lab ID: 70106329008** Collected: 09/25/19 11:15 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Trichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 17:50	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/27/19 17:50	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		09/27/19 17:50	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/27/19 17:50	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		09/27/19 17:50	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 17:50	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 17:50	10061-01-5	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/27/19 17:50	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/27/19 17:50	95-47-6	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 17:50	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 17:50	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		09/27/19 17:50	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	68-153	1		09/27/19 17:50	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-124	1		09/27/19 17:50	460-00-4	
Toluene-d8 (S)	93	%	69-124	1		09/27/19 17:50	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TICs Found**			1		10/09/19 11:31		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**156**	mg/L	1.0	1		09/30/19 18:57		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**133**	mg/L	5.0	1		10/03/19 21:50		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**173**	mg/L	10.0	1		10/01/19 09:54		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**14.6**	mg/L	10.0	1	10/04/19 10:35	10/04/19 12:55		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**1.0J**	mg/L	2.0	1	09/26/19 15:36	10/01/19 12:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.18J**	mg/L	0.50	1		10/05/19 00:47	24959-67-9	
Chloride	**3.2**	mg/L	2.0	1		10/05/19 00:47	16887-00-6	
Sulfate	**4.1J**	mg/L	5.0	1		10/05/19 00:47	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.63**	mg/L	0.10	1	10/10/19 06:00	10/10/19 12:39	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**0.073**	mg/L	0.050	1		09/27/19 01:45	14797-55-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-13 **Lab ID: 70106329008** Collected: 09/25/19 11:15 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.073**	mg/L	0.050	1		09/27/19 01:45	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/26/19 22:03	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**4.0J**	ug/L	5.0	1	10/09/19 07:49	10/09/19 13:14		B
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**<0.10**	mg/L	0.10	1		10/07/19 13:18	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**2.2**	mg/L	1.0	1		10/02/19 12:11	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-14 **Lab ID: 70106329009** Collected: 09/25/19 11:00 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	10/03/19 10:14	10/09/19 17:38	7440-43-9	
Calcium	**56800**	ug/L	200	1	10/03/19 10:14	10/09/19 17:38	7440-70-2	
Iron	**15.3J**	ug/L	20.0	1	10/03/19 10:14	10/09/19 17:38	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/03/19 10:14	10/09/19 17:38	7439-92-1	
Magnesium	**14000**	ug/L	200	1	10/03/19 10:14	10/09/19 17:38	7439-95-4	
Manganese	**60.2**	ug/L	10.0	1	10/03/19 10:14	10/09/19 17:38	7439-96-5	
Potassium	**1620J**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:38	7440-09-7	
Sodium	**8990**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:38	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	79-00-5	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 18:13	75-35-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/27/19 18:13	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 18:13	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	78-87-5	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 18:13	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/27/19 18:13	78-93-3	IL
2-Hexanone	**<5.0**	ug/L	5.0	1		09/27/19 18:13	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/27/19 18:13	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		09/27/19 18:13	67-64-1	IC
Acrylonitrile	**<1.0**	ug/L	1.0	1		09/27/19 18:13	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		09/27/19 18:13	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/27/19 18:13	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		09/27/19 18:13	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/27/19 18:13	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 18:13	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/27/19 18:13	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	124-48-1	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	74-95-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/27/19 18:13	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	74-88-4	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/27/19 18:13	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		09/27/19 18:13	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/27/19 18:13	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/27/19 18:13	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-14 **Lab ID: 70106329009** Collected: 09/25/19 11:00 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Trichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 18:13	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/27/19 18:13	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		09/27/19 18:13	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/27/19 18:13	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		09/27/19 18:13	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 18:13	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 18:13	10061-01-5	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/27/19 18:13	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/27/19 18:13	95-47-6	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 18:13	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 18:13	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		09/27/19 18:13	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	68-153	1		09/27/19 18:13	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-124	1		09/27/19 18:13	460-00-4	
Toluene-d8 (S)	94	%	69-124	1		09/27/19 18:13	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TICs Found**			1		10/09/19 11:32		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**204**	mg/L	1.0	1		09/30/19 19:08		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**193**	mg/L	5.0	1		10/03/19 22:00		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**209**	mg/L	10.0	1		10/01/19 09:55		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**25.6**	mg/L	10.0	1	10/04/19 10:35	10/04/19 12:55		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**1.0J**	mg/L	2.0	1	09/26/19 15:37	10/01/19 12:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.046J**	mg/L	0.50	1		10/05/19 01:03	24959-67-9	
Chloride	**2.4**	mg/L	2.0	1		10/05/19 01:03	16887-00-6	
Sulfate	**16.0**	mg/L	5.0	1		10/05/19 01:03	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**<0.10**	mg/L	0.10	1	10/10/19 06:00	10/10/19 12:40	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**0.093**	mg/L	0.050	1		09/27/19 01:51	14797-55-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: MW-14 **Lab ID: 70106329009** Collected: 09/25/19 11:00 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.093**	mg/L	0.050	1		09/27/19 01:51	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/26/19 22:06	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**4.0J**	ug/L	5.0	1	10/09/19 07:49	10/09/19 13:15		B
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**<0.10**	mg/L	0.10	1		10/07/19 13:22	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**1.3**	mg/L	1.0	1		10/02/19 12:30	7440-44-0	

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: SEEP **Lab ID: 70106329010** Collected: 09/25/19 12:30 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	10/03/19 10:14	10/09/19 17:41	7440-43-9	
Calcium	**63500**	ug/L	200	1	10/03/19 10:14	10/09/19 17:41	7440-70-2	
Iron	**32900**	ug/L	20.0	1	10/03/19 10:14	10/09/19 17:41	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/03/19 10:14	10/09/19 17:41	7439-92-1	
Magnesium	**23200**	ug/L	200	1	10/03/19 10:14	10/09/19 17:41	7439-95-4	
Manganese	**11700**	ug/L	10.0	1	10/03/19 10:14	10/09/19 17:41	7439-96-5	
Potassium	**3730J**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:41	7440-09-7	
Sodium	**6920**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:41	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:36	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:36	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:36	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:36	79-00-5	
1,1-Dichloroethane	**4.2**	ug/L	1.0	1		09/27/19 18:36	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 18:36	75-35-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 18:36	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		09/27/19 18:36	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/27/19 18:36	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 18:36	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:36	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 18:36	78-87-5	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 18:36	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/27/19 18:36	78-93-3	IL
2-Hexanone	**<5.0**	ug/L	5.0	1		09/27/19 18:36	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/27/19 18:36	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		09/27/19 18:36	67-64-1	IC
Acrylonitrile	**<1.0**	ug/L	1.0	1		09/27/19 18:36	107-13-1	
Benzene	**0.64J**	ug/L	1.0	1		09/27/19 18:36	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 18:36	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/27/19 18:36	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/27/19 18:36	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		09/27/19 18:36	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		09/27/19 18:36	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/27/19 18:36	56-23-5	
Chlorobenzene	**1.1**	ug/L	1.0	1		09/27/19 18:36	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:36	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/27/19 18:36	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/27/19 18:36	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 18:36	124-48-1	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/27/19 18:36	74-95-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/27/19 18:36	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		09/27/19 18:36	74-88-4	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/27/19 18:36	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		09/27/19 18:36	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/27/19 18:36	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/27/19 18:36	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: SEEP **Lab ID: 70106329010** Collected: 09/25/19 12:30 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Trichloroethene	**1.8**	ug/L	1.0	1		09/27/19 18:36	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/27/19 18:36	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		09/27/19 18:36	108-05-4	
Vinyl chloride	**2.9**	ug/L	1.0	1		09/27/19 18:36	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		09/27/19 18:36	1330-20-7	
cis-1,2-Dichloroethene	**18.8**	ug/L	1.0	1		09/27/19 18:36	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 18:36	10061-01-5	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/27/19 18:36	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/27/19 18:36	95-47-6	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 18:36	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 18:36	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		09/27/19 18:36	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	68-153	1		09/27/19 18:36	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-124	1		09/27/19 18:36	460-00-4	
Toluene-d8 (S)	90	%	69-124	1		09/27/19 18:36	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TICs Found**			1		10/09/19 11:32		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**260**	mg/L	1.0	1		09/30/19 19:21		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**200**	mg/L	5.0	1		10/03/19 22:07		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**272**	mg/L	20.0	1		10/01/19 09:55		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**85.2**	mg/L	10.0	1	10/04/19 10:35	10/04/19 12:55		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**2.1**	mg/L	2.0	1	09/26/19 15:37	10/01/19 12:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.29J**	mg/L	0.50	1		10/05/19 01:20	24959-67-9	
Chloride	**7.2**	mg/L	2.0	1		10/05/19 01:20	16887-00-6	
Sulfate	**5.6**	mg/L	5.0	1		10/05/19 01:20	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**3.2**	mg/L	0.10	1	10/10/19 06:00	10/10/19 12:41	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**<0.050**	mg/L	0.050	1		09/27/19 01:52	14797-55-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: SEEP **Lab ID: 70106329010** Collected: 09/25/19 12:30 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		09/27/19 01:52	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/26/19 22:07	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**4.0J**	ug/L	5.0	1	10/09/19 07:49	10/09/19 13:16		B
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**2.4**	mg/L	0.10	1		10/07/19 13:23	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**7.5**	mg/L	1.0	1		10/02/19 13:24	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: STREAM **Lab ID: 70106329011** Collected: 09/25/19 12:00 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	10/03/19 10:14	10/09/19 17:43	7440-43-9	
Calcium	**42000**	ug/L	200	1	10/03/19 10:14	10/09/19 17:43	7440-70-2	
Iron	**79.0**	ug/L	20.0	1	10/03/19 10:14	10/09/19 17:43	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/03/19 10:14	10/09/19 17:43	7439-92-1	
Magnesium	**12300**	ug/L	200	1	10/03/19 10:14	10/09/19 17:43	7439-95-4	
Manganese	**2330**	ug/L	10.0	1	10/03/19 10:14	10/09/19 17:43	7439-96-5	
Potassium	**2200J**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:43	7440-09-7	
Sodium	**3890J**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:43	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	79-00-5	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 18:59	75-35-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/27/19 18:59	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 18:59	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	78-87-5	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 18:59	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/27/19 18:59	78-93-3	IL
2-Hexanone	**<5.0**	ug/L	5.0	1		09/27/19 18:59	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/27/19 18:59	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		09/27/19 18:59	67-64-1	IC
Acrylonitrile	**<1.0**	ug/L	1.0	1		09/27/19 18:59	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		09/27/19 18:59	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/27/19 18:59	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		09/27/19 18:59	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/27/19 18:59	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 18:59	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/27/19 18:59	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	124-48-1	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	74-95-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/27/19 18:59	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	74-88-4	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/27/19 18:59	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		09/27/19 18:59	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/27/19 18:59	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/27/19 18:59	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: STREAM **Lab ID: 70106329011** Collected: 09/25/19 12:00 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Trichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 18:59	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/27/19 18:59	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		09/27/19 18:59	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/27/19 18:59	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		09/27/19 18:59	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 18:59	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 18:59	10061-01-5	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/27/19 18:59	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/27/19 18:59	95-47-6	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 18:59	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 18:59	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		09/27/19 18:59	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	68-153	1		09/27/19 18:59	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-124	1		09/27/19 18:59	460-00-4	
Toluene-d8 (S)	94	%	69-124	1		09/27/19 18:59	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TICs Found**			1		10/09/19 11:32		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**145**	mg/L	1.0	1		09/30/19 19:31		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**140**	mg/L	5.0	1		10/03/19 22:19		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**168**	mg/L	10.0	1		10/01/19 09:56		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**25.6**	mg/L	10.0	1	10/04/19 10:35	10/04/19 12:55		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**1.8J**	mg/L	2.0	1	09/26/19 15:37	10/01/19 12:08		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.25J**	mg/L	0.50	1		10/05/19 01:37	24959-67-9	
Chloride	**3.7**	mg/L	2.0	1		10/05/19 01:37	16887-00-6	
Sulfate	**8.3**	mg/L	5.0	1		10/05/19 01:37	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.49**	mg/L	0.10	1	10/10/19 06:00	10/10/19 12:43	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**0.074**	mg/L	0.050	1		09/27/19 01:53	14797-55-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: STREAM **Lab ID: 70106329011** Collected: 09/25/19 12:00 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.074**	mg/L	0.050	1		09/27/19 01:53	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/26/19 22:08	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**4.0J**	ug/L	5.0	1	10/09/19 07:49	10/09/19 13:16		B
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.044J**	mg/L	0.10	1		10/07/19 13:24	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**4.9**	mg/L	1.0	1		10/02/19 13:45	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: DUP **Lab ID: 70106329012** Collected: 09/25/19 00:00 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	10/03/19 10:14	10/09/19 17:45	7440-43-9	
Calcium	**77800**	ug/L	200	1	10/03/19 10:14	10/09/19 17:45	7440-70-2	
Iron	**1430**	ug/L	20.0	1	10/03/19 10:14	10/09/19 17:45	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/03/19 10:14	10/09/19 17:45	7439-92-1	
Magnesium	**24300**	ug/L	200	1	10/03/19 10:14	10/09/19 17:45	7439-95-4	
Manganese	**7120**	ug/L	10.0	1	10/03/19 10:14	10/09/19 17:45	7439-96-5	
Potassium	**2300J**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:45	7440-09-7	
Sodium	**8880**	ug/L	5000	1	10/03/19 10:14	10/09/19 17:45	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 19:22	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 19:22	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 19:22	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 19:22	79-00-5	
1,1-Dichloroethane	**16.6**	ug/L	1.0	1		09/27/19 19:22	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 19:22	75-35-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 19:22	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		09/27/19 19:22	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/27/19 19:22	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 19:22	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 19:22	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 19:22	78-87-5	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 19:22	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/27/19 19:22	78-93-3	IL
2-Hexanone	**<5.0**	ug/L	5.0	1		09/27/19 19:22	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/27/19 19:22	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		09/27/19 19:22	67-64-1	IC
Acrylonitrile	**<1.0**	ug/L	1.0	1		09/27/19 19:22	107-13-1	
Benzene	**0.86J**	ug/L	1.0	1		09/27/19 19:22	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 19:22	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/27/19 19:22	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/27/19 19:22	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		09/27/19 19:22	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		09/27/19 19:22	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/27/19 19:22	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 19:22	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/27/19 19:22	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/27/19 19:22	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/27/19 19:22	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 19:22	124-48-1	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/27/19 19:22	74-95-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/27/19 19:22	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		09/27/19 19:22	74-88-4	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/27/19 19:22	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		09/27/19 19:22	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/27/19 19:22	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/27/19 19:22	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: DUP **Lab ID: 70106329012** Collected: 09/25/19 00:00 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Trichloroethene	**1.4**	ug/L	1.0	1		09/27/19 19:22	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/27/19 19:22	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		09/27/19 19:22	108-05-4	
Vinyl chloride	**7.1**	ug/L	1.0	1		09/27/19 19:22	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		09/27/19 19:22	1330-20-7	
cis-1,2-Dichloroethene	**35.1**	ug/L	1.0	1		09/27/19 19:22	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 19:22	10061-01-5	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/27/19 19:22	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/27/19 19:22	95-47-6	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 19:22	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 19:22	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		09/27/19 19:22	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	68-153	1		09/27/19 19:22	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		09/27/19 19:22	460-00-4	
Toluene-d8 (S)	94	%	69-124	1		09/27/19 19:22	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TICs Found**			1		10/09/19 11:32		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**292**	mg/L	1.0	1		09/30/19 20:00		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**300**	mg/L	5.0	1		10/03/19 22:28		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**306**	mg/L	20.0	1		10/01/19 09:56		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**30.0**	mg/L	10.0	1	10/04/19 10:35	10/04/19 12:55		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**1.8J**	mg/L	2.0	1	09/26/19 15:37	10/01/19 12:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.29J**	mg/L	0.50	1		10/05/19 01:54	24959-67-9	
Chloride	**9.3**	mg/L	2.0	1		10/05/19 01:54	16887-00-6	
Sulfate	**7.7**	mg/L	5.0	1		10/05/19 01:54	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**1.0**	mg/L	0.10	1	10/10/19 06:00	10/10/19 12:44	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**0.049J**	mg/L	0.050	1		09/27/19 01:54	14797-55-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: DUP **Lab ID: 70106329012** Collected: 09/25/19 00:00 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.049J**	mg/L	0.050	1		09/27/19 01:54	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/26/19 22:10	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**4.0J**	ug/L	5.0	1	10/09/19 07:49	10/09/19 13:17		B
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.61**	mg/L	0.10	1		10/07/19 13:26	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**2.4**	mg/L	1.0	1		10/02/19 14:05	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: TRIP BLANK **Lab ID: 70106329013** Collected: 09/25/19 00:00 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	79-00-5	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 13:33	75-35-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/27/19 13:33	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 13:33	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	78-87-5	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 13:33	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/27/19 13:33	78-93-3	IL
2-Hexanone	**<5.0**	ug/L	5.0	1		09/27/19 13:33	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/27/19 13:33	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		09/27/19 13:33	67-64-1	IC
Acrylonitrile	**<1.0**	ug/L	1.0	1		09/27/19 13:33	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		09/27/19 13:33	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/27/19 13:33	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		09/27/19 13:33	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/27/19 13:33	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 13:33	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/27/19 13:33	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	124-48-1	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	74-95-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/27/19 13:33	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	74-88-4	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/27/19 13:33	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		09/27/19 13:33	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/27/19 13:33	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/27/19 13:33	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 13:33	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/27/19 13:33	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		09/27/19 13:33	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/27/19 13:33	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		09/27/19 13:33	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 13:33	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 13:33	10061-01-5	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/27/19 13:33	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/27/19 13:33	95-47-6	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 13:33	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: TRIP BLANK **Lab ID: 70106329013** Collected: 09/25/19 00:00 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 13:33	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		09/27/19 13:33	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	68-153	1		09/27/19 13:33	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-124	1		09/27/19 13:33	460-00-4	
Toluene-d8 (S)	85	%	69-124	1		09/27/19 13:33	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TICs Found**			1		10/09/19 11:30		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: STORAGE BLANK **Lab ID: 70106329014** Collected: 09/26/19 00:00 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	79-00-5	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 13:56	75-35-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/27/19 13:56	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 13:56	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	78-87-5	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 13:56	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/27/19 13:56	78-93-3	IL
2-Hexanone	**<5.0**	ug/L	5.0	1		09/27/19 13:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/27/19 13:56	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		09/27/19 13:56	67-64-1	IC
Acrylonitrile	**<1.0**	ug/L	1.0	1		09/27/19 13:56	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		09/27/19 13:56	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/27/19 13:56	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		09/27/19 13:56	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/27/19 13:56	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/27/19 13:56	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/27/19 13:56	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	124-48-1	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	74-95-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/27/19 13:56	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	74-88-4	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/27/19 13:56	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		09/27/19 13:56	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/27/19 13:56	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/27/19 13:56	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 13:56	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/27/19 13:56	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		09/27/19 13:56	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/27/19 13:56	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		09/27/19 13:56	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 13:56	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 13:56	10061-01-5	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/27/19 13:56	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/27/19 13:56	95-47-6	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/27/19 13:56	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill
Pace Project No.: 70106329

Sample: STORAGE BLANK **Lab ID: 70106329014** Collected: 09/26/19 00:00 Received: 09/26/19 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/27/19 13:56	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		09/27/19 13:56	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	68-153	1		09/27/19 13:56	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-124	1		09/27/19 13:56	460-00-4	
Toluene-d8 (S)	93	%	69-124	1		09/27/19 13:56	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TICs Found**			1		10/09/19 11:30		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 132791 Analysis Method: EPA 6010C
QC Batch Method: EPA 3005A Analysis Description: 6010 MET Water
Associated Lab Samples: 70106329001, 70106329003, 70106329004, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

METHOD BLANK: 635175 Matrix: Water
Associated Lab Samples: 70106329001, 70106329003, 70106329004, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	ug/L	<2.5	2.5	10/09/19 17:01	
Calcium	ug/L	<200	200	10/09/19 17:01	
Iron	ug/L	<20.0	20.0	10/09/19 17:01	
Lead	ug/L	<5.0	5.0	10/09/19 17:01	
Magnesium	ug/L	<200	200	10/09/19 17:01	
Manganese	ug/L	<10.0	10.0	10/09/19 17:01	
Potassium	ug/L	<5000	5000	10/09/19 17:01	
Sodium	ug/L	<5000	5000	10/09/19 17:01	

LABORATORY CONTROL SAMPLE: 635176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	50	49.2	98	80-120	
Calcium	ug/L	25000	24800	99	80-120	
Iron	ug/L	2000	1980	99	80-120	
Lead	ug/L	500	493	99	80-120	
Magnesium	ug/L	25000	24500	98	80-120	
Manganese	ug/L	250	247	99	80-120	
Potassium	ug/L	50000	46500	93	80-120	
Sodium	ug/L	50000	48800	98	80-120	

MATRIX SPIKE SAMPLE: 635178

Parameter	Units	70106329004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	<2.5	50	49.8	99	75-125	
Calcium	ug/L	84400	25000	105000	82	75-125	
Iron	ug/L	5010	2000	6780	88	75-125	
Lead	ug/L	<5.0	500	502	100	75-125	
Magnesium	ug/L	12300	25000	36600	97	75-125	
Manganese	ug/L	7520	250	7450	-28	75-125	M1
Potassium	ug/L	2760J	50000	48300	91	75-125	
Sodium	ug/L	7100	50000	56500	99	75-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

SAMPLE DUPLICATE: 635177

Parameter	Units	70106329004 Result	Dup Result	RPD	Qualifiers
Cadmium	ug/L	<2.5	<2.5		
Calcium	ug/L	84400	82300	3	
Iron	ug/L	5010	4880	3	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	12300	12000	2	
Manganese	ug/L	7520	7330	3	
Potassium	ug/L	2760J	2720J		
Sodium	ug/L	7100	6890	3	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 132041 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 70106329001, 70106329002, 70106329003, 70106329004, 70106329005, 70106329006, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012, 70106329013, 70106329014

METHOD BLANK: 631173 Matrix: Water
Associated Lab Samples: 70106329001, 70106329002, 70106329003, 70106329004, 70106329005, 70106329006, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012, 70106329013, 70106329014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	09/27/19 11:37	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	09/27/19 11:37	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	09/27/19 11:37	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	09/27/19 11:37	
1,1-Dichloroethane	ug/L	<1.0	1.0	09/27/19 11:37	
1,1-Dichloroethene	ug/L	<1.0	1.0	09/27/19 11:37	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	09/27/19 11:37	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	1.0	09/27/19 11:37	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	09/27/19 11:37	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	09/27/19 11:37	
1,2-Dichloroethane	ug/L	<1.0	1.0	09/27/19 11:37	
1,2-Dichloropropane	ug/L	<1.0	1.0	09/27/19 11:37	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	09/27/19 11:37	
2-Butanone (MEK)	ug/L	<5.0	5.0	09/27/19 11:37	IL
2-Hexanone	ug/L	<5.0	5.0	09/27/19 11:37	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	09/27/19 11:37	
Acetone	ug/L	<5.0	5.0	09/27/19 11:37	IC
Acrylonitrile	ug/L	<1.0	1.0	09/27/19 11:37	
Benzene	ug/L	<1.0	1.0	09/27/19 11:37	
Bromochloromethane	ug/L	<1.0	1.0	09/27/19 11:37	
Bromodichloromethane	ug/L	<1.0	1.0	09/27/19 11:37	
Bromoform	ug/L	<1.0	1.0	09/27/19 11:37	
Bromomethane	ug/L	<1.0	1.0	09/27/19 11:37	
Carbon disulfide	ug/L	<1.0	1.0	09/27/19 11:37	
Carbon tetrachloride	ug/L	<1.0	1.0	09/27/19 11:37	
Chlorobenzene	ug/L	<1.0	1.0	09/27/19 11:37	
Chloroethane	ug/L	<1.0	1.0	09/27/19 11:37	
Chloroform	ug/L	<1.0	1.0	09/27/19 11:37	
Chloromethane	ug/L	<1.0	1.0	09/27/19 11:37	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	09/27/19 11:37	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	09/27/19 11:37	
Dibromochloromethane	ug/L	<1.0	1.0	09/27/19 11:37	
Dibromomethane	ug/L	<1.0	1.0	09/27/19 11:37	
Ethylbenzene	ug/L	<1.0	1.0	09/27/19 11:37	
Iodomethane	ug/L	<1.0	1.0	09/27/19 11:37	
m&p-Xylene	ug/L	<2.0	2.0	09/27/19 11:37	
Methylene Chloride	ug/L	<1.0	1.0	09/27/19 11:37	
o-Xylene	ug/L	<1.0	1.0	09/27/19 11:37	
Styrene	ug/L	<1.0	1.0	09/27/19 11:37	
Tetrachloroethene	ug/L	<1.0	1.0	09/27/19 11:37	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

METHOD BLANK: 631173 Matrix: Water

Associated Lab Samples: 70106329001, 70106329002, 70106329003, 70106329004, 70106329005, 70106329006, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012, 70106329013, 70106329014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	<1.0	1.0	09/27/19 11:37	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	09/27/19 11:37	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	09/27/19 11:37	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	09/27/19 11:37	
Trichloroethene	ug/L	<1.0	1.0	09/27/19 11:37	
Trichlorofluoromethane	ug/L	<1.0	1.0	09/27/19 11:37	
Vinyl acetate	ug/L	<1.0	1.0	09/27/19 11:37	
Vinyl chloride	ug/L	<1.0	1.0	09/27/19 11:37	
Xylene (Total)	ug/L	<3.0	3.0	09/27/19 11:37	
1,2-Dichloroethane-d4 (S)	%	99	68-153	09/27/19 11:37	
4-Bromofluorobenzene (S)	%	94	79-124	09/27/19 11:37	
Toluene-d8 (S)	%	94	69-124	09/27/19 11:37	

LABORATORY CONTROL SAMPLE: 631174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	39.6	79	74-113	
1,1,1-Trichloroethane	ug/L	50	45.6	91	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	46.3	93	74-121	
1,1,2-Trichloroethane	ug/L	50	46.7	93	80-117	
1,1-Dichloroethane	ug/L	50	43.3	87	83-151	
1,1-Dichloroethene	ug/L	50	47.5	95	45-146	
1,2,3-Trichloropropane	ug/L	50	41.0	82	71-123	
1,2-Dibromo-3-chloropropane	ug/L	50	42.2	84	74-119	
1,2-Dibromoethane (EDB)	ug/L	50	44.6	89	83-115	
1,2-Dichlorobenzene	ug/L	50	42.6	85	74-113	
1,2-Dichloroethane	ug/L	50	49.9	100	74-129	
1,2-Dichloropropane	ug/L	50	40.6	81	75-117	
1,4-Dichlorobenzene	ug/L	50	42.6	85	71-113	
2-Butanone (MEK)	ug/L	50	39.0	78	44-162	IL
2-Hexanone	ug/L	50	42.2	84	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.8	96	69-132	
Acetone	ug/L	50	50.9	102	23-188	IC
Acrylonitrile	ug/L	50	40.4	81	59-148	
Benzene	ug/L	50	41.3	83	73-119	
Bromochloromethane	ug/L	50	45.4	91	81-116	
Bromodichloromethane	ug/L	50	45.9	92	78-117	
Bromoform	ug/L	50	33.6	67	65-122	
Bromomethane	ug/L	50	58.2	116	52-147	
Carbon disulfide	ug/L	50	41.5	83	41-144	
Carbon tetrachloride	ug/L	50	48.3	97	59-120	
Chlorobenzene	ug/L	50	42.9	86	75-113	
Chloroethane	ug/L	50	40.9	82	49-151	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

LABORATORY CONTROL SAMPLE: 631174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	50	49.9	100	72-122	
Chloromethane	ug/L	50	34.4	69	46-144	
cis-1,2-Dichloroethene	ug/L	50	43.9	88	72-121	
cis-1,3-Dichloropropene	ug/L	50	45.7	91	78-116	
Dibromochloromethane	ug/L	50	38.6	77	70-120	
Dibromomethane	ug/L	50	41.9	84	75-125	
Ethylbenzene	ug/L	50	43.3	87	70-113	
Iodomethane	ug/L	50	52.0	104	61-144	CH
m&p-Xylene	ug/L	100	84.4	84	72-115	
Methylene Chloride	ug/L	50	41.4	83	61-142	
o-Xylene	ug/L	50	39.4	79	73-117	
Styrene	ug/L	50	40.7	81	72-118	
Tetrachloroethene	ug/L	50	40.8	82	60-128	
Toluene	ug/L	50	49.7	99	72-119	
trans-1,2-Dichloroethene	ug/L	50	43.5	87	56-142	
trans-1,3-Dichloropropene	ug/L	50	42.0	84	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	49.8	100	71-121	
Trichloroethene	ug/L	50	42.3	85	69-117	
Trichlorofluoromethane	ug/L	50	48.8	98	27-173	
Vinyl acetate	ug/L	50	37.0	74	20-158	
Vinyl chloride	ug/L	50	33.9	68	43-143	
Xylene (Total)	ug/L	150	124	83	71-109	
1,2-Dichloroethane-d4 (S)	%			103	68-153	
4-Bromofluorobenzene (S)	%			92	79-124	
Toluene-d8 (S)	%			94	69-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 635507 635508

Parameter	Units	70106329004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	50	38.5	41.0	77	82	74-113	6	
1,1,1-Trichloroethane	ug/L	<1.0	50	50	44.8	46.8	90	94	65-118	4	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	44.1	41.1	88	82	74-121	7	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	42.9	40.8	86	82	80-117	5	
1,1-Dichloroethane	ug/L	1.6	50	50	49.2	43.3	95	83	83-151	13	
1,1-Dichloroethene	ug/L	<1.0	50	50	48.6	52.5	97	105	45-146	8	
1,2,3-Trichloropropane	ug/L	<1.0	50	50	39.5	39.3	79	79	71-123	1	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	50	50	41.4	41.0	83	82	74-119	1	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	38.4	39.9	77	80	83-115	4	M1
1,2-Dichlorobenzene	ug/L	<1.0	50	50	41.1	42.3	82	85	74-113	3	
1,2-Dichloroethane	ug/L	<1.0	50	50	46.5	49.7	93	99	74-129	7	
1,2-Dichloropropane	ug/L	<1.0	50	50	45.5	41.3	91	83	75-117	10	
1,4-Dichlorobenzene	ug/L	<1.0	50	50	42.1	43.0	84	86	71-113	2	
2-Butanone (MEK)	ug/L	<5.0	50	50	34.5	31.9	69	64	44-162	8	IL
2-Hexanone	ug/L	<5.0	50	50	42.3	40.7	85	81	32-183	4	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 635507 635508

Parameter	Units	70106329004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	45.0	42.4	90	85	69-132	6	
Acetone	ug/L	<5.0	50	50	50.3	51.8	101	104	23-188	3	IC
Acrylonitrile	ug/L	<1.0	50	50	41.0	36.8	82	74	59-148	11	
Benzene	ug/L	1.0	50	50	46.4	43.7	91	85	73-119	6	
Bromochloromethane	ug/L	<1.0	50	50	45.7	45.4	91	91	81-116	1	
Bromodichloromethane	ug/L	<1.0	50	50	43.6	45.7	87	91	78-117	5	
Bromoform	ug/L	<1.0	50	50	32.8	35.1	66	70	65-122	7	
Bromomethane	ug/L	<1.0	50	50	39.3	42.1	79	84	52-147	7	
Carbon disulfide	ug/L	<1.0	50	50	44.3	47.0	89	94	41-144	6	
Carbon tetrachloride	ug/L	<1.0	50	50	47.2	50.9	94	102	59-120	8	
Chlorobenzene	ug/L	2.3	50	50	45.0	46.0	85	87	75-113	2	
Chloroethane	ug/L	<1.0	50	50	50.5	43.3	101	87	49-151	15	
Chloroform	ug/L	<1.0	50	50	51.2	50.4	102	101	72-122	2	
Chloromethane	ug/L	<1.0	50	50	39.4	42.8	79	86	46-144	8	
cis-1,2-Dichloroethene	ug/L	6.3	50	50	52.5	50.3	92	88	72-121	4	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	39.6	39.2	79	78	78-116	1	
Dibromochloromethane	ug/L	<1.0	50	50	36.6	38.5	73	77	70-120	5	
Dibromomethane	ug/L	<1.0	50	50	40.1	42.0	80	84	75-125	5	
Ethylbenzene	ug/L	<1.0	50	50	43.5	44.0	87	88	70-113	1	
Iodomethane	ug/L	<1.0	50	50	41.6	60.9	83	122	61-144	38	CH,R1
m&p-Xylene	ug/L	<2.0	100	100	83.8	82.5	84	83	72-115	2	
Methylene Chloride	ug/L	<1.0	50	50	38.6	41.1	77	82	61-142	6	
o-Xylene	ug/L	<1.0	50	50	41.3	40.8	83	82	73-117	1	
Styrene	ug/L	<1.0	50	50	41.0	39.8	82	80	72-118	3	
Tetrachloroethene	ug/L	<1.0	50	50	40.7	43.7	81	87	60-128	7	
Toluene	ug/L	<1.0	50	50	45.6	44.0	91	88	72-119	4	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	39.2	43.3	78	87	56-142	10	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	36.0	36.7	72	73	79-116	2	M1
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	50	38.3	34.1	77	68	71-121	12	M1
Trichloroethene	ug/L	1.0	50	50	45.3	44.9	89	88	69-117	1	
Trichlorofluoromethane	ug/L	<1.0	50	50	56.0	57.9	112	116	27-173	3	
Vinyl acetate	ug/L	<1.0	50	50	37.6	31.6	75	63	20-158	17	
Vinyl chloride	ug/L	2.6	50	50	44.5	51.5	84	98	43-143	15	
Xylene (Total)	ug/L	<3.0	150	150	125	123	83	82	71-109	1	
1,2-Dichloroethane-d4 (S)	%						98	104	68-153		
4-Bromofluorobenzene (S)	%						94	90	79-124		
Toluene-d8 (S)	%						94	95	69-124		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 132286 Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 70106329003, 70106329004, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

METHOD BLANK: 632399 Matrix: Water
Associated Lab Samples: 70106329003, 70106329004, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	09/30/19 17:04	

LABORATORY CONTROL SAMPLE: 632400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	25.8	103	85-115	

MATRIX SPIKE SAMPLE: 632402

Parameter	Units	70106329004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	261	25	290	117	75-125	

SAMPLE DUPLICATE: 632401

Parameter	Units	70106329004 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	261	257	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 132887 Analysis Method: SM22 2340C
QC Batch Method: SM22 2340C Analysis Description: 2340C Hardness, Total
Associated Lab Samples: 70106329001, 70106329003, 70106329004, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

METHOD BLANK: 635785 Matrix: Water
Associated Lab Samples: 70106329001, 70106329003, 70106329004, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tot Hardness asCaCO3 (SM 2340B	mg/L	<5.0	5.0	10/03/19 21:22	

LABORATORY CONTROL SAMPLE: 635786

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

MATRIX SPIKE SAMPLE: 635787

Parameter	Units	70106329004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Tot Hardness asCaCO3 (SM 2340B	mg/L	220	2000	2240	101	75-125	

SAMPLE DUPLICATE: 635788

Parameter	Units	70106329004 Result	Dup Result	RPD	Qualifiers
Tot Hardness asCaCO3 (SM 2340B	mg/L	220	240	9	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 132347 Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 70106329001, 70106329003, 70106329004, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

METHOD BLANK: 632726 Matrix: Water
Associated Lab Samples: 70106329001, 70106329003, 70106329004, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	10/01/19 09:42	

LABORATORY CONTROL SAMPLE: 632727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	530	106	85-115	

MATRIX SPIKE SAMPLE: 632729

Parameter	Units	70106329004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	306	600	874	95	75-125	

MATRIX SPIKE SAMPLE: 632731

Parameter	Units	70106594001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	163	300	455	97	75-125	

SAMPLE DUPLICATE: 632728

Parameter	Units	70106329004 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	306	300	2	

SAMPLE DUPLICATE: 632730

Parameter	Units	70106594001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	163	169	4	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 132352 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 70106329001, 70106329003, 70106329004

METHOD BLANK: 632746 Matrix: Water
Associated Lab Samples: 70106329001, 70106329003, 70106329004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.0	10.0	10/01/19 11:52	

LABORATORY CONTROL SAMPLE: 632747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	531	106	90-110	

MATRIX SPIKE SAMPLE: 632748

Parameter	Units	70106187001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	158	1000	1110	96	90-110	

MATRIX SPIKE SAMPLE: 632750

Parameter	Units	70106329004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	12.4	1000	1040	103	90-110	

SAMPLE DUPLICATE: 632749

Parameter	Units	70106187001 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	158	162	3	

SAMPLE DUPLICATE: 632751

Parameter	Units	70106329004 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	12.4	12.4	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 132917 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

METHOD BLANK: 635934 Matrix: Water
Associated Lab Samples: 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.0	10.0	10/04/19 12:53	

LABORATORY CONTROL SAMPLE: 635935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	544	109	90-110	

MATRIX SPIKE SAMPLE: 635936

Parameter	Units	70106743001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	45.5	1000	1090	104	90-110	

MATRIX SPIKE SAMPLE: 635938

Parameter	Units	70106587007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	14.6	1000	1080	106	90-110	

SAMPLE DUPLICATE: 635937

Parameter	Units	70106743001 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	45.5	43.3	5	

SAMPLE DUPLICATE: 635939

Parameter	Units	70106587007 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	14.6	14.6	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 131922 Analysis Method: SM22 5210B
QC Batch Method: SM22 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 70106329001, 70106329003, 70106329004, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

METHOD BLANK: 630534 Matrix: Water
Associated Lab Samples: 70106329001, 70106329003, 70106329004, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<2.0	2.0	10/01/19 11:41	

LABORATORY CONTROL SAMPLE: 630535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	193	98	84.5-115.4	

SAMPLE DUPLICATE: 630536

Parameter	Units	70106329004 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	1.4J	1.4J		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 132884 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 70106329001, 70106329003, 70106329004, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

METHOD BLANK: 635703 Matrix: Water
Associated Lab Samples: 70106329001, 70106329003, 70106329004, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	<0.50	0.50	10/04/19 20:53	
Chloride	mg/L	<2.0	2.0	10/04/19 20:53	
Sulfate	mg/L	<5.0	5.0	10/04/19 20:53	

LABORATORY CONTROL SAMPLE: 635704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	1	0.99	99	90-110	
Chloride	mg/L	10	10.7	107	90-110	
Sulfate	mg/L	10	10.6	106	90-110	

MATRIX SPIKE SAMPLE: 635705

Parameter	Units	70106329004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	0.19J	1	1.2	100	80-120	
Chloride	mg/L	11.8	10	21.6	98	80-120	
Sulfate	mg/L	8.5	10	19.1	106	80-120	

SAMPLE DUPLICATE: 635706

Parameter	Units	70106329004 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	0.19J	0.19J		
Chloride	mg/L	11.8	11.8	1	
Sulfate	mg/L	8.5	8.6	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 133689 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 70106329001, 70106329003, 70106329004, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

METHOD BLANK: 639824 Matrix: Water
Associated Lab Samples: 70106329001, 70106329003, 70106329004, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	0.10	10/10/19 12:31	

LABORATORY CONTROL SAMPLE: 639825

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: 639826

Parameter	Units	70106329004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.5	4	6.0	112	90-110	M6

MATRIX SPIKE SAMPLE: 639828

Parameter	Units	70106866002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.3	4	2.8	38	90-110	M1

SAMPLE DUPLICATE: 639827

Parameter	Units	70106329004 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.5	1.6	7	

SAMPLE DUPLICATE: 639829

Parameter	Units	70106866002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.3	1.3	4	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 131960 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrite, Unpres.
Associated Lab Samples: 70106329001, 70106329003

METHOD BLANK: 630912 Matrix: Water
Associated Lab Samples: 70106329001, 70106329003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	09/26/19 21:16	

LABORATORY CONTROL SAMPLE: 630913

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: 630914

Parameter	Units	70106451001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.44	88	90-110	M1

MATRIX SPIKE SAMPLE: 630916

Parameter	Units	70106449001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.55	110	90-110	

SAMPLE DUPLICATE: 630915

Parameter	Units	70106451001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 630917

Parameter	Units	70106449001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 131961 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrite, Unpres.
Associated Lab Samples: 70106329004, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

METHOD BLANK: 630918 Matrix: Water
Associated Lab Samples: 70106329004, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	09/26/19 21:54	

LABORATORY CONTROL SAMPLE: 630919

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: 630920

Parameter	Units	70106329004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	99	90-110	

MATRIX SPIKE SAMPLE: 630922

Parameter	Units	70106454001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.52	103	90-110	

SAMPLE DUPLICATE: 630921

Parameter	Units	70106329004 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 630923

Parameter	Units	70106454001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 131972 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate, Unpres.
Associated Lab Samples: 70106329001, 70106329003, 70106329004, 70106329005, 70106329007, 70106329008

METHOD BLANK: 630965 Matrix: Water
Associated Lab Samples: 70106329001, 70106329003, 70106329004, 70106329005, 70106329007, 70106329008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	09/27/19 01:10	

LABORATORY CONTROL SAMPLE: 630966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	102	90-110	

MATRIX SPIKE SAMPLE: 630967

Parameter	Units	70106329001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.11	0.5	0.64	108	90-110	

MATRIX SPIKE SAMPLE: 630969

Parameter	Units	70106329004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.066	0.5	0.58	103	90-110	

SAMPLE DUPLICATE: 630968

Parameter	Units	70106329001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.11	0.10	2	

SAMPLE DUPLICATE: 630970

Parameter	Units	70106329004 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.066	0.062	6	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 131973 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate, Unpres.
Associated Lab Samples: 70106329009, 70106329010, 70106329011, 70106329012

METHOD BLANK: 630971 Matrix: Water
Associated Lab Samples: 70106329009, 70106329010, 70106329011, 70106329012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	09/27/19 01:48	

LABORATORY CONTROL SAMPLE: 630972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.1	109	90-110	

MATRIX SPIKE SAMPLE: 630973

Parameter	Units	70106453001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	6.3	5	11.6	106	90-110	

MATRIX SPIKE SAMPLE: 630975

Parameter	Units	70106454001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	6.3	5	12.7	129	90-110	

SAMPLE DUPLICATE: 630974

Parameter	Units	70106453001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	6.3	6.4	2	

SAMPLE DUPLICATE: 630976

Parameter	Units	70106454001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	6.3	6.3	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 133477 Analysis Method: EPA 420.1
QC Batch Method: EPA 420.1 Analysis Description: 420.1 Phenolics Macro
Associated Lab Samples: 70106329001, 70106329003, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

METHOD BLANK: 638980 Matrix: Water
Associated Lab Samples: 70106329001, 70106329003, 70106329005, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	4.1J	5.0	10/09/19 13:00	

LABORATORY CONTROL SAMPLE: 638981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	100	107	107	90-110	

MATRIX SPIKE SAMPLE: 638982

Parameter	Units	70106266003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	39.1	20	76.2	185	75-125	M1

SAMPLE DUPLICATE: 638983

Parameter	Units	70106266001 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	11.2	37.1	107	D6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 133478
QC Batch Method: EPA 420.1
Analysis Method: EPA 420.1
Analysis Description: 420.1 Phenolics Macro
Associated Lab Samples: 70106329004

METHOD BLANK: 638984 Matrix: Water
Associated Lab Samples: 70106329004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	4.0J	5.0	10/09/19 13:22	

LABORATORY CONTROL SAMPLE: 638985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	100	109	109	90-110	

MATRIX SPIKE SAMPLE: 638987

Parameter	Units	70106329004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	4.1J	20	106	512	75-125	M1

SAMPLE DUPLICATE: 638986

Parameter	Units	70106329004 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	4.1J	4.0J		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 133141 Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia
Associated Lab Samples: 70106329001, 70106329003, 70106329004, 70106329005, 70106329007, 70106329008

METHOD BLANK: 637164 Matrix: Water
Associated Lab Samples: 70106329001, 70106329003, 70106329004, 70106329005, 70106329007, 70106329008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	0.10	10/07/19 12:44	

LABORATORY CONTROL SAMPLE: 637165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 637166

Parameter	Units	70106329004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1.0	1	2.0	100	75-125	

SAMPLE DUPLICATE: 637167

Parameter	Units	70106329004 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	1.0	1.0	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 133197 Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia
Associated Lab Samples: 70106329009, 70106329010, 70106329011, 70106329012

METHOD BLANK: 637353 Matrix: Water
Associated Lab Samples: 70106329009, 70106329010, 70106329011, 70106329012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	0.10	10/07/19 13:20	

LABORATORY CONTROL SAMPLE: 637354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 637355

Parameter	Units	70107191001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	1.1	113	75-125	

SAMPLE DUPLICATE: 637356

Parameter	Units	70107191001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	<0.10		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 132444 Analysis Method: SM22 5310B
QC Batch Method: SM22 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 70106329001, 70106329003

METHOD BLANK: 633297 Matrix: Water
Associated Lab Samples: 70106329001, 70106329003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	10/01/19 18:27	

LABORATORY CONTROL SAMPLE: 633298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.1	91	85-115	

MATRIX SPIKE SAMPLE: 633300

Parameter	Units	70106524001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	4.6	10	14.6	100	75-125	

SAMPLE DUPLICATE: 633299

Parameter	Units	70106524001 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	4.6	4.8	4	

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

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill
Pace Project No.: 70106329

QC Batch: 132448 Analysis Method: SM22 5310B
QC Batch Method: SM22 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 70106329004, 70106329005, 70106329006, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

METHOD BLANK: 633308 Matrix: Water
Associated Lab Samples: 70106329004, 70106329005, 70106329006, 70106329007, 70106329008, 70106329009, 70106329010, 70106329011, 70106329012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	10/02/19 09:01	

LABORATORY CONTROL SAMPLE: 633309

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

MATRIX SPIKE SAMPLE: 633311

Parameter	Units	70106329004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.8	10	12.1	94	75-125	

SAMPLE DUPLICATE: 633310

Parameter	Units	70106329004 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	2.8	2.6	5	

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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QUALIFIERS

Project: Ischua Landfill
Pace Project No.: 70106329

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.

WORKORDER QUALIFIERS

WO: 70106329

[1] Trip Blank received but not noted on the COC. See Sample Condition Upon Receipt Form for details.

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.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
IC	The initial calibration for this compound was outside of method control limits. The result is estimated.
IL	This analyte exceeded secondary source verification criteria low 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.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
N	The reported TIC has an 85% or higher match on a mass spectral library search.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ischua Landfill
Pace Project No.: 70106329

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70106329001	**MW-6D**	EPA 3005A	132791	EPA 6010C	132806
70106329003	**MW-7C**	EPA 3005A	132791	EPA 6010C	132806
70106329004	**MW-8B**	EPA 3005A	132791	EPA 6010C	132806
70106329005	**MW-10B**	EPA 3005A	132791	EPA 6010C	132806
70106329007	**MW-12B**	EPA 3005A	132791	EPA 6010C	132806
70106329008	**MW-13**	EPA 3005A	132791	EPA 6010C	132806
70106329009	**MW-14**	EPA 3005A	132791	EPA 6010C	132806
70106329010	**SEEP**	EPA 3005A	132791	EPA 6010C	132806
70106329011	**STREAM**	EPA 3005A	132791	EPA 6010C	132806
70106329012	**DUP**	EPA 3005A	132791	EPA 6010C	132806
70106329001	**MW-6D**	EPA 8260C/5030C	132041		
70106329002	**MW-7A**	EPA 8260C/5030C	132041		
70106329003	**MW-7C**	EPA 8260C/5030C	132041		
70106329004	**MW-8B**	EPA 8260C/5030C	132041		
70106329005	**MW-10B**	EPA 8260C/5030C	132041		
70106329006	**MW-11B**	EPA 8260C/5030C	132041		
70106329007	**MW-12B**	EPA 8260C/5030C	132041		
70106329008	**MW-13**	EPA 8260C/5030C	132041		
70106329009	**MW-14**	EPA 8260C/5030C	132041		
70106329010	**SEEP**	EPA 8260C/5030C	132041		
70106329011	**STREAM**	EPA 8260C/5030C	132041		
70106329012	**DUP**	EPA 8260C/5030C	132041		
70106329013	**TRIP BLANK**	EPA 8260C/5030C	132041		
70106329014	**STORAGE BLANK**	EPA 8260C/5030C	132041		
70106329005	**MW-10B**	EPA 8260			
70106329006	**MW-11B**	EPA 8260			
70106329007	**MW-12B**	EPA 8260			
70106329008	**MW-13**	EPA 8260			
70106329009	**MW-14**	EPA 8260			
70106329010	**SEEP**	EPA 8260			
70106329011	**STREAM**	EPA 8260			
70106329012	**DUP**	EPA 8260			
70106329013	**TRIP BLANK**	EPA 8260			
70106329014	**STORAGE BLANK**	EPA 8260			
70106329003	**MW-7C**	SM22 2320B	132286		
70106329004	**MW-8B**	SM22 2320B	132286		
70106329005	**MW-10B**	SM22 2320B	132286		
70106329007	**MW-12B**	SM22 2320B	132286		
70106329008	**MW-13**	SM22 2320B	132286		
70106329009	**MW-14**	SM22 2320B	132286		
70106329010	**SEEP**	SM22 2320B	132286		
70106329011	**STREAM**	SM22 2320B	132286		
70106329012	**DUP**	SM22 2320B	132286		
70106329001	**MW-6D**	SM22 2340C	132887		
70106329003	**MW-7C**	SM22 2340C	132887		
70106329004	**MW-8B**	SM22 2340C	132887		
70106329005	**MW-10B**	SM22 2340C	132887		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ischua Landfill
Pace Project No.: 70106329

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70106329007	MW-12B	SM22 2340C	132887		
70106329008	MW-13	SM22 2340C	132887		
70106329009	MW-14	SM22 2340C	132887		
70106329010	SEEP	SM22 2340C	132887		
70106329011	STREAM	SM22 2340C	132887		
70106329012	DUP	SM22 2340C	132887		
70106329001	MW-6D	SM22 2540C	132347		
70106329003	MW-7C	SM22 2540C	132347		
70106329004	MW-8B	SM22 2540C	132347		
70106329005	MW-10B	SM22 2540C	132347		
70106329007	MW-12B	SM22 2540C	132347		
70106329008	MW-13	SM22 2540C	132347		
70106329009	MW-14	SM22 2540C	132347		
70106329010	SEEP	SM22 2540C	132347		
70106329011	STREAM	SM22 2540C	132347		
70106329012	DUP	SM22 2540C	132347		
70106329001	MW-6D	EPA 410.4	132352	EPA 410.4	132394
70106329003	MW-7C	EPA 410.4	132352	EPA 410.4	132394
70106329004	MW-8B	EPA 410.4	132352	EPA 410.4	132394
70106329005	MW-10B	EPA 410.4	132917	EPA 410.4	132946
70106329007	MW-12B	EPA 410.4	132917	EPA 410.4	132946
70106329008	MW-13	EPA 410.4	132917	EPA 410.4	132946
70106329009	MW-14	EPA 410.4	132917	EPA 410.4	132946
70106329010	SEEP	EPA 410.4	132917	EPA 410.4	132946
70106329011	STREAM	EPA 410.4	132917	EPA 410.4	132946
70106329012	DUP	EPA 410.4	132917	EPA 410.4	132946
70106329001	MW-6D	SM22 5210B	131922	SM22 5210B	132472
70106329003	MW-7C	SM22 5210B	131922	SM22 5210B	132472
70106329004	MW-8B	SM22 5210B	131922	SM22 5210B	132472
70106329005	MW-10B	SM22 5210B	131922	SM22 5210B	132472
70106329007	MW-12B	SM22 5210B	131922	SM22 5210B	132472
70106329008	MW-13	SM22 5210B	131922	SM22 5210B	132472
70106329009	MW-14	SM22 5210B	131922	SM22 5210B	132472
70106329010	SEEP	SM22 5210B	131922	SM22 5210B	132472
70106329011	STREAM	SM22 5210B	131922	SM22 5210B	132472
70106329012	DUP	SM22 5210B	131922	SM22 5210B	132472
70106329001	MW-6D	EPA 300.0	132884		
70106329003	MW-7C	EPA 300.0	132884		
70106329004	MW-8B	EPA 300.0	132884		
70106329005	MW-10B	EPA 300.0	132884		
70106329007	MW-12B	EPA 300.0	132884		
70106329008	MW-13	EPA 300.0	132884		
70106329009	MW-14	EPA 300.0	132884		
70106329010	SEEP	EPA 300.0	132884		
70106329011	STREAM	EPA 300.0	132884		
70106329012	DUP	EPA 300.0	132884		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ischua Landfill
Pace Project No.: 70106329

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70106329001	**MW-6D**	EPA 351.2	133689	EPA 351.2	133699
70106329003	**MW-7C**	EPA 351.2	133689	EPA 351.2	133699
70106329004	**MW-8B**	EPA 351.2	133689	EPA 351.2	133699
70106329005	**MW-10B**	EPA 351.2	133689	EPA 351.2	133699
70106329007	**MW-12B**	EPA 351.2	133689	EPA 351.2	133699
70106329008	**MW-13**	EPA 351.2	133689	EPA 351.2	133699
70106329009	**MW-14**	EPA 351.2	133689	EPA 351.2	133699
70106329010	**SEEP**	EPA 351.2	133689	EPA 351.2	133699
70106329011	**STREAM**	EPA 351.2	133689	EPA 351.2	133699
70106329012	**DUP**	EPA 351.2	133689	EPA 351.2	133699
70106329001	**MW-6D**	EPA 353.2	131972		
70106329003	**MW-7C**	EPA 353.2	131972		
70106329004	**MW-8B**	EPA 353.2	131972		
70106329005	**MW-10B**	EPA 353.2	131972		
70106329007	**MW-12B**	EPA 353.2	131972		
70106329008	**MW-13**	EPA 353.2	131972		
70106329009	**MW-14**	EPA 353.2	131973		
70106329010	**SEEP**	EPA 353.2	131973		
70106329011	**STREAM**	EPA 353.2	131973		
70106329012	**DUP**	EPA 353.2	131973		
70106329001	**MW-6D**	EPA 353.2	131960		
70106329003	**MW-7C**	EPA 353.2	131960		
70106329004	**MW-8B**	EPA 353.2	131961		
70106329005	**MW-10B**	EPA 353.2	131961		
70106329007	**MW-12B**	EPA 353.2	131961		
70106329008	**MW-13**	EPA 353.2	131961		
70106329009	**MW-14**	EPA 353.2	131961		
70106329010	**SEEP**	EPA 353.2	131961		
70106329011	**STREAM**	EPA 353.2	131961		
70106329012	**DUP**	EPA 353.2	131961		
70106329001	**MW-6D**	EPA 420.1	133477	EPA 420.1	133547
70106329003	**MW-7C**	EPA 420.1	133477	EPA 420.1	133547
70106329004	**MW-8B**	EPA 420.1	133478	EPA 420.1	133548
70106329005	**MW-10B**	EPA 420.1	133477	EPA 420.1	133547
70106329007	**MW-12B**	EPA 420.1	133477	EPA 420.1	133547
70106329008	**MW-13**	EPA 420.1	133477	EPA 420.1	133547
70106329009	**MW-14**	EPA 420.1	133477	EPA 420.1	133547
70106329010	**SEEP**	EPA 420.1	133477	EPA 420.1	133547
70106329011	**STREAM**	EPA 420.1	133477	EPA 420.1	133547
70106329012	**DUP**	EPA 420.1	133477	EPA 420.1	133547
70106329001	**MW-6D**	SM22 4500 NH3 H	133141		
70106329003	**MW-7C**	SM22 4500 NH3 H	133141		
70106329004	**MW-8B**	SM22 4500 NH3 H	133141		
70106329005	**MW-10B**	SM22 4500 NH3 H	133141		
70106329007	**MW-12B**	SM22 4500 NH3 H	133141		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ischua Landfill
Pace Project No.: 70106329

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70106329008	**MW-13**	SM22 4500 NH3 H	133141		
70106329009	**MW-14**	SM22 4500 NH3 H	133197		
70106329010	**SEEP**	SM22 4500 NH3 H	133197		
70106329011	**STREAM**	SM22 4500 NH3 H	133197		
70106329012	**DUP**	SM22 4500 NH3 H	133197		
70106329001	**MW-6D**	SM22 5310B	132444		
70106329003	**MW-7C**	SM22 5310B	132444		
70106329004	**MW-8B**	SM22 5310B	132448		
70106329005	**MW-10B**	SM22 5310B	132448		
70106329006	**MW-11B**	SM22 5310B	132448		
70106329007	**MW-12B**	SM22 5310B	132448		
70106329008	**MW-13**	SM22 5310B	132448		
70106329009	**MW-14**	SM22 5310B	132448		
70106329010	**SEEP**	SM22 5310B	132448		
70106329011	**STREAM**	SM22 5310B	132448		
70106329012	**DUP**	SM22 5310B	132448		

Pace Analytical

Sample Condition Up

WO#: 70106329

PM: JSA Due Date: 10/10/19
CLIENT: LBA-B

Client Name: LBA

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 1227 2654 0574

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

Temperature Blank Present: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Type of Ice: (Wet) Blue None

Thermometer Used: TH091 Correction Factor: +0.2

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 2.6, 3.0, 3.2 Cooler Temperature Corrected (°C): 2.8, 3.2, 3.4 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: JK 9/26/19

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 orignate 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:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No		6.
Rush Turn Around Time Requested:	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑Yes	☐No		12. Trip Blank not indicated on chain of custody
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC863463				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, 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	☑Yes	☐No	☐N/A	Sample #
				Initial when completed: / Lot # of added preservative: / Date/Time preservative added
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☑Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if applicable): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution: 1 out of 2 1 Liter unpreserved bottles for sample ID 70106329-001 was received empty

* PM (Project Manager) review is documented electronically in LIMS.

APPENDIX D

Historical Analytical Results Tables

MW-6A
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	9/02	3/03	9/03
PARAMETER VOLATILES (ug/L)																																						
Acetone																																						
Acrylonitrile																																						
Benzene	ND	ND	ND																																ND		ND	
Bromobenzene	ND	ND	ND																																ND		ND	
Bromochloromethane	ND	ND	ND																																ND		ND	
Bromodichloromethane	ND	ND	ND																																			
Bromoform	ND	ND	ND																																			
Bromomethane	ND	ND	ND																																ND		ND	
2-Butanone																																						
n-Butylbenzene	ND	ND	ND																																ND		ND	
sec-Butylbenzene	ND	ND	ND																																ND		ND	
tert-Butylbenzene	ND	ND	ND																																ND		ND	
Carbon disulfide																																						
Carbon tetrachloride	ND	ND	ND																																ND		ND	
Chlorobenzene	ND	ND	ND																																ND		ND	
Chloroethane	ND	ND	ND																																ND		ND	
Chloroform	<DL	ND	ND																																			
Chloromethane	ND	ND	ND																																ND		ND	
2-Chlorotoluene	ND	ND	ND																																ND		ND	
4-Chlorotoluene	ND	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		ND	
1,2-Dichlorobenzene	ND	ND	ND																																ND		ND	
1,3-Dichlorobenzene	ND	ND	ND																																ND		ND	
1,4-Dichlorobenzene	ND	ND	ND																																ND		ND	
trans-1,4-Dichloro-2-butene																																						
Dichlorodifluoromethane	ND	ND	ND																																ND		ND	
1,1-Dichloroethane	ND	ND	ND																																ND		ND	
1,2-Dichloroethane	ND	ND	ND																																ND		ND	
1,1-Dichloroethene	ND	ND	ND																																ND		ND	
cis-1,2-Dichloroethene	ND	ND	ND																																ND		ND	
trans-1,2-Dichloroethene	ND	ND	ND																																ND		ND	
1,2-Dichloropropane	ND	ND	ND																																ND		ND	
1,3-Dichloropropane	ND	ND	ND																																ND		ND	
2,2-Dichloropropane	ND	ND	ND																																ND		ND	
1,1-Dichloropropene	ND	ND	ND																																ND		ND	
cis-1-3-Dichloropropene	ND	ND	ND																																ND		ND	
trans-1,3-Dichloropropene	ND	ND	ND																																ND		ND	
Ethylbenzene	ND	ND	ND																																ND		ND	
2-Hexanone																																						
Hexachlorobutadiene	ND	ND	ND																																ND		ND	
Iodomethane																																						
Isopropylbenzene	ND	ND	ND																																ND		ND	
p-Isopropyltoluene	ND	ND	ND																																ND		ND	
Methylene chloride	ND	ND	ND																																ND		ND	
4-Methyl-2-pentanone																																						
Naphthalene	ND	ND	ND																																ND		ND	
n-Propylbenzene	ND	ND	ND																																ND		ND	
Styrene	ND	ND	ND																																ND		ND	
1,1,1,2-Tetrachloroethane	ND	ND	ND																																ND		ND	
1,1,2,2-Tetrachloroethane	ND	ND	ND																																ND		ND	
Tetrachloroethene	ND	ND	ND																																ND		ND	
Toluene	ND	ND	ND																																ND		ND	
1,2,3-Trichlorobenzene	ND	ND	ND																																ND		ND	
1,2,4-Trichlorobenzene	ND	ND	ND																																ND		ND	
1,1,1-Trichloroethane	ND	ND	ND																																ND		ND	
1,1,2-Trichloroethane	ND	ND	ND																																ND		ND	
Trichloroethene	ND	ND	ND																																ND		ND	
Trichlorofluoromethane	ND	ND	ND																																ND		ND	
1,2,3-Trichloropropane	ND	ND	ND																																ND		ND	
1,2,4-Trimethylbenzene	ND	ND	ND																																ND		ND	
1,3,5-Trimethylbenzene																																			ND		ND	
Vinyl acetate																																						
Vinyl chloride	ND	ND	ND																																ND		ND	
o-Xylene	ND	ND	ND																																ND		ND	
p-Xylene & m-Xylene																																			ND		ND	

MW-6A
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	9/02	3/03	9/03
PARAMETER METALS (mg/L)																																						
Aluminum																																						
Calcium																																						
Iron																																						
Magnesium																																						
Manganese																																						
Potassium																																						
Sodium																																						
PARAMETER (mg/l) TOXIC METALS																																						
Antimony																																						
Arsenic																																						
Barium																																						
Beryllium																																						
Cadmium																																						
Chromium (Total)																																						
Copper																																						
Lead																																						
Mercury																																						
Nickel																																						
Selenium																																						
Silver																																						
Thallium																																						
Zinc																																						
PARAMETER (mg/l) LEACHATE INDICATORS																																						
Alkalinity																																						
Biochemical Oxygen Demand																																						
Boron																																						
Chemical Oxygen Demand																																						
Chromium (Hexavalent)																																						
Chloride																																						
Color (PCU units)																																						
Nitrate-Nitrite																																						
Nitrogen-Ammonia																																						
Phenols																																						
Sulfate																																						
Total Organic Carbon (TOC)																																			5.2		ND	
Total Dissolved Solids (TDS)																																						
Total Hardness																																						
Total Kjeldahl Nitrogen (TKN)																																						
Turbidity (NTU units)																																						
Cyanide																																						

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

	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	4/19	9/19	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																			
Acetone				ND	ND	ND	ND		2.4						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12	50.0	
Acrylonitrile				ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Benzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1.0	
Bromobenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Bromochloromethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Bromodichloromethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	50.0	
Bromoform	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	50.0	
Bromomethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
2-Butanone				ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	50.0	
n-Butylbenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
sec-Butylbenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
tert-Butylbenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Carbon disulfide				ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	60.0	
Carbon tetrachloride	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Chlorobenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Chloroethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Chloroform	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	7.0	
Chloromethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
2-Chlorotoluene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
4-Chlorotoluene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Dibromochloromethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	50.0	
1,2-Dibromo-3-chloropropane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.04	
1,2-Dibromoethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Dibromomethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
1,2-Dichlorobenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	3.0	
1,3-Dichlorobenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	3.0	
1,4-Dichlorobenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	3.0	
trans-1,4-Dichloro-2-butene				ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Dichlorodifluoromethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
1,1-Dichloroethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
1,2-Dichloroethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.6	
1,1-Dichloroethene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
cis-1,2-Dichloroethene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
trans-1,2-Dichloroethene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
1,2-Dichloropropane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1.0	
1,3-Dichloropropane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
2,2-Dichloropropane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
1,1-Dichloropropene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
cis-1-3-Dichloropropene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.4	*
trans-1,3-Dichloropropene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.4	*
Ethylbenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
2-Hexanone				ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	50.0	
Hexachlorobutadiene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.5	
Iodomethane				ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Isopropylbenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
p-Isopropyltoluene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Methylene chloride	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
4-Methyl-2-pentanone				ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
Naphthalene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	10.0	**
n-Propylbenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Styrene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
1,1,1,2-Tetrachloroethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
1,1,2,2-Tetrachloroethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Tetrachloroethene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Toluene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
1,2,3-Trichlorobenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
1,2,4-Trichlorobenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
1,1,1-Trichloroethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
1,1,2-Trichloroethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1.0	
Trichloroethene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Trichlorofluoromethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
1,2,3-Trichloropropane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.04	
1,2,4-Trimethylbenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
1,3,5-Trimethylbenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Vinyl acetate				ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
Vinyl chloride	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	2.0	
o-Xylene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
p-Xylene & m-Xylene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	

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

	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	4/19	9/19	MEAN	NYS STD
PARAMETER METALS (mg/L)															-																			
Aluminum															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
Calcium							78.6								0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9125	
Iron							11								0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.6875	0.3
Magnesium							23.3								0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4563	35.0
Manganese							0.36								0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0225	0.3
Potassium							4.6								0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2875	
Sodium							4.9								0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3063	20.0
PARAMETER (mg/l) TOXIC METALS																																		
Antimony															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.003
Arsenic															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.025
Barium															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1.0
Beryllium															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
Cadmium							ND								0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.005
Chromium (Total)															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.05
Copper															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.2
Lead							0.015								0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0009	0.025
Mercury															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.0007
Nickel															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.1
Selenium															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.0
Silver															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.05
Thallium															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.0005
Zinc															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																		
Alkalinity															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
Biochemical Oxygen Demand															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
Boron															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1.0
Chemical Oxygen Demand															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
Chromium (Hexavalent)															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.05
Chloride															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	250
Color (PCU units)															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	15
Nitrate-Nitrite															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	10
Nitrogen-Ammonia															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	2
Phenols															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.001
Sulfate															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	250
Total Organic Carbon (TOC)				ND	ND	2.3	1.5		1.4						0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4727	
Total Dissolved Solids (TDS)															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	500
Total Hardness															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
Total Kjeldahl Nitrogen (TKN)															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
Turbidity (NTU units)															0				-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	5.0
Cyanide															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-6D
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	9/02	3/03	9/03
PARAMETER VOLATILES (ug/L)																																						
Acetone																																						
Acrylonitrile																																						
Benzene	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
Bromochloromethane	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND		ND	ND
Bromodichloromethane	ND	ND	ND	ND			ND		ND		ND																											ND
Bromoform	ND	ND	ND	ND			ND		ND		ND																											ND
Bromomethane	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
sec-Butylbenzene	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
Carbon disulfide																																						
Carbon tetrachloride	ND	ND	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		ND	ND
Chloroethane	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND		ND	ND
Chloroform	0.36	ND	ND	ND			ND		ND		ND																											ND
Chloromethane	ND	ND	ND	8.0			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
4-Chlorotoluene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND		ND	ND
Dibromochloromethane	ND	ND	ND	ND			ND		ND		ND																											ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND			ND		ND																													ND
1,2-Dibromoethane	ND	ND	ND	ND			ND		ND																													ND
Dibromomethane	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
1,3-Dichlorobenzene	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
trans-1,4-Dichloro-2-butene																																						
Dichlorodifluoromethane	ND	ND	ND	4.0			5.0		3.0		ND				ND				0.90				0.9 J		ND						ND				ND		ND	ND
1,1-Dichloroethane	0.51	0.69	<DL	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND		ND	ND
1,2-Dichloroethane	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
cis-1,2-Dichloroethene	ND	0.40	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
1,2-Dichloropropane	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
2,2-Dichloropropane	ND	ND	ND	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				ND		ND	ND
cis-1-3-Dichloropropene	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
Ethylbenzene	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
Iodomethane																																						
Isopropylbenzene	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
Methylene chloride	<DL	<DL	<DL	1.0			2.0		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
n-Propylbenzene	ND	ND	ND	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				ND		ND	ND
1,1,1,2-Tetrachloroethane	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
Tetrachloroethene	ND	ND	ND	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				ND		ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	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				ND		ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						1.00				ND		ND	ND
1,1,2-Trichloroethane	ND	ND	ND	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				ND		ND	ND
Trichlorofluoromethane	ND	ND	ND	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				ND		ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND		ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND		ND	ND
Vinyl acetate																																						
Vinyl chloride	ND	ND	<DL	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND		ND	ND
o-Xylene	ND	ND	ND	ND							ND				ND				ND				ND		ND						ND				ND		ND	ND
p-Xylene & m-Xylene			ND	ND					ND		ND				ND				ND				ND		ND						ND				ND		ND	ND

MW-6D
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	9/02	3/03	9/03
PARAMETER METALS (mg/L)																																						
Aluminum	5.7								34.30																													16.3
Calcium	86.5	88.5	65.7	102			66.40	70.20	99.00	75.40	78.80	72.6		119	128	69.4			73.10			80.7	91.6		94.7						88.1				90.9			98.8
Iron	**21**	**13.1**	**0.4**	**44.8**			**0.70**	**1.50**	**62.80**	**10.40**	**26.20**	**17.2**		**187**	**152**	**0.92**			**9.23**			**5.78**	**4.82**		**49.7**						**10.3**				**24.7**			**31.6**
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			19.30			21.0	23.6		30.0						23.7				25.6			27.8
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			0.19			0.288	**0.359**		**0.976**						0.235				**0.689**			**0.9**
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			4.28			4.60	5.76		10.3						7.12				6.46			6.58
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			4.65			5.13	6.48		6.33						5.77				5.24			6.21
PARAMETER (mg/l) TOXIC METALS																																						
Antimony	<DL								**0.028**																													ND
Arsenic	ND								**0.029**																													ND
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			0.09			0.082	0.072		0.273						0.092				0.162			0.23
Beryllium									0.003																													ND
Cadmium		0	ND	ND			ND	ND	ND	ND	ND	ND			**0.008**	ND			ND			0.004	0.004		ND						ND				ND			ND
Chromium (Total)	<DL	0.01	<DL	0.04			ND	0.01	**0.062**		**0.054**	0.023		**0.174**	**0.159**	ND			0.03			0.016	0.020		**0.062**						0.038				0.02			0.02
Copper	<DL								ND																													0.02
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			0.006			0.006	0.005		**0.050**						0.008				**0.035**			0.01
Mercury	ND	<DL	ND	ND			ND	ND	ND	ND	ND	ND		ND	ND	ND			ND			ND	ND		ND						ND				ND			ND
Nickel	**0.25**								0.040																													ND
Selenium	**0.028**	<DL	<DL	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	**0.04**								ND																													ND
Zinc	0.04								0.182																													0.08
RAMETER (mg/l) LEACHATE INDICATORS																																						
Alkalinity	531	237	243	241			286.0	268.0	278.0	240.0	252	239		239	250	255			246			273	271		266						318				266			340
Biochemical Oxygen Demand	20								12.0																													ND
Boron	ND								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			ND			294	66.2		ND						73.9				ND			ND
Chromium (Hexavalent)	<DL								ND																													ND
Chloride	6	12	12	4			7.0	15.0	ND	6.4	7.26	9.72		7.1	6.5	8.43			6.10			5.89	6.02		13.2						6.91				4.28			3.8
Color (PCU units)	**15**								10.0																													5
Nitrate-Nitrite	<DL	<DL	<DL	0.68			ND	0.3	0.14	ND	0.277	0.087		0.331	ND	ND			ND			ND	ND		ND						0.098				ND			0.07
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			0.072			0.103	0.110		ND						ND				ND			ND
Phenols	**0.003**	ND	ND	**0.811**			ND	ND	ND	ND	**0.003**	**0.007**		ND	**0.008**	ND			**0.012**			ND	**0.002**		**0.002**						**0.014**				**0.0118**			ND
Sulfate	29	39.8	25.4	32			29.0	36.0	17.0	42.0	37	39		37	35	34			30			32	ND		31						40				30.1			28
Total Organic Carbon (TOC)	25	24	2.7	1			ND	45.0	6.5	16.0	14.8	6.8		8.7	3	4			5.4			9.7	6.0		4.4						12.0				3.9		ND	1.2
Total Dissolved Solids (TDS)	324	351	294	366			281.0	336.0	290.0	305.0	318	331		361	282	296			266			283	318		284						336				333			358
Total Hardness	248	304	237	368			238.0	255.0	1070	308.0	981	360		840	654	310			262			288	326		360						318				332			361
Total Kjeldahl Nitrogen (TKN)	7.7								ND																													1.7
Turbidity (NTU units)	0.5	**3150**	**195**	**910**			**83.0**	**400**	**650**	**1600**	**2000**	**1600**		**340**	**30**	**110**			**340**			**330**	**85**		**34**						**61**				**220**			**750**
Cyanide	0.004								ND																													ND

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

	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	4/19	9/19	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																			
Acetone					ND	ND	2.3		ND		ND	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	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	-	-	-	-	-	-	-	-	-	-	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		0.45	-	ND	ND	-	-	-	-	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	0.00	50.0	
n-Butylbenzene	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	-	-	-	-	-	-	-	-	-	-	0.00	5.0	
tert-Butylbenzene	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	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	0.19	5.0	
2-Chlorotoluene	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	-	-	-	-	-	-	-	-	-	-	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	-	-	-	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	ND	ND	0.00	5.0	
Dichlorodifluoromethane	ND	0.34	ND		ND	ND	ND		0.37		0.4	0.38	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	-	ND	-	-	-	0.34	5.0	
1,1-Dichloroethane	ND	0.39	0.4		0.43	0.43	0.36		0.48		0.43	0.55	0.45		0.41	ND	ND		0.33	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	0.14	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	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	0.00	5.0	
cis-1,2-Dichloroethene	ND	ND	ND		ND	0.39	ND		0.3		0.27	0.46	ND		ND	ND	ND		0.3	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	0.05	5.0	
trans-1,2-Dichloroethene	ND	ND	ND		ND	ND	ND		ND		ND	ND	0.35		ND	ND	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	-	-	-	0.00	5.0	
2,2-Dichloropropane	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	-	-	-	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	0.34	-	-	-	-	ND	-	ND	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	ND	ND	0.00	50.0	
Hexachlorobutadiene	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	0.00	5.0	
Isopropylbenzene	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	-	-	-	-	-	-	-	-	-	-	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	0.07	5.0	
4-Methyl-2-pentanone					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	-	-	-	-	-	-	-	-	-	-	0.00	10.0	**
n-Propylbenzene	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	0.19	5.0	
1,2,3-Trichlorobenzene	ND	0.65	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	-	-	-	-	-	0.02	5.0	
1,2,4-Trichlorobenzene	ND	1.8	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	-	-	-	-	-	0.04	5.0	
1,1,1-Trichloroethane	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	
1,1,2-Trichloroethane	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	
Trichloroethene	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	
Trichlorofluoromethane	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	
1,2,3-Trichloropropane	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	
1,2,4-Trimethylbenzene	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	-	-	-	-	-	0.00	5.0	
1,3,5-Trimethylbenzene	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	-	-	-	-	-	0.00	5.0	
Vinyl acetate					ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	0.00		
Vinyl chloride	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	0.00	2.0	
o-Xylene	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-Xylene & m-Xylene	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	

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

	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	4/19	9/19	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum		2.4				0.45			1.6		0.49				0.42				0.31	-	-	ND	-	-	-	-	0.367	-	-	27.3	3.15	-	4.22	
Calcium	95.6	118	139		90.9	87.3			95.6		101	92.9	94		101		96		82.9	-	87.8	ND	-	-	-	-	90.7	-	96	120	116	103	78.82	
Iron	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	6.11	0.512	16.88	0.3
Magnesium	23.6	24.5	26		23.9	23.6			25.1		26.5	24.5	24.8		26.8		26		22.9	-	24.6	ND	-	-	-	-	24.7	-	25.9	35.1	31	27.4	21.25	35.0
Manganese	0.03	1.4	1.7		0.02	0.04			0.05		ND	ND	ND		ND		ND		0.02	-	0.02	ND	-	-	-	-	0.0242	-	0.059	1.78	0.233	0.0143	0.43	0.3
Potassium	2.72	3.4	3.2		2.7	2.6			2.8		3.04	2.71	2.29		2.4		2.4		2.5	-	2.3	ND	-	-	-	-	2.71	-	2.68	7.39	ND	2.66	4.48	
Sodium	6.85	7.6	5.7		5.5	5.9			4.9		6	4.5	4.7		4.9		5.1		4.6	-	4.6	ND	-	-	-	-	3.81	-	4.94	6.62	4.99	7.2	5.16	20.0
PARAMETER (mg/l) TOXIC METALS																																		
Antimony		ND				ND			ND		ND				ND				ND	-	-	ND	-	-	-	-	ND	-	-	ND	ND	-	0.00	0.003
Arsenic		ND				ND			ND		ND				ND				ND	-	-	ND	-	-	-	-	ND	-	-	0.0626	0.0059	-	0.00	0.025
Barium	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	0.0736	-	0.11	1.0
Beryllium		ND				ND			ND		ND				ND				0.0002	-	-	ND	-	-	-	-	ND	-	-	0.0014	ND	-	0.00	
Cadmium	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	-	-	0.001	-	-	-	-	ND	-	-	0.0504	0.0088	-	0.02	0.05
Copper		0.02				ND			ND		ND				ND				0.005	-	-	ND	-	-	-	-	0.003	-	-	0.0533	ND	-	0.00	0.2
Lead	ND	0.03	0.03		ND	ND			ND		ND	ND	ND		ND		0.002		ND	-	ND	0.005	-	-	-	-	0.0027	-	0.0048	0.126	0.0139	ND	0.02	0.025
Mercury	ND	ND	ND		ND	ND	ND		ND		ND	ND			ND				ND	-	-	ND	-	-	-	-	ND	-	-	0.0002	ND	-	0.00	0.0007
Nickel		ND				ND			ND		ND				ND				ND	-	-	0.004	-	-	-	-	0.0021	-	-	0.0616	0.0092	-	0.02	0.1
Selenium	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	-	0.00	0.05
Thallium		ND				ND			ND		ND				ND				ND	-	-	ND	-	-	-	-	ND	-	-	0.005	ND	-	0.00	0.0005
Zinc		0.03				ND			ND		0.038				ND				0.047	-	-	0.069	-	-	-	-	0.0084	-	-	0.178	0.0209	-	0.03	2.0
ARAMETER (mg/l) LEACHATE INDICATO																																		
Alkalinity	330	289	268		496	175	275		250		337	298	329		382	378	310		319	-	329	-	-	-	-	-	294	-	311	-	344	-	239	
Biochemical Oxygen Demand		6.6				ND			ND		ND				ND		ND		ND	-	-	-	-	-	-	-	1.0	-	ND	-	1.0	1.0	2	
Boron		ND				ND			0.03		0.028				0.03				0.06	-	-	0.06	-	-	-	-	0.0303	-	-	0.0382	0.0286	-	0	1.0
Chemical Oxygen Demand	ND	92.1	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	50.5	-	21.6	-	12.4	ND	29	
Chromium (Hexavalent)		ND				ND			ND		ND				ND				ND	-	-	0.013	-	-	-	-	ND	-	-	-	ND	-	0	0.05
Chloride	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	-	2.7	2.7	4.3	250
Color (PCU units)		160				20			15		ND				50				12	-	-	17	-	-	-	-	5	-	-	-	25	-	15	15.0
Nitrate-Nitrite	0.03	ND	ND		ND	ND	ND		ND		0.088	0.58			ND	0.05	0.534		ND	-	ND	ND	-	-	-	-	0.09	-	ND	-	0.045	0.11	0	10.0
Nitrogen-Ammonia	0.1	ND	0.14		ND	ND	ND		ND		ND	ND			ND	ND	ND		ND	-	ND	ND	-	-	-	-	0.026	-	0.022	-	0.032	0.033	0	2.0
Phenols		0.02	ND		ND	0.01	ND		ND		ND	ND	ND		ND		ND		ND	-	ND	ND	-	-	-	-	0.0041	-	0.0056	-	0.0043	0.0041	0	0.001
Sulfate	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	-	18.5	28.7	23.0	250
Total Organic Carbon (TOC)	1.3	28.4	ND		ND	ND	ND		ND		ND	1.5	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	13.6	2.1	1	0.66	5	
Total Dissolved Solids (TDS)		377	332		359	394	435		363		365	354	331		351		420		738	-	359	381	-	-	-	-	349	-	381	-	454	348	298	500
Total Hardness	336	395	454		325	315	288		342		360	330	340		363		350		301	-	321	342	-	-	-	-	310	-	330	347	320	340	331	
Total Kjeldahl Nitrogen (TKN)		2.1				ND			ND		ND				ND		ND		ND	-	-	0.28	-	-	-	-	0.35	-	ND	-	ND	ND	1	
Turbidity (NTU units)	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	20.5	19.51	453	5.0
Cyanide		ND				ND			ND		ND				ND				ND	-	-	-	-	-	-	-	ND	-	-	-	0.0024	-	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

	9/90	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	9/02	3/03	9/03
PARAMETER VOLATILES (ug/L)																																						
Acetone																																						
Acrylonitrile																																						
Benzene	0.37	2.24	0.94	2.0	3.0	ND	2.0		33.0		ND		1		ND		1		0.8				1	0.8	0.5	0.6	1		0.9	1	1	0.7	1.0		2.08	ND	1.0	1.3
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
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
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																									ND
Bromoform	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	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	ND	ND
sec-Butylbenzene	0.22	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
tert-Butylbenzene	ND	0.50	ND	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	ND
Chlorobenzene	0.37	0.52	0.27	ND	ND	ND	ND		0.7		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND	ND	ND
Chloroethane	ND	ND	1.52	ND	5.0	ND	2.0		ND		ND		ND		0.5		ND		ND				1	0.6	ND	ND	ND		ND	ND	0.9	ND	ND		ND	ND	ND	ND
Chloroform	ND	0.29	ND	ND	ND	ND	ND		ND		ND		ND																									ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND		43.0		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	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	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
1,2-Dibromoethane	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	ND	ND
1,2-Dichlorobenzene	<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
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
1,4-Dichlorobenzene	0.23	0.43	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
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	0.5	ND	ND		ND	ND	ND	ND
1,1-Dichloroethane	1.41	4.64	3.97	6.0	8.0	1.0	7.0		3.0		1.0		4		2		3		2				4	3	1	3	ND		2	3	3	2	3		3.3	0.82	2.1	2.3
1,2-Dichloroethane	<DL	0.53	0.16	6.0	1.0	ND	ND		ND		ND		ND		ND		ND		ND				ND	0.6	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	4		ND	ND	ND	ND	ND		ND	ND	ND	ND
cis-1,2-Dichloroethene	0.66	1.77	1.27	2.0	3.0	ND	2.0		1.0		ND		2		0.5		1		0.6				1	1	0.5	0.9	ND		ND	2	2	0.9	2		3.18	ND	2	2.4
trans-1,2-Dichloroethene	ND	ND	0.52	ND	ND	ND	ND		0.6		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	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	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	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	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	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	ND
Ethylbenzene	0.46	0.38	0.61	ND	1.0	ND	ND		0.7		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	0.16	0.39	0.23	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		0.99	ND	ND	ND
p-Isopropyltoluene	ND	0.40	<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
Methylene chloride	ND	<DL	ND	1.0	2.0	1.0	2.0		0.5		ND		ND		ND		ND		ND				ND	ND	ND	ND	2 B		ND	ND	ND	ND	ND		ND	ND	ND	ND
4-Methyl-2-pentanone																																						
Naphthalene	0.38	0.75	0.35	ND	ND	ND	ND		3.0		ND		ND		ND		ND		ND				ND	ND	ND	ND	0.6		ND	ND	ND	ND	ND		ND	ND	ND	ND
n-Propylbenzene	ND	0.28	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	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		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	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	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND	ND	ND
Toluene	ND	0.18	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				0.9	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	0.29	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-Trichloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	0.9	ND	ND		ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND	ND	ND
Trichloroethene	0.31	0.52	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND	ND	0.6
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.36	ND	ND	ND	ND	ND	1.0		0.6		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.23	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND	ND	ND
Vinyl acetate																																						
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		0.8		ND				1	ND	ND	ND	ND		ND	ND	1	ND	0.8		ND	ND	0.5	1.5
o-Xylene	0.19	<DL	<DL	ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND	ND	ND
p-Xylene & m-Xylene				ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND	ND	ND

MW-7A
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	9/02	3/03	9/03
PARAMETER METALS (mg/L)																																						
Aluminum	11.2				30.4				0.21				51.8				14.4							14.9		3.74				0.21									0.14
Calcium	32.7	55.4	41.4	50.7	57.6	30.8	53.1	45.0	47.3	59.7	26.5	42.1	47.5	38.5	31.3	47.6	41.8	36.4	39.5	29.5		52.2	48.0	38.5	40.7	41	46.3		42.6	43.1	60.7		41.4		53.7		48.6	43.7
Iron	**50.8**	**79**	**9.9**	**19.2**	**62.6**	**6.19**	**33.6**	**36.7**	**24.0**	**68.7**	**68.3**	**49.3**	**104**	**21.6**	**15.3**	**52.5**	**40.6**	**19.5**	**27.9**	**16.1**		**15.9**	**22.0**	**32.6**	**19.9**	**7.98**	**20.6**		**4.9**	**8.38**	**20.2**		**9.86**		**10.5**		**27**	**16.4**
Magnesium	4.5	13.9	12.3	10.4	18.1	6.3	12.5	12.3	9.99	17.6	10.5	12.6	20.6	8.5	7.13	13.9	11.1	7.66	9.32	6.55		10.8	10.2	10.8	8.46	9.16	9.54		8.8	8.55	12.3		8.26		11.3		10.2	8.23
Manganese	**9.75**	**14.2**	**9.53**	**12.1**	**16.4**	**13.4**	**15.2**	**12.6**	**12.5**	**15.1**	**7.8**	**11.4**	**12.5**	**10.4**	**7.73**	**12.1**	**24.4**	**8.64**	**8.99**	**7.20**		**15.1**	**11.6**	**9.28**	**9.99**	**7.53**	**10.5**		**9.62**	**9.56**	**14**		**9.58**		**14**		**11.7**	**9.91**
Potassium	20.8	23.8	18.9	25.8	36.3	14.3	21.5	21.6	27.0	29.6	17.8	26.8	33.4	17.4	13.2	27.7	7	17.7	16.3	20.5		19.3	18.8	29.8	17.3	25.4	16.1		17.8	23	19.4		16		22.6		18.3	20.3
Sodium	7.2	10.2	7.2	9.1	11.9	7.2	10.6	9.2	8.97	10.2	3.5	7.92	7.92	7.73	6.01	7.5	ND	7.59	6.07	5.16		8.56	6.86	8.40	6.32	9.11	6.22		6.76	7.1	9.05		6.49		8.85		6.68	8.28
PARAMETER (mg/l) TOXIC METALS																																						
Antimony	**0.008**				**0.060**				**0.028**				ND				ND							ND		ND				ND								ND
Arsenic	0.010				**0.060**				**0.045**				**0.094**				**0.061**							**0.046**		0.01				0.02								ND
Barium	0.97				**1.53**				0.79				**1.47**				0.81							0.860		0.78				0.72								0.61
Beryllium					ND				ND				0				ND							ND		ND				ND								ND
Cadmium		<DL	<DL		**0.08**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND		ND	**0.010**	ND	ND	ND	ND		ND	ND	ND		ND		ND		ND	ND
Chromium (Total)	<DL				**0.08**				0.01				**0.15**				**0.07**							**0.051**		0.02				0.02								ND
Copper	<DL				0.03				ND				0.06				0.02							ND		ND				ND								ND
Lead	**0.221**	<DL	0.010	ND	0.014	ND	0.007	0.021	ND	0.012	0.009	0.015	**0.032**	0.008	0.002	0.004	0.010	ND	ND	0.001		ND	0.004	0.014	0.002	0	0		0	0	ND		ND		0.001		0.005	ND
Mercury	ND				**0.080**				ND				ND				ND							ND		ND				ND								ND
Nickel	ND				0.08				0.02				**0.18**				0.01							0.070		0.05				0.05								ND
Selenium	**0.05**	**0.05**	**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
Silver	**0.29**	<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
Thallium	<DL				**0.12**				ND				ND				ND							ND		ND				ND								ND
Zinc	0.09				0.12				0.01				0.24				0.08							0.100		0.03				0.02								ND
PARAMETER (mg/l) LEACHATE INDICATORS																																						
Alkalinity	207	562	195	276	296	187	287.0	299.0	221	206.0	119.0	197.0		192	154	210	194	180	172	168		251	199		191	132	233		199	226	265	164	196		245		238	225
Biochemical Oxygen Demand	25				4.0				12								11									14				ND								8
Boron	0.05				0.17				0.01				ND				ND							0.136		0.1				0.1								ND
Chemical Oxygen Demand	39	26	18	17	ND	5.0	56.0	ND	32.2	59.7	54.8	49.0	31.9	33.8	10.9	12.3	74.5	16.4	20.6	43.4		63.2	72.7		ND	53.1	18.4		32.9	22.5	36.6	ND	32.5		16		18.1	13
Chromium (Hexavalent)	<DL				**16**				ND				ND				ND									ND				ND								ND
Chloride	9.4	12	11.7	13	16	8.0	14.0	16.0	11.5	7.1	4.73	8.41		6.03	4.82	5.02	7.97	8.4	5.81	ND		7.4	6.22		3.73	4.8	4.37		5.46	6.97	6.88		3.85		6.19		4.17	4.6
Color (PCU units)	**40**				ND				**125**								10									**30**				**200**								**20**
Nitrate-Nitrite	<DL	<DL	<DL	ND	3.5	ND	ND	0.1	1.74	0.7	ND	1.35	ND	0.31	ND	ND	ND	0.09	ND	0.275		ND	ND		ND	1.41	ND		ND	ND	ND		ND		ND		ND	0.03
Nitrogen-Ammonia	**3.3**	1.1	0.6	0.2	**3.5**	1.1	**2.7**	**9.9**	**3.23**	0.9	1.52	**2.0**	0.57	**2.2**	1.83	**2.41**	**2.96**	**2.23**	1.84	ND		**2.02**	1.69		1.05	1.36	**2.15**		1.45	**2.44**	1.91	1.83	1.92		**2.26**		**2.21**	**2.8**
Phenols	<DL	**0.049**	ND	ND	**0.030**	ND	ND	ND	**0.015**	ND	**0.006**	**0.016**	**0.012**	ND	**0.017**	ND	**0.004**	ND	ND	**0.015**		**0.006**	**0.004**		**0.006**	ND	ND		**0.02**	**0.01**	**0.01**		**0.02**		**0.0147**		**0.0116**	**0.002**
Sulfate	23	<DL	8.6	15	12	38.0	10.0	ND	19.0	24.0	13.0	27.0		18	17	16	15	16	15	24		17	15		14	16	12		30	14	11		20		8.74		8.71	12
Total Organic Carbon (TOC)	12	16	7.8	11	12	3.0	9.0	28.0	25.4	12.3	5.5	9.2	36	10.8	5.7	6.8	7	6.2	8.6	7.8		9.8	8.8		4.8	6.1	5.3		4.7	7	6.9	4.4	ND		6.5	3.6	4.2	6.1
Total Dissolved Solids (TDS)	276	266	237	304	369	291.0	305.0	448.0	279.0	203.0	142.0	272.0		234	181	192	274	214	196	216		280	212		205	215	227		227	257	327		228		303		283	255
Total Hardness	100	195	154	169	219	103.0	183.0	163.0	226.0	157.0	231.0	177.0		188	169	169	274	122	137	101		175	162		136	140	155		146	143	202		137		181		163	143
Total Kjeldahl Nitrogen (TKN)	4.6				4.6				3.67				4.12				11.3									ND				15.4								3.6
Turbidity (NTU units)	**20**	**400**	**803**	**810**	**1850**	**9.0**	**123.0**	**302.0**	**145.0**	**250.0**	**725.0**	**130.0**		**220**	**56**	**56**	**100**	**30**	**110**	**195**		**120**	**140**		**58**	**11**	**60**		**30**	0.95	**44**		**27**		**16**		**84**	**64**
Cyanide	0.13				ND				ND				ND				ND									ND				ND								ND

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

	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	4/19	9/19	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																			
Acetone				ND	2.3	2.8	2.8		1.9	3.2	ND	ND	ND	ND	ND	ND	ND		1.4	-	ND	ND	ND	ND	ND	-	ND	ND	1.7	ND	ND	ND	0.60	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	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	ND	ND	1.26	1.0	
Bromobenzene	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	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	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	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	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	0.00	5.0	
Chlorobenzene	ND	0.36	ND	ND	ND	0.33	0.26		0.29	ND	ND	0.37	ND	ND	ND	ND	ND		0.31	-	ND	0.56	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.08	5.0	
Chloroethane	ND	0.38	ND	0.44	0.58	0.56	0.31		0.32	ND	ND	0.25	ND	ND	ND	ND	ND		0.26	-	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.26	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	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	0.75	5.0	
2-Chlorotoluene	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	-	-	-	-	-	-	-	-	-	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	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	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	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	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	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	0.55	ND	ND	ND	0.34	0.38		0.4	0.28	0.34	0.57	0.24	ND	ND	ND	ND		0.48	-	ND	0.71	0.44	ND	ND	-	ND	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	ND	0.00	5.0	
Dichlorodifluoromethane	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	-	-	-	9.7	-	1.4	-	-	-	0.30	5.0	
1,1-Dichloroethane	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	ND	ND	1.77	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	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	0.07	5.0	
cis-1,2-Dichloroethene	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	ND	ND	1.07	5.0	
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.34	ND		ND	ND	ND	0.23	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	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	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	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	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	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	-	-	-	-	-	-	-	-	-	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	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	0.11	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	0.00		
Naphthalene	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	-	-	-	-	-	-	-	-	-	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	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	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	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	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	ND	-	ND	ND	ND	ND	ND	ND	0.02	5.0	
1,2,3-Trichlorobenzene	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	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.01	5.0	
1,1,1-Trichloroethane	ND	ND	ND	ND	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	
1,1,2-Trichloroethane	ND	ND	ND	ND	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	
Trichloroethene	ND	0.41	ND	0.35	0.43	0.49	0.41		0.37	ND	ND	0.4	ND	ND	ND	ND	ND		0.43	-	ND	0.57	0.28	ND	ND	-	ND	ND	ND	ND	ND	ND	0.10	5.0	
Trichlorofluoromethane	ND	ND	ND	ND	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	
1,2,3-Trichloropropane	ND	ND	ND	ND	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	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.03	5.0	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.00	5.0	
Vinyl acetate				ND	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		
Vinyl chloride	0.7	0.74	ND	0.74	1.4	1.5	0.79		0.81	ND	0.29	0.49	0.28	ND	0.75	ND	ND		0.7	-	ND	0.86	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.27	2.0	
o-Xylene	ND	ND	ND	ND	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-Xylene & m-Xylene	ND	ND	ND	ND	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	

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

	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	4/19	9/19	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum		1.1		ND		ND			ND		0.251				ND				0.04	-	-	ND	ND	-	ND	-	0.03	0.853	-	0.104	0.295	-	4.32	
Calcium	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	53.3	-	43.28	
Iron	16.6	17.2	6.8	1.1	20.8	25.7	21.8		3.8		10	16.8	8.98		7.8	0.12	28		8.15	-	10.1	20.2	11.8	4.68	18.4	-	11.9	2.31	32.8	25.2	27.7	-	22.64	0.3
Magnesium	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	10.6	-	9.59	35.0
Manganese	8.31	8.9	6	7.2	12.8	14.3	9.6		13.5		8.55	11.3	7.84		13.7	2	16		15.7	-	16.1	16.3	6.89	9.5	10.7	-	16.4	2.16	11.6	12.7	14.1	-	10.76	0.3
Potassium	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	12.2	-	18.73	
Sodium	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	3.39	-	5.98	20.0
PARAMETER (mg/l) TOXIC METALS																																		
Antimony		ND		ND		ND			ND		ND				ND				0	-	-	ND	ND	-	ND	-	ND	ND	-	ND	ND	-	0.00	0.003
Arsenic		0.04		ND		0.043			ND		0.016				ND				0.007	-	-	0.026	0.026	-	0.026	-	0.01	0.01	-	0.0413	0.0461	-	0.02	0.025
Barium		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	0.588	-	0.56	1.0
Beryllium		ND		ND		ND			ND		ND				ND				2E-04	-	-	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	-	8E-05	ND	ND	ND	ND	-	0.00	0.005
Chromium (Total)		0.01		ND		ND			ND		ND				ND				0.003	-	-	0.003	0.001	-	0.011	-	0.006	ND	-	ND	ND	-	0.01	0.05
Copper		ND		ND		ND			ND		ND				ND				ND	-	-	ND	ND	-	ND	-	0.003	ND	-	ND	ND	-	0.00	0.2
Lead	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	ND	-	0.01	0.025
Mercury		ND		ND		ND			ND		ND				ND				ND	-	-	ND	ND	-	ND	-	ND	2E-04	-	0.0001	ND	-	0.00	0.0007
Nickel		ND		ND		ND			ND		ND				ND				0.012	-	-	0.011	0.005	-	ND	-	0.013	0.005	-	0.0048	0.0056	-	0.02	0.1
Selenium	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND			ND				0.007	-	-	0.006	0.008	-	ND	-	ND	ND	-	ND	ND	-	0.00	0.01
Silver	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND			ND				ND	-	-	0.003	0.002	-	ND	-	ND	ND	-	ND	0.0023	-	0.01	0.05
Thallium		ND		ND		ND			ND		ND				ND				ND	-	-	ND	ND	-	0.014	-	ND	ND	-	0.0145	0.0097	-	0.01	0.0005
Zinc		ND		ND		0.039			0.02		0.032				0.038				0.063	-	-	0.036	0.015	-	ND	-	0.01	0.008	-	0.0078	ND	-	0.03	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																		
Alkalinity	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	221	-	201.6	
Biochemical Oxygen Demand		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	10.1	-	5.7	
Boron		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	0.0457	-	0.0	1.0
Chemical Oxygen Demand	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	43.3	-	25.8	
Chromium (Hexavalent)		ND		ND		ND			ND		ND				ND				ND	-	-	ND	ND	-	-	-	ND	-	-	ND	ND	-	0.6	0.05
Chloride	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	2.7	-	5.4	250
Color (PCU units)		50		100		250			25		60				200				130	-	-	280	120	-	10	-	15	-	-	75	100	-	65.7	15
Nitrate-Nitrite	0.03	ND	0.47	ND	ND	ND	ND		ND		ND	ND			ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	0.044	0.58	0.073	0.07	ND	-	0.2	10
Nitrogen-Ammonia	2.1	1.1	0.91	1.7	1.2	1.3	1.6		1.5		1.54	1.72			1.3	ND	2.38		1.49	-	1.3	2.11	1.72	1.86	2.22	-	1.8	1.6	2.1	1.2	2.4	-	1.8	2.0
Phenols	ND	ND	ND	ND	ND	0.007	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	0.005	0.011	ND	ND	0.006	-	0.007	0.014	0.0146	0.0095	0.0095	-	0.0	0.001
Sulfate	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	5.1	-	11.9	250
Total Organic Carbon (TOC)	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	6.4	-	7.4	
Total Dissolved Solids (TDS)	208	213	107	248	336	231	351		244		184	221	178		265	309	350		242	-	291	293	141	259	207	-	272	448	296	246	254	-	242.6	500
Total Hardness	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	170	-	154.3	
Total Kjeldahl Nitrogen (TKN)		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	2.2	-	2.8	
Turbidity (NTU units)	81	63.4	118	44.6	40.3	87	33.2		5.9		23	4	0	308	3	6.9	11		9.6	-	12.5	13.8	15.2	21.2	15.4	-	3	41	3.5	10.5	3.5	-	132.8	5.0
Cyanide		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
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	9/02	3/03	9/03	3/04
PARAMETER VOLATILES (ug/L)																																							
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-Dibromoethane	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																																		
p-Xylene & m-Xylene				ND	ND																																		

MW-7C
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	9/02	3/03	9/03	3/04
PARAMETER METALS (mg/L)																																							
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																																	
PARAMETER (mg/l) TOXIC METALS																																							
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																																		
PARAMETER (mg/l) LEACHATE INDICATORS																																							
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																																		

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

	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	4/19	9/19	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	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	0.40	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	0.03	1.0	
Bromobenzene			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	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	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	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	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	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	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	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	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	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	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	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	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	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	0.00	5.0	
Dichlorodifluoromethane			ND	ND	ND	ND	ND	ND	0.2	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	1.2	1.1	1.2	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	ND	ND	0.74	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	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	0.00	5.0	
cis-1,2-Dichloroethene			ND	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	0.07	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	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	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	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	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	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	-	-	-	-	-	-	-	-	-	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	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	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	0.00		
Naphthalene			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	-	-	-	-	-	-	-	-	-	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	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	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	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	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	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2,3-Trichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.00	5.0	
1,2,4-Trichlorobenzene			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-Trichloroethane			ND	ND	ND	ND	ND	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	
1,1,2-Trichloroethane			ND	ND	ND	ND	ND	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	
Trichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	5.0	
Trichlorofluoromethane			ND	ND	ND	ND	ND	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	
1,2,3-Trichloropropane			ND	ND	ND	ND	ND	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	
1,2,4-Trimethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.00	5.0	
1,3,5-Trimethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.00	5.0	
Vinyl acetate			ND	ND	ND	ND	ND	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		
Vinyl chloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	2.0	
o-Xylene			ND	ND	ND	ND	ND	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-Xylene & m-Xylene			ND	ND	ND	ND	ND	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	

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

	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	4/19	9/19	MEAN	NYS STD
PARAMETER METALS (mg/L)																																	
Aluminum			ND		ND		ND	ND		ND			ND	ND			ND	ND	0	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	0.78	
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	115	104	98.23	
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	ND	0.0147	0.07	0.0643	0.147	0.0392	0.0303	1.23	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	18.4	17	15.89	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	0.48	0.70	1.47	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	ND	1.68	2.16	
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	7.14	6.71	6.36	20.0
PARAMETER (mg/l) TOXIC METALS																																	
Antimony			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	-	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	0.0741	-	0.09	1.0
Beryllium			ND		ND		ND	ND		ND			ND	ND			ND	0.0002	-	-	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	0.00	0.005
Chromium (Total)			ND		ND		ND	ND		0.006			0.005	ND			ND	0.0001	-	-	0.001	ND	-	ND	ND	ND	ND	-	ND	ND	-	0.00	0.05
Copper			ND		ND		ND	ND		ND			ND	ND			ND	0.003	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	0.00	0.2
Lead			ND	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	ND	ND	0.00	0.025
Mercury			ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.0001	-	0.0001	0.0001	-	0.00	0.0007
Nickel			ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	0.0016	0.0015	-	0.0011	ND	-	0.02	0.1
Selenium			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	-	0.00	0.05
Thallium			ND		ND		ND	ND		ND			ND	ND			ND	ND	0	-	ND	ND	-	ND	ND	ND	0.0052	-	ND	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	0.0227	-	0.02	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																	
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	327	313	310.0	
Biochemical Oxygen Demand			ND		ND		ND	ND		ND			ND	ND		ND	ND	ND	-	-	ND	ND	ND	ND	ND	1.0	1.0	ND	ND	1.0	1.0	0.2	
Boron			ND		ND		ND	ND		ND			0.02	0.021			ND	ND	-	-	0.03	0.05	-	ND	ND	0.0166	0.0187	-	0.0136	ND	-	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	ND	ND	5.1	
Chromium (Hexavalent)			ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	0.0033	-	-	ND	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	5.7	5.9	13.1	250
Color (PCU units)			13.0		15.0		50	5		ND			0	17.5			ND	8	-	-	12	8	-	5	5	5	-	-	15	10	-	7.2	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	0.083	0.0	10.0
Nitrogen-Ammonia			ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	1.5	ND	ND	ND	ND	ND	ND	0.059	ND	ND	ND	0.028	0.038	0.03	0.089	0.066	0.21	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	0.0011	0.0034	ND	0.0054	0.004	0.0085	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	6.8	8.3	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	1.6	0.7	18.4	
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	310	302	336.6	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	280	300	297.1	
Total Kjeldahl Nitrogen (TKN)			ND		ND		ND	ND		ND			ND	ND		ND	ND	ND	-	-	0.24	0.28	-	0.13	ND	0.21	0.15	ND	2.8	ND	ND	1.5	
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	13.5	9.04	26.1	5.0
Cyanide			ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	-	-	ND	0.0024	-	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-8B
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	9/02	3/03	9/03
PARAMETER VOLATILES (ug/L)																																						
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	1.6	2	2.5
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
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
Bromodichloromethane	ND			ND	ND				ND		ND		ND																								ND
Bromoform	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																																						
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	1.21	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
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	0.84	1.5	2.4
Chloroethane	ND			ND	ND				ND		ND		1		1		0.6		0.9				2	1	1	1	1	0.6	ND	2	2	ND	ND	ND	ND	1	0.96	ND
Chloroform	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
1,2-Dibromo-3-chloropropane	ND			ND	ND				ND																													ND
1,2-Dibromoethane	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		2				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		2				2	1	2	2	1	0.6	1	2	2	1	2	ND	1.92	0.69	0.89	1.6
trans-1,4-Dichloro-2-butene																																						
Dichlorodifluoromethane	ND			3.0	3.0				1.0		0.6		ND		ND		0.8		0.6				ND	0.7	ND	0.5	ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND	ND	ND
1,1-Dichloroethane	2.12			8.0	7.0				3.0		ND		4		3		3		5				2	4	2	3	3	4	3	3	2	3	2	3.72	2.18	2.4	1.9	1.6
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	2.6	2.8	2.4
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	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		8				10	2	4	1	ND	ND	ND	3	5	0.6	0.8	ND	1.35	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
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	ND	ND	ND
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		3				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		0.6				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		1				1	ND	0.8	ND	0.7	ND	ND	0.8	0.9	ND	ND	ND	1.13	ND	ND	ND
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		1				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				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	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	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.36			ND	ND				0.6		8.0		1		0.8		0.8		0.9				0.6	0.9	0.9	1	2	0.9	ND	ND	1	ND	1	0.94	1.15	ND	0.52	ND
Trichlorofluoromethane	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.12			1.0	ND				0.5		ND		ND		1		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND			ND	ND				ND		19.0		ND		3		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	0.9	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate																																						
Vinyl chloride	ND			8.0	10				4.0		19.0		11		7		ND		6				4	8	6	8	10	8	7	12	8	5	6	ND	ND	1.9	1.6	2
o-Xylene	ND				ND				ND		ND		ND		0.8		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Xylene & m-Xylene				ND	ND				1.5		1.7		ND		2		5		ND				0.7	ND	ND	ND	ND	ND	ND	ND	0.9	ND	ND	ND	ND	ND	ND	ND

MW-8B
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	9/02	3/03	9/03
PARAMETER METALS (mg/L)																																						
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		ND		0.22
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	65.5	65.4	65.3
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	7.05	6.61	8.1
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	9.83	10.3	9.54
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	7.43	7.62	8.05
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	3.01	2.7	3.16
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	7.18	6.69	5.48
PARAMETER (mg/l) TOXIC METALS																																						
Antimony	0.01				ND				0.04				ND				ND				ND			ND		ND		ND		ND		ND		ND		ND		ND
Arsenic	0.020				0.024				0.028				0.046				0.023				0.17			0.018		0.02		0.04		0.07		0.03		0.16		0.02		ND
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		0.19		0.17
Beryllium					ND				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	0.002	0.004	0.01	ND	ND	ND	0.005	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (Total)	<DL				ND				0				0.01				ND				0.046			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
Lead	0.583	ND	0.009	ND	ND	ND	0.060	ND	0.005	0.026	0.008	0.004	0.033	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	0.004	0.01	ND
Mercury	ND				ND				ND				ND				ND				0.0003			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		0.04		ND
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	ND
Silver	0.03				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
Zinc	0.03				0.01				0.02				0.07				0.03				0.129			ND		0.06		0.06		0.03		ND		0.03		ND		ND
PARAMETER (mg/l) LEACHATE INDICATORS																																						
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	219	270	250
Biochemical Oxygen Demand	28				ND				13				3				ND				17			4		ND		16		ND		5		18		ND		4
Boron	<DL				0.04				ND				ND				ND				ND			0.072		0.07		0.08		0.11		0.08		ND		0.08		0.05
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	ND	33.6	32.1	42
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		9.27	12.8	7.79	6.7
Color (PCU units)	45				ND				60.0				30				35				25			200		30		500		250		45		750				10
Nitrate-Nitrite	2.1	<DL	<DL	ND	ND	0.04	ND	ND	1.97	1.08	ND	ND	0.4	0.37	ND	ND	ND	ND	ND	ND	ND	0.107	ND	ND	ND	ND	ND	ND	ND	ND	0.05	ND	ND		ND	0.13	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	1.87	1.45	2.4
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	0.01	0.01	ND
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	8.76	8.22	8.2
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	2.9	2.5	10
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		311	285
Total Hardness	212	249	219	271	205	174	219	213	262	270	266	243	267	301	356	271	327	210	202	202	252	240	279	209	221	206	226	265	211	187	245	225	223	244	226	204	206	202
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				1.81		4.5
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		8	19
Cyanide	ND				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND		ND		ND

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

	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	4/19	9/19	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																			
Acetone				ND	ND	5.6	2.4	3.2	2	4.9	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	0.73	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	3.7	3	2.2	5.5	3.2	2.3	1.9	1.1	1.8	3.7	2.3	3.4	2	2.1	1.4	4.1	ND	ND	1.8	ND	ND	3.1	1.3	ND	ND	ND	1.6	ND	1.0	ND	ND	1.0	2.21	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	-	-	-	-	-	-	-	-	-	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	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	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	0.09	5.0	
2-Butanone				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	ND	ND	ND	0.04	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	-	-	-	-	-	-	-	-	-	0.00	5.0	
sec-Butylbenzene	ND	ND	ND	0.49	0.36	ND	ND	ND	ND	0.35	ND	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.05	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	-	-	-	-	-	-	-	-	-	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	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	0.00	5.0	
Chlorobenzene	3.8	2.8	2	5.2	3.8	2.8	1.9	1.2	2.1	5.2	2.9	5	2.4	2.4	1.7	6.4	ND	3.2	3.2	ND	ND	6.7	2.1	ND	ND	ND	2.8	8.9	1.7	6.6	ND	2.3	2.08	5.0	
Chloroethane	ND	1.3	1.1	1.4	1.1	1	0.9	0.67	0.87	1.1	0.89	1	0.95	0.98	0.68	0.69	ND	ND	0.78	ND	ND	0.45	0.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.57	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	ND	ND	0.00	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	0.00	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	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	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	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	0.00	5.0	
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3	ND	0.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	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	-	-	-	0.04	3.0	
1,4-Dichlorobenzene	2.3	1.6	1.1	2.8	1.9	1.5	0.88	0.81	0.95	2.3	1.3	2.4	1	1	0.71	2.6	ND	ND	1.3	ND	ND	2.8	0.66	ND	ND	ND	1.1	ND	ND	ND	ND	ND	1.10	3.0	
trans-1,4-Dichloro-2-butene				ND	ND	ND	ND	ND	ND	ND	ND	ND	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	5.0	
Dichlorodifluoromethane	ND	0.74	0.52	0.76	0.61	ND	0.44	0.49	0.43	0.87	0.46	0.38	1.4	0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	9.1	-	ND	-	-	-	0.49	5.0	
1,1-Dichloroethane	1	1.7	1.7	1.5	1.4	1.6	1.6	2	2	1.8	1.4	1.4	ND	2.7	1.4	0.76	ND	ND	1.1	ND	ND	0.47	1.1	ND	ND	ND	1.1	ND	1.6	ND	ND	1.6	1.91	5.0	
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25	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	ND	ND	0.05	5.0	
cis-1,2-Dichloroethene	4	3.8	5	6.4	5.2	4.4	4.3	4	4.2	11	7.8	10	7.3	11	4.6	9.4	3.2	9	6.4	11	5.4	12	6.6	6.9	5.4	9.6	5.8	17.3	5.3	6.7	ND	6.3	6.38	5.0	
trans-1,2-Dichloroethene	0.8	0.58	0.5	0.86	0.42	0.4	0.37	0.3	0.34	0.68	0.37	0.52	0.4	0.45	ND	ND	ND	ND	ND	ND	ND	ND	0.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.40	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	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	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	0.00	0.4	*
Ethylbenzene	ND	ND	0.47	1.2	1	ND	ND	ND	ND	0.61	ND	0.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	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	-	-	-	-	-	-	-	-	-	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	0.00	5.0	
Isopropylbenzene	ND	0.4	0.32	0.95	0.65	0.28	ND	ND	ND	0.56	0.34	0.52	ND	ND	ND	0.72	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.28	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	-	-	-	-	-	-	-	-	-	0.02	5.0	
Methylene chloride	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	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		
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.08	10.0	**
n-Propylbenzene	ND	ND	ND	0.32	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.19	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	ND	ND	ND	ND	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	
1,1,2,2-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	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07	5.0	
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	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	
1,2,3-Trichlorobenzene	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	
1,2,4-Trichlorobenzene	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-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	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	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	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	
Trichloroethene	1.7	0.93	1.8	2.2	1.2	1.2	1.2	0.85	0.83	3.6	2.1	3	2	2.2	1.2	2.6	ND	ND	1.6	ND	ND	4.4	1.8	ND	ND	ND	1.3	ND	1.2	ND	ND	1.0	1.11	5.0	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	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	
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	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	
1,2,4-Trimethylbenzene	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	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.40	5.0	
Vinyl acetate				ND	ND	ND	ND	ND	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		
Vinyl chloride	8.6	3.8	4.6	6.8	5.2	3.1	3.4	2.2	3	11	6.2	5.9	5.1	7.5	2.7	6.2	ND	4.9	4.4	5.5	ND	6.2	2.6	ND	ND	ND	2.8	7.3	2.4	ND	ND	2.6	4.85	2.0	
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	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	
p-Xylene & m-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.21	5.0	

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

	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	4/19	9/19	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.0473	-	0.0416	ND	-	0.39	
Calcium	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	79.1	84.4	74.07	
Iron	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	3.97	5.01	12.11	0.3
Magnesium	9.24	10.4	11.6	12.5	11.6	11.5	11.4	10.4	12.2	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	11.4	12.3	11.33	35.0
Manganese	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	6.8	7.52	8.83	0.3
Potassium	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	2.9	1.7	3.1	ND	3.5	1.9	2.7	ND	ND	3.51	5.7	2.13	3.05	ND	2.76	3.01	
Sodium	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	7.0	5.8	4.7	6.5	7.5	6.68	10.7	7.13	4.71	6.0	5.1	5.52	7.1	7.56	20.0
PARAMETER (mg/l) TOXIC METALS																																		
Antimony		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	0.00	0.003
Arsenic		0.01		0.03		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	0.017	-	0.03	0.025
Barium		0.17		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	0.125	-	0.18	1.0
Beryllium		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.0002	-	-	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	0.00	0.005
Chromium (Total)		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	0.002	ND	-	ND	ND	0.0017	0.004	-	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	-	0.00	0.2
Lead	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	0.002	ND	0.0064	ND	0.0017	0.0033	0.0041	0.0013	ND	ND	0.01	0.025
Mercury		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	7E-05	-	0.0001	ND	-	0.00	0.0007
Nickel		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.0006	-	-	0.007	0.005	-	ND	ND	0.0052	0.0057	-	0.0048	0.0047	-	0.01	0.1
Selenium	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	-	0.00	0.0
Silver		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	0.002	0.002	-	ND	ND	ND	ND	-	ND	0.0021	-	0.00	0.05
Thallium		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	0.0128	ND	ND	ND	-	0.0103	ND	-	0.00	0.0005
Zinc		ND		ND		0.01		ND	0.02		0.013			0.01	0.015			0.023	0.11	-	-	0.002	0.009	-	ND	0.0209	ND	0.021	-	0.0099	ND	-	0.02	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																		
Alkalinity	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	238	261	261.64	
Biochemical Oxygen Demand		15.6		ND		ND		2.9	2.8		3.9			ND	ND		ND	ND	3.6	-	-	7	3.2	2.7	ND	ND	1.2	3.5	ND	ND	1.8	1.4	4.15	
Boron		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	0.0386	-	0.04	1.0
Chemical Oxygen Demand	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	10.2	12.4	27.88	
Chromium (Hexavalent)		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	-	-	ND	ND	-	0.00	0.05
Chloride	5.2	6	5.4	9.6	5.5	5.3	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	2.6	11.8	11.94	250
Color (PCU units)		12		18		70		30	20		7.5			0	7.5			ND	170	-	-	27	38	-	5	20	10	-	-	15	5	-	65.81	15
Nitrate-Nitrite	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	ND	0.68	0.032	0.062	ND	ND	ND	0.066	0.11	10
Nitrogen-Ammonia	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	0.86	1.0	1.64	2.0
Phenols	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	0.0069	0.0041	0.02	0.001
Sulfate	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	6.6	8.5	8.61	250
Total Organic Carbon (TOC)	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	5.9	15	6.2	2.2	2.8	6.71	
Total Dissolved Solids (TDS)	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	410	306	297.32	500
Total Hardness	194	217	248	244	231	234	235	227	254	249	250	230	240	270	249	234	240	270	219	247	228	217	229	261	212	400	228	250	220	173	180	220	237.29	
Total Kjeldahl Nitrogen (TKN)		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	1.2	1.5	2.33	
Turbidity (NTU units)	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	35	9.8	20.1	10.9	9.42	27.50	5.0
Cyanide		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	-	-	ND	0.0024	-	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	9/02	3/03	9/03
PARAMETER VOLATILES (ug/L)																																						
Acetone																																						
Acrylonitrile																																						
Benzene	ND	0.12	ND	ND	ND	ND	ND										ND		ND				ND												ND		ND	
Bromobenzene	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	
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND																															
Bromoform	ND	ND	ND	ND	ND	ND	ND																															
Bromomethane	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	
sec-Butylbenzene	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	
Carbon disulfide																																						
Carbon tetrachloride	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	
Chloroethane	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND		ND	
Chloroform	0.86	1.44	ND	ND	ND	ND	ND																															
Chloromethane	ND	ND	ND	2.0	ND	ND	ND										ND		ND				ND												ND		ND	
2-Chlorotoluene	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	
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND																															
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND																															
1,2-Dibromoethane	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																																						
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND										ND		0.6				0.6 J												ND		ND	
1,1-Dichloroethane	5.73	5.65	7.73	4.0	3.0	4.0	2.0										3.0		ND				3.0												3.05		2.1	
1,2-Dichloroethane	0.17	0.24	ND	ND	ND	ND	ND										ND		ND				ND												ND		ND	
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND		ND	
cis-1,2-Dichloroethene	ND	1.12	0.97	ND	ND	ND	ND										ND		ND				ND												ND		ND	
trans-1,2-Dichloroethene	1.39	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	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	
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	5.95	1.55	0.43	3.0	1.0	1.0	6.0										ND		4.0				ND												ND		ND	
4-Methyl-2-pentanone																																						
Naphthalene	ND	ND	ND	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	<DL	<DL	ND	ND	ND	ND	ND										ND		ND				2.0												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		ND	
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		ND				ND												ND		ND	
Vinyl acetate																																						
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND		ND	
o-Xylene	ND	ND	ND		ND												ND		ND				ND												ND		ND	
p-Xylene & m-Xylene			ND	ND	ND												ND		ND				ND												ND		ND	

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	9/02	3/03	9/03
PARAMETER METALS (mg/L)																																						
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						53.1															
Iron	**110**	**90.3**	**0.6**	**72.3**	**40.6**	**25.6**	**37.5**	**36.2**						**73.1**		**68.1**	**77.2**						**70.1**															
Magnesium	14.4	19.5	13.3	16.3	11.9	8.6	10.2	15.3						16.4		16.2	16.9						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**						**1.06**															
Potassium	10.5	8.7	5.8	12.8	6.9	5.7	6.1	8.1						11.9		10.5	8.9						9.44															
Sodium	3.4	2.2	3	4.5	4.1	3.3	3.7	6.3						3.7		3.24	4.0						3.51															
PARAMETER (mg/l) TOXIC METALS																																						
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						**0.013**															
Chromium (Total)	**0.06**	0.03	0.02	**0.08**	**0.07**	**0.05**	0.04	**0.06**						**0.11**			**0.076**						**0.215**															
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						0.014															
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						ND															
Silver	ND				ND												ND																					
Thallium	ND				ND												ND																					
Zinc	**0.32**				0.16												0.28																					
PARAMETER (mg/l) LEACHATE INDICATORS																																						
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																						32.7		2.7	
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
OLEAN, NEW YORK

	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	4/19	9/19	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																			
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	ND	-	0.51	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					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	-	-	-	-	-	-	-	-	-	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	-	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	-	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	-	-	-	-	-	-	-	-	-	0.00	5.0	
sec-Butylbenzene	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	-	-	-	-	-	-	-	-	-	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	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	0.00	5.0	
Chlorobenzene	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					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	-	0.01	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	-	0.07	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	-	0.05	5.0	
2-Chlorotoluene	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	-	-	-	-	-	-	-	-	-	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	-	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	-	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	-	-	-	0.00	3.0	
1,4-Dichlorobenzene	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	-	0.00	5.0	
Dichlorodifluoromethane	ND					1.9	ND	ND	ND	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	-	ND	-	-	-	0.07	5.0	
1,1-Dichloroethane	2.8					1.9	2.2	2.3	2.2	2.7	1.6	2.3	0.97	1.2	1.7	1.3	ND	ND	1.7	-	ND	-	1.5	ND	ND	ND	ND	ND	2.8	ND	ND	-	1.81	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	-	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	-	0.00	5.0	
cis-1,2-Dichloroethene	ND					2.7	0.41	0.38	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	-	0.19	5.0	
trans-1,2-Dichloroethene	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	ND	-	0.04	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	-	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	-	-	-	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	-	-	-	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	-	-	-	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	-	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	-	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	-	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	0.00	5.0	
p-Isopropyltoluene	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	0.75	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	0.59	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	-	-	-	-	-	-	-	-	-	0.00	10.0	**
n-Propylbenzene	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	-	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	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	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	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	ND	ND	ND	ND	-	0.05	5.0	
1,2,3-Trichlorobenzene	ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	-	-	-	-	-	-	-	-	0.00	5.0	
1,2,4-Trichlorobenzene	ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	-	-	-	-	-	0.00	5.0	
1,1,1-Trichloroethane	ND					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	
1,1,2-Trichloroethane	ND					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	
Trichloroethene	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	-	0.01	5.0	
Trichlorofluoromethane	ND					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	
1,2,3-Trichloropropane	ND					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	
1,2,4-Trimethylbenzene	ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	-	-	-	-	-	0.00	5.0	
1,3,5-Trimethylbenzene	ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	-	-	-	-	-	0.00	5.0	
Vinyl acetate						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		
Vinyl chloride	ND					1.5	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	2.0	
o-Xylene	ND					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-Xylene & m-Xylene	ND					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	

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

	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	4/19	9/19	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum						2.3			ND		0.238			ND	0.59			0.12	ND	-	-	-	ND	-	ND	-	0.056	-	-	0.43	0.251	-	5.32	
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	78.4	-	52.38	
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	1.44	-	18.96	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	10.4	-	9.49	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	1.53	-	0.44	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	ND	-	3.66	
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	4.62	-	3.39	20.0
PARAMETER (mg/l) TOXIC METALS																																		
Antimony						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	-	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	0.0314	-	0.03	1.0
Beryllium						ND			ND		ND			ND	ND			ND	2E-04	-	-	-	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	-	0.00	0.005
Chromium (Total)						0.01			ND	ND	ND	ND		ND	ND			ND	ND	-	-	-	ND	-	ND	-	ND	-	-	0.0069	ND	-	0.03	0.05
Copper						ND			ND		ND			ND	ND			ND	ND	-	-	-	ND	-	ND	-	ND	-	-	0.0044	ND	-	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	ND	-	0.01	0.025
Mercury						ND			ND		ND			ND	ND			ND	ND	-	-	-	ND	-	ND	-	ND	-	-	-	ND	-	0.00	0.0007
Nickel						ND			ND		ND			ND	ND			ND	ND	-	-	-	0.002	-	ND	-	0.001	-	-	0.0042	0.0054	-	0.04	0.1
Selenium						ND	ND		ND	ND	ND	ND		ND	ND			ND	ND	-	-	-	0.004	-	ND	-	ND	-	-	ND	ND	-	0.00	0.0
Silver						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	-	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	0.306	-	0.11	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																		
Alkalinity						158	155						1.860			226	220		180	-	-	-	-	-	-	-	200	-	-	-	-	-	88.8	
Biochemical Oxygen Demand						-											ND		-	-	-	-	-	-	-	-	1.2	-	-	-	-	-	0.1	
Boron						ND			ND		ND			ND	ND				ND	-	-	-	-	-	ND	-	0.01	-	-	0.0115	ND	-	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	12.4	-	12.2	
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	-	-	-	-	-	5.9	-	-	-	-	-	6.4	250
Color (PCU units)						-													12	-	-	-	-	-	-	5	10	-	-	-	-	-	1.8	15.0
Nitrate-Nitrite						0.05	0.15									ND	0.069		ND	-	ND	-	-	-	-	0.055	0.035	-	-	ND	0.078	-	0.0	10.0
Nitrogen-Ammonia						ND	ND		ND				ND	ND	ND	ND	ND		ND	-	ND	-	-	-	-	ND	0.026	-	-	0.091	0.033	-	0.0	2.0
Phenols						ND	0.0081			ND	ND	ND	ND	ND	ND	ND			ND	-	-	-	-	-	-	-	0.003	-	-	0.0161	0.0033	-	0.0	0.001
Sulfate						8.2	10.1						9.52	8.13		8.8	8.5		8.3	-	7.9	-	-	-	-	-	9.6	-	-	-	-	-	7.1	250
Total Organic Carbon (TOC)						-	1.5	5	2.4	2.3		ND	BD	ND	2.5	ND	ND		1.5	-	-	-	-	-	-	2.6	ND	5.8	15.8	3.8	2.5	-	3.2	
Total Dissolved Solids (TDS)						244	177										240		215	-	228	-	-	-	-	-	225	-	-	-	-	-	129.4	500
Total Hardness						185	160		205			190	190	170		195		200	173	-	194	-	-	-	170	-	200	-	-	200	180	-	140.8	
Total Kjeldahl Nitrogen (TKN)						ND								ND	ND		ND		ND	-	-	-	-	-	-	0.11	0.27	-	-	0.35	0.49	-	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	26.5	-	126.3	5.0
Cyanide						-													-	-	-	-	-	-	-	-	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.

MW-10B
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	9/02	3/03	9/03
PARAMETER VOLATILES (ug/L)																																						
Acetone																																						
Acrylonitrile																																						
Benzene		1.36	3.78	4.0	5.0	2.0	4.0		4.0		3.0		4		3		3		3		3		3	3	2	2	3	3	2	3	2	2	2	2.74	2.29	1.5	2.2	2.1
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	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	ND	ND	ND	ND	ND
Bromodichloromethane		ND	<DL	ND	ND	ND	ND		ND		ND		ND																									ND
Bromoform		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	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	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	ND	ND	ND	ND
tert-Butylbenzene		1.91	<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
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	ND	ND	ND
Chlorobenzene		0.38	0.86	1.0	ND	ND	1.0		1.0		1.0		1		1		0.8		1		1		1	1	1	0.9	0.9	1	1	2	1	0.7	0.9	1.22	1.58	0.58	1.5	1.4
Chloroethane		ND	1.0	ND	ND	ND	2.0		ND		ND		ND		ND		ND		0.5		ND		ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		1.73	<DL	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	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	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	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND	ND		ND		ND		ND																									ND
1,2-Dibromo-3-chloropropane		ND	ND	ND	ND	ND	ND		ND																													ND
1,2-Dibromoethane		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	ND	ND	ND	ND
1,2-Dichlorobenzene		0.14	0.18	ND	ND	ND	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	<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
1,4-Dichlorobenzene		0.82	0.66	ND	ND	ND	1.0		0.7		0.6		0.6		0.7		ND		0.6		0.7		0.7	0.7	0.6	0.6	ND	0.6	ND	0.6	0.6	ND	ND	ND	ND	0.55	ND	
trans-1,4-Dichloro-2-butene																																						
Dichlorodifluoromethane		ND	16.8	4.0	ND	ND	ND		3.0		1.0		ND		ND		1		2		3		2 J	1	1	0.9	1	1	ND	0.7	1	ND	0.9	ND	ND	ND	ND	ND
1,1-Dichloroethane		26.9	22.4	30.0	26.0	30.0	34.0		26.0		22.0		25		18		25		22		22		19	20	18	20	22	23	20	19	16	19	17	14.7	17.8	17	15	16.1
1,2-Dichloroethane		0.96	0.5	ND	1.0	1.0	ND		ND		ND		ND		ND		ND		ND		0.6		ND	0.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	0.15	ND	ND	ND	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-1,2-Dichloroethene		34.8	21.4	26.0	9.0	6.0	24.0		17.0		10.0		8		15		13		18		11		15	15	15	13	19	19	14	17	15	17	20	21.7	13.6	17	20	26.1
trans-1,2-Dichloroethene		2.86	1.5	2.0	1.0	ND	2.0		1.0		1.0		ND		1		0.7		0.7		1		0.7	0.9	0.7	0.7	0.7	0.9	0.5	ND	0.6	ND	ND	1.42	ND	0.53	0.67	1.1
1,2-Dichloropropane		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	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	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	ND	ND	ND
1,1-Dichloropropene		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	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	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	ND	ND	ND
Ethylbenzene		0.16	1.66	4.0	4.0	ND	3.0		3.0		3.0		3		2		0.7		1		3		0.8	2	0.6	ND	ND	ND	ND	ND	ND	ND	ND	0.95	ND	ND	ND	ND
2-Hexanone																																						
Hexachlorobutadiene		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	ND	ND	ND
Iodomethane																																						
Isopropylbenzene		0.21	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.88	ND	ND	ND	ND
p-Isopropyltoluene		1.91	ND	ND	ND	ND	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		6.87	<DL	2.0	1.0	2.0	3.0		ND		ND		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		0.40	<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
n-Propylbenzene		0.32	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	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		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	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		0.22	<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
Tetrachloroethene		ND	0.31	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene		0.12	ND	ND	ND	ND	ND		0.6		ND		ND		ND		ND		ND		ND		2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene		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	ND	ND	ND
1,2,4-Trichlorobenzene		ND	3.83	ND	ND	ND	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-Trichloroethane		7.76	ND	2.0	ND	1.0	3.0		2.0		ND		0.6		1		0.9		1		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene		4.80	7.52	14.0	3.0	3.0	3.0		9.0		7.0		5		9		7		6		5		6	8	4	8	4	9	4	5	3	7	3	5.69	2.7	2.8	2.6	4
Trichlorofluoromethane		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene		ND	0.72	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate																																						
Vinyl chloride		ND	25.9	42.0	19.0	8.0	36.0		22.0		12.0		ND		15		15		15		15		13	13	10	8	14	14	8	14	10	10	11	15.6	ND	8	6.4	12.2
o-Xylene		1.47	0.98	ND	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-Xylene & m-Xylene			0.43	2.0	ND				2.0		ND		1.2		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MW-10B
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	9/02	3/03	9/03
PARAMETER METALS (mg/L)																																						
Aluminum					12.6				6.27				1.33				ND				1.44			1.80		2.43		0.13		0.1		0.146		ND		ND		0.71
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	69.3	57.4	61.2
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	4.89	4.25	8.82
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	21.6	19.2	21.3
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	11.2	8.8	10.1
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	3.02	2.87	2.71
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	9.64	8.99	9.91
PARAMETER (mg/l) TOXIC METALS																																						
Antimony					ND				ND				ND				ND				ND			ND		ND		ND		0.05		ND		ND		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		0.016		ND
Barium					0.17				0.25				0.1				ND				0.13			0.124		0.13		0.09		0.09		0.105		0.11		0.105		0.1
Beryllium					ND				ND				ND				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	ND	ND
Chromium (Total)					0.03				0.02				0.02				ND				0.35			0.026		0.03		ND		0.01		0.013		ND		ND		0.01
Copper					0.02				ND				ND				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	0.014	0	0.01	0.003	0.007	0	ND
Mercury					ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND		ND		ND
Nickel					ND				0.04				0.06				ND				0.15			0.055		0.07		0.04		0.05		0.048		0.06		0.046		ND
Selenium		<DL			ND				ND				ND			ND	ND				ND			ND		ND		ND		ND		ND		ND		ND		ND
Silver					ND				ND				0.01				ND				ND			ND		ND		ND		ND		ND		ND		ND		ND
Thallium					ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND		ND		ND
Zinc					0.08				0.04				0.03				ND				ND			ND		0.03		ND		ND		ND		0.03		0.029		0.01
PARAMETER (mg/l) LEACHATE INDICATORS																																						
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	286	276	335
Biochemical Oxygen Demand					3				ND				7				8				15			9		13		17		ND		9		14		4		7
Boron					0.1				ND				0.02				ND				0.07			0.112		0.06		0.08		0.07		0.081		0.08		0.073		0.05
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	38.8	12.8	38
Chromium (Hexavalent)					ND				ND				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	19.9	12.8	12
Color (PCU units)					ND				30				20				40				30			60		20		35		50		20		15		50		ND
Nitrate-Nitrite		<DL	<DL	ND	ND	ND	ND	0.1	1.63	1.1	ND	ND	ND	0.86	ND	ND	0.48	0.76	ND	0.096	0.78	ND	ND	1.56	ND	0.58	ND	0.61	0.62	0.71	ND	1.12	0.1	0.21	ND	0.217	ND	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	1.79	1.17	1.8
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	0.0074	0.009	ND
Sulfate		0.5	4.5	ND	ND	ND	ND	ND	14	11	ND	ND	5	5.7	6.7	6.7	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	5.52	7.27	7.2
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	3.1	2.4	4.2
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	320	309	322
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	262	222	241
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		2.19		3.1
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	36	8.9	140
Cyanide					ND				ND				ND				ND				ND			ND		ND		ND		ND		ND						ND

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

	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	4/19	9/19	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																			
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	1.2	ND	ND	ND	0.78	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	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	ND	ND	1.85	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	-	-	-	-	-	-	-	-	-	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	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	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	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	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	0.00	5.0	
Chlorobenzene	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	ND	ND	0.78	5.0	
Chloroethane	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	ND	ND	0.17	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	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	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	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	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	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	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	0.01	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	-	-	-	0.00	3.0	
1,4-Dichlorobenzene	ND	0.53	0.57	ND	ND	ND	0.31	0.3	ND	0.34	ND	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	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	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	-	-	-	8.4	-	ND	-	-	-	0.87	5.0	
1,1-Dichloroethane	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	11	16	11.5	18.1	15.5	9.5	14.2	11.6	18.00	5.0	
1,2-Dichloroethane	0.5	ND	ND	0.4	ND	ND	0.33	ND	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	0.11	0.6	
1,1-Dichloroethene	ND	ND	0.4	ND	ND	ND	0.31	0.35	ND	0.37	ND	ND	0.24	0.37	ND	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	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	54.9	33.6	27.09	5.0	
trans-1,2-Dichloroethene	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	1.1	ND	ND	ND	ND	ND	1.2	ND	ND	ND	0.61	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	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	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	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	0.54	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	-	-	-	-	-	-	-	-	-	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	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	0.03	5.0	
Methylene chloride	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	ND	ND	0.26	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		
Naphthalene	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	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	-	-	-	-	-	-	-	-	-	0.01	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	ND	ND	ND	ND	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	
1,1,2,2-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	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	5.0	
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	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	5.0	
1,2,3-Trichlorobenzene	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	
1,2,4-Trichlorobenzene	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	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.32	5.0	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	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	
Trichloroethene	4.3	10	7.2	4.9	3	2.2	2.3	1.9	1.4	2.2	1.6	1.5	2.2	1.9	1.8	1.9	ND	ND	2.6	ND	ND	5.5	5.9	ND	ND	2.1	ND	ND	1.8	ND	ND	ND	3.78	5.0	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	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	
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	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	
1,2,4-Trimethylbenzene	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	
1,3,5-Trimethylbenzene	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	
Vinyl acetate				ND	ND	ND	ND	ND	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		
Vinyl chloride	15.9	12	13	8.8	10	9.3	9	8.6	6.7	15	2	3.6	4.9	16	6.5	2.4	10	9.2	9.6	7	8.9	6.8	7.5	ND	ND	ND	4.9	8.8	10.2	ND	12.9	5.1	10.44	2.0	
o-Xylene	ND	ND	ND	ND	ND	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	0.06	5.0	
p-Xylene & m-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.10	5.0	

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

	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	4/19	9/19	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum		3.4		ND		ND		ND	ND		ND			ND	ND			ND	0.03	0	-	ND	ND	-	ND	ND	0.03	ND	-	0.068	ND	-	0.82	
Calcium	71.6	66.7	73.1	66.8	64.2	68.9	63.7	74.9	67.7	69.1	63	71.1	67.5	75.5	75.1	70.7	72	79	66.8	74.7	74	70	74.5	66.4	72.9	83	72.4	77.1	76.4	76.6	88.8	78.8	66.17	
Iron	1.63	6.1	4	ND	0.44	0.61	1.7	0.48	0.24	0.52	0.337	0.268	0.599	3.48	0.5	0.54	2.6	1.6	1.8	1.62	1.04	0.66	1.42	ND	0.294	1.26	0.137	2.43	0.782	0.865	1.9	1.45	6.15	0.3
Magnesium	21.4	21.3	22.6	20.6	19.4	22	20.6	23.1	21.8	21.8	19.9	22.6	21.6	24.5	24.1	23	25	26	23.3	25.4	24.9	23.8	24.4	20.9	20.7	26	22.4	23.9	24.3	23.8	28	24.6	21.59	35.0
Manganese	8.81	9.5	9.7	2.3	4.3	5.4	6.6	10.6	5.7	8.3	5.02	3.06	4.38	11.3	5.9	6.1	9.7	11	9.02	10.5	5.78	6.57	7.54	2.74	3.71	10.8	2.16	9.29	5.87	5.59	8.69	7.21	8.94	0.3
Potassium	2.65	3.4	2.6	2.3	2.2	2.5	2.3	2.4	2.5	2.5	1.76	2.08	2.07	2.42	2.4	2.2	2.3	2.3	2.2	2.5	2.4	2	2.4	2.2	ND	ND	2.59	3.56	2.42	2.41	ND	2.51	2.78	
Sodium	10.6	8.8	9.2	9.7	8.8	9.3	8.6	9.4	9.9	9.5	9.2	9.8	9.4	9	8.9	9.5	8.7	ND	8.7	9.2	8.3	9.1	9.1	9.3	9.29	9.86	8.22	8.83	8.99	9.64	8.7	9.08	9.45	20.0
PARAMETER (mg/l) TOXIC METALS																																		
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		ND		ND		ND	ND		ND			0.013	ND			ND	0.005	-	-	ND	0.005	-	ND	ND	ND	0.012	-	ND	0.007	-	0.01	0.025
Barium		0.16		0.14		0.08		0.093	0.08		0.085			0.094	0.074			ND	0.092	-	-	0.071	0.073	-	ND	ND	0.055	0.087	-	0.066	0.071	-	0.08	1.0
Beryllium		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	0.00	0.005
Chromium (Total)		0.01		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	0.01	0.05
Copper		0.01		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	0.00	0.2
Lead	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	0.002	ND	ND	ND	ND	ND	0.004	ND	0.002	0.004	0.004	ND	ND	ND	0.01	0.025
Mercury		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	6E-05	-	1E-04	ND	-	0.00	0.0007
Nickel		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.005	-	-	0.005	0.005	-	ND	ND	0.004	0.004	-	0.004	0.005	-	0.02	0.1
Selenium		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.006	-	-	ND	0.006	-	ND	ND	ND	ND	-	ND	ND	-	0.00	0.0
Silver		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	0.001	-	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	0.005	-	0.0066	0.0086	-	0.00	0.0005
Zinc		ND		ND		ND		ND	0.01		ND			0.01	0.014			ND	0.004	-	-	0.014	ND	-	ND	ND	0.004	0.007	-	0.009	ND	-	0.01	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																		
Alkalinity	270	274	267	272	280	242	268	349	134	321	314	261	257	340	331	325	290	330	310	330	311	319	303	260	268	315	267	392	269	307	324	302	285.1	
Biochemical Oxygen Demand		ND		ND		ND		4.4	2.7		ND			ND	2.6		5	ND	4.4	-	-	3.5	2.2	2.4	ND	ND	1.2	2.4	ND	7	2.8	1.7	3.9	
Boron		0.07		ND		0.06		0.052	0.07		0.04			0.059	0.057			ND	0.07	-	-	0.05	0.06	-	ND	ND	0.045	0.053	-	0.047	0.046	-	0.0	1.0
Chemical Oxygen Demand	18	19.9	14.1	10.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.9	ND	23	11.4	9.7	ND	ND	11.3	8.4	-	21.3	13	35.2	31.8	29.8	16.8	21.2	15.5	
Chromium (Hexavalent)		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	0.003	-	-	ND	ND	-	0.0	0.05
Chloride	14	12.3	11	16.8	11.7	9.2	10.9	14	10.1	13.9	13	12.6	11.5	11.5	8	11.3	8.75	10.4	8.9	11.5	6.4	8.4	11.2	9.1	8.71	11.7	12.5	10.2	8.0	10.9	7.1	8.5	15.5	250
Color (PCU units)		100		15		5		40	ND		10			0	12.5			5	39	-	-	8	22	-	ND	15	10	-	-	5	ND	-	17.7	15
Nitrate-Nitrite	ND	0.18	ND	1.2	ND	ND	ND	0.12	ND	1.3	ND	ND		ND	ND	1.6	0.056	0.305	ND	ND	ND	ND	ND	1.5	ND	0.054	ND	0.042	ND	ND	ND	ND	0.3	10
Nitrogen-Ammonia	1.1	0.4	1.2	0.86	0.37	0.26	0.65	1	0.52	0.88	0.655	0.235	0.212	0.823	0.44	0.29	1.2	1.64	0.796	0.852	0.357	0.496	0.709	0.2	0.44	1.2	0.19	0.96	0.68	0.32	0.9	0.83	1.1	2.0
Phenols	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	0.004	0.007	0.0096	0.0110	0.0018	0.0040	0.0	0.001
Sulfate	6.1	7.3	6.9	6.1	7.1	7.1	6.6	6.8	4.3	5.4	6.7	7.2	6.91	5.16	7.7	5.8	ND	ND	5.3	5.4	6.2	5.4	5.4	6.2	5.65	6.1	6.2	4.4	5.0	6.1	5.2	7.0	6.4	250
Total Organic Carbon (TOC)	3.2	4.4	3.6	3	2.4	3	3.1	2.7	4.4	5.3	2.7	1.6	1.5	3.6	3.0	1.4	3.9	3.6	4.0	3.6	3.4	3.9	3.0	3.1	1.65	5.2	ND	3.9	12.8	2.9	2.7	2.0	4.9	
Total Dissolved Solids (TDS)	312	331	287	307	282	404	378	325	308	318	286	294	290	308	295	296	410	370	339	332	326	324	311	278	300	342	279	337	335	308	306	326	312.2	500
Total Hardness	267	254	276	252	240	262	244	282	259	262	240	270	260	290	287	271	280	310	263	291	287	273	286	257	250	350	250	300	300	227	280	260	265.6	
Total Kjeldahl Nitrogen (TKN)		1.4		1.3		ND		1.6	ND		ND			1.6	1.4		0.839	1.55	1.25	-	-	0.78	0.88	-	0.32	1	0.36	1.4	0.88	0.53	1.10	1.40	1.5	
Turbidity (NTU units)	23	75.7	109	1.9	1.7	3	6.2	6.9	1.9	4.5	37	8	0	4	0	4.1	3.1	0.1	0.3	3	0	9.4	25.4	3.3	0.8	1.7	1.4	15.6	0.60	2.40	1.50	2.86	109.4	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.
* = 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-11B
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	9/02	3/03	9/03
PARAMETER VOLATILES (ug/L)																																						
Acetone																																						
Acrylonitrile																																						
Benzene	1.45	8.87	0.38		6.0	3.0	2.0								2				3.0				2		3						2		1		2.45	2.1	3.6	2.5
Bromobenzene	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
Bromodichloromethane	ND	ND	ND		ND	ND	ND																															ND
Bromoform	ND	ND	ND		ND	ND	ND																															ND
Bromomethane	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
sec-Butylbenzene	0.16	0.23	<DL		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND	ND	ND	ND
tert-Butylbenzene	ND	0.20	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
Chlorobenzene	0.14	0.20	<DL		ND	ND	1.0								ND				0.6				ND		ND						1		ND		1.26	ND	5.4	2.4
Chloroethane	ND	ND	ND		6.0	ND	ND								3				1.0				1		0.9						ND		ND		ND	ND	0.74	ND
Chloroform	ND	<DL	ND		ND	ND	ND																															ND
Chloromethane	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
4-Chlorotoluene	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																															ND
1,2-Dibromoethane	ND	ND	ND		ND	ND	ND																															ND
Dibromomethane	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND	ND	ND	ND
1,2-Dichlorobenzene	ND	<DL	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND	ND	0.88	ND
1,3-Dichlorobenzene	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND	ND	ND	ND
1,4-Dichlorobenzene	ND	0.23	ND		ND	ND	ND								ND				1.0				ND		ND						ND		ND		ND	ND	1.7	ND
trans-1,4-Dichloro-2-butene																																						
Dichlorodifluoromethane	ND	ND	ND		ND	ND	ND								ND				2.0				0.7 J		1						ND		0.7		ND	ND	ND	ND
1,1-Dichloroethane	6.25	7.33	5.16		16.0	2.0	5.0								2				4.0				3		2						3		2		2.18	2.1	6.2	4.4
1,2-Dichloroethane	0.16	<DL	ND		1.0	ND	ND								ND				ND				ND		ND						ND		ND		ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	19.7	10.6		30.0	8.0	12.0								7				12.0				8		6						9		5		5.9	3.8	9.9	9.7
trans-1,2-Dichloroethene	14.3	0.74	0.41		28.0	ND	ND								ND				ND				ND		ND						ND		ND		ND	ND	0.55	ND
1,2-Dichloropropane	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
2,2-Dichloropropane	ND	ND	ND		ND	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		ND	ND	ND	ND
cis-1-3-Dichloropropene	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
Ethylbenzene	0.16	0.25	0.13		ND	ND	2.0								ND				1.0				ND		ND						ND		ND		1.06	ND	1.2	ND
2-Hexanone																																						
Hexachlorobutadiene	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND	ND	ND	ND
Iodomethane																																						
Isopropylbenzene	0.52	0.99	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		1.02	ND	0.5	ND
p-Isopropyltoluene	ND	0.20	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND	ND	ND	ND
Methylene chloride	1.76	6.00	ND		3.0	3.0	ND								ND				ND				ND		ND						ND		ND		ND	ND	ND	ND
4-Methyl-2-pentanone																																						
Naphthalene	0.52	0.17	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND	ND	1.2	ND
n-Propylbenzene	ND	ND	ND		ND	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		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
1,1,2,2-Tetrachloroethane	ND	1.90	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND	ND	ND	ND
Tetrachloroethene	1.48	ND	0.79		ND	ND	ND								0.6				ND				ND		ND						ND		ND		ND	ND	ND	ND
Toluene	<DL	0.35	ND		ND	ND	ND								ND				ND				0.8		ND						ND		ND		ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND		ND	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		ND	ND	ND	ND
1,1,1-Trichloroethane	ND	1.22	0.43		ND	ND	ND								ND				ND				ND		ND						1		ND		ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	<DL		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND	ND	ND	ND
Trichloroethene	3.53	4.75	2.0		2.0	2.0	4.0								2				4.0				3		3						3		2		2.85	1.2	2.6	2.9
Trichlorofluoromethane	ND	ND	ND		ND	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		ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.20	ND	ND		ND	ND	2.0								ND				ND				ND		ND						ND		ND		ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.120	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND	ND	ND	ND
Vinyl acetate																																						
Vinyl chloride	ND	ND	ND		11.0	ND	7.0								3				4.0				2		2						3		1		ND	ND	1.5	3.1
o-Xylene	0.070	0.36	ND		ND										ND				ND				ND		ND						ND		ND		0.92	ND	ND	ND
p-Xylene & m-Xylene			ND		ND										ND				ND				ND		ND						ND		ND		1.78	ND	ND	ND

MW-11B
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	9/02	3/03	9/03
PARAMETER METALS (mg/L)																																						
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			23.6				31.5		19.7						29.7				36.7		40.8	
Iron	26.9	11.7	26.5		25.1	13.1	18.2			13.1				22.7	12.7	39.3			11.1				47.6		17.2						26.5				19.3		28.1	
Magnesium	7.6	4.5	8.1		14.8	4	9.8			4.61				9.5	3.87	8.09			6.5				7.93		5.45						9.34				14		15.9	
Manganese	6.99	6.5	7.71		17.1	5.42	7.44			4.56				8.5	4.45	5.27			6.5				8.69		7.80						11.9				10.8		11.2	
Potassium	3.3	1.1	4		4.1	1.6	3.1			3.46				4.04	2.04	9.5			3.2				4.62		1.84						3.19				3.08		4.1	
Sodium	1.3	1.4	3.3		8.8	3.3	7.5			1.58				6.38	1.67	3.02			2.8				3.59		2.05						3.99				7.24		8.7	
PARAMETER (mg/l) TOXIC METALS																																						
Antimony	ND				ND																																	
Arsenic	ND				0.041																																	
Barium	0.23				0.52																																	
Beryllium					ND																																	
Cadmium		<DL	<DL		ND	ND	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		0.003	
Mercury	ND				ND																																	
Nickel	0.62				0.05																																	
Selenium	0.021	ND	0.077		ND	ND	ND			ND				0.007	ND	ND			ND				ND		ND						ND				ND		ND	
Silver	ND				ND																																	
Thallium	ND				ND																																	
Zinc	0.04				0.12																																	
PARAMETER (mg/l) LEACHATE INDICATORS																																						
Alkalinity	95	95	117			84.0	135.0			44.4				128	45.4				91.3						78.8						145				192		205	
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				23.4						ND						48.4				33.2		28.8	298
Chromium (Hexavalent)	<DL				ND																																	
Chloride	<DL	6	7			ND	4.0			ND				10.1	ND				2.3						ND						3.92				10.3		12.7	
Color (PCU units)	55.0																																					
Nitrate-Nitrite	<DL	<DL	<DL		ND	ND	ND			1.3				0.338	ND				ND						ND						ND				0.176		ND	0.04
Nitrogen-Ammonia	1.0	<DL	<DL		1.6	0.6	2.2			0.4				1.01	ND				0.8						0.390						0.56				4.12		3.55	0.8
Phenols	0.002	ND	<DL			ND	ND			0.010				0.019	0.013				ND						0.001						0.0138				0.0225		0.0157	
Sulfate	11	16.3	19.9			21.0	12.0			12.0				8.7	8				6.0						6.1						12				8.77		5.9	
Total Organic Carbon (TOC)	8	8	5		10.0	3.0	6.0			5.0				6.7	5.4				6.4						5.8						6.6				4.3		6.1	17
Total Dissolved Solids (TDS)	132.0	110	118			139	153.0			60.0				183	85				112						75						153				216		262	
Total Hardness	89.5	60.7	96			51.0	104.0			54.0				187	99				85.6						71.6						113				149		167	
Total Kjeldahl Nitrogen (TKN)	1.9				2.1																																	14
Turbidity (NTU units)	55	243	182			32.0	94.0			76.0				100	500				70.0						45						33				9.7		24	
Cyanide	<DL																																					

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

	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	4/19	9/19	MEAN	NYS STD
PARAMETER VOLATILES (ug/L)																																		
Acetone				11	5	6	ND	16	4	14			5.5	5.5	3.4	ND	ND		2.3	ND	ND	1.7	ND	ND	ND	ND	ND	-	3.8	ND	ND	ND	3.01	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	2	3	2.2	2.6	3.8	3.8	2.5	1.6	2.2	0.4			1.4	0.79	3.6	1.2	ND		1.1	ND	ND	1.4	0.67	ND	ND	ND	ND	-	4.4	ND	ND	ND	1.87	1.0
Bromobenzene	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	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	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	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	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	-	-	-	-	-	-	-	-	-	0.00	5.0
sec-Butylbenzene	ND	ND	ND	ND	ND	0.28	ND	ND	0.32	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.02	5.0
tert-Butylbenzene	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	0.00	-
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	0.00	5.0
Chlorobenzene	ND	2.7	0.67	0.59	6.4	5.1	2.1	0.46	0.81	ND			1.6	0.34	5.8	0.58	ND		0.71	ND	6.6	1.4	0.53	ND	ND	ND	ND	-	10.9	ND	5.8	ND	1.45	5.0
Chloroethane	ND	1	0.95	0.8	0.94	0.86	0.64	0.36	0.45	0.44			0.5	0.27	1.1	ND	ND		0.5	ND	ND	0.34	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	0.48	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	0.00	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	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	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	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	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	0.00	5.0
1,2-Dichlorobenzene	ND	0.43	ND	ND	1.5	0.94	0.36	ND	ND	ND			0.29	ND	0.99	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	1.6	ND	ND	ND	0.16	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	1	ND	ND	2.2	1.5	0.71	ND	ND	ND			0.55	ND	1.6	ND	ND		0.25	ND	ND	0.26	ND	ND	ND	ND	ND	-	2.4	ND	ND	ND	0.30	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	0.00	5.0
Dichlorodifluoromethane	ND	1.5	0.71	0.72	0.8	ND	0.84	0.5	0.65	ND			0.55	0.6	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	8.6	-	ND	-	-	-	0.43	5.0
1,1-Dichloroethane	1.5	5.4	1.2	2.9	5.9	5.3	3.1	0.97	1	1			4	1.5	16	0.41	ND		1.1	ND	15	0.57	0.67	ND	ND	ND	ND	-	8.4	ND	7.7	ND	3.47	5.0
1,2-Dichloroethane	ND	ND	ND	ND	0.58	0.5	ND	ND	ND	ND			ND	ND	0.64	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	0.06	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	0.00	5.0
cis-1,2-Dichloroethene	4.1	14	3.8	8.4	8.7	8.7	6.2	2.9	2.9	1.3			5.5	2.6	16	1.4	ND		2.8	ND	ND	2.1	1.8	ND	ND	6.4	ND	-	14	ND	14.7	5.2	6.45	5.0
trans-1,2-Dichloroethene	ND	0.54	ND	ND	0.51	0.45	0.35	ND	ND	ND			0.22	ND	0.83	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	1.04	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	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	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	0.00	0.4 *
Ethylbenzene	ND	0.6	ND	ND	1.9	0.95	0.44	ND	ND	ND			ND	ND	1.3	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	0.24	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	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	-	-	-	-	-	-	-	-	-	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	0.00	5.0
Isopropylbenzene	ND	0.48	0.43	0.42	0.62	0.53	0.4	0.35	0.48	ND			ND	ND	0.48	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.16	5.0
p-Isopropyltoluene	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	0.21	ND	ND	ND	ND	ND	ND			ND	ND	0.77	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	0.33	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	0.00	
Naphthalene	ND	0.42	ND	ND	1	0.5	ND	ND	ND	ND			ND	ND	0.41	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.09	10.0 **
n-Propylbenzene	ND	ND	ND	ND	0.46	0.24	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.02	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	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	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	ND	ND	ND	-	ND	ND	ND	ND	0.04	5.0
Tetrachloroethene	ND	ND	ND	ND	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
Toluene	ND	ND	ND	ND	ND	0.22	ND	ND	ND	ND			ND	0.43	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	0.04	5.0
1,2,3-Trichlorobenzene	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
1,2,4-Trichlorobenzene	ND	0.81	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.02	5.0
1,1,1-Trichloroethane	ND	ND	ND	ND	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
1,1,2-Trichloroethane	ND	ND	ND	ND	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
Trichloroethene	1.9	3.9	1.9	1.6	2.2	2.1	2.2	1.1	1.2	0.54			1.5	0.73	2.9	1.1	ND		1.2	ND	ND	1.1	0.78	ND	ND	ND	ND	-	2.0	ND	ND	ND	1.66	5.0
Trichlorofluoromethane	ND	ND	ND	ND	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
1,2,3-Trichloropropane	ND	ND	ND	ND	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
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.05	5.0
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.00	5.0
Vinyl acetate				ND	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	
Vinyl chloride	1.9	4.6	1.3	1.4	3.6	3	1.9	0.37	0.7	0.3			0.98	0.66	6.8	ND	ND		0.9	ND	5.6	0.48	ND	ND	ND	ND	1.4	-	8.1	ND	8.2	2.1	2.04	2.0
o-Xylene	ND	ND	ND	ND	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-Xylene & m-Xylene	ND	ND	ND	ND	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	5.0

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

	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	4/19	9/19	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum		3.2				ND			ND						ND				0.06	0	-	0.07	-	-	-	-	0.0369	-	-	-	0.181	-	0.55	
Calcium	21.5	46.2	23.2		57.6	55.5	34.4		26.9						70.2	15.6	45		18.5	14.9	55.6	13.6	-	18.8	-	-	19	-	62.4	-	64	-	25.94	
Iron	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	-	-	5.9	-	2.98	-	36.8	-	15.44	0.3
Magnesium	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	-	23.6	-	9.19	35.0
Manganese	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	-	19.6	-	8.23	0.3
Potassium	2.21	4.3	1.7		4.2	4.6	2.6		1.6						4.8	1.6	2.3		1.3	ND	3	1.1	-	ND	-	-	2.12	-	2.82	-	4.56	-	2.46	
Sodium	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	-	9.31	-	3.94	20.0
PARAMETER (mg/l) TOXIC METALS																																		
Antimony		ND				ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	ND	-	0.00	0.003
Arsenic		0.022				0.016			0.021						ND				0.01	-	-	0.014	-	-	-	-	0.0069	-	-	-	0.0526	-	0.01	0.025
Barium		0.37				0.4			0.18						0.48				0.206	-	-	0.149	-	-	-	-	0.158	-	-	-	0.557	-	0.16	1.0
Beryllium		ND				ND			ND						ND				0.0003	-	-	ND	-	-	-	-	ND	-	-	-	ND	-	0.00	
Cadmium	ND	ND	ND		ND	ND	ND		ND						ND	ND	ND		ND	ND	ND	ND	-	ND	-	-	ND	-	ND	-	ND	-	0.00	0.005
Chromium (Total)		0.013				ND			ND						ND				0.002	-	-	0.003	-	-	-	-	0.003	-	-	-	ND	-	0.00	0.05
Copper		ND				ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	ND	-	0.00	0.2
Lead	ND	ND	ND		ND	ND	ND		ND						0.006	ND	0.001		0.001	ND	ND	ND	-	ND	-	-	0.0017	-	0.0034	-	0.0043	-	0.00	0.025
Mercury		ND				ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	ND	-	0.00	0.0007
Nickel		0.025				ND			ND						ND				0.013	-	-	0.013	-	-	-	-	0.0106	-	-	-	0.017	-	0.04	0.1
Selenium	ND	ND	ND		ND	ND	ND		ND						ND				0.007	-	-	ND	-	-	-	-	ND	-	-	-	ND	-	0.00	0.0
Silver		ND				ND			ND						ND				ND	-	-	0.001	-	-	-	-	ND	-	-	-	0.0026	-	0.00	0.05
Thallium		ND				ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	0.017	-	0.00	0.0005
Zinc		0.022				0.027			0.065						0.02				0.035	-	-	0.046	-	-	-	-	0.977	-	-	-	2.76	-	0.21	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																		
Alkalinity	90	175	67.1		229	218	150		62.5						374		210		-	-	299	-	-	80.8	-	-	179	-	264	-	324	-	112.9	
Biochemical Oxygen Demand		ND				4.9			4.5						12.2		11		-	-	-	-	-	4.1	-	-	9.6	-	7.6	ND	3.7	-	3.8	
Boron		0.066				0.091			0.024						0.1				ND	-	-	-	-	-	-	-	0.0125	-	-	-	0.0775	-	0.0	1.0
Chemical Oxygen Demand	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	-	38.9	-	28.7	
Chromium (Hexavalent)		ND				ND			ND						ND				ND	-	-	-	-	-	-	-	ND	-	-	-	ND	-	0.0	0.05
Chloride	2.2	12.2	1.8		14.1	17.8	5.3		3.8				4.88		16.8	ND	9.48		ND	-	10.5	-	-	ND	-	-	6.4	-	10.8	48.8	12.8	-	6.0	250
Color (PCU units)		60				80			60						200				-	-	-	-	-	-	-	-	10	-	-	-	150	-	32.4	15
Nitrate-Nitrite	ND	ND	ND		ND	ND	ND		ND						ND		ND		ND	-	ND	-	-	ND	-	ND	0.046	-	ND	-	ND	-	0.0	10
Nitrogen-Ammonia	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	-	4.4	-	1.2	2.0
Phenols	ND	0.028	ND		0.01	0.01	ND		ND				ND		ND				ND	-	0.0073	-	-	ND	-	-	0.0099	-	0.0172	-	0.0105	-	0.0	0.001
Sulfate	5.8	4.6	5.9		4.1	3.2	5.1		5.2				5.15		6.7	4.1	ND		2.5	-	4.3	-	-	3.3	-	-	3.3	-	2.5	2.5	ND	-	5.5	250
Total Organic Carbon (TOC)	4	62.9	5	4.1	6.2	6.8	4.6	10.8	3				3.4		9	1.4			7.1	-	8.9	-	-	4.6	-	5.7	3.1	14.6	20	5	8.7	8.4	7.4	
Total Dissolved Solids (TDS)	125	283	99		304	402	174		190						388		280		115	-	320	-	-	96	-	-	170	-	315	87	354	-	148.6	500
Total Hardness	81	182	85.9		229	236	137		99.3						310	58.6	180		70.6	57.1	227	-	-	68.5	-	-	88	-	290	-	250	-	104.7	
Total Kjeldahl Nitrogen (TKN)		4.3				3.9			1.1						2.2		2.09		0.85	-	-	-	-	-	-	1.1	3.8	-	5.7	-	5.3	-	2.2	
Turbidity (NTU units)	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	32.5	27.5	-	59.9	5.0
Cyanide		ND				ND			ND						ND				-	-	-	-	-	-	-	-	ND	-	-	-	0.002	-	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-12A
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	9/02	3/03	9/03
PARAMETER VOLATILES (ug/L)																																						
Acetone																																						
Acrylonitrile																																						
Benzene	0.21	2.14	1.59	5.0	2.0	4.0	2.0		19.0		0.8		4		0.8		2		2				1		2				2	1	2		1		4.76		2.1	5
Bromobenzene	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
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																									ND
Bromoform	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
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
sec-Butylbenzene	0.17	0.10	0.23	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND		ND	ND
tert-Butylbenzene	ND	0.29	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
Chlorobenzene	0.14	0.51	0.29	ND	ND	ND	ND		0.8		ND		0.7		ND		ND		ND				ND		ND				ND	ND	ND		ND		2.05		0.57	1.7
Chloroethane	ND	ND	3.41	5.0	2.0	5.0	ND		ND		ND		2		ND		1		ND				ND		ND				ND	ND	ND		ND		ND		0.54	ND
Chloroform	ND	1.34	ND	ND	ND	ND	ND		ND		ND		ND																									ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND		8.0		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
4-Chlorotoluene	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
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND		ND																													ND
1,2-Dibromoethane	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
1,2-Dichlorobenzene	ND	<DL	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		1				ND		ND				ND	ND	ND		ND		ND		ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		4		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND		ND	ND
1,4-Dichlorobenzene	4.99	7.20	2.59	5.0	4.0	3.0	1.0		2.0		0.7		ND		0.8		3		5				0.9		0.6				1	2	1		0.8		1.94		0.77	1.5
trans-1,4-Dichloro-2-butene																																						
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND		2.0		ND		ND		ND		ND		1				ND		ND				ND	ND	ND		0.6		ND		ND	ND
1,1-Dichloroethane	2.13	1.85	1.75	2.0	ND	3.0	2.0		5.0		2.0		2		1		5		ND				2		2				2	2	2		1		1.69		ND	0.8
1,2-Dichloroethane	0.33	0.31	0.12	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	ND	ND	ND		ND		ND		ND		ND		ND		3				ND		ND				ND	ND	ND		ND		ND		1.1	ND
cis-1,2-Dichloroethene	<DL	9.28	3.51	4.0	3.0	4.0	1.0		16.0		0.9		2		0.7		8		6				2		3				6	4	4		3		4.91		3.1	5.2
trans-1,2-Dichloroethene	6.88	0.51	0.86	1.0	ND	ND	ND		1.0		ND		0.8		ND		0.6		ND				ND		0.5				ND	ND	ND		ND		ND		ND	ND
1,2-Dichloropropane	ND	ND	<DL	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
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
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
cis-1-3-Dichloropropene	ND	ND	<DL	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		3.0		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND		ND	ND
Ethylbenzene	0.27	0.90	0.24	2.0	ND	2.0	ND		1.0		ND		1		ND		0.6		0.5				ND		0.8				ND	ND	ND		ND		1.92		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
Iodomethane																																						
Isopropylbenzene	<DL	4.52	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		1.04		ND	ND
p-Isopropyltoluene	ND	0.34	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		2				ND		ND				ND	ND	ND		ND		ND		ND	ND
Methylene chloride	<DL	0.12	ND	3.0	2.0	2.0	2.0		1.0		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND		ND	ND
4-Methyl-2-pentanone																																						
Naphthalene	0.06	ND	ND	ND	ND	ND	ND		1.0		ND		ND		ND		ND		7				ND		ND				ND	ND	ND		ND		ND		ND	ND
n-Propylbenzene	ND	0.10	ND	ND	ND	ND	ND		ND		ND		ND		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		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
1,1,2,2-Tetrachloroethane	ND	<DL	0.15	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND		ND	ND
Tetrachloroethene	0.35	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND		ND	ND
Toluene	ND	<DL	ND	ND	ND	1.0	ND		0.8		ND		1*		ND		0.9		ND				3		ND				ND	ND	ND		ND		1.73		ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND		ND	ND
1,2,4-Trichlorobenzene	ND	ND	<DL	ND	ND	ND	ND		ND		ND		ND		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		ND		ND				ND		ND				ND	ND	ND		ND		ND		ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND		ND	ND
Trichloroethene	0.81	<DL	<DL	ND	1.0	ND	ND		1.0		ND		ND		ND		0.6		ND				ND		ND				ND	ND	ND		ND		1.2		ND	0.9
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND		ND	ND
1,2,3-Trichloropropane	ND	ND	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND		ND	ND
1,2,4-Trimethylbenzene	<DL	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		33				ND		ND				ND	ND	ND		ND		ND		ND	ND
1,3,5-Trimethylbenzene	0.09	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		6				ND		ND				ND	ND	ND		ND		ND		ND	ND
Vinyl acetate																																						
Vinyl chloride	ND	ND	0.80	ND	ND	ND	ND		23.0		ND		1		ND		3		4				2		3				2	3	3		2		ND		0.98	3.9
o-Xylene	0.16	0.32	0.56		ND										ND		ND		ND				ND		ND				ND	ND	ND		ND		1.25		ND	ND
p-Xylene & m-Xylene				ND	ND				1.1		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		2.56		ND	ND

MW-12A
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	9/02	3/03	9/03
PARAMETER METALS (mg/L)																																						
Aluminum	0.15				0.3				0.09				1.39				1.84																						0.11
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		86.4	70.4
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		26.3	30.9
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	11.8	11.4	10.5	8.39	12.4		10.3	13.7		11.6				10.9		11.8		10.7		11.9		10.7	9.32
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		8.21	9.49
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		2.54	3.53
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		5.7	5.85
PARAMETER (mg/l) TOXIC METALS																																						
Antimony	ND				ND				0.05				ND				0.04																						ND
Arsenic	<DL				0.050				0.031				0.042				0.038																						ND
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		1.52	1.92
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				ND		ND		ND		ND		ND	ND
Chromium (Total)	<DL				0.01				ND				0.02				0.02																						ND
Copper	ND				ND				ND				ND				0.01																						ND
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		ND	ND
Mercury	ND				ND				ND				ND				ND																						ND
Nickel	0.05				ND				ND				0.04				0.64																						ND
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	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	ND
Thallium	0.1				ND				ND				ND				ND																						ND
Zinc	<DL				0.05				0.06				0.06				0.08																						ND
PARAMETER (mg/l) LEACHATE INDICATORS																																						
Alkalinity	309	259	278	299	420	326	449	236	366	316	297			357	332	344		424	321			384	322		355				423		400		355		353		319	410
Biochemical Oxygen Demand	55.0				4				15.0																													11
Boron	ND				0.12				0.02				0.08				ND																						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		26.5	38
Chromium (Hexavalent)	<DL				ND				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		4.41	5.1
Color (PCU units)	55.0				ND				125																														20
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
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		ND				4.47		2.54	4.1
Phenols	0.003	ND	0.014	ND	ND	ND	ND	ND	ND	ND	ND		0.008	0.005	0.009	ND		0.070	ND			0.025	0.007		0.013				0.001		0.01				0.0203		0.004	ND
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		5.8	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		3.4	7.8
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		383	298
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		260	214
Total Kjeldahl Nitrogen (TKN)	3.2				4.1				2.14				4.2																									8.4
Turbidity (NTU units)	36	900	270	340	231	17.0	45	182	110	40	140			110	15	21		78	78			200	90		30				60		32				46		53	38
Cyanide	<DL				ND				ND																														ND

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

	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	4/19	9/19	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																			
Acetone				18	19	8.4	12	13	5.9	29	21	11	20		6.4	32	19		6.4	-	ND	11	-	ND	-	-	12.8	48.3	20.2	7.6	ND	-	11.89	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	-	0.00	5.0	
Benzene	2.6	7	4.6	7.1	6.3	13	6.3	4	7	4.1	1.6	1.5	4.5		7.7	7.8	6.2		6.3	-	7.1	5.1	-	6.6	-	-	7.2	ND	5.7	5.2	ND	-	3.86	1.0	
Bromobenzene	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	-	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	-	0.00	5.0	
2-Butanone				ND	ND	1.2	ND	1.4	ND	3.6	1.2	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	0.27	50.0	
n-Butylbenzene	ND	ND	ND	ND	ND	0.22	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	-	-	-	-	-	0.00	5.0	
sec-Butylbenzene	ND	0.37	ND	ND	ND	0.54	ND	ND	0.28	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	-	-	-	-	-	0.03	5.0	
tert-Butylbenzene	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	0.49	ND	0.28	0.66	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	0.05	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	-	0.00	5.0	
Chlorobenzene	0.8	2.5	1.4	3.8	4	13	3.9	2.5	6.4	3	1.1	1.1	2.8		7.4	6.7	5.1		5.6	-	6.2	4.3	-	8.7	-	-	11.2	ND	6.1	8.1	ND	-	2.36	5.0	
Chloroethane	ND	2.3	1.2	1	0.94	1.1	0.66	0.48	0.66	0.65	0.61	ND	0.53		0.55	0.44	ND		0.74	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	0.59	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	-	0.03	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	-	0.15	5.0	
2-Chlorotoluene	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	-	-	-	-	-	-	-	-	-	-	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	-	0.00	5.0	
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	0.57	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		0.29	-	ND	0.21	-	ND	-	-	ND	ND	ND	ND	ND	-	0.04	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	-	-	-	0.08	3.0	
1,4-Dichlorobenzene	ND	2	0.9	1.9	2.1	5.1	1.8	2.9	3.3	4.4	3.1	0.88	2.3		2.4	2.9	ND		2.3	-	ND	ND	-	ND	-	-	ND	ND	2.6	ND	ND	-	1.74	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	-	0.00	5.0	
Dichlorodifluoromethane	ND	1.2	1	1	1.1	ND	0.98	0.98	1.2	ND	0.86	ND	0.82		ND	ND	ND		ND	-	ND	ND	-	-	-	-	18.6	-	ND	-	-	-	0.60	5.0	
1,1-Dichloroethane	0.9	0.86	1.1	1.4	1.2	0.98	1.1	2.6	0.95	1.8	0.47	ND	0.84		1	0.68	ND		0.8	-	ND	0.52	-	ND	-	-	ND	ND	ND	ND	ND	-	1.12	5.0	
1,2-Dichloroethane	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	-	0.02	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	-	0.08	5.0	
cis-1,2-Dichloroethene	3.3	7.2	4.3	5	4.6	5.4	4.5	3.1	4.4	3.6	1.9	1	4		4.3	3.7	ND		4	-	ND	3.2	-	ND	-	-	ND	ND	3.6	ND	ND	-	3.17	5.0	
trans-1,2-Dichloroethene	ND	0.46	0.46	0.59	0.44	0.43	0.54	0.92	0.37	0.7	ND	ND	0.33		ND	ND	ND		0.4	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	0.34	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	-	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	-	-	-	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	-	-	-	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	-	-	-	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	-	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	-	0.06	0.4	*
Ethylbenzene	ND	0.57	ND	1.2	3	10	1.3	0.67	4.4	0.28	ND	ND	ND		5.1	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	0.73	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	-	0.00	50.0	
Hexachlorobutadiene	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	-	0.00	5.0	
Isopropylbenzene	ND	1.3	0.47	0.79	0.48	1.6	0.61	0.51	0.76	0.42	ND	ND	0.54		0.82	0.86	ND		ND	-	ND	ND	-	-	-	-	-	-	-	-	-	-	0.28	5.0	
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	-	-	-	-	-	0.05	5.0	
Methylene chloride	ND	ND	ND	0.37	0.28	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	0.21	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	-	0.00		
Naphthalene	ND	ND	ND	ND	0.41	1.6	ND	ND	0.48	ND	ND	ND	ND		1.1	ND	ND		ND	-	ND	ND	-	-	-	-	-	-	-	-	-	-	0.22	10.0	**
n-Propylbenzene	ND	ND	ND	ND	ND	1.1	0.29	ND	0.49	ND	ND	ND	ND		0.59	ND	ND		ND	-	ND	ND	-	-	-	-	-	-	-	-	-	-	0.05	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	-	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	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	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	ND	ND	ND	ND	-	0.01	5.0	
Toluene	ND	0.74	ND	2.2	0.34	1.3	ND	0.46	0.47	0.25	ND	ND	ND		0.48	ND	ND		0.38	-	ND	0.4	-	ND	-	-	ND	ND	ND	ND	ND	-	0.28	5.0	
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	-	-	-	-	-	-	0.00	5.0	
1,2,4-Trichlorobenzene	ND	0.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	-	-	-	-	-	0.01	5.0	
1,1,1-Trichloroethane	ND	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	
1,1,2-Trichloroethane	ND	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	
Trichloroethene	0.5	0.93	0.64	0.7	0.61	ND	0.67	ND	0.69	0.32	0.36	ND	0.37		0.61	0.5	ND		0.51	-	ND	0.26	-	ND	-	-	ND	ND	ND	ND	ND	-	0.25	5.0	
Trichlorofluoromethane	ND	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	
1,2,3-Trichloropropane	ND	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	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	0.42	0.82	ND	ND	0.67	ND	ND	ND	ND		3.6	ND	ND		ND	-	ND	ND	-	-	-	-	-	-	-	-	-	-	0.74	5.0	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.45	ND	ND		ND	-	ND	ND	-	-	-	-	-	-	-	-	-	-	0.13	5.0	
Vinyl acetate				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	0.00		
Vinyl chloride	3.1	3.9	2.9	2.5	3.2	2.6	2.3	1.9	2.7	2.5	0.78	0.21	1.5		2.5	1.5	ND		3.1	-	ND	1.5	-	ND	-	-	2.9	ND	1.7	ND	ND	-	1.83	2.0	
o-Xylene	ND	ND	ND	ND	0.4	ND	ND	ND	0.41	ND	ND	ND	ND		0.58	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	0.08	5.0	
p-Xylene & m-Xylene	ND	ND	ND	ND	1.7	ND	0.22	0.17	2.6	ND	ND	ND	ND		6.9	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	ND	1.2	ND	ND	-	0.35	5.0	

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

	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	4/19	9/19	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum		ND		ND		ND			ND						ND				ND	-	-	ND	-	-	-	-	0.016	-	-	-	ND	-	0.16	
Calcium	114	108	94.8	88	114	91	89.2		106						109	72.9			80.1	-	90.3	102	-	77.9	-	-	112	-	118	-	96.1	-	80.11	
Iron	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	-	35.1	-	23.73	0.3
Magnesium	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	-	14.1	-	10.40	35.0
Manganese	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	-	14.5	-	8.32	0.3
Potassium	2.18	4.3	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	-	4.39	-	2.93	
Sodium	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	-	6.56	-	8.74	20.0
PARAMETER (mg/l) TOXIC METALS																																		
Antimony		ND		ND		ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	ND	-	0.00	0.003
Arsenic		0.06		0.07		0.06			0.03						0.047				0.042	-	-	0.068	-	-	-	-	0.056	-	-	-	0.0263	-	0.02	0.025
Barium		2	1.8	1.9	1.7	2.2			1.9						1.9				1.77	-	-	1.59	-	-	-	-	1.78	-	-	-	1.64	-	1.26	1.0
Beryllium		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	-	-	6E-04	-	ND	-	ND	-	0.00	0.005
Chromium (Total)	ND	ND		ND		ND			ND						ND				0.003	-	-	0.003	-	-	-	-	0.022	-	-	-	ND	-	0.00	0.05
Copper		ND		ND		ND			ND						ND				ND	-	-	ND	-	-	-	-	0.004	-	-	-	ND	-	0.00	0.2
Lead	ND	ND	ND	ND	ND	ND	ND		ND						ND	ND			0.001	-	ND	ND	-	ND	-	-	0.003	-	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	-	-	-	0.004	-	0.03	0.1
Selenium	ND	ND	ND	ND	ND	ND	ND		ND						ND				0.009	-	-	0.004	-	-	-	-	ND	-	-	-	ND	-	0.00	0.0
Silver	ND	ND	ND	ND	ND	ND	ND		ND						ND				0.003	-	-	0.003	-	-	-	-	ND	-	-	-	0.002	-	0.00	0.05
Thallium		ND		ND		ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	0.011	-	0.00	0.0005
Zinc		ND		ND		ND			0.2						0.012				0.004	-	-	0.01	-	-	-	-	0.024	-	-	-	ND	-	0.02	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																		
Alkalinity	350	42.9	211	430	407	242	206		191				185		467	252	320		349	-	377	-	-	315	-	-	380	-	-	-	339	-	269.0	
Biochemical Oxygen Demand		15.9		4.7		8.9			4.5						8.6		16		-	-	-	-	-	7.9	-	-	9.6	-	8.1	14.4	4.5	-	7.8	
Boron		0.09		0.09		0.12			0.1						0.11				0.11	-	-	0.07	-	-	-	-	0.118	-	-	-	0.079	-	0.0	1.0
Chemical Oxygen Demand	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	-	49.9	-	28.7	
Chromium (Hexavalent)		ND		ND		ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	ND	-	0.0	0.05
Chloride	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	4.6	-	6.8	250
Color (PCU units)		140		140		200			120						200				-	-	-	-	-	-	-	-	25	-	-	-	200	-	53.3	15
Nitrate-Nitrite	ND	ND	ND	0.07	ND	ND	ND		ND						ND	ND	ND		ND	-	ND	ND	-	ND	-	-	0.065	-	0.097	-	ND	-	0.5	10
Nitrogen-Ammonia	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	-	6.0	-	2.8	2.0
Phenols	ND	0.02	ND	ND	ND	ND	0.01		ND				ND		ND	0.014	ND		0.015	-	-	-	-	0.036	-	-	0.042	-	0.0253	-	0.0136	-	0.0	0.001
Sulfate	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	ND	-	2.4	250
Total Organic Carbon (TOC)	8.2	29.5	6.1	12.1	6.3	11.7	8.8	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	9.7	-	9.2	
Total Dissolved Solids (TDS)	402	330	345	413	446	484	378		390						449	344	440		395	-	375	392	-	349	-	-	426	-	436	394	340	-	328.1	500
Total Hardness	341	319	288	268	343	277	274		328						345	228			255	-	286	314	-	259	-	-	340	-	410	-	300	-	250.1	
Total Kjeldahl Nitrogen (TKN)		5		6.3		6.5			5.2						2.4		3.52		7.11	-	-	6.91	-	-	-	-	8.2	-	8.9	-	6.5	-	3.4	
Turbidity (NTU units)	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	22.4	-	83.3	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. J = Estimated.
<DL = Detected below method detection limit. 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	9/02	3/03	9/03
PARAMETER VOLATILES (ug/L)																																						
Acetone																																						
Acrylonitrile																																						
Benzene	11.6	19.6	23.8	28.0	5.0	14.0	18.0		64.0		13.0		25		18		16		20		20		22	15	11	18	20	16	19	13	19	11	13		14.8	13	13	17.9
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
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
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																									ND
Bromoform	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	ND		ND	ND	ND	ND
2-Butanone																																						
n-Butylbenzene	ND	ND	1.98	ND	ND	ND	ND		ND		ND		ND		0.7		ND		ND		ND		ND	ND	ND	ND	ND	1	0.8	ND	1	ND	0.5		ND	ND	ND	ND
sec-Butylbenzene	8.4	20.9	16.2	ND	3.0	ND	ND		0.6		ND		ND		ND		ND		ND		0.6		0.8	8	ND	0.6	0.8	0.7	1	ND	1	ND	0.6		ND	ND	0.61	0.7
tert-Butylbenzene	ND	34.1	ND	ND	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
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	ND	ND	ND
Chlorobenzene	6.8	11.7	10.0	11.0	2.0	ND	10.0		12.0		6.0		12		9		10		11		12		13	11	7	12	12	12	17	8	18	9	10		17.2	11	13	17.1
Chloroethane	ND	ND	ND	2.0	2.0	9.0	3.0		2.0		3.0		4		4		2		ND		2		4	1	4	3	ND	2	2	ND	2	ND	ND		ND	1.8	2.3	ND
Chloroform	ND	1.33	ND	ND	ND	ND	ND		ND		ND		ND																									ND
Chloromethane	ND	ND	0.17	ND	ND	ND	ND		13.0		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		ND	ND	ND	ND
4-Chlorotoluene	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	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																									ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	6.0	ND		ND																													ND
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND		ND																													ND
Dibromomethane	ND	ND	ND	ND	ND	ND	ND		ND		2.0		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,2-Dichlorobenzene	4.19	5.52	7.20	4.0	ND	ND	2.0		3.0		ND		3		2		1		ND		2		1	1	0.6	1	0.9	1	1	ND	1	ND	0.7		ND	0.65	0.67	ND
1,3-Dichlorobenzene	ND	0.21	ND	ND	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
1,4-Dichlorobenzene	1.23	8.28	ND	ND	1.0	4.0	7.0		6.0		ND		4		4		4		ND		4		6	4	3	5	4	4	6	2	8	3	4		8.12	3.6	5.1	6.3
trans-1,4-Dichloro-2-butene																																						
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND		5.0		0.7		ND		ND		ND		1		ND		2 J	ND	0.7	0.9	0.8	ND	ND	ND	0.9	ND	0.9		ND	0.5	ND	ND
1,1-Dichloroethane	8.09	8.10	8.29	12.0	7.0	13.0	6.0		8.0		7.0		11		6		7		8		7		6	6	6	9	7	10	6	7	5	8	7		4.83	9.1	4.5	5.1
1,2-Dichloroethane	1.05	1.02	1.13	2.0	ND	ND	ND		ND		ND		ND		ND		ND		ND		0.7		ND	ND	0.6	0.7	0.7	0.9	ND	ND	0.6	1	ND		ND	1.5	ND	ND
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
cis-1,2-Dichloroethene	ND	19.70	4.02	3.0	1.0	52.0	2.0		10.0		ND		4		4		3		5		3		4	6	2	12	3	15	3	3	2	6	4		ND	3.3	2.3	2.4
trans-1,2-Dichloroethene	18.5	0.89	0.67	ND	ND	ND	ND		1.0		ND		0.5		0.8		ND		ND		ND		0.7	ND	0.7	0.8	0.6	0.8	0.6	ND	0.5	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	ND	ND	ND
1,3-Dichloropropane	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	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	ND	ND	ND
1,1-Dichloropropene	ND	ND	1.01	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
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
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
Ethylbenzene	12.2	28.2	21.4	26.0	4.0	13.0	24.0		34.0		15.0		26		26		23		39		27		43	16	18	31	36	19	34	13	43	9	17		31.4	6.3	21	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	ND	ND
Iodomethane																																						
Isopropylbenzene	1.32	2.68	3.07	2.0	ND	ND	2.0		2.0		1.0		2		2		1		3		2		3	1	1	2	2	2	2	0.6	3	1	2		3.21	1	1.9	2.3
p-Isopropyltoluene	2.31	3.530	2.44	2.0	ND	3.0	2.0		3.0		ND		4		2		2		ND		2		0.8	1	0.8	1	2	1	2	ND	ND	0.8	1		ND	0.57	ND	1.4
Methylene chloride	2.62	ND	ND	1.0	ND	5.0	ND		1.0		0.6		0.6		0.5		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	0.8	ND	ND		ND	ND	ND	ND
4-Methyl-2-pentanone																																						
Naphthalene	6.13	5.53	5.47	7.0	ND	ND	5.0		7.0		3.0		5		6		4		ND		6 B		6 B	4	3	5 B	5	4	5	ND	6	2 B	4		10.6	3.5	6.3	3.5
n-Propylbenzene	1.51	10.9	9.73	2.0	ND	ND	2.0		2.0		1.0		2		2		1		2		2		3	1	1	2	3	2	3	0.5	4	1	2		3.79	1.5	2.2	2.5
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
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		ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	0.32	ND	ND	ND	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	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
Toluene	32.9	1.64	ND	2.0	ND	46.0	21.0		8.0		5.0		9		6		6		2		1		9	0.8	0.7	1	1	0.8	4	0.6	2	0.5	0.9		12.9	ND	2	1
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	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-Trichloroethane	ND	ND	ND	ND	ND	ND	ND		0.6		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	0.8	ND	ND		ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
Trichloroethene	1.07	0.98	0.20	ND	ND	ND	ND		1.0		0.6		0.6		0.6		ND		0.5		ND		ND	1	ND	2	ND	2	ND	ND	1	ND	ND		ND	1.2	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND		8.0		2.0		ND		ND		0.6		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	3.90	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,2,4-Trimethylbenzene	18.1	0.50	7.22	29.0	4.0	4.0	27.0		38.0		3.0		28		28		20		ND		29		34	15	15	24	27	11	27	0.8	31	4	12		35.1	1.7	19	13.2
1,3,5-Trimethylbenzene	3.48	ND	8.27	6.0	ND	ND	8.0		7.0		17.0		ND		6		5		ND		5		7	1	2	3	3	2	7	0.8	3	3	1		8.21	ND	3.4	1.3
Vinyl acetate																																						
Vinyl chloride	0.42	ND	ND	ND	ND	41.0	ND		15.0		ND		ND		ND		2		3		2		5	3	3	4	3	7	3	2	3	4	4		ND	1.2	0.66	2.4
o-Xylene	16.5	32.5	22.6		ND				ND		ND		ND		19		13		17		7		18	5	5	6	7	2	8	2	10	ND	2		10.8	0.77	4.2	3.3
p-Xylene & m-Xylene			18.1	69.0	9.0				98.0		42.0		70		49		44		53		33		65	14	16	24	18	7	37	9	54	4	8		41	3.4	16	17

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	9/02	3/03	9/03
PARAMETER METALS (mg/L)																																						
Aluminum	1.7				0.1				0.61				5.07				6.38				2.34			0.248		0.2		ND		ND		ND				0.1		0.18
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	126	95.7	96.1
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	26.8	29.3	24.6
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	16	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	24.7	19.6	17.8
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	13.2	11.4	10.8
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	7.87	6.84	8
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	22.3	16.5	16.1
PARAMETER (mg/l) TOXIC METALS																																						
Antimony	ND				ND				0.05				ND				ND				ND			0.055		ND		ND		ND		ND				ND		ND
Arsenic	ND				0.032				0.010				0.020				0.019				0.02			0.010		0.02		0.03		0.01		0.01				0.01		ND
Barium	0.53				0.36				0.8				0.66				0.15				0.73			0.581		0.73		0.58		0.43		0.5				0.56		0.52
Beryllium					ND				ND				ND				ND				ND			ND		ND		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	ND	ND
Chromium (Total)	<DL				0.01				0.02				0.03				0.04				0.04			0.028		0.02		ND		0.02		0.02				ND		ND
Copper	ND				ND				ND				0.01				0.02				0.02			ND		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	ND	0.01	0		0	0	0.003	ND
Mercury	ND				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		0.05				0.05		ND
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	0	0.001	ND
Silver	ND				ND				ND				0.02				ND				0.01			ND		ND		ND		ND		ND				ND		ND
Thallium	ND				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		ND				0.04		ND
PARAMETER (mg/l) LEACHATE INDICATORS																																						
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	469	363	480
Biochemical Oxygen Demand	45				6.0	ND			24.0				11				13				ND			29		26				10						8		9
Boron	0.11				0.21	ND			0.25				0.02				ND				0.29			0.249		0.28		0.24		0.23		0.18				0.18		0.11
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	80.2	54.1	45
Chromium (Hexavalent)	<DL				ND				ND				ND				ND				ND			0.010		ND		ND		0						ND		ND
Chloride	42.5	46	64	7	71	36.0	70.0	75.0	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	45.5	23.8	
Color (PCU units)	51				ND				250				400				175				600					120				450						500		30
Nitrate-Nitrite	<DL	<DL	<DL	ND	ND	ND	ND	ND	1.99	1.2	0.23	ND	ND	0.18	ND	ND	ND	0.1	ND	0.110	ND	ND	ND		ND	ND	ND		ND	ND	ND	1.28	ND		ND	0.72	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	14.2	14	12.2
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	0.06	0.0661	0.002
Sulfate	14	1.8	16.8	ND	ND	ND	ND	ND	20.0	8.4	ND	ND	11		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	6.4		11	ND	ND	ND	18		ND	ND	ND	2.2
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	15.1	11	14
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	560	500	445
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	416	320	313
Total Kjeldahl Nitrogen (TKN)	11.2				15.8				21.9				22				30				19.5			24.3		12.8				17.5						16.2		14
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	200	42	100
Cyanide	<DL				ND				ND				ND				ND				ND			ND		ND				ND									ND

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

	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	4/19	9/19	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																			
Acetone				1.9	2.2	4.5	7.1	12	3	4.5	3.3	ND	ND	1.6	2.6	4.2	ND	ND	3.3	ND	ND	2.5	ND	ND	ND	ND	ND	ND	2.2	ND	ND	ND	1.89	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	12.5	14	9.2	13	12	15	12	10	11	9.6	5.5	5.4	8.6	6.8	8.8	9.7	6.6	7.4	7.0	8.3	8.5	5.8	3.7	7.0	5.5	6.0	6.7	10.5	7.8	5.8	6.0	ND	13.07	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	-	-	-	-	-	-	-	-	-	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	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	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	1.4	ND	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.10	50.0	
n-Butylbenzene	ND	0.52	ND	ND	0.36	0.48	0.44	ND	0.48	ND	ND	ND	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.14	5.0	
sec-Butylbenzene	0.5	0.62	0.38	0.47	0.58	0.78	0.68	0.25	0.68	0.32	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	1.15	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	-	-	-	-	-	-	-	-	-	0.58	5.0	
Carbon disulfide				ND	ND	ND	ND	ND	ND	0.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	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	0.00	5.0	
Chlorobenzene	11.2	14	7.7	13	12	18	15	8.3	15	11	6.7	5.0	10	6.1	12	13	8.7	8.8	9.9	13	10	7.6	3.6	10	11	6.9	9.7	16.9	9.4	7.0	5.8	6.9	10.39	5.0	
Chloroethane	ND	2.9	2.6	2.5	2.1	2	1.2	1.5	1.6	1.5	0.9	1.7	1.1	1.1	0.93	0.85	ND	ND	1.2	ND	ND	0.99	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	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	ND	ND	0.03	7.0	
Chloromethane	ND	ND	ND	0.31	ND	0.21	ND	0.63	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	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	ND	ND	0.14	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	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	0.03	5.0	
1,2-Dichlorobenzene	0.6	0.79	0.37	0.58	0.6	0.8	0.61	0.35	0.63	0.48	0.3	0.24	0.39	0.23	ND	ND	ND	ND	0.45	ND	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.84	3.0	
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-	-	-	0.06	3.0	
1,4-Dichlorobenzene	3.5	4.5	2.9	3.8	4.1	5.7	5.5	2.3	5.1	3.6	2.4	1.7	3.2	1.7	4.1	4.2	ND	ND	3.2	ND	ND	2.3	0.96	ND	ND	ND	5.5	3.7	ND	ND	ND	ND	3.11	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	1.2	1.2	1	1.4	ND	0.96	1.3	ND	ND	0.81	0.76	1.3	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	22.7	-	ND	-	-	-	0.74	5.0	
1,1-Dichloroethane	6.7	5.6	5	6	5.2	4.7	4.1	7.9	4.4	7.0	5.6	11	3.6	7.9	3.6	3.5	ND	6.8	4.1	ND	ND	4.7	9.1	ND	ND	8.1	ND	5.1	4.3	ND	ND	5.4	5.84	5.0	
1,2-Dichloroethane	ND	ND	0.38	ND	ND	ND	ND	1.2	ND	0.87	0.52	0.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.26	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	4.2	3	3.2	4	4.6	3.5	2.6	2.5	3.2	1.1	0.82	2.3	1.9	1.3	2.1	1.7	ND	ND	1.9	ND	ND	1.8	2.1	ND	ND	ND	ND	ND	2.5	ND	ND	ND	3.75	5.0	
trans-1,2-Dichloroethene	0.5	0.48	0.48	0.65	0.52	0.51	0.48	0.46	0.41	0.36	0.26	0.34	0.41	0.29	ND	ND	ND	ND	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.55	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	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	-	-	-	0.02	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	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	0.00	0.4	*
Ethylbenzene	15.1	16	9.5	10	14	18	15	0.38	16	1.8	ND	0.51	6.1	ND	8.7	2.1	ND	ND	2.4	ND	ND	0.57	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND	13.02	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	-	-	-	-	-	-	-	-	-	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	0.00	5.0	
Isopropylbenzene	1.5	1.8	1.1	1.3	1.5	2.1	2	0.77	1.8	0.98	0.58	0.46	1.7	0.36	1.6	1.5	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	1.20	5.0	
p-Isopropyltoluene	0.7	ND	0.52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.69	5.0	
Methylene chloride	ND	ND	ND	0.83	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22	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		
Naphthalene	ND	5	3.3	3.5	3.9	5.1	5.8	1.6	5.3	2.9	1.5	1.1	1.7	0.53	4.3	4.0	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	2.60	10.0	**
n-Propylbenzene	1.7	2	1.2	1.3	1.7	2.2	2.2	0.71	2	0.92	0.55	0.39	1.8	0.26	1.7	1.2	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	1.52	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	ND	ND	ND	ND	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	
1,1,2,2-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	ND	ND	ND	ND	ND	ND	ND	0.01	5.0	
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	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	
Toluene	0.7	0.72	0.46	1.1	0.82	1.6	0.68	0.7	1.1	0.39	0.31	0.74	0.35	0.23	0.64	0.42	ND	ND	0.56	ND	ND	0.3	0.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.11	5.0	
1,2,3-Trichlorobenzene	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	
1,2,4-Trichlorobenzene	ND	0.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.28	0.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.02	5.0	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	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	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	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	
Trichloroethene	1.2	0.54	0.53	0.73	0.86	0.6	0.84	0.74	0.64	0.32	ND	0.37	0.77	0.3	ND	ND	ND	ND	0.42	ND	ND	0.29	0.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36	5.0	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17	5.0	
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	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	0.04	
1,2,4-Trimethylbenzene	5.3	7.3	3.7	5.1	4.5	10	5.1	ND	3.7	0.85	ND	ND	ND	ND	4.4	2.5	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	9.15	5.0	
1,3,5-Trimethylbenzene	1.1	0.38	0.64	1.1	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	0.45	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	1.92	5.0	
Vinyl acetate				ND	ND	ND	ND	ND	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		
Vinyl chloride	5.4	2.9	3	3.5	5.6	2.6	3.1	2.2	4.6	1.3	0.98	1.4	4.0	1.5	2.9	1.1	ND	ND	2.9	ND	ND	0.95	1.4	ND	ND	ND	3.0	ND	2.2	ND	ND	ND	2.71	2.0	
o-Xylene	1.5	2.2	0.98	1.2	2	2.4	1.7	ND	2	0.45	ND	0.21	0.68	ND	1.5	0.62	ND	ND	0.4	ND	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.96	5.0	
p-Xylene & m-Xylene	6.3	8.8	3.6	9	5.5	18	6.3	0.44	5.8	1.8	0.69	0.81	3.7	ND	6.3	4.0	ND	ND	2.6	ND	ND	2.5	ND	ND	ND	ND	ND	ND	2.9	ND	ND	ND	15.92	5.0	

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

	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	4/19	9/19	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum		0.21		ND		ND		ND	ND		ND			ND	ND			0.053	0.001	-	-	ND	ND	-	ND	ND	0.0157	0.0282	-	0.096	ND	-	0.47	
Calcium	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	124	126	112.42	
Iron	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	13.8	18.1	30.59	0.3
Magnesium	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	23.6	25.5	22.35	35.0
Manganese	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	9.04	7.62	9.54	10.2	10.3	13.07	0.3
Potassium	5.81	6.6	6.9	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	4.46	6.73	7.89	
Sodium	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	12.6	14.8	20.88	20.0
PARAMETER (mg/l) TOXIC METALS																																		
Antimony		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	0.00	0.003
Arsenic		0.01		ND		0.01		0.012	0.01		0.013			0.012	0.011			ND	0.007	-	-	0.013	0.014	-	ND	ND	0.0108	0.0095	-	0.0085	0.0164	-	0.01	0.025
Barium		0.43		0.43		0.44		0.6	0.53		0.555			0.516	0.45			0.53	0.334	-	-	0.303	0.271	-	0.394	0.414	0.304	0.439	-	0.325	0.293	-	0.40	1.0
Beryllium		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	0.00	0.005
Chromium (Total)		0.01		ND		0.01		ND	ND		ND			ND	ND			ND	0.001	-	-	0.0009	ND	-	0.0175	ND	0.006	0.0069	-	0.0107	ND	-	0.01	0.05
Copper		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	0.00	0.2
Lead	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	ND	ND	0.00	0.025
Mercury		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	6E-05	-	0.0001	ND	-	0.00	0.0007
Nickel		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.006	-	-	0.005	0.004	-	ND	ND	0.0058	0.0063	-	0.0046	0.0176	-	0.04	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	ND	-	0.00	0.0
Silver		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	0.001	0.002	-	ND	ND	ND	ND	-	ND	ND	-	0.00	0.05
Thallium		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		ND		ND		0.03		0.03	0.018		ND			ND	0.014			0.014	0.014	-	-	0.01	ND	-	ND	ND	0.0028	0.0087	-	0.0045	0.0054	-	0.02	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																		
Alkalinity	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	478	468	466.0	
Biochemical Oxygen Demand		ND		6.3		3.5		6.3	4.7		11.9			ND	5		11	7	10.1	-	-	11.1	6.7	3.7	9.0	ND	9.9	6.0	13	7.6	3.9	8.1	8.8	
Boron		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	0.0919	-	0.1	1.0
Chemical Oxygen Demand	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	34.5	58.7	72.8	
Chromium (Hexavalent)		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	-	-	0.0061	ND	-	0.0	0.05
Chloride	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	8.0	13.7	30.6	250
Color (PCU units)		120		60		160		300	80		30			0	320			5	280	-	-	340	90	-	20	5	15	-	-	75	100	-	134.6	15
Nitrate-Nitrite	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	ND	0.12	0.2	10
Nitrogen-Ammonia	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	4.9	8.6	11.9	2.0
Phenols	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	0.0351	0.004	0.0	0.001
Sulfate	2.2	ND	2.2	ND	2.6	ND	ND	2.1	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	ND	ND	2.1	250
Total Organic Carbon (TOC)	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	8.9	9.7	27.5	
Total Dissolved Solids (TDS)	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	602	466	504.3	500
Total Hardness	361	328	390	390	372	346	376	410	376	394	410	420	390	430	389	349		450	359	376	396	415	490	352	390	450	410	520	450	340	400	200	391.6	
Total Kjeldahl Nitrogen (TKN)		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	5.4	10.1	11.0	
Turbidity (NTU units)	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	8.6	31.17	103.6	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.
* = 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-13
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	9/02	3/03	9/03
PARAMETER VOLATILES (ug/L)																																						
Acetone																																						
Acrylonitrile																																						
Benzene	<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
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
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
Bromodichloromethane	ND			ND	ND				ND		ND		ND																									ND
Bromoform	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	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	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	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	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	ND				ND		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	ND				ND		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	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	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	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
1,2-Dibromoethane	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	0.06			ND	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
1,1-Dichloroethane	2.2			3.0	2.0				2.0		2.0		2		1		1		ND		2		2	2	2	2	ND	2	1	1	0.9	0.8	1	2.29	ND	1.8	1.1	1.2
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	ND
1,1-Dichloroethene	ND			ND	ND				ND		ND		ND		ND		ND		2		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND			2.0	ND				1.0		0.9		0.8		0.6		0.6		0.8		0.8		0.8	1	0.8	0.9	ND	0.9	ND	ND	ND	ND	0.9	ND	ND	1.5	0.83	0.8
trans-1,2-Dichloroethene	0.81			ND	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	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	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
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
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
Methylene chloride	ND			2.0	1.0				ND		ND		ND		ND		0.7		ND		0.7		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone																																						
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
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
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
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	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	ND
Tetrachloroethene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND			ND	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-Trichloroethane	ND			ND	ND				0.5		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	0.8	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	<DL			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.65	ND	0.54	ND	ND
Trichlorofluoromethane	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate																																						
Vinyl 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
o-Xylene	ND			ND	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-Xylene & m-Xylene				ND	ND				ND		ND		ND		ND		1		ND		1		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

	9/90	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	9/02	3/03	9/03
PARAMETER METALS (mg/L)																																						
Aluminum	5.04				12.6				7.85				8.91				1.17				15.2			1.54		10.4		2.14		0.78		0.85		1.48		5.93		2.52
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	52.3	32.5	45.1
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	10.8	6.82	4.89
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	8.79	9.79	9.72	10.1	9.58	13.8	9.53	10.9
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	4.84	1.45	5.57
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	2.68	2.61	1.97
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	8.68	7.51	8
PARAMETER (mg/l) TOXIC METALS																																						
Antimony	ND				ND				0.03				ND				ND				ND			ND		ND		ND		ND		ND		ND		ND		ND
Arsenic	<DL				0.006				0.005				0.004				0.004				0.01			ND		0		0		ND		ND		ND		0		ND
Barium	0.1				0.18				0.17				0.15				0.29				0.19			0.060		0.12		0.13		0.05		0.08		0.03		0.11		0.1
Beryllium					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	ND	ND
Chromium (Total)	<DL				0.03				0.02				0.03				ND				0.66			ND		0.02		ND		0.02		ND		ND		0.02		ND
Copper	ND				0.02				ND				0.02				ND				0.03			ND		ND		ND		ND		ND		ND		ND		0.01
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	0.01	0.01	ND
Mercury	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		0.03		0.04		ND
Selenium	0.01	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
Thallium	0.2				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			ND		0.04		0.03		0.02		0.02		ND		0.05		0.02
PARAMETER (mg/l) LEACHATE INDICATORS																																						
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	175	111	165
Biochemical Oxygen Demand	<DL				ND	ND			7				14				10				9			12		22		9		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		0.07		0.09		0.06
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	ND	25.3	ND	ND	10.3	ND	32.3	31.4	37.1	ND	10.4	33.6	ND	ND
Chromium (Hexavalent)	<DL				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	11.2	8.78	8.4
Color (PCU units)	9				ND				20				15				ND				25			30		20		300		1250		300		250		100		5
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	0.13	0.14	0.2
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	0.14	ND	0.2
Phenols	0.002	ND	ND	ND	0.020	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	ND	0.01	0.01	ND	ND	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	10.4	9.97	8.8
Total Organic Carbon (TOC)	6.2	9	4.8	4	3.0	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	2.8	1.7	5
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	197	149	190
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	187	120	157
Total Kjeldahl Nitrogen (TKN)	0.9				1.1				2.19				3.36				ND				ND			3.10		ND		1.6		3.26		ND		1.18		ND		ND
Turbidity (NTU units)	75	320	128	175	308	79.0	44.0	107	600	52.0	170	31	31	60	100	40	270	17	69	19	280	43	80	33	24	70	19	66	54	700	37	77	23	168	6.8	140	53	190
Cyanide	<DL				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND				ND

MW-13
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	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	4/19	9/19	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																			
Acetone				ND	ND	ND	ND	3.4	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	0.24	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	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	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	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	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	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	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	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	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	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	7.0	
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	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	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	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	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	-	-	-	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	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	0.00	5.0	
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	-	-	-	-	0.00	5.0	
1,1-Dichloroethane	2	1.4	1.3	1.3	1.2	1.7	1.3	1.1	0.84	1.2	1	1.4	1.2	1.1	0.84	1.1	ND	ND	0.7	ND	ND	0.76	0.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	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	0.00	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	ND	ND	0.03	5.0	
cis-1,2-Dichloroethene	1.7	1.4	1.3	1.3	1.4	2.1	1.8	1.1	0.9	1.7	1.2	2	2.1	1.7	1	1.8	ND	ND	0.82	ND	ND	1.1	0.88	ND	ND	ND	ND	1.2	ND	ND	ND	ND	0.77	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	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	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	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	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	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	-	-	-	-	-	-	-	-	-	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	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	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	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	ND	ND	ND	ND	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	
1,1,2,2-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	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	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	5.0	
1,2,3-Trichlorobenzene	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	
1,2,4-Trichlorobenzene	ND	0.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.01	5.0	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	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	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	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	
Trichloroethene	ND	0.44	0.46	0.44	ND	0.36	0.31	0.28	ND	0.25	ND	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07	5.0	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	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	
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	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	
1,2,4-Trimethylbenzene	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	
1,3,5-Trimethylbenzene	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	
Vinyl acetate				ND	ND	ND	ND	ND	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		
Vinyl chloride	ND	0.3	0.25	ND	0.22	0.43	0.35	ND	ND	ND	ND	ND	0.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	2.0	
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	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-Xylene & m-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	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	5.0	

MW-13
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	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	4/19	9/19	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum		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	0.0679	-	2.29	
Calcium	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	38.9	42.2	44.01	
Iron	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	1.0	0.19	0.08	0.42	0.101	0.459	0.0907	0.106	0.357	0.0952	0.617	0.162	7.45	0.3
Magnesium	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	10.6	10.3	10.6	11.3	9.95	11.9	13	11.9	12.1	13.8	11.4	11.9	11.55	35.0
Manganese	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	1.29	0.259	1.69	0.3
Potassium	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	ND	1.04	1.09	1.58	ND	ND	2.14	
Sodium	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	8.65	9.59	8.37	20.0
PARAMETER (mg/l) TOXIC METALS																																		
Antimony		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	0.0035	ND	-	0.00	0.003
Arsenic		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	0.00	0.025
Barium		0.13		0.01		0.03		0.013	0.018		0.015			0.021	0.019			ND	0.016	-	-	0.019	0.022	-	ND	ND	0.017	0.0166	-	0.0194	0.0239	-	0.06	1.0
Beryllium		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.0002	-	-	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	0.00	0.005
Chromium (Total)		0.03		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	0.0044	ND	-	0.02	0.05
Copper		0.01		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	0.00	0.2
Lead	ND	ND	ND	0.01	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	ND	ND	0.00	0.025
Mercury		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	6E-05	-	ND	ND	-	0.00	0.0007
Nickel		0.02		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	0.002	-	ND	ND	0.0021	0.0012	-	0.0017	0.0112	-	0.02	0.1
Selenium		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	-	0.00	0.05
Thallium		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	0.01	0.0005
Zinc		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	0.0267	-	0.03	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																		
Alkalinity	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	162	156	160.3	
Biochemical Oxygen Demand		2.5		ND		ND		ND	ND		ND			ND	ND		ND	ND	ND	-	-	ND	ND	ND	ND	ND	1.0	1.0	ND	ND	1.0	1.0	2.3	
Boron		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	0.0385	-	0.0	1.0
Chemical Oxygen Demand	9	54.1	ND	12	ND	ND	12.9	ND	ND	ND	ND	ND	ND	ND	ND	11.4	ND	ND	6.0	ND	30.3	ND	9.7	9.7	-	ND	17.2	11.9	17.5	21.6	ND	14.6	15.6	
Chromium (Hexavalent)		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	0.0059	-	-	ND	ND	-	0.0	0.05
Chloride	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	6.0	5.7	5.3	4.4	6.3	5.3	4.82	4.0	6.3	4.4	5.1	4.0	4.3	3.2	8.6	250
Color (PCU units)		200		25		15		60	18		5			60	80			ND	12	-	-	14	16	-	10	5.0	5.0	-	-	10	5.0	-	77.4	15
Nitrate-Nitrite	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	0.066	0.067	ND	0.062	ND	0.073	0.1	10
Nitrogen-Ammonia	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	0.084	ND	0.17	0.1	0.032	0.1	0.07	0.14	0.18	ND	0.1	2.0
Phenols	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	0.247	ND	0.0099	0.0015	0.0016	0.0034	0.0043	ND	0.004	0.0	0.001
Sulfate	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	3.4	4.1	12.4	250
Total Organic Carbon (TOC)	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	ND	2.4	2.4	2.2	2.2	2.2	543	2.21	3.5	ND	3.4	14.7	2.9	2.1	2.2	13.2	
Total Dissolved Solids (TDS)	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	222	173	198.4	500
Total Hardness	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	140	133	161.9	
Total Kjeldahl Nitrogen (TKN)		1.9		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	0.4	0.63	0.6	
Turbidity (NTU units)	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	13	7.24	80.6	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.
* = 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-14
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	9/02	3/03	9/03
PARAMETER VOLATILES (ug/L)																																						
Acetone																																						
Acrylonitrile																																						
Benzene	ND	0.44	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8
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
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
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																									ND
Bromoform	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	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	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	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	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	ND	ND	ND	ND
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
Chloroethane	ND	ND	ND	ND	ND	ND	ND		ND		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	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	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	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	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
1,2-Dibromoethane	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	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	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	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	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	ND	ND	ND
1,1-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
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
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
cis-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	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	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	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	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	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	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	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	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	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	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	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	ND	ND	ND
Methylene chloride	ND	ND	ND	2.0	1.0	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	ND	ND
4-Methyl-2-pentanone																																						
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
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
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
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	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	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	<DL	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	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-Trichloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	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		ND		ND		ND	ND	ND	ND	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		ND		ND		ND	ND	ND	ND	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		ND		ND		ND	ND	ND	ND	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		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate																																						
Vinyl 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
o-Xylene	ND	ND	ND	ND	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-Xylene & m-Xylene				ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MW-14
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	9/02	3/03	9/03
PARAMETER METALS (mg/L)																																						
Aluminum	22				7.7				3.42				6.45				13.4				7.68			4.10		7.33		1.28		1.66		0.34		0.83		0.4		4.33
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	35.5	40.3	96.8
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	0.84	1.77	9.15
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	10.3	12.4	14.4
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	0.096	0.04	0.06	0.31
Potassium	7.3	3.9	7.5	6.8	6.5	3.4	7.2	6.3	5.12	5.4	9.59	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	9.09	3.5	2.51	2.83	2.59	3.2	3.71	4.33
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	14.9	15.6	13.4
PARAMETER (mg/l) TOXIC METALS																																						
Antimony	0.01				ND				ND				ND				ND				ND			0.028		ND		ND		ND		ND		ND		ND		ND
Arsenic	ND				ND				0.003				0.004				ND				0.01			0.004		ND		0		0		ND		ND		0		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		0.12		0.3
Beryllium					ND				ND				ND				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	0.002	ND	0.01		ND	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	0	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	ND	0.01	0.02
Copper	ND				0.01				ND				0.01				0.03				0.02			ND		0.02		ND		ND		ND		ND		ND		0.01
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	0	0	ND
Mercury					ND				ND				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		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	ND	ND	ND	ND
Silver					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
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		0.02		0.03
PARAMETER (mg/l) LEACHATE INDICATORS																																						
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			145
Biochemical Oxygen Demand	8				ND				6				ND				ND				19			3		8		3											ND
Boron	ND				0.04				ND				ND				ND				ND			ND		ND		0.06		ND		ND		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	ND	30.9	ND	14.3			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
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		1.94	1.74	2.01	1.35			ND	1.58	1.68		1.52			1.5
Color (PCU units)	25				ND				20								5									30		250						75					5
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			0.09
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			ND
Phenols	0.002	ND	<DL	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.004	0.001	ND	ND	ND	ND	0.054	0.03		0.01		ND	ND	ND	ND			ND		ND	ND	0.0042			ND
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	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	ND	ND	ND
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			305
Total Hardness	199	228	216	254	294	287	278	256	346	315	315	287		378	355	293	387	260	252	249			276		287	287	260	194			178	165	195	170	228			301
Total Kjeldahl Nitrogen (TKN)	<DL				0.9				ND				2.42				1.39				ND			2.98		ND		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			74
Cyanide	0.01				ND				ND				ND				ND				ND			ND		ND		ND				ND							

MW-14
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	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	4/19	9/19	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																			
Acetone				ND	ND	ND	ND	5.1	1.6	1.6	ND	4.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	0.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	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	-	-	-	-	-	-	-	-	-	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	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	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	7.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.26	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	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	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	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	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	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	0.00	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	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	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	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	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	-	-	-	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	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	0.00	5.0	
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	-	-	-	0.00	5.0	
1,1-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	0.00	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	0.00	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	ND	ND	0.00	5.0	
cis-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	ND	ND	ND	0.00	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	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	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	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	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	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	-	-	-	-	-	-	-	-	-	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	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	ND	ND	0.11	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		
Naphthalene	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	-	-	-	-	-	-	-	-	-	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	ND	ND	ND	ND	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	
1,1,2,2-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	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	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	5.0	
1,2,3-Trichlorobenzene	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	
1,2,4-Trichlorobenzene	ND	0.69	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	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	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	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	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	
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	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	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	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	
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	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	
1,2,4-Trimethylbenzene	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	
1,3,5-Trimethylbenzene	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	
Vinyl acetate				ND	ND	ND	ND	ND	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		
Vinyl 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	ND	ND	0.00	2.0	
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	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-Xylene & m-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	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	

MW-14
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	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	4/19	9/19	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum		1.1		ND		ND		0.24	ND		ND			ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	ND	-	0.0766	ND	-	2.29	
Calcium	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	57.3	56.8	60.59	
Iron	0.54	1.5	0.64	0.07	0.06	0.16	0.07	0.74	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	ND	0.162	ND	0.106	0.0518	0.0552	0.0298	0.0153	4.56	0.3
Magnesium	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	16.9	16.4	19		14	15.1	15.3	15	14.6	14.7	13.4	15.2	15.0	13.0	14.3	15.9	14.0	14.0	17.22	35.0
Manganese	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	0.0674	0.0602	0.26	0.3
Potassium	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	1.85	1.62	3.93	
Sodium	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	9.11	8.99	14.73	20.0
PARAMETER (mg/l) TOXIC METALS																																		
Antimony		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	-	0.00	0.025
Barium		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	0.0362	-	0.08	1.0
Beryllium		ND		ND		ND		ND	ND		ND			ND	ND				0.0002	-	-	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	0.00	0.005
Chromium (Total)	ND	0.02	0.01	ND	ND	ND		0.006	ND	ND	ND	ND		ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	ND	-	0.0032	ND	-	0.02	0.05
Copper		ND		ND		ND		ND	ND		ND			ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	0.00	0.2
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001		0.0009	ND	ND	ND	ND	ND	0.0039	ND	ND	0.0013	ND	ND	ND	ND	0.00	0.025
Mercury	ND	ND		0.01		ND		ND	ND		ND			ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	7E-05	-	ND	0.00015	-	0.00	0.0007
Nickel		ND		ND		ND		ND	ND		ND			ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	0.0012	-	ND	0.009	-	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	-	0.00	0.0
Silver	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	-	0.01	0.0005
Zinc		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	ND	-	0.02	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																		
Alkalinity	34	146	139		355	ND	158		181			159	179		257	218	190	ND	210	205	216	216	205	210	187	-	243	282	207	232	213	204	196.9	
Biochemical Oxygen Demand															ND		ND	ND	ND	-	-	-	ND	ND	ND	-	1.0	1.0	ND	ND	1.0	1.0	1.9	
Boron		ND		ND		ND		0.03	0.03		0.027			0.033	0.031				ND	-	-	ND	0.04	-	ND	ND	0.0215	0.0195	-	0.0225	0.0207	-	0.0	1.0
Chemical Oxygen Demand	13	92.1	ND	ND	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	ND	25.6	6.1	
Chromium (Hexavalent)		ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	-	-	0.0086	-	-	ND	ND	-	0.0	0.05
Chloride	ND	1.5	1.6		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	2.4	2.2	250
Color (PCU units)		120													ND			ND	7	-	-	13	14	-	5	20	10	-	-	5.0	5.0	-	24.4	15
Nitrate-Nitrite	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	ND	0.093	0.3	10
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	0.039	ND	0.1	2.0
Phenols		0.02	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0065	0.0043	0.0074	ND	0.004	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	12.5	16.0	54.6	250
Total Organic Carbon (TOC)	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	0.82	1.3	2.3	
Total Dissolved Solids (TDS)		259	215		229	278	232					255	245		238	215	350	240	215	223	229	228	211	231	209	-	249	225	202	216	224	209	280.9	500
Total Hardness	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	160	193	229.1	
Total Kjeldahl Nitrogen (TKN)		1.8		ND		ND			ND					ND	ND		ND	0.597	ND	-	-	ND	ND	-	ND	0.98	0.14	0.59	ND	ND	ND	ND	0.4	
Turbidity (NTU units)	67	129	415		21.7		24.1		6.3	16.7	22	3	2	42	6	5	6.2	50.1	3.2	3	0	4.4	ND	5.3	3.3	9.9	1.8	25	6.3	5.5	8.1	8.84	126.9	5.0
Cyanide		ND		ND		ND			ND		ND			ND	0.16				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.

SEEP
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	9/02	3/03	9/03
PARAMETER VOLATILES (ug/L)																																						
Acetone																																						
Acrylonitrile																																						
Benzene	ND	3.02	2.66	3.0		2.0	2.0		1.0		2.0		2		1		3		2				1	1	1	1	2		2	3	2	2	2		2.59		0.58	2
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
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
Bromodichloromethane	ND	ND	<DL	ND		ND	ND		ND		ND		ND																									ND
Bromoform	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	ND
2-Butanone																																						
n-Butylbenzene	ND	ND	ND	ND		ND	ND		0.6		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	0.32	<DL	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	ND	1.08	0.91	ND		1.0	1.0		1.0		0.9		0.8		0.6		2		0.9				0.9	0.7	0.8	1	1		1	2	1	1	1		2.71		0.58	1.9
Chloroethane	ND	ND	<DL	ND		1.0	2.0		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
Chloroform	ND	2.06	<DL	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
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND		ND	ND		ND																													ND
1,2-Dibromoethane	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	0.31	0.21	ND		ND	ND		0.6		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
1,3-Dichlorobenzene	ND	<DL	<DL	ND		ND	ND		0.6		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
1,4-Dichlorobenzene	0.35	1.72	1.08	ND		1.0	2.0		1.0		0.9		0.7		0.6		1		0.7				0.7	0.6	0.6	0.8	0.7		0.8	1	0.8	0.7	0.7		1.96		ND	ND
trans-1,4-Dichloro-2-butene																																						
Dichlorodifluoromethane	ND	ND	ND	2.0		ND	ND		ND		0.5		ND		ND		1		0.7				0.9 J	ND	ND	ND	ND		ND	ND	ND	ND	0.7		ND		ND	ND
1,1-Dichloroethane	2.29	10.6	8.77	16.0		9.0	16.0		3.0		6.0		6		3		9		ND				4	5	4	5	6		5	7	6	6	7		5.26		2.5	6.4
1,2-Dichloroethane	<DL	0.51	0.29	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		6				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
cis-1,2-Dichloroethene	ND	32.3	23.3	9.0		11.0	15.0		5.0		7.0		5		5		11		11				6	4	6	5	8		6	10	9	11	10		7.19		3.1	10.6
trans-1,2-Dichloroethene	3.03	1.66	0.80	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	0.6
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	<DL	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	0.53	0.14	3.0		2.0	ND		1.0		1.0		2		ND		2		0.6				ND	0.7	ND	ND	ND		ND	ND	ND	ND	ND		1.11		ND	ND
2-Hexanone																																						
Hexachlorobutadiene	ND	ND	ND	ND		ND	ND		0.6		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
Iodomethane																																						
Isopropylbenzene	ND	<DL	0.33	ND		ND	ND		0.5		ND		ND		ND		0.5		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		1.17		ND	ND
p-Isopropyltoluene	ND	2.03	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	ND	<DL	<DL	1.0		2.0	25.0		0.6		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
4-Methyl-2-pentanone																																						
Naphthalene	ND	0.91	0.20	ND		ND	ND		0.5		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
n-Propylbenzene	ND	0.22	0.19	ND		ND	ND		0.5		ND		ND		ND		ND		ND				ND	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				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	<DL	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
Toluene	ND	0.76	0.35	ND		2.0	ND		ND		ND		1		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND		ND	ND		0.6		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
1,1,1-Trichloroethane	ND	4.47	3.19	ND		1.0	1.0		0.5		ND		ND		ND		ND		1				0.6	ND	0.7	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
Trichloroethene	<DL	26.47	12.7	5.0		2.0	ND		2.0		7.0		1		2		21		4				3	2	1	4	2		2	2	2	14	4		1.63		ND	3.6
Trichlorofluoromethane	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND		ND	ND		0.7		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
Vinyl acetate																																						
Vinyl chloride	ND	ND	2.11	12.0		10.0	19.0		5.0		4.0		4		3		7		6				4	2	3	3	5		3	5	4	4	4		ND		0.68	4.3
o-Xylene	ND	<DL	1.12	ND					ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
p-Xylene & m-Xylene			0.29	2.0					1.8		0.6		0.6		ND		0.7		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND

SEEP
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	9/02	3/03	9/03
PARAMETER METALS (mg/L)																																						
Aluminum	ND								0.06				0.2				0.87							ND		0.23				0.09		ND						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		21.9	41.2
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		121		79.6	10.8
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		6.67	11.8
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		4.28	7.93
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		2.65	3.34
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	7.54	6.08		8.06		3.89	5.93
PARAMETER (mg/l) TOXIC METALS																																						
Antimony	ND								ND				ND				0.03							0.028		ND				ND		ND						ND
Arsenic	<DL								0.005				0.019				0.040							0.009		0.02				0.01		0.027						ND
Barium	0.05								0.11				0.18				0.22							0.131		0.14				0.21		0.172						0.16
Beryllium		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		ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	ND
Chromium (Total)	ND								ND				0				0.02							ND		ND				ND		ND						ND
Copper	ND								ND				ND				ND							ND		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		0.005	ND
Mercury	ND								ND				ND				ND							ND		ND				ND		ND						ND
Nickel	0.11								ND				0.03				0.05							0.023		0.03				0.04		0.032						ND
Selenium	ND	<DL							ND				ND				ND							ND		ND				ND		ND						ND
Silver	ND								ND				ND				0.01							ND		ND				ND		ND						ND
Thallium	<DL								ND				ND				ND							ND		ND				ND		ND						ND
Zinc	ND								0.003				0.02				0.02							ND		0.02				0.03		ND						ND
PARAMETER (mg/l) LEACHATE INDICATORS																																						
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		85.7	180
Biochemical Oxygen Demand	3								ND				ND				4							ND		ND				ND		ND						4
Boron	ND								ND				ND				ND							0.074		0.07				0.11		0.113						0.06
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	ND		17.4	ND	23.6	ND	15.8		23.6		11.5	9
Chromium (Hexavalent)	ND								ND				ND				ND							ND		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		3.26	7.9
Color (PCU units)	45								65.0				75				60							150		40				25		300						10
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		0.21	ND
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		1.47	2.8
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		0.0052	0.002
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		7.44	7.9
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		2.8	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		126	208
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		82.2	151
Total Kjeldahl Nitrogen (TKN)	1.8								2.14				4.17				5.91							2.89		2.54				3.83		5.31						3.6
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		4.7	15
Cyanide	<DL								ND				ND				ND							ND		ND				ND		ND						ND

SEEP
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	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	4/19	9/19	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																			
Acetone				ND	1.7	2.8	3.4	4.8	2	3.9	2.6	ND	2.9	1.1	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND	ND	ND	1.01	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	1.4	1.7	0.35	3.9	2	2.6	1.4	1.5	1.7	1.3	1.4	2.6	2	1.2	0.72	2.1	ND	ND	1.4	ND	ND	1.4	1.9	ND	ND	ND	ND	ND	2.2	ND	ND	ND	1.41	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	-	-	-	-	-	-	-	-	-	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	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	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	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	-	-	-	-	-	-	-	-	-	0.01	5.0	
sec-Butylbenzene	ND	ND	ND	ND	ND	0.21	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	-	-	-	-	-	-	-	-	-	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	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	0.00	5.0	
Chlorobenzene	1.6	1.8	0.43	4.6	2.5	3	1.6	1.5	2.6	1.9	1.9	3.4	2.2	1.6	1.0	3.2	ND	ND	2.2	ND	ND	2.2	3.0	ND	ND	ND	ND	ND	3.0	ND	ND	ND	1.25	5.0	
Chloroethane	ND	0.25	ND	0.68	0.39	0.46	0.26	ND	0.35	0.27	0.28	0.5	0.43	0.22	ND	ND	ND	ND	0.55	ND	ND	0.36	0.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	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	ND	ND	0.05	7.0	
Chloromethane	ND	ND	ND	ND	ND	0.22	ND	ND	ND	ND	ND	ND	ND	0.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	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	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	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	0.00	5.0	
1,2-Dichlorobenzene	ND	ND	ND	0.7	ND	0.23	ND	ND	0.32	0.26	0.28	0.33	0.21	0.22	ND	ND	ND	ND	0.24	ND	ND	0.22	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.08	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	-	-	-	0.01	3.0	
1,4-Dichlorobenzene	0.9	1	ND	2	1.3	1.5	0.85	0.71	1.2	0.89	0.8	1.4	1	0.83	0.53	1.4	ND	ND	1	ND	ND	1.1	1.1	ND	ND	ND	ND	ND	1.3	ND	ND	ND	0.72	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	1.1	ND	0.89	0.55	ND	0.38	0.53	0.4	0.67	0.37	0.7	0.48	0.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	7.2	-	ND	-	-	-	0.33	5.0	
1,1-Dichloroethane	4.9	5.2	1.2	8.8	5.5	5.4	4.4	5.8	4.5	5	5.6	8.8	6.1	7.5	1.8	3.6	5.2	4.1	3.9	ND	5.4	3.6	4.7	ND	ND	ND	ND	ND	4.7	ND	ND	ND	4.82	5.0	
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	0.6	
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11	5.0	
cis-1,2-Dichloroethene	7.1	8.3	1.8	19	10	11	8.6	11	8.1	22	12	25	16	19	2.4	9.4	9.1	8.6	8.7	11	9	9.7	16	ND	15	21.5	6.3	11.7	10.3	9.6	7.5	18.8	10.42	5.0	
trans-1,2-Dichloroethene	ND	ND	ND	0.79	0.4	0.43	0.39	0.44	0.34	0.91	0.64	0.81	0.55	0.47	ND	ND	ND	ND	0.41	ND	ND	ND	0.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23	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	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	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	0.00	0.4	*
Ethylbenzene	ND	ND	ND	0.9	ND	0.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	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	-	-	-	-	-	-	-	-	-	0.01	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	0.00	5.0	
Isopropylbenzene	ND	ND	ND	0.61	0.38	0.61	ND	ND	0.26	ND	ND	0.4	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.09	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	-	-	-	-	-	-	-	-	-	0.04	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	ND	ND	0.50	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		
Naphthalene	ND	ND	ND	0.38	ND	0.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.04	10.0	**
n-Propylbenzene	ND	ND	ND	0.33	ND	0.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.03	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	ND	ND	ND	ND	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	
1,1,2,2-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	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	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07	5.0	
1,2,3-Trichlorobenzene	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	
1,2,4-Trichlorobenzene	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	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22	5.0	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	1.0	
Trichloroethene	1.2	5.5	0.51	8.7	2.5	2.9	1.3	0.38	0.99	2	8.5	6.3	1.9	ND	0.45	1	ND	ND	ND	ND	ND	1.1	5.3	ND	ND	ND	ND	ND	1.7	ND	ND	ND	3.10	5.0	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	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	
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	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	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND	ND	ND	0.47	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.03	5.0	
1,3,5-Trimethylbenzene	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	
Vinyl acetate				ND	ND	ND	ND	ND	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		
Vinyl chloride	3.5	3.3	0.69	6.2	3.7	3.6	2.3	3.9	2.4	4	3.7	5.2	3.3	4.6	0.96	2.5	3.6	ND	2.9	ND	ND	2.7	3.5	ND	ND	ND	1.9	ND	3.4	ND	ND	2.9	3.31	2.0	
o-Xylene	ND	ND	ND	ND	ND	0.35	ND	ND	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-Xylene & m-Xylene	ND	ND	ND	ND	ND	1.3	ND	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	5.0	

SEEP
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	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	4/19	9/19	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum		ND		ND		0.44		ND	ND		ND			ND	0.32			0.19	ND	-	-	ND	ND	-	ND	ND	0.101	0.056	-	0.0779	0.652	-	0.09	
Calcium	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	49	63.5	40.86	
Iron	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	21.9	32.9	17.44	0.3
Magnesium	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	17	8.6	16.8	17.5	13.9	14.7	17.8	16.6	15.1	23.2	13.07	35.0
Manganese	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	10.6	11.7	8.34	0.3
Potassium	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	5	4.39	3.77	4.24	3.81	3.73	3.08	
Sodium	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	5.3	6.5	5	5.6	6.3	1.5	6.19	ND	6.59	6.04	6.16	6.64	5.95	6.92	6.28	20.0
PARAMETER (mg/l) TOXIC METALS																																		
Antimony		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	0.00	0.003
Arsenic		0.02		0.01		0.06		ND	0.012		0.017			0.022	ND			ND	0.015	-	-	0.021	0.039	-	0.0177	0.0188	0.0164	0.02	-	0.0288	0.0261	-	0.01	0.025
Barium		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	0.168	-	0.10	1.0
Beryllium		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.0003	-	-	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	0.00	0.005
Chromium (Total)		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.001	-	-	0.001	0.002	-	ND	ND	0.0066	0.0036	-	0.0107	ND	-	0.00	0.05
Copper		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	0.00	0.2
Lead	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	ND	ND	0.00	0.025
Mercury		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.0033	-	ND	ND	-	0.00	0.0007
Nickel		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.004	-	-	0.004	0.004	-	ND	ND	0.0059	6E-05	-	0.0031	0.0145	-	0.01	0.1
Selenium		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.006	-	-	0.005	0.008	-	ND	ND	ND	ND	-	ND	ND	-	0.00	0.01
Silver		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	0.002	0.004	-	ND	ND	ND	ND	-	ND	ND	-	0.00	0.05
Thallium		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	0.0141	ND	ND	0.0042	-	ND	ND	-	0.00	0.0005
Zinc		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.0028	-	ND	0.0059	-	0.00	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																		
Alkalinity	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	221	260	177.3	
Biochemical Oxygen Demand		4.4		2.8		ND		3.4	3.2		4.6			ND	ND		7	ND	6.8	-	-	7.9	5.1	ND	ND	ND	6.1	15.1	3.5	ND	6.2	2.1	2.3	
Boron		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	0.0575	-	0.0	1.0
Chemical Oxygen Demand	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	32.2	85.2	16.1	
Chromium (Hexavalent)		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	0.0099	-	-	ND	ND	-	0.0	0.05
Chloride	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	4.2	7.2	8.3	250
Color (PCU units)		10		100		80		50	50		25			30	80			5	110	-	-	34	38	-	5	10	10	-	-	125	100	-	51.0	15
Nitrate-Nitrite	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	0.11	ND	ND	ND	ND	ND	0.2	10
Nitrogen-Ammonia	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	2.9	2.4	2.4	2.0
Phenols	ND	ND	0.02	ND	ND	0.01	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	0.0105	0.004	0.0	0.001
Sulfate	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	4.7	5.6	10.2	250
Total Organic Carbon (TOC)	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	6.0	7.5	5.9	
Total Dissolved Solids (TDS)	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	318	272	230.3	500
Total Hardness	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	180	200	162.7	
Total Kjeldahl Nitrogen (TKN)		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	3.9	2.9	3.0	3.2	2.5	
Turbidity (NTU units)	10	25.9	7.6	21	26.3	156	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	12.3	278	34.6	5.0
Cyanide		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	-	-	ND	0.002	-	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.

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	09/02	3/03	9/03
PARAMETER VOLATILES (ug/L)																																						
Acetone																																						
Acrylonitrile																																						
Benzene	<DL	ND	<DL			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	
Bromochloromethane	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																											
Bromoform	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	
2-Butanone																																						
n-Butylbenzene	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	
tert-Butylbenzene	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	
Chlorobenzene	ND	ND	<DL			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	
Chloroform	ND	ND	<DL			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	
2-Chlorotoluene	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	
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	
1,2-Dichlorobenzene	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	
1,4-Dichlorobenzene	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	
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	
1,2-Dichloroethane	ND	ND	<DL			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	
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	
trans-1,2-Dichloroethene	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	
1,3-Dichloropropane	ND	ND	0.10			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	
1,1-Dichloropropene	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	
trans-1,3-Dichloropropene	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	
2-Hexanone																																						
Hexachlorobutadiene	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	
p-Isopropyltoluene	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	
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	
n-Propylbenzene	ND	ND	ND			ND	ND		ND		ND				ND				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	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	
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	
Tetrachloroethene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	
Toluene	ND	ND	<DL			ND	ND		ND		1.0				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	
1,2,3-Trichlorobenzene	ND	ND	ND			ND	ND		ND		ND				ND				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	ND		ND	ND	ND	ND	ND		ND		ND	
1,1,1-Trichloroethane	ND	ND	<DL			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	
1,1,2-Trichloroethane	ND	ND	<DL			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	
Trichloroethene	<DL	ND	0.73			ND	ND		ND		0.8				ND				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	ND		ND	ND	ND	ND	ND		ND		ND	
1,2,3-Trichloropropane	ND	ND	ND			ND	ND		ND		ND				ND				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	ND		ND	ND	ND	ND	ND		ND		ND	
1,3,5-Trimethylbenzene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	
Vinyl acetate																																						
Vinyl chloride	ND	ND	<DL			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	
o-Xylene			ND						ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	
p-Xylene & m-Xylene			ND						ND		0.6				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND		ND	

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	09/02	3/03	9/03
PARAMETER METALS (mg/L)																																						
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		8.01	
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		**0.46**	
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		2.12	
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		0.04	
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		1.86	
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		1.36	
PARAMETER (mg/l) TOXIC METALS																																						
Antimony	ND								**0.03**																	ND				ND		ND						
Arsenic	<DL								0.024																	ND				ND		ND						
Barium	ND								0.37																	ND				0.03		0.04						
Beryllium	ND								0																	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	
Chromium (Total)	ND								0.04																	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		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						
PARAMETER (mg/l) LEACHATE INDICATORS																																						
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		21.2	
Biochemical Oxygen Demand	4								ND																	ND				ND		ND						
Boron	ND								0.07																	ND				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		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		ND	
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		0.22	
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		ND	
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		6.41	
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		2.3	
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		62	
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		28.7	
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		**8.8**	
Cyanide	0.013								ND																	ND				ND		ND						

STREAM
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	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	4/19	9/19	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																			
Acetone				ND	ND	ND	3.1	4.9	2.0	ND	ND	ND	1.6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0	ND	ND	ND	0.49	50	
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	0.00	5	
Benzene	ND	ND	ND	ND	ND	ND	ND	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	
Bromobenzene	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	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	ND	0.00	50.0	
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	0.34	ND	ND	ND	ND	ND	ND	ND	ND	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	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	0.00	5.0	
Carbon disulfide				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	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	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	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	
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	ND	0.00	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	0.00	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	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	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	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	-	-	-	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	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	0.00	5.0	
Dichlorodifluoromethane	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-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	0.04	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	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	ND	0.00	5.0	
cis-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	ND	ND	0.06	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	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	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	-	-	-	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	-	-	-	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	-	-	-	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	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	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	-	-	-	-	-	-	-	-	-	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	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	ND	0.15	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	0.00	10	**
Naphthalene	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	**
n-Propylbenzene	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	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	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	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	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	5.0	
1,2,3-Trichlorobenzene	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	
1,2,4-Trichlorobenzene	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-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	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	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	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	
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	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	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	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	
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	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	
1,2,4-Trimethylbenzene	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	
1,3,5-Trimethylbenzene	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	
Vinyl acetate				ND	ND	ND	ND	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	
Vinyl 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	ND	0.00	2.0	
o-Xylene	ND	ND	ND	ND	ND	ND	ND	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-Xylene & m-Xylene	ND	ND	ND	ND	ND	ND	ND	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	

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HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	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	4/19	9/19	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
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	0.208	-	1.27	
Calcium	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	31.2	42	23.70	
Iron	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	0.34	0.079	2.73	0.3
Magnesium	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	12.0	12.0	11.1	9.7	11.1	6.9	7.5	8.8	10.3	9.52	5.46	9.45	9.63	7.74	9.16	12.3	9.27	35
Manganese	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	0.375	2.33	1.32	0.3
Potassium	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	2.49	2.2	1.77	
Sodium	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	3.0	ND	ND	3.18	3.52	3.61	2.29	2.89	3.89	2.73	20.0
PARAMETER (mg/l) TOXIC METALS																																		
Antimony		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	-	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	0.013	-	0.02	1.0
Beryllium		ND		ND		ND		ND	ND		ND				ND			ND	4E-04	-	-	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	0.00	0.005
Chromium (Total)		ND		ND		ND		ND	ND		ND				ND			ND	0.001	-	-	ND	ND	-	ND	ND	ND	ND	-	0.0031	ND	-	0.00	0.05
Copper		ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	0.0046	ND	-	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	ND	ND	0.00	0.025
Mercury		ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	7E-05	-	ND	ND	-	0.00	0.0007
Nickel		ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	ND	ND	0.001	ND	-	0.0013	0.0059	-	0.01	0.1
Selenium		ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	0.003	-	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	ND	-	0.00	0.05
Thallium		ND		ND		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			ND	0.005	-	-	ND	ND	-	ND	ND	0.001	0.003	-	ND	0.0054	-	0.00	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																		
Alkalinity	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	109	145	84.7	
Biochemical Oxygen Demand		ND		ND		ND		ND	ND		ND				ND		ND	6	ND	-	-	ND	ND	ND	ND	ND	1.2	1.0	7.7	ND	1.0	1.8	0.7	
Boron		ND		0.06		ND		0.035	ND		0.069				ND			ND	0.07	-	-	ND	0.04	-	ND	ND	0.018	0.041	-	0.0288	0.0353	-	0.0	1.0
Chemical Oxygen Demand	9	ND	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	10.2	25.6	7.0	
Chromium (Hexavalent)		ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	-	ND	0.007	-	-	ND	ND	-	0.0	0.05
Chloride	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	1.7	3.7	2.8	250
Color (PCU units)		5		10		25		30	20		ND				80			5	12	-	-	34	105	-	15	10	15	-	-	30	5	-	19.2	15
Nitrate-Nitrite	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	0.23	ND	0.28	0.2	0.39	ND	ND	0.074	0.3	10
Nitrogen-Ammonia	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	ND	0.1	0.084	0.028	0.058	0.15	0.044	0.1	2.0
Phenols	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	0.0051	0.0089	ND	0.004	0.0	0.001
Sulfate	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	8.6	8.3	13.2	250
Total Organic Carbon (TOC)	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	3.3	4.9	3.9	
Total Dissolved Solids (TDS)	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	153	168	119.5	500
Total Hardness	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	90	140	84.8	
Total Kjeldahl Nitrogen (TKN)		ND		ND		ND		ND	ND		ND				ND		ND	ND	ND	-	-	0.49	0.86	-	0.17	0.18	0.48	0.15	0.21	0.31	0.38	0.49	0.3	
Turbidity (NTU units)	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	19.7	1.25	17.7	5.0
Cyanide		ND		ND		ND		ND	ND		0.027				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.

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	9/02	3/03	9/03
PARAMETER VOLATILES (ug/L)																																						
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	9/02	3/03	9/03
PARAMETER METALS (mg/L)																																						
Aluminum																																						
Calcium																																						
Iron																																						
Magnesium																																						
Manganese																																						
Potassium																																						
Sodium																																						
PARAMETER (mg/l) TOXIC METALS																																						
Antimony																																						
Arsenic																																						
Barium																																						
Beryllium																																						
Cadmium																																						
Chromium (Total)																																						
Copper																																						
Lead																																						
Mercury																																						
Nickel																																						
Selenium																																						
Silver																																						
Thallium																																						
Zinc																																						
PARAMETER (mg/l) LEACHATE INDICATORS																																						
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
OLEAN, NEW YORK

	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	4/19	9/19	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																			
Acetone				3.5	ND	ND	2.9	3.1	1.9	5.7	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.70345	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	5.0	
Benzene				**13**	ND	ND	**1.4**	**1.5**	**11**	**10**	0.59	0.7	ND	**1.9**	**1.4**	0.86	ND	ND	**1.9**	ND	**7.5**	**7.2**	**1.3**	ND	ND	ND	ND	ND	**1.0**	ND	ND	ND	2.11207	1.0	
Bromobenzene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0	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	0	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	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	0	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	0	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	0	50.0	
n-Butylbenzene				ND	ND	ND	ND	ND	0.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.01655	5.0	
sec-Butylbenzene				0.47	ND	ND	ND	ND	0.68	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.05172	5.0	
tert-Butylbenzene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0	5.0	
Carbon disulfide				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01931	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	0	5.0	
Chlorobenzene				**13**	ND	ND	1.6	1.4	**15**	**12**	0.37	0.44	0.52	2.2	1.7	0.54	ND	3.2	1.6	ND	**8.6**	**9.7**	0.87	ND	ND	ND	ND	ND	1.6	ND	ND	ND	2.56345	5.0	
Chloroethane				2.2	ND	ND	ND	ND	1.6	1.4	ND	0.23	0.26	0.85	0.66	ND	ND	ND	0.69	ND	ND	0.92	0.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.32621	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	7.0	
Chloromethane				0.3	ND	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01966	5.0	
2-Chlorotoluene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0	5.0	
4-Chlorotoluene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0	5.0	
Dibromochloromethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	0.44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01517	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	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	0	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	0	5.0	
1,2-Dichlorobenzene				0.58	ND	ND	ND	ND	0.63	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07379	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	3.0	
1,4-Dichlorobenzene				**3.8**	ND	ND	0.83	0.68	**5**	**3.7**	ND	ND	ND	0.98	0.72	ND	ND	ND	0.51	ND	ND	**3.2**	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.67897	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	5.0	
Dichlorodifluoromethane				1.2	ND	ND	0.37	0.54	ND	ND	ND	0.35	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	**7.6**	-	ND	-	-	-	0.36759	5.0	
1,1-Dichloroethane				**6**	ND	ND	4.3	**5.7**	4.6	**6.5**	**13**	**13**	**14**	2.5	1.4	**14**	ND	ND	**12**	ND	ND	4.7	**14**	ND	**7.9**	ND	**11.5**	ND	1.4	**11.4**	ND	**16.6**	5.67241	5.0	
1,2-Dichloroethane				ND	ND	ND	ND	ND	ND	**0.94**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03241	0.6	
1,1-Dichloroethene				ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00759	5.0	
cis-1,2-Dichloroethene				3.8	ND	ND	**8.4**	**11**	3.2	1.1	**18**	**25**	**33**	**10**	4.6	**20**	ND	**8.3**	**41**	**11**	ND	ND	**54**	ND	**40**	**10.1**	**34.6**	ND	**5.0**	**45.5**	ND	**35.1**	14.5759	5.0	
trans-1,2-Dichloroethene				0.63	ND	ND	0.36	0.47	0.4	0.4	ND	0.37	0.49	0.43	ND	ND	ND	ND	0.95	ND	ND	0.37	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.20241	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	0	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	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	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	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	0	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	0	0.4	*
Ethylbenzene				**10**	ND	ND	ND	ND	**16**	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98966	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	50.0	
Hexachlorobutadiene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0	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	0	5.0	
Isopropylbenzene				1.4	ND	ND	ND	ND	1.8	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.14828	5.0	
p-Isopropyltoluene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0	5.0	
Methylene chloride				0.86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02966	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		
Naphthalene				3.5	ND	ND	ND	ND	5.3	3.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.41724	10.0	
n-Propylbenzene				1.3	ND	ND	ND	ND	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.14828	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	0	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	ND	ND	ND	ND	ND	ND	ND	ND	0	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	ND	ND	ND	ND	ND	ND	ND	ND	0	5.0	
Tetrachloroethene				ND	ND	ND	ND	ND	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	5.0	
Toluene				1.1	ND	ND	ND	ND	1.1	0.45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.10586	5.0	
1,2,3-Trichlorobenzene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0	5.0	
1,2,4-Trichlorobenzene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0	5.0	
1,1,1-Trichloroethane				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	ND	ND	0.07931	5.0	
1,1,2-Trichloroethane				ND	ND	ND	ND	ND	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	1.0	
Trichloroethene				0.74	ND	ND	1.3	0.37	0.65	0.31	1.7	1.8	ND	2	1.1	2.1	ND	ND	2.8	ND	ND	0.32	**5.8**	ND	ND	ND	ND	ND	1.1	ND	ND	ND	0.76172	5.0	
Trichlorofluoromethane				ND	ND	ND	ND	ND	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	5.0	
1,2,3-Trichloropropane				ND	ND	ND	ND	ND	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	0.04	
1,2,4-Trimethylbenzene				**5.4**	ND	ND	ND	ND	4.1	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.36897	5.0	
1,3,5-Trimethylbenzene				1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	0.04138	5.0	
Vinyl acetate				ND	ND	ND	ND	ND	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		
Vinyl chloride				**3.2**	ND	ND	**2.2**	**3.7**	**4.6**	1.3	**2.6**	**4.4**	**4.8**	**7.2**	**2.6**	**3.5**	ND	**5.6**	**9.5**	**5.4**	ND	1.2	**6.9**	ND	ND	ND	**4.9**	ND	**2.2**	**5**	ND	**7.1**	3.03103	2.0	
o-Xylene				1.3	ND	ND	ND	ND	2.1	0.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14931	5.0	
p-Xylene & m-Xylene				**9.3**	ND	ND	ND	0.21	**6.1**	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.72793	5.0	

DUPLICATE
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	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	4/19	9/19	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum				ND		ND		ND	ND		ND			ND	ND			ND	0.008	0	-	ND	ND	-	ND	ND	ND	0.147	-	0.1	0.067	-	0.01464	
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	69.7	77.8	74.3345	
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**	**3.66**	**1.43**	5.16831	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	8.8	20.2	13.8	22.3	9.62	11	25.7	10.3	24.3	17.78	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**	**7.32**	0.014	**3.69**	**7.2**	**2.04**	0.0492	**5.33**	**6.42**	**6.39**	**7.12**	6.18511	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	2.39	2.3	2.82828	
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	6	8.88	9.24276	20.0
PARAMETER (mg/l) TOXIC METALS																																		
Antimony				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			0.017	0.023			ND	0.005	-	-	0.014	0.005	-	ND	0.0163	ND	ND	-	ND	0.0141	-	0.00429	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	0.12	-	0.12386	1.0
Beryllium				ND		ND		ND	ND		ND			ND	ND			ND	0.0002	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	9.1E-06	
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	0.005
Chromium (Total)				ND	ND	ND		ND	0.0055	0.0059	ND	ND		ND	ND			ND	ND	-	-	0.001	ND	-	ND	ND	ND	ND	-	0.0052	ND	-	0.0007	0.05
Copper				ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	0.02	ND	-	ND	ND	ND	ND	-	ND	ND	-	0.00091	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	ND	ND	ND	0.00049	0.025
Mercury				ND	ND	ND		ND	ND	ND	ND	ND		ND				ND	ND	-	-	ND	ND	-	ND	ND	ND	7E-05	-	ND	0.0003	-	1.3E-05	0.0007
Nickel				ND		ND		ND	ND		ND			ND				ND	0.005	-	-	0.005	0.005	-	ND	ND	0.0036	ND	-	0.0045	0.0144	-	0.00179	0.1
Selenium				ND	ND	ND		ND	ND	ND	ND	ND		ND				ND	0.005	-	-	0.006	0.006	-	ND	ND	ND	ND	-	ND	ND	-	0.00071	0.0
Silver				ND	ND	ND		ND	ND	ND	ND	ND		ND				ND	ND	-	-	0.001	0.001	-	ND	ND	ND	ND	-	ND	ND	-	8.3E-05	0.05
Thallium				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			0.0466				0.063	0.004	-	-	0.011	ND	-	ND	0.0221	0.0017	0.0021	-	0.0032	ND	-	0.00732	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																		
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	236	292	279.631	
Biochemical Oxygen Demand				6		ND		3.2	7.4		ND			ND	ND		ND	ND	4	-	-	14.2	3	ND	ND	ND	1	1	ND	ND	1.9	1.8	1.8913	
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	0.039	-	0.0458	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	ND	30	15.8964	
Chromium (Hexavalent)				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	2.3	9.3	10.7759	250
Color (PCU units)				**140**		ND		**60**	**100**		**15**			0	**17.5**			5	**34**	-	-	**380**	**19**	-	5	10	10	-	-	5	**15**	-	37.0682	15
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	0.0064	0.21	ND	ND	ND	0.049	0.13337	10
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	1	0.61	2.26414	2.0
Phenols				ND	ND	**0.016**	ND	ND	**0.0092**	**0.054**	**0.0247**	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**	**0.0141**	**0.004**	0.00943	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	6.3	7.7	7.12897	250
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	2.4	2.4	5.10517	
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	196	306	307	500
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	200	300	248.431	
Total Kjeldahl Nitrogen (TKN)				19.8		ND		2.7	ND		ND			1.31	1.3		ND	1.13	1.25	-	-	9.53	0.86	-	0.4	1.3	0.32	0.2	0.85	0.38	1.1	1	1.88826	
Turbidity (NTU units)				**22.5**	**7.4**	ND	**9.2**	**9**										0	0.3	-	-	**7.1**	ND	-	0.8	0.8	-	-	0	0	0	-	2.855	5.0
Cyanide				ND		ND		ND	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.