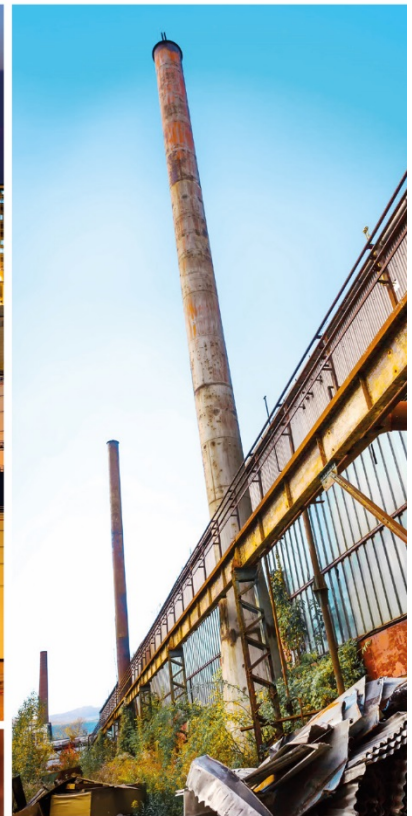
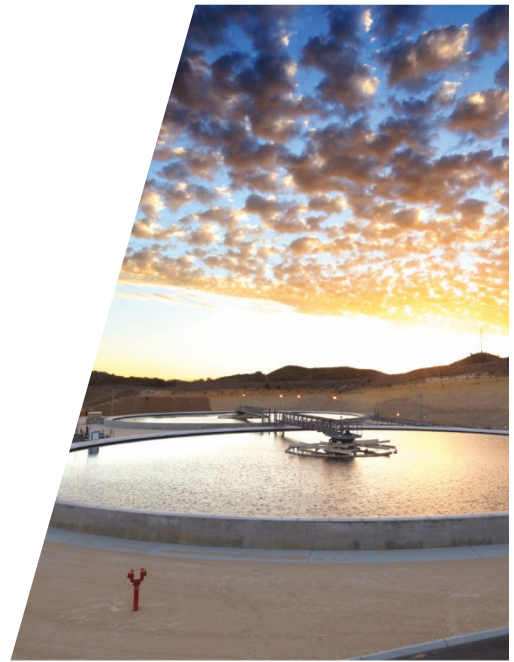




# 2018 Sampling and Analysis Report

Lockport City Landfill  
NYSDEC Site No. 9-32-010

City of Lockport, New York  
Department of Public Works





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## 1. Introduction

The Lockport City Landfill site is located on Oakhurst Street in the City of Lockport, Niagara County, New York. The landfill, assigned the Site Registry Number 9-32-010, is the subject of this report.

The Remedial Action Design, as approved by the New York State Department of Environmental Conservation (NYSDEC) for the site, included a Long-Term Monitoring Plan and Operation and Maintenance Plan. The purpose of the Long-Term Monitoring Plan is to provide information to evaluate and monitor the long-term effectiveness of the remedial work. The Operation and Maintenance Plan includes regular site inspections and analytical testing to identify any potential problems at the landfill that are not being adequately addressed by routine maintenance, and to document the current condition of the landfill. A site plan of the Lockport City Landfill is presented on Figure 1.

The Long-Term Monitoring Program started in 1997; six (6) events were conducted in the first 5 years (two events in 1997 and one event per year afterwards). This is the 2<sup>nd</sup> landfill monitoring event of the 3<sup>rd</sup> Long-Term Monitoring Program contract dated February 14, 2017 between GHD Consulting Services Inc. and the City of Lockport. The present contract includes 5 years of service, with the last year of service scheduled for 2021. The purpose of this report is to present the findings of the 22<sup>nd</sup> sampling event conducted at the Lockport City Landfill on October 1, 2018.

## 2. Long-Term Monitoring

In accordance with the NYSDEC approved Long-Term Monitoring Plan, and included in the Operation and Maintenance Plan, four (4) groundwater wells were sampled by GHD Consulting Services Inc. on October 1, 2018. During sampling of groundwater at Monitoring Well MW-6D, due to a negligible amount of water in the well, groundwater was not tested. Historically, Monitoring Well MW-6D has not been sampled due to lack of available groundwater present at the time of sampling. The outfall that has been sampled in the past was not sampled during the 2018 sampling event due to no flow of water. The outfall pipe was cut and capped in 2018.

The samples were delivered to Pace Analytical, 12065 Lebanon Road, Mt. Juliet, Tennessee 37122, and analyzed for Target Compound List (TCL) VOCs by United States Environmental Protection Agency (USEPA) CLP Statement of Work (SOW) OLM04.2.

Groundwater Field Sampling Logs are presented in Appendix A and Analytical Test Results are provided in Appendix B. Table 1 summarizes analytical testing data from groundwater samples collected from monitoring wells and the outfall for the past 22 years.

Groundwater sampling and analytical testing is presented for the monitoring years of 1997 through 2018. The established action levels for Monitoring Wells MW-8D, MW-9S and MW-9I, and Outfall L2 are noted on Table 1. Analytical test results presented on Table 1 indicate that there were no exceedances detected above the report action levels. Since exceedances did not occur, contingent sampling and analysis are not required. The next sampling event will be scheduled for September 2019 representing year 23 of the Long-Term Monitoring Plan.



In past reporting, 1,2-Dichloroethene (total) was reported in years 1997-2006 as the sum of the detected concentrations of cis-1,2-Dichloroethene and trans-1,2-Dichloroethene. Reporting in 2007 was the first year GHD conducted sampling and reporting. For purposes of presenting the analytical test results in a more definitive manner, analytical test results for reporting years 2007 through 2018 are reported to include detected concentrations of cis-1,2-Dichloroethene and not reported as concentrations of 1,2-Dichloroethene (total).

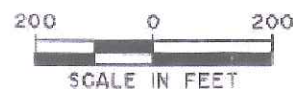
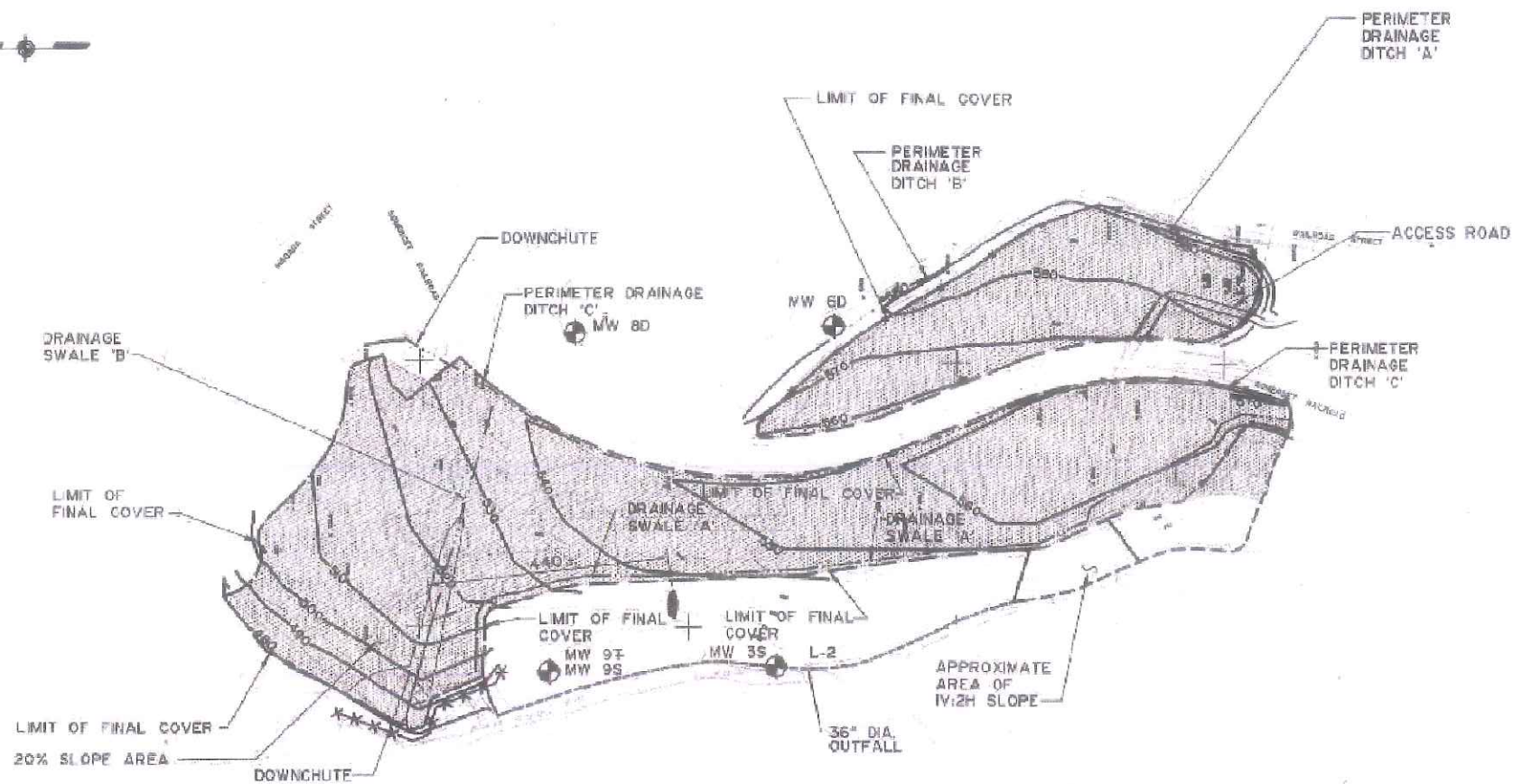
In 2015, volatile organic analytical test results detected concentrations of Carbon Disulfide and 1,1-Dichloroethane in Groundwater sampled from Monitoring Well MW-3S. As reported in 2016 and 2017, Carbon Disulfide and 1,1-Dichloroethane were not detected and reported as non-detectable results in groundwater sampled from Monitoring Well MW-3S. In 2018, volatile organic analytical test results detected concentrations of vinyl chloride, 1,1-Dichloroethane, cis-1,2-Dichloroethene in groundwater sampled from Monitoring Well MW-3S.

In 2017, volatile organic analytical test results detected concentrations of Toluene in groundwater sampled from Monitoring Well MW-6D for the first time since initiating the Long-Term Monitoring Program. It should be noted that historically, Monitoring Well MW-6D has not been sampled in the past due to lack of available groundwater present at the time of sampling. In 2018, purging the well was not completed due to the lack of available groundwater. Samples were not collected from the minimal amount of water that was present in the well at the time of sampling.

In 2018, the volatile organic analytical test results detected concentrations of cis-1,2-Dichloroethene in groundwater sampled from Monitoring Wells MW-3S, MW-8D, and MW-9I. Non-detectable test results were reported from groundwater sampled from Monitoring Wells MW-3S and MW-9S.

The outfall pipe was cut and capped in 2018. No water was available for sampling at Outfall L-2.

## Figures



CLIENTS PEOPLE PERFORMANCE

AMHERST, NEW YORK

JOB No.:8612191

LOCKPORT CITY LANDFILL  
LOCKPORT, NEW YORK  
CITY OF LOCKPORT

FIGURE 1  
SITE PLAN

## Tables



**TABLE 1**  
**MONITORING WELL 3S**  
**GROUNDWATER ANALYTICAL TEST RESULTS**  
**LOCKPORT CITY LANDFILL**

Volatile Compounds	Units	Action Level	Jun-97	Nov-97	Sep-98	Sep-99	Sep-00	Sep-01	Oct-02	Dec-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Oct-12	Oct-13	Oct-14	Oct-15	Oct-16	Oct-17	Oct-18
Chloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Vinyl chloride	µg/L	NS	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	1.17
Bromomethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Acetone	µg/L	NS	U	U	U	U	U	U	U	U	U	U	6 J	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Carbon disulfide	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	1.2	1.1	U	U
Methylene chloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	µg/L	NS	U	U	U	U	U	U	U	U	U	U	U	-	-	-	-	-	-	-	-	-	-	-	-
trans-1, 2-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	µg/L	NS	U	U	U	U	U	U	U	U	U	1 J	U	U	3J	2J	3J	2.8 J	U	1.8	1.4	1.6	U	U	2.5
2-Butanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	4 J	3J	2J	4J	3.2 J	U	U	U	U	U	U	1.8
Chloroform	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Carbon tetrachloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Benzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	µg/L	NS	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Toluene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
2-Hexanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
m,p-Xylene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
o-Xylene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Styrene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Bromoform	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U

**Notes:**  
VOC analysis by USEPA CLP SOW OLM04.2  
U = not detected above the quantitation limit  
J = estimated concentration  
NS = no standard  
- = not sampled  
1,2-Dichloroethene (Total) is reported in years (1997-2006) as the sum of the detected concentrations of cis-1,2-Dichloroethene and trans-1,2-Dichloroethene



**TABLE 1 (Cont'd)**  
**MONITORING WELL 6D**  
**GROUNDWATER ANALYTICAL RESULTS**  
**LOCKPORT CITY LANDFILL**

<b>Volatile Compounds</b>	<b>Units</b>	<b>Action Level</b>	<b>Jun-97</b>	<b>Nov-97</b>	<b>Sep-98</b>	<b>Sep-99</b>	<b>Sep-00</b>	<b>Sep-01</b>	<b>Oct-02</b>	<b>Dec-03</b>	<b>Oct-04</b>	<b>Oct-05</b>	<b>Oct-06</b>	<b>Oct-07</b>	<b>Oct-08</b>	<b>Oct-09</b>	<b>Oct-10</b>	<b>Oct-11</b>	<b>Oct-12</b>	<b>Oct-13</b>	<b>Oct-14</b>	<b>Oct-15</b>	<b>Oct-16</b>	<b>Oct-17</b>	<b>Oct-18</b>
Chloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
Vinyl chloride	µg/L	NS	U	U	U	U	U	U	U	U	U	U	U	-	-	-	-	-	-	U	U	U	-	U	-
Bromomethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
Chloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
Acetone	µg/L	NS	U	U	U	U	U	U	U	U	U	2 J	16	-	-	-	-	-	-	U	U	U	-	U	-
1,1-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
Carbon disulfide	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
Methylene chloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
1,2-Dichloroethene (total)	µg/L	NS	U	U	U	U	U	U	U	U	U	U	U	-	-	-	-	-	-	-	-	-	-	-	-
trans-1, 2-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
1,1-Dichloroethane	µg/L	NS	U	U	U	U	U	U	U	U	U	U	U	-	-	-	-	-	-	U	U	U	-	U	-
2-Butanone	µg/L	NS	U	U	U	U	U	U	U	U	U	U	1 J	-	-	-	-	-	-	U	U	U	-	U	-
cis-1,2-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
Chloroform	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
1,1,1-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
Carbon tetrachloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
Benzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
1,2-Dichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
Trichloroethene	µg/L	NS	U	U	U	U	U	U	U	U	U	U	U	-	-	-	-	-	-	U	U	U	-	U	-
1,2-Dichloropropane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
Bromodichloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
4-Methyl-2-pentanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
cis-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
Toluene	µg/L	NS	U	U	U	U	U	U	U	U	U	2 J	2 J	-	-	-	-	-	-	U	U	U	-	1.62	-
trans-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
1,1,2-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
2-Hexanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
Tetrachloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
Dibromochloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
Chlorobenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
Ethylbenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
Xylene (Total)	µg/L	NS	U	U	U	U	U	U	U	U	U	U	U	-	-	-	-	-	-	U	U	U	-	U	-
Styrene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
Bromoform	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-
1,1,2,2-Tetrachloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-

**Notes:**

VOC analysis by USEPA CLP SOW OLM04.2

U = not detected above the quantitation limit

J = estimated concentration

- = not sampled

NS = no standard

2007, 2008, 2009, 2010, 2011, 2012 : MW-6D not sampled due to dry conditions, no groundwater available

**TABLE 1 (Cont'd)**  
**MONITORING WELL 8D**  
**GROUNDWATER ANALYTICAL TEST RESULTS**  
**LOCKPORT CITY LANDFILL**

Volatile Compounds	Units	Action Level	Jun-97	Nov-97	Sep-98	Sep-99	Sep-00	Sep-01	Oct-02	Dec-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Oct-12	Oct-13	Oct-14	Oct-15	Oct-16	Oct-17	Oct-18
Chloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Vinyl chloride	µg/L	162	U	U	U	U	U	7	33	6	4 J	U	U	U	U	U	U	U	11	11	2.1	U	U	U	U
Bromomethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Acetone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Carbon disulfide	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Methylene chloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	µg/L	1,580	100	90	110	18	25	41	120	7	28	27 J	40	-	-	-	-	-	-	-	-	-	-	-	-
trans-1, 2-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
2-Butanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	32	34	26	23	24	65	26	21	22	20	9	19
Chloroform	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Carbon tetrachloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Benzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	µg/L	260	2	4	5	2	2	2	U	U	U	U	1 J	U	U	U	U	3.2 J	U	U	U	U	U	U	U
1,2-Dichloropropane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Toluene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1,1,2-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
2-Hexanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
m,p-Xylene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
o-Xylene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Styrene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Bromoform	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U

**Notes:**

VOC analysis by USEPA CLP SOW OLM04.2

U = not detected above the quantitation limit

J = estimated concentration

NS = no standard

- = not sampled

1,2-Dichloroethene (Total) is reported in years (1997-2006) as the sum of the detected concentrations of cis-1,2-Dichloroethene and trans-1,2-Dichloroethene

**TABLE 1 (Cont'd)**  
**MONITORING WELL 9S**  
**GROUNDWATER ANALYTICAL TEST RESULTS**  
**LOCKPORT CITY LANDFILL**

Volatile Compounds	Units	Action Level	Jun-97	Nov-97	Sep-98	Sep-99	Sep-00	Sep-01	Oct-02	Dec-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Oct-12	Oct-13	Oct-14	Oct-15	Oct-16	Oct-17	Oct-18
Chloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Vinyl chloride	µg/L	162	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Bromomethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Acetone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Carbon disulfide	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Methylene chloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	µg/L	1,580	U	U	U	U	U	U	U	U	U	U	U	-	-	-	-	-	-	-	-	-	-	-	-
trans-1, 2-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
2-Butanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	2	U	U	U	U
Chloroform	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Carbon tetrachloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Benzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	µg/L	260	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Toluene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
2-Hexanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
m,p-Xylene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
o-Xylene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Styrene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Bromoform	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1,1,2,2-Tetrachloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U

**Notes:**

VOC analysis by USEPA CLP SOW OLM04.2

U = not detected above the quantitation limit

J = estimated concentration

NS = no standard

- = not sampled

1,2-Dichloroethene (Total) is reported in years (1997-2006) as the sum of the detected concentrations of cis-1,2-Dichloroethene and trans-1,2-Dichloroethene

**TABLE 1 (Cont'd)**  
**MONITORING WELL 9I**  
**GROUNDWATER ANALYTICAL TEST RESULTS**  
**LOCKPORT CITY LANDFILL**

Volatile Compounds	Units	Action Level	Jun-97	Nov-97	Sep-98	Sep-99	Sep-00	Sep-01	Oct-02	Dec-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Oct-12	Oct-13	Oct-14	Oct-15	Oct-16	Oct-17	Oct-18
Chloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Vinyl chloride	µg/L	24	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Bromomethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Acetone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Carbon disulfide	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Methylene chloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	µg/L	42	8.4	6	6	5	4 J	4 J	4 J	4 J	3 J	3 J	2 J	-	-	-	-	-	-	-	-	-	-	-	-
trans-1, 2-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
2-Butanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	3 J	2J	U	2J	U	U	1.3	U	1.8	1.9	1.4	1.8
Chloroform	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Carbon tetrachloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Benzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	µg/L	NS	1.6	2	2	1 J	1 J	1 J	1 J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Toluene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
2-Hexanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
m,p-Xylene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
o-Xylene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Styrene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
Bromoform	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U
1,1,1,2,2-Tetrachloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U

**Notes:**

VOC analysis by USEPA CLP SOW OLM04.2

U = not detected above the quantitation limit

J = estimated concentration

NS = no standard

- = not sampled

1,2-Dichloroethene (Total) is reported in years (1997-2006) as the sum of the detected concentrations of cis-1,2-Dichloroethene and trans-1,2-Dichloroethene

**TABLE 1 (Cont'd)**  
**OUTFALL L-2**  
**GROUNDWATER ANALYTICAL TEST RESULTS**  
**LOCKPORT CITY LANDFILL**

<b>Volatile Compounds</b>	<b>Units</b>	<b>Action Level</b>	<b>Jun-97</b>	<b>Nov-97</b>	<b>Sep-98</b>	<b>Sep-99</b>	<b>Sep-00</b>	<b>Sep-01</b>	<b>Oct-02</b>	<b>Dec-03</b>	<b>Oct-04</b>	<b>Oct-05</b>	<b>Oct-06</b>	<b>Oct-07</b>	<b>Oct-08</b>	<b>Oct-09</b>	<b>Oct-10</b>	<b>Oct-11</b>	<b>Oct-12</b>	<b>Oct-13</b>	<b>Oct-14</b>	<b>Oct-15</b>	<b>Oct-16</b>	<b>Oct-17</b>	<b>Oct-18</b>
Chloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
Vinyl chloride	µg/L	94	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	-
Bromomethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
Chloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
Acetone	µg/L	NS	U	U	U	U	U	U	U	U	U	2 J	U	U	U	U	U	U	U	U	U	U	U	U	-
1,1-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
Carbon disulfide	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
Methylene chloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
1,2-Dichloroethene (total)	µg/L	280	U	2	U	U	U	U	U	U	U	U	U	-	-	-	-	-	-	-	-	-	-	-	-
trans-1, 2-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
1,1-Dichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
2-Butanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
cis-1,2-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
Chloroform	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
1,1,1-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
Carbon tetrachloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
Benzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
1,2-Dichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
Trichloroethene	µg/L	NS	U	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	-
1,2-Dichloropropane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
Bromodichloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
4-Methyl-2-pentanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
cis-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
Toluene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
trans-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
1,1,2-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
2-Hexanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
Tetrachloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
Dibromochloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
Chlorobenzene	µg/L	NS	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	-
Ethylbenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
m,p-Xylene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
o-Xylene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
Styrene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
Bromoform	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-
1,1,2,2-Tetrachloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-

**Notes:**

VOC analysis by USEPA CLP SOW OLM04.2

U = not detected above the quantitation limit

J = estimated concentration

NS = no standard

- = not sampled for

1,2-Dichloroethene (Total) is reported in years (1997-2006) as the sum of the detected concentrations of cis-1,2-Dichloroethene and trans-1,2-Dichloroethene

# Appendices

# Appendix A

## Groundwater Sampling and Well Logs



**GHD INC.**  
**GROUNDWATER FIELD SAMPLING RECORD**

SITE Lockport City Landfill DATE 10/01/18

Sampler: Chad Johnson SAMPLE ID MW-8D

Depth of well (from top of casing)..... 76.64 ft  
Initial static water level (from top of casing).... 72.3 ft

Evacuation Method:

Well Volume Calculation

Submersible	<u>                    </u>	Centrifugal	<u>                    </u>	2in. casing:	<u>4.34</u> ft. of water x .16 =	<u>0.69</u> gallons
Airlift	<u>                    </u>	Pos. Displ.	<u>                    </u>	3in. casing:	<u>                    </u> ft. of water x .36 =	<u>                    </u> gallons
Bailer	<u>X</u>	>>> No. of bails	<u>                    </u>	4in. casing:	<u>                    </u> ft. of water x .65 =	<u>                    </u> gallons

Volume of water removed 1.00 gals.  
> 3 volumes:      yes ☐ no ☐  
dry:                      ☐ yes ☐ no ☐

Field Tests:

Temp:	<u>10.8</u> C
pH	<u>5.89</u>
Conductivity	<u>2.29</u> mS/cm
DO	<u>6.81</u> mg/l
Turbidity	<u>N/A</u> NTUs
Salinity	<u>0.1</u> %

Sampling: Time: 12:53 pm

Sampling Method:

Stainless Steel Bailer	<u>                    </u>
Disposable Bailer	<u>X</u>
Disposable Pump	<u>                    </u>
Other	<u>                    </u>

Observations:

Weather/Temperature: Rain, overcast, 51°

Physical Appearance and Odor of Sample: Clear

Comments: Well purged dry after 1.0 gallons.  
Well pad is intact and the stickup protective cover is in good condition.

**GHD INC.**  
**GROUNDWATER FIELD SAMPLING RECORD**

SITE Lockport City Landfill DATE 10/01/18

Sampler: Chad Johnson SAMPLE ID MW-6D

Depth of well (from top of casing)..... 77.12 ft  
Initial static water level (from top of casing).... 77.1 ft

Evacuation Method:

Well Volume Calculation

Submersible	<u>          </u>	Centrifugal	<u>          </u>	2in. casing:	<u>0.00</u> ft. of water x .16 =	<u>0.00</u> gallons
Airlift	<u>          </u>	Pos. Displ.	<u>          </u>	3in. casing:	<u>          </u> ft. of water x .36 =	<u>          </u> gallons
Bailer	<u>  X  </u>	>>> No. of bails	<u>          </u>	4in. casing:	<u>          </u> ft. of water x .65 =	<u>          </u> gallons

Volume of water removed 0.00 gals.  
> 3 volumes:      yes ☐ no ☐  
dry:                ☐ yes ☐ no ☐

Field Tests:      Temp:            C  
                    pH             
                    Conductivity            mS/cm  
                    DO            mg/l  
                    Turbidity            NTUs  
                    Oxidation Reduction Potential(ORP)            mV  
                    Salinity            %

Sampling: Time: 1:23 pm

Sampling Method:      Stainless Steel Bailer             
                            Disposable Bailer   X    
                            Disposable Pump             
                            Other           

Observations:

Weather/Temperature: Rain, 45°

Physical Appearance and Odor of Sample: Clear

Comments: Well was dry upon inspection, no water collected, samples could not be taken.  
Well pad is intact and the stickup protective cover is in good condition.

**GHD INC.**  
**GROUNDWATER FIELD SAMPLING RECORD**

SITE Lockport City Landfill DATE 10/01/18

Sampler: Chad Johnson SAMPLE ID MW-9S

Depth of well (from top of casing)..... 12.3 ft  
Initial static water level (from top of casing).... 7.1 ft

Evacuation Method:

Well Volume Calculation

Submersible	<u>                    </u>	Centrifugal	<u>                    </u>	2in. casing:	<u>5.21</u> ft. of water x .16 =	<u>0.83</u> gallons
Airlift	<u>                    </u>	Pos. Displ.	<u>                    </u>	3in. casing:	<u>                    </u> ft. of water x .36 =	<u>                    </u> gallons
Bailer	<u>X</u>	>>> No. of bails	<u>                    </u>	4in. casing:	<u>                    </u> ft. of water x .65 =	<u>                    </u> gallons

Volume of water removed 2.50 gals.  
> 3 volumes: 

yes
-----

 no  
dry: yes 

no
----

Field Tests:	Temp:	<u>15.5</u> C
	pH	<u>5.66</u>
	Conductivity	<u>2.05</u> mS/cm
	DO	<u>5.05</u> mg/l
	Turbidity	<u>N/A</u> NTUs
	Salinity	<u>0.1</u> %

Sampling: Time: 11:35 am

Sampling Method: Stainless Steel Bailer                       
Disposable Bailer X  
Disposable Pump                       
Other                     

Observations:

Weather/Temperature: Rain, 45°

Physical Appearance and Odor of Sample: Light brown, then very turbid yellow, no odor.

Comments: Well pad is intact and the stickup protective cover is in good condition.

**GHD INC.**  
**GROUNDWATER FIELD SAMPLING RECORD**

SITE Lockport City Landfill DATE 10/01/18

Sampler: Chad Johnson SAMPLE ID MW-9I

Depth of well (from top of casing)..... 19.95 ft  
Initial static water level (from top of casing).... 6.2 ft

Evacuation Method:

Well Volume Calculation

Submersible	<u>                    </u>	Centrifugal	<u>                    </u>	2in. casing:	<u>13.75</u> ft. of water x .16 =	<u>2.20</u> gallons
Airlift	<u>                    </u>	Pos. Displ.	<u>                    </u>	3in. casing:	<u>                    </u> ft. of water x .36 =	<u>                    </u> gallons
Bailer	<u>  X  </u>	>>> No. of bails	<u>                    </u>	4in. casing:	<u>                    </u> ft. of water x .65 =	<u>                    </u> gallons

Volume of water removed 6.60 gals.  
> 3 volumes: yes no  
dry: yes no

Field Tests: Temp: 13.08 C  
pH 5.73  
Conductivity 1.72 mS/cm  
DO 5.62 mg/l  
Turbidity N/A NTUs  
Salinity 0.1 %

Sampling: Time: 12:16 P.M.

Sampling Method: Stainless Steel Bailer                       
Disposable Bailer   X    
Disposable Pump                       
Other                     

Observations:

Weather/Temperature: Rain, 51°

Physical Appearance and Odor of Sample: no odor, yellow, then mostly clear

Comments: Well pad is intact and the stickup protective cover is in good condition. No lock present on MW.  
Lock needs replacement.

**GHD INC.**  
**GROUNDWATER FIELD SAMPLING RECORD**

SITE Lockport City Landfill DATE 10/01/18

Sampler: Chad Johnson SAMPLE ID MW-3S

Depth of well (from top of casing)..... 13.2 ft  
Initial static water level (from top of casing).... 3.6 ft

Evacuation Method:

Well Volume Calculation

Submersible	<u>                    </u>	Centrifugal	<u>                    </u>	2in. casing:	<u>9.62</u> ft. of water x .16 =	<u>1.54</u> gallons
Airlift	<u>                    </u>	Pos. Displ.	<u>                    </u>	3in. casing:	<u>                    </u> ft. of water x .36 =	<u>                    </u> gallons
Bailer	<u>X</u>	>>> No. of bails	<u>                    </u>	4in. casing:	<u>                    </u> ft. of water x .65 =	<u>                    </u> gallons

Volume of water removed 4.62 gals.  
> 3 volumes: yes no  
dry: yes no

Field Tests: Temp: 14.83 C  
pH 5.78  
Conductivity 3.85 mS/cm  
DO 3.41 mg/l  
Turbidity N/A NTUs  
Salinity 0.20 %

Sampling: Time: 10:45 am

Sampling Method: Stainless Steel Bailer                       
Disposable Bailer X  
Disposable Pump                       
Other                     

Observations:

Weather/Temperature: Rain, Overcast, 52°

Physical Appearance and Odor of Sample: No odor, reddish-brown color, then dark brown, then brown

Comments: No obstruction in well was encountered.  
Debris around monitoring well. Well pad is intact and the stickup protective cover is in good condition.  
There are two monitoring wells at this location. MW-3S should be more clearly identifiable with label.  
Vegetation around wells should be removed for better access and visibility.

**GHD INC.**  
**SURFACE WATER FIELD SAMPLING RECORD**

SITE Lockport City Landfill

DATE 10/01/18

Samplers: Chad Johnson

SAMPLE ID Outfall L-2

Sampling Method: **WATER COULD NOT BE COLLECTED**

Submersible \_\_\_\_\_ Centrifugal \_\_\_\_\_

Airlift \_\_\_\_\_ Pos. Displ. \_\_\_\_\_

Bailer \_\_\_\_\_ >>> No. of bails \_\_\_\_\_

Field Tests: Temp: \_\_\_\_\_ C  
pH \_\_\_\_\_  
Conductivity \_\_\_\_\_ mS/cm  
DO \_\_\_\_\_ mg/l  
Turbidity \_\_\_\_\_ NTUs  
Salinity \_\_\_\_\_ %

Sampling: \_\_\_\_\_ Time: 9:30 am

Sampling Method: Stainless Steel Bailer \_\_\_\_\_  
Teflon Bailer \_\_\_\_\_  
Disposable Pump \_\_\_\_\_  
Other \_\_\_\_\_

Observations:

Weather/Temperature: Rain, overcast, 51°

Physical Appearance and Odor of Sample: No observable water

Comments: Outfall pipe was cut and plugged by City, no flow, water could not be collected or sampled.

# Appendix B

## Analytical Test Results



# ANALYTICAL REPORT

October 05, 2018

## GHD

Sample Delivery Group: L1030910  
Samples Received: 10/02/2018  
Project Number: 8612191-01-  
Description: Lockport Landfill  
Site: LANDFILL  
Report To: Mr. Dave Rowlinson  
285 Delaware Ave.  
Suite 500  
Buffalo, NY 14202

Entire Report Reviewed By:



T. Alan Harvill  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1	<sup>1</sup> Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	<sup>2</sup> Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	<sup>3</sup> Ss
MW-9S L1030910-01	5	
MW-9I L1030910-02	6	<sup>4</sup> Cn
MW-3S L1030910-03	7	<sup>5</sup> Sr
MW-8D L1030910-04	8	
TRIP BLANK L1030910-05	9	<sup>6</sup> Qc
Qc: Quality Control Summary	10	
Volatile Organic Compounds (GC/MS) by Method 8260C	10	<sup>7</sup> Gl
Gl: Glossary of Terms	13	<sup>8</sup> Al
Al: Accreditations & Locations	14	
Sc: Sample Chain of Custody	15	<sup>9</sup> Sc



## MW-9S L1030910-01 GW

			Collected by Chad Johnson	Collected date/time 10/01/18 11:35	Received date/time 10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1175758	1	10/04/18 14:37	10/04/18 14:37	DWR

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## MW-9I L1030910-02 GW

			Collected by Chad Johnson	Collected date/time 10/01/18 12:16	Received date/time 10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1175758	1	10/04/18 14:57	10/04/18 14:57	DWR

## MW-3S L1030910-03 GW

			Collected by Chad Johnson	Collected date/time 10/01/18 10:45	Received date/time 10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1175758	1	10/04/18 15:18	10/04/18 15:18	DWR

## MW-8D L1030910-04 GW

			Collected by Chad Johnson	Collected date/time 10/01/18 12:53	Received date/time 10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1175758	1	10/04/18 15:38	10/04/18 15:38	DWR

## TRIP BLANK L1030910-05 GW

			Collected by Chad Johnson	Collected date/time 10/01/18 00:00	Received date/time 10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1175758	1	10/04/18 11:16	10/04/18 11:16	BMB



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

T. Alan Harvill  
Project Manager

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

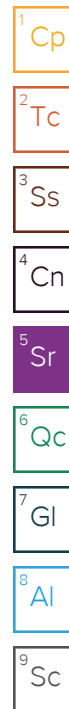


Collected date/time: 10/01/18 11:35

L1030910

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Benzene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Bromochloromethane	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Bromodichloromethane	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Bromoform	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Bromomethane	ND		5.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Carbon disulfide	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Carbon tetrachloride	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Chlorobenzene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Chlorodibromomethane	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Chloroethane	ND		5.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Chloroform	ND		5.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Chloromethane	ND		2.50	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Cyclohexane	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
1,2-Dibromoethane	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
1,2-Dichlorobenzene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
1,3-Dichlorobenzene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
1,4-Dichlorobenzene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Dichlorodifluoromethane	ND		5.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
1,1-Dichloroethane	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
1,2-Dichloroethane	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
1,1-Dichloroethene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
cis-1,2-Dichloroethene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
trans-1,2-Dichloroethene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
1,2-Dichloropropane	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
cis-1,3-Dichloropropene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
trans-1,3-Dichloropropene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Ethylbenzene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
2-Hexanone	ND		10.0	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Isopropylbenzene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
2-Butanone (MEK)	ND		10.0	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Methyl Acetate	ND		20.0	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Methyl Cyclohexane	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Methylene Chloride	ND		5.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Methyl tert-butyl ether	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Styrene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Tetrachloroethene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Toluene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
1,2,3-Trichlorobenzene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
1,2,4-Trichlorobenzene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
1,1,1-Trichloroethane	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
1,1,2-Trichloroethane	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Trichloroethene	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Trichlorofluoromethane	ND		5.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Vinyl chloride	ND		1.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
Xylenes, Total	ND		3.00	1	10/04/2018 14:37	<a href="#">WG1175758</a>
(S) Toluene-d8	106		80.0-120		10/04/2018 14:37	<a href="#">WG1175758</a>
(S) Dibromofluoromethane	102		75.0-120		10/04/2018 14:37	<a href="#">WG1175758</a>
(S) a,a,a-Trifluorotoluene	104		80.0-120		10/04/2018 14:37	<a href="#">WG1175758</a>
(S) 4-Bromofluorobenzene	92.8		77.0-126		10/04/2018 14:37	<a href="#">WG1175758</a>



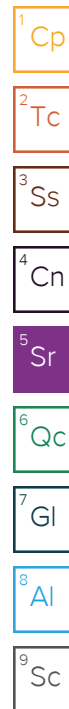


Collected date/time: 10/01/18 12:16

L1030910

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Benzene	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Bromochloromethane	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Bromodichloromethane	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Bromoform	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Bromomethane	ND		5.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Carbon disulfide	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Carbon tetrachloride	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Chlorobenzene	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Chlorodibromomethane	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Chloroethane	ND		5.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Chloroform	ND		5.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Chloromethane	ND		2.50	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Cyclohexane	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
1,2-Dibromoethane	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
1,2-Dichlorobenzene	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
1,3-Dichlorobenzene	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
1,4-Dichlorobenzene	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Dichlorodifluoromethane	ND		5.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
1,1-Dichloroethane	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
1,2-Dichloroethane	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
1,1-Dichloroethene	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
cis-1,2-Dichloroethene	1.79		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
trans-1,2-Dichloroethene	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
1,2-Dichloropropane	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
cis-1,3-Dichloropropene	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
trans-1,3-Dichloropropene	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Ethylbenzene	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
2-Hexanone	ND		10.0	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Isopropylbenzene	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
2-Butanone (MEK)	ND		10.0	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Methyl Acetate	ND		20.0	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Methyl Cyclohexane	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Methylene Chloride	ND		5.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Methyl tert-butyl ether	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Styrene	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Tetrachloroethene	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Toluene	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
1,2,3-Trichlorobenzene	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
1,2,4-Trichlorobenzene	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
1,1,1-Trichloroethane	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
1,1,2-Trichloroethane	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Trichloroethene	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Trichlorofluoromethane	ND		5.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Vinyl chloride	ND		1.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
Xylenes, Total	ND		3.00	1	10/04/2018 14:57	<a href="#">WG1175758</a>
(S) Toluene-d8	111		80.0-120		10/04/2018 14:57	<a href="#">WG1175758</a>
(S) Dibromofluoromethane	104		75.0-120		10/04/2018 14:57	<a href="#">WG1175758</a>
(S) a,a,a-Trifluorotoluene	104		80.0-120		10/04/2018 14:57	<a href="#">WG1175758</a>
(S) 4-Bromofluorobenzene	95.5		77.0-126		10/04/2018 14:57	<a href="#">WG1175758</a>



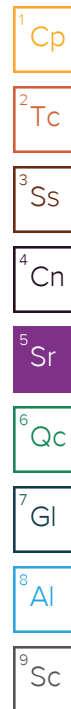


Collected date/time: 10/01/18 10:45

L1030910

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Benzene	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Bromochloromethane	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Bromodichloromethane	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Bromoform	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Bromomethane	ND		5.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Carbon disulfide	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Carbon tetrachloride	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Chlorobenzene	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Chlorodibromomethane	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Chloroethane	ND		5.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Chloroform	ND		5.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Chloromethane	ND		2.50	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Cyclohexane	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
1,2-Dibromoethane	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
1,2-Dichlorobenzene	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
1,3-Dichlorobenzene	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
1,4-Dichlorobenzene	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Dichlorodifluoromethane	ND		5.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
1,1-Dichloroethane	2.52		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
1,2-Dichloroethane	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
1,1-Dichloroethene	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
cis-1,2-Dichloroethene	1.84		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
trans-1,2-Dichloroethene	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
1,2-Dichloropropane	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
cis-1,3-Dichloropropene	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
trans-1,3-Dichloropropene	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Ethylbenzene	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
2-Hexanone	ND		10.0	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Isopropylbenzene	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
2-Butanone (MEK)	ND		10.0	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Methyl Acetate	ND		20.0	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Methyl Cyclohexane	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Methylene Chloride	ND		5.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Methyl tert-butyl ether	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Styrene	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Tetrachloroethene	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Toluene	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
1,2,3-Trichlorobenzene	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
1,2,4-Trichlorobenzene	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
1,1,1-Trichloroethane	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
1,1,2-Trichloroethane	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Trichloroethene	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Trichlorofluoromethane	ND		5.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Vinyl chloride	1.17		1.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
Xylenes, Total	ND		3.00	1	10/04/2018 15:18	<a href="#">WG1175758</a>
(S) Toluene-d8	99.9		80.0-120		10/04/2018 15:18	<a href="#">WG1175758</a>
(S) Dibromofluoromethane	104		75.0-120		10/04/2018 15:18	<a href="#">WG1175758</a>
(S) a,a,a-Trifluorotoluene	99.8		80.0-120		10/04/2018 15:18	<a href="#">WG1175758</a>
(S) 4-Bromofluorobenzene	102		77.0-126		10/04/2018 15:18	<a href="#">WG1175758</a>





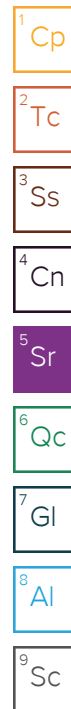


Collected date/time: 10/01/18 12:53

L1030910

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Benzene	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Bromochloromethane	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Bromodichloromethane	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Bromoform	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Bromomethane	ND		5.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Carbon disulfide	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Carbon tetrachloride	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Chlorobenzene	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Chlorodibromomethane	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Chloroethane	ND		5.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Chloroform	ND		5.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Chloromethane	ND		2.50	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Cyclohexane	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
1,2-Dibromoethane	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
1,2-Dichlorobenzene	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
1,3-Dichlorobenzene	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
1,4-Dichlorobenzene	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Dichlorodifluoromethane	ND		5.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
1,1-Dichloroethane	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
1,2-Dichloroethane	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
1,1-Dichloroethene	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
cis-1,2-Dichloroethene	19.4		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
trans-1,2-Dichloroethene	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
1,2-Dichloropropane	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
cis-1,3-Dichloropropene	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
trans-1,3-Dichloropropene	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Ethylbenzene	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
2-Hexanone	ND		10.0	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Isopropylbenzene	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
2-Butanone (MEK)	ND		10.0	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Methyl Acetate	ND		20.0	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Methyl Cyclohexane	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Methylene Chloride	ND		5.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Methyl tert-butyl ether	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Styrene	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Tetrachloroethene	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Toluene	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
1,2,3-Trichlorobenzene	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
1,2,4-Trichlorobenzene	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
1,1,1-Trichloroethane	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
1,1,2-Trichloroethane	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Trichloroethene	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Trichlorofluoromethane	ND		5.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Vinyl chloride	ND		1.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
Xylenes, Total	ND		3.00	1	10/04/2018 15:38	<a href="#">WG1175758</a>
(S) Toluene-d8	108		80.0-120		10/04/2018 15:38	<a href="#">WG1175758</a>
(S) Dibromofluoromethane	110		75.0-120		10/04/2018 15:38	<a href="#">WG1175758</a>
(S) a,a,a-Trifluorotoluene	105		80.0-120		10/04/2018 15:38	<a href="#">WG1175758</a>
(S) 4-Bromofluorobenzene	111		77.0-126		10/04/2018 15:38	<a href="#">WG1175758</a>





## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Benzene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Bromochloromethane	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Bromodichloromethane	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Bromoform	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Bromomethane	ND		5.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Carbon disulfide	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Carbon tetrachloride	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Chlorobenzene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Chlorodibromomethane	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Chloroethane	ND		5.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Chloroform	ND		5.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Chloromethane	ND		2.50	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Cyclohexane	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
1,2-Dibromoethane	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
1,2-Dichlorobenzene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
1,3-Dichlorobenzene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
1,4-Dichlorobenzene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Dichlorodifluoromethane	ND		5.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
1,1-Dichloroethane	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
1,2-Dichloroethane	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
1,1-Dichloroethene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
cis-1,2-Dichloroethene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
trans-1,2-Dichloroethene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
1,2-Dichloropropane	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
cis-1,3-Dichloropropene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
trans-1,3-Dichloropropene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Ethylbenzene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
2-Hexanone	ND		10.0	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Isopropylbenzene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
2-Butanone (MEK)	ND		10.0	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Methyl Acetate	ND		20.0	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Methyl Cyclohexane	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Methylene Chloride	ND		5.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Methyl tert-butyl ether	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Styrene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Tetrachloroethene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Toluene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
1,2,3-Trichlorobenzene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
1,2,4-Trichlorobenzene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
1,1,1-Trichloroethane	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
1,1,2-Trichloroethane	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Trichloroethene	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Trichlorofluoromethane	ND		5.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Vinyl chloride	ND		1.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
Xylenes, Total	ND		3.00	1	10/04/2018 11:16	<a href="#">WG1175758</a>
(S) Toluene-d8	97.9		80.0-120		10/04/2018 11:16	<a href="#">WG1175758</a>
(S) Dibromofluoromethane	106		75.0-120		10/04/2018 11:16	<a href="#">WG1175758</a>
(S) a,a,a-Trifluorotoluene	91.7		80.0-120		10/04/2018 11:16	<a href="#">WG1175758</a>
(S) 4-Bromofluorobenzene	92.0		77.0-126		10/04/2018 11:16	<a href="#">WG1175758</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3347782-3 10/04/18 10:36

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Benzene	U		0.331	1.00
Bromodichloromethane	U		0.380	1.00
Bromochloromethane	U		0.520	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
Carbon disulfide	U		0.275	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
Cyclohexane	U		0.390	1.00
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
Dichlorodifluoromethane	U		0.551	5.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
Ethylbenzene	U		0.384	1.00
2-Hexanone	U		3.82	10.0
Isopropylbenzene	U		0.326	1.00
2-Butanone (MEK)	U		3.93	10.0
Methyl Acetate	U		4.30	20.0
Methyl Cyclohexane	U		0.380	1.00
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0
Methyl tert-butyl ether	U		0.367	1.00
Styrene	U		0.307	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00

1

Cp

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Method Blank (MB)

(MB) R3347782-3 10/04/18 10:36

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Toluene	U		0.412	1.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.355	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00
Trichloroethene	U		0.398	1.00
Trichlorofluoromethane	U		1.20	5.00
Vinyl chloride	U		0.259	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	114			80.0-120
(S) Dibromofluoromethane	111			75.0-120
(S) a,a,a-Trifluorotoluene	106			80.0-120
(S) 4-Bromofluorobenzene	100			77.0-126

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3347782-1 10/04/18 09:36 • (LCSD) R3347782-2 10/04/18 09:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	141	135	113	108	19.0-160			4.20	27
Benzene	25.0	22.8	22.0	91.2	87.9	70.0-123			3.69	20
Bromodichloromethane	25.0	22.5	24.1	89.9	96.6	75.0-120			7.15	20
Bromochloromethane	25.0	25.1	25.8	100	103	76.0-122			2.91	20
Bromoform	25.0	21.7	22.5	86.9	89.8	68.0-132			3.31	20
Bromomethane	25.0	22.1	22.3	88.5	89.2	10.0-160			0.781	25
Carbon disulfide	25.0	20.9	20.9	83.5	83.5	61.0-128			0.100	20
Carbon tetrachloride	25.0	24.6	25.6	98.3	103	68.0-126			4.22	20
Chlorobenzene	25.0	27.6	26.1	111	104	80.0-121			5.87	20
Chlorodibromomethane	25.0	28.0	26.6	112	107	77.0-125			4.92	20
Chloroethane	25.0	22.5	22.6	90.0	90.6	47.0-150			0.623	20
Chloroform	25.0	24.5	25.4	98.0	102	73.0-120			3.70	20
Chloromethane	25.0	27.2	27.1	109	108	41.0-142			0.384	20
Cyclohexane	25.0	24.7	25.8	98.7	103	71.0-124			4.58	20
1,2-Dibromo-3-Chloropropane	25.0	22.0	21.4	88.0	85.6	58.0-134			2.82	20
1,2-Dibromoethane	25.0	26.2	26.1	105	104	80.0-122			0.747	20
1,2-Dichlorobenzene	25.0	24.4	23.1	97.4	92.6	79.0-121			5.10	20
1,3-Dichlorobenzene	25.0	23.7	23.3	94.7	93.4	79.0-120			1.42	20
1,4-Dichlorobenzene	25.0	24.3	24.3	97.4	97.4	79.0-120			0.0395	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3347782-1 10/04/18 09:36 • (LCSD) R3347782-2 10/04/18 09:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dichlorodifluoromethane	25.0	28.6	28.7	114	115	51.0-149			0.488	20
1,1-Dichloroethane	25.0	23.3	25.6	93.2	102	70.0-126			9.40	20
1,2-Dichloroethane	25.0	25.7	26.5	103	106	70.0-128			2.91	20
1,1-Dichloroethene	25.0	25.9	26.1	104	104	71.0-124			0.629	20
cis-1,2-Dichloroethene	25.0	23.7	24.2	94.6	96.8	73.0-120			2.25	20
trans-1,2-Dichloroethene	25.0	24.8	24.7	99.4	98.9	73.0-120			0.444	20
1,2-Dichloropropane	25.0	24.0	25.0	96.1	99.9	77.0-125			3.85	20
cis-1,3-Dichloropropene	25.0	23.3	24.7	93.4	98.8	80.0-123			5.64	20
trans-1,3-Dichloropropene	25.0	25.3	25.5	101	102	78.0-124			0.810	20
Ethylbenzene	25.0	28.4	25.1	114	100	79.0-123			12.5	20
2-Hexanone	125	155	146	124	117	67.0-149			5.75	20
Isopropylbenzene	25.0	24.4	24.1	97.7	96.2	76.0-127			1.49	20
2-Butanone (MEK)	125	153	148	122	118	44.0-160			3.20	20
Methyl Acetate	125	153	149	122	119	57.0-148			2.19	20
Methyl Cyclohexane	25.0	24.1	23.9	96.5	95.5	68.0-126			1.02	20
Methylene Chloride	25.0	22.4	22.1	89.6	88.5	67.0-120			1.19	20
4-Methyl-2-pentanone (MIBK)	125	163	156	130	125	68.0-142			4.29	20
Methyl tert-butyl ether	25.0	22.7	22.3	90.8	89.3	68.0-125			1.67	20
Styrene	25.0	23.4	24.3	93.4	97.4	73.0-130			4.18	20
1,1,2,2-Tetrachloroethane	25.0	22.1	22.9	88.4	91.8	65.0-130			3.76	20
Tetrachloroethene	25.0	26.1	27.4	104	110	72.0-132			4.86	20
Toluene	25.0	25.7	25.3	103	101	79.0-120			1.94	20
1,1,2-Trichlorotrifluoroethane	25.0	26.1	26.4	104	106	69.0-132			1.18	20
1,2,3-Trichlorobenzene	25.0	20.7	21.0	82.9	83.9	50.0-138			1.24	20
1,2,4-Trichlorobenzene	25.0	21.0	22.9	84.0	91.8	57.0-137			8.84	20
1,1,1-Trichloroethane	25.0	26.7	26.3	107	105	73.0-124			1.28	20
1,1,2-Trichloroethane	25.0	26.4	25.5	106	102	80.0-120			3.54	20
Trichloroethene	25.0	24.6	24.9	98.4	99.5	78.0-124			1.07	20
Trichlorofluoromethane	25.0	27.2	27.0	109	108	59.0-147			0.432	20
Vinyl chloride	25.0	24.2	24.0	96.7	96.0	67.0-131			0.768	20
Xylenes, Total	75.0	83.1	80.7	111	108	79.0-123			2.93	20
(S) Toluene-d8				113	111	80.0-120				
(S) Dibromofluoromethane				103	105	75.0-120				
(S) a,a,a-Trifluorotoluene				98.8	102	80.0-120				
(S) 4-Bromofluorobenzene				97.5	95.8	77.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

### Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
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The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1 6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1 4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.





## CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: <b>GHD</b>		Billing Information:	
Address: 285 Delaware Ave. Suite 500 Buffalo, NY 14202		Mr. Dave Rowlinson 285 Delaware Ave. Suite 500	
Report To: Mr. Dave Rowlinson		Email To: dave.rowlinson@ghd.com; brian.doyle@ghd.com	
Copy To:		Site Collection Info/Address: (C) LOCKPORT	
Customer Project Name/Number: <b>71136 City of Lockport Landfill 8612191-01-</b>		State: County/City: Time Zone Collected: <b>NY / NIAGARA</b> PT MT CT (ET)	
Phone: <b>716-748-6624</b>	Site/Facility ID #:	Compliance Monitoring?	
Email:	<b>LANDFILL</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Collected by (print):	Purchase Order #: <b>33700542</b>	DW PWS ID #:	
<i>Chad Johnson</i>	Quote #:	DW Location Code:	
Collected by (signature):	Turnaround Date Required:	Immediately Packed on Ice:	
<b>CHAD JOHNSON</b>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Disposal:	Rush:	Field Filtered (if applicable):	
<input type="checkbox"/> Dispose as appropriate <input type="checkbox"/> Return	<input type="checkbox"/> Same Day <input type="checkbox"/> Next Day	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input type="checkbox"/> Archive	<input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 Day <input type="checkbox"/> 5 Day	Analysis: _____	
<input type="checkbox"/> Hold	(Expedite Charges Apply)		

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Product (P), Solid/Solid (SC), L (LI), Wipe (WP), Air (AG), Vapor (V), Liquid (LQ), Solid (SL), Gas (G), Other (O)	Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)	Composite End	Res Cl	# of Ctns
				Date	Time	Date	Time
	MW-95	GW	BIRAB	9/10/00	11:35 AM		2
	MW-9I	GW			12:16pm		2
	MW-35	GW			10:45am		2
	<del>MW-60</del>	<del>GW</del>			<del>12:37pm</del>		2
	MW-8D	GW			12:53pm		2
	<del>OUTFALL 11-2</del>	<del>GW</del>					2
		GW		10/1/00			2
	TRIP BLANK	GW					1

Customer Remarks / Special Conditions / Possible Hazards: <b>SAMPLES COLLECTED</b> <b>10/1/18</b>	Type of Ice Used:	Wet	Blue	Dry	None
	Packing Material Used:				
	Radchem sample(s) screened (<500 cpm):	Y	N	NA	

Relinquished by/Company: (Signature) <i>Civil John (G14D)</i>	Date/Time:	Received by/Company: (Signature) <i>[Signature]</i>
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or  
MTJL Log-in Number Here

L1030910

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **										Lab Project Manager:	
										364 - T. Alan Harvill	
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other											
Analyses										Lab Profile/Line: STEARNSANY-LOCKPORT	
V8260TCLC 40ml/Amb-HCl V8260TCLC 40ml/Amb-HCl-Bik										Lab Sample Receipt Checklist:	
										Custody Seals Present/Intact Y N NA	
										Custody Signatures Present Y N NA	
										Collector Signature Present <input checked="" type="checkbox"/> N NA	
										Bottles Intact <input checked="" type="checkbox"/> N NA	
										Correct Bottles <input checked="" type="checkbox"/> N NA	
										Sufficient Volume <input checked="" type="checkbox"/> N NA	
										Samples Received on Ice Y N NA	
										VOA - Headspace Acceptable <input checked="" type="checkbox"/> N NA	
										USDA Regulated Soils Y N NA	
Samples in Holding Time Y N NA											
Residual Chlorine Present Y N NA											
Cl Strips:											
Sample pH Acceptable Y N NA											
pH Strips:											
Sulfide Present Y N NA											
Lead Acetate Strips:											
LAB USE ONLY:										Lab Sample # / Comments	
X											-01
X											-02
X											-03
X											-04
X											-05
X											
X											
	X										
SHORT HOLDS PRESENT (<72 hours): Y N N/A										LAB Sample Temperature Info:	
LAB Tracking #: 4492 6230 5554										Temp Blank Received: Y N NA	
Samples received via:										Therm ID#: 7	
FEDEX UPS Client Courier Para Courier										Cooler 1 Temp Upon Receipt 2.9 oC	
Date/Time: 10/2/18 8:45										Cooler 1 Therm Corr. Factor 0 oC	
D221										Cooler 1 Corrected Temp 2.9 oC	
Date/Time:										Comments:	
Acctnum: STEARNSANY										Trip Blank Received: Y N NA	
Template: T89880										HCL MeOH TSP Other	
Date/Time:										NonConformance(s) Page	
Prelogin: P672049										YES / NO of	
PM: 364 - T. Alan Harvill											
PB: 6:12:18 PM											

## Appendix C

### IC-EC Certification

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

Division of Environmental Remediation

625 Broadway, 11<sup>th</sup> Floor, Albany, NY 12233-7020

P: (518)402-9543 | F: (518)402-9547

www.dec.ny.gov

12/5/2018

Mr. Rolando Moreno  
Director of Engineering  
City of Lockport  
Lockport Municipal Building  
One Locks Plaza  
Lockport, NY 14094

**Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal**

Site Name: Lockport City Landfill

Site No.: 932010

Site Address: Oakhurst Road  
Lockport, NY 14094

Dear Mr. Rolando Moreno:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site-specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at <http://www.dec.ny.gov/regulations/67386.html>) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than February 14, 2019. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Qualified Environmental Professional (QEP). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.



Department of  
Environmental  
Conservation

All site-related documents and data, including the PRR, must be submitted in electronic format to the Department of Environmental Conservation. The required format for documents is an Adobe PDF file with optical character recognition and no password protection. Data must be submitted as an electronic data deliverable (EDD) according to the instructions on the following webpage:

<https://www.dec.ny.gov/chemical/62440.html>

Documents may be submitted to the project manager either through electronic mail or by using the Department's file transfer service at the following webpage:

<https://fts.dec.state.ny.us/fts/>

The Department will not approve the PRR unless all documents and data generated in support of the PRR have been submitted using the required formats and protocols.

You may contact Brian Sadowski, the Project Manager, at 716-851-7220 or [brian.sadowski@dec.ny.gov](mailto:brian.sadowski@dec.ny.gov) with any questions or concerns about the site. Please notify the project manager before conducting inspections or field work. You may also write to the project manager at the following address:

New York State Department of Environmental Conservation  
270 Michigan Ave  
Buffalo, NY 14203-2915

#### Enclosures

PRR General Guidance  
Certification Form Instructions  
Certification Forms

ec: w/ enclosures

Brian Sadowski, Project Manager

Stanley Radon

GHD - Mr. David Rolinson - [david.rowlinson@ghd.com](mailto:david.rowlinson@ghd.com)



## Enclosure 1

### Certification Instructions

#### I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

#### II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

#### III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.
- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.



Enclosure 2  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Site Management Periodic Review Report Notice**  
**Institutional and Engineering Controls Certification Form**



Site Details		Box 1	
Site No.	932010		
Site Name Lockport City Landfill			
Site Address: Oakhurst Road		Zip Code: 14094	
City/Town: Lockport			
County: Niagara			
Site Acreage: 23.400			
Reporting Period: January 15, 2018 to January 15, 2019			
		YES	NO
1. Is the information above correct?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.			
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5. Is the site currently undergoing development?		<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Box 2	
		YES	NO
6. Is the current site use consistent with the use(s) listed below? Closed Landfill		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Are all ICs/ECs in place and functioning as designed?		<input checked="" type="checkbox"/>	<input type="checkbox"/>

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

**A Corrective Measures Work Plan must be submitted along with this form to address these issues.**

Signature of Owner, Remedial Party or Designated Representative	Date
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**Description of Institutional Controls**

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
108.00-1-14	City of Lockport	Monitoring Plan O&M Plan  Landuse Restriction
<p>Record of Decision (ROD), December 1992. The remedial components of the ROD have been implemented and are maintained for the protection of human health and the environment.</p> <p>Declaration of Covenants and Restrictions, Niagara County, February 3, 2010. Deed restrictions have been implemented to prevent activities that could cause potential exposure of waste material and compromise the integrity of the cap.</p> <p>Operation and Maintenance Plan, Contingency Plan, March 1994. Regular inspections and repair of the landfill cap are conducted to insure that the integrity of the cap is maintained.</p> <p>Long Term Monitoring Program, March 1994. The monitoring program is in place and used to evaluate the effectiveness of the remedial program.</p>		
108.15-1-1	City of Lockport	Landuse Restriction  Monitoring Plan O&M Plan
<p>Record of Decision (ROD), December 1992. The remedial components of the ROD have been implemented and are maintained for the protection of human health and the environment.</p> <p>Declaration of Covenants and Restrictions, Niagara County, February 3, 2010. Deed restrictions have been implemented to prevent activities that could cause potential exposure of waste material and compromise the integrity of the cap.</p> <p>Operation and Maintenance Plan, Contingency Plan, March 1994. Regular inspections and repair of the landfill cap are conducted to insure that the integrity of the cap is maintained.</p> <p>Long Term Monitoring Program, March 1994. The monitoring program is in place and used to evaluate the effectiveness of the remedial program.</p>		

**Description of Engineering Controls**

<u>Parcel</u>	<u>Engineering Control</u>
108.00-1-14	Cover System Fencing/Access Control
<p>Landfill Cap:</p> <p>A Part 360 type clay cap has been installed over the landfill to eliminate direct contact as well as greatly reduce the amount of leachate being generated.</p> <p>Excavation of steep embankment:</p> <p>The waste material along the steep embankment (western bounday of the landfill) has been excavated from the embankment and placed under the landfill cap.</p>	
108.15-1-1	



Parcel

Engineering Control

Cover System  
Fencing/Access Control

Landfill Cap:

A Part 360 type clay cap has been installed over the landfill to eliminate direct contact as well as greatly reduce the amount of leachate being generated.

Excavation of steep embankment:

The waste material along the steep embankment (western bounday of the landfill) has been excavated from the embankment and placed under the landfill cap.

Box 5

**Periodic Review Report (PRR) Certification Statements**

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES NO

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2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

- (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and  
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

**A Corrective Measures Work Plan must be submitted along with this form to address these issues.**

\_\_\_\_\_  
Signature of Owner, Remedial Party or Designated Representative

\_\_\_\_\_  
Date



IC CERTIFICATIONS  
SITE NO. 932010

Box 6


**SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE**

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I ROLANDO MORENO at ONE LOCKS PLAZA, LOCKPORT, NY  
print name print business address

am certifying as OWNER (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

  
Signature of Owner, Remedial Party, or Designated Representative  
Rendering Certification

12/11/18  
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I David M. Britton at 285 DELAWARE Ave, Buffalo  
print name print business address 14202<sup>NY</sup>

am certifying as a Qualified Environmental Professional for the Owner  
(Owner or Remedial Party)



A handwritten signature of David M. Britton, written in black ink.

Signature of Qualified Environmental Professional, for  
the Owner or Remedial Party, Rendering Certification

Stamp  
(Required for PE)

12/14/18  
Date



## about GHD

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