2021 Periodic Review Report

Lockport City Landfill, NYSDEC Site No. 932010

City of Lockport

February 8, 2022

→ The Power of Commitment

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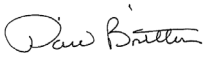
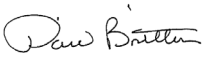
S2	0	K. Galanti	D. Britton		D. Britton		2/8/22
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1. Introduction

1.1 Purpose of this Report

The Lockport City Landfill (Site) is located on Oakhurst Street in the City of Lockport, Niagara County, New York. This Site is listed on the New York State Department of Environmental Conservation (NYSDEC) Registry of Inactive Hazardous Waste Sites as Site No. 932010. The Remedial Action Design for the site included a Long-Term Monitoring Plan and Operation and Maintenance Plan that were approved by the NYSDEC in March 1994. 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 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 purpose of this report is to present the findings of the annual site inspection and groundwater monitoring (year 25) conducted at the Site on November 9, 2021.

1.2 Scope and Limitations

The opinions, conclusions, and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

2. Site Inspection

The following personnel attended a site inspection on November 9, 2021 of the Lockport City Landfill:

– Katherine Galanti, GHD Consulting Services, Inc.

The completed Inspection Log Sheet for the November 2021 site inspection, as well as representative photos, are presented in Attachment A. The following is a summary of items that were observed during the site inspection:

– Landfill Cap - Overall, the cap was in good condition with vegetation well established. The landfill was mowed in September 2021 prior to the annual inspection. A large laydown area was constructed in the northeast corner of the main landfill to support equipment and materials during construction of the sewer main along the northeast border of the landfill.
– Perimeter Ditch “A” - Vegetation is well established and no erosion had occurred as of the November 2021 site inspection.
– Perimeter Ditch “B” - Vegetation is well established and no erosion had occurred as of the November 2021 site inspection.
– Drainage Swale “A”- As discussed in previous inspection reports, there is a portion of Drainage Swale “A” berm running along the western edge of the landfill cap that had slumped down the west face of the landfill. As reported in 2008, the City of Lockport placed an additional 1 to 2 tons of stone to stabilize the berm in the area of the slump. The stone has remained in place, thus, stabilizing the bank and preventing further slumping. The City will continue to monitor the area for any further slumping.
– Drainage Swale “B” - Vegetation is well established and no erosion noted during the November 2021 site inspection.
– Perimeter Drainage Ditch “C” - Ditch C was mowed recently. An area of ponded water was observed on either side of the access road crossing. In 2019, the City placed riprap along the northern portions of the ditch. Some regrading was completed at the northeast corner to reduce the potential for erosion.

- Downchute - Normal growth was present in the downchute and apron areas. The City monitors the vegetation growth and, if required, will cut back growth. The downchute located in the northeast corner of the Site had stone and millings placed as road base in support of construction efforts for the sewer forcemain in the area. In 2019, the City placed riprap stone along the path down to monitoring wells at the west down chute. Police enforcement to deter trespassers continues. Additionally, the City downed several trees and large brush to block access to the west downchute and further deter trespassers from using this path. At the time of the 2021 site inspection, no new ATV tracks were observed.
- Vegetative Cover - General cover is well established. Landfill was mowed in September 2021 prior to the 2021 inspection. Future mowing will be completed annually after mid-August.
- Final Cover Layers (settlement, etc.) - No standing water or settlement was observed.
- Steep Slope Areas (west of final cover) - Trees and grasses present on slope. Branches require periodic maintenance to cut back overhanging vegetation.
- Landfill Gas Vents - Gas vents were intact and in good condition.
- Fence - Fence and vehicle gates were in good condition during the 2021 site inspection. The access gate was closed but unlocked at the time of the site visit.
- Monitoring Wells - Monitoring wells MW-3S, MW-6D, MW-8D, MW-9S, and MW-9I were in good condition. Wells were labeled and locked.
- Railroad Crossing - Railroad crossing is accessible and in good condition.
- Access Roadway - The access road is in good condition. The road was improved by the construction contractor installing the sewer main along the northeast corner of the main landfill. Some ruts were observed along the edge of the road where vehicles appeared to pull off to pass.

Overall, the landfill was maintained and in good condition at the time of the 2021 inspection. No corrective actions are required at this time. According to the City of Lockport, the contractor will be restoring the cap in the areas where it was impacted after sewer construction is complete. A limited area of exposed trash (primarily plastic) is present adjacent to Outfall L-2 in the gulf. This exposure has been evident in past inspections and has not appeared to worsen. The City of Lockport indicated that the NYSDEC will be addressing this area as part of a planned cleanup in and around the gulf creek.

3. Groundwater Monitoring

The Site groundwater monitoring wells were sampled on November 9, 2021, in accordance with the NYSDEC approved Long-Term Monitoring Plan and Operation and Maintenance Plan.

Monitoring wells MW-3S, MW-6D, MW-8D, MW-9S, and MW-9I were all purged and sampled.

The Outfall L-2 pipe was plugged; however, a small seep (drips) was coming from between the bricks and mortar plugging the outfall pipe and was sampled (Outfall sample). In addition, a stronger groundwater seep was observed flowing through the stream bank approximately 5 feet upstream of Outfall L-2 at a rate of about 1 gallon per minute. A sample of the stream bank seep was also collected (seep).

The samples were delivered to Eurofins TestAmerica, Buffalo in Amherst, New York, and analyzed for Target Compound List (TCL) VOCs by Method 8260C. Groundwater Field Sampling Logs are presented in Appendix B and the Analytical Data Report is provided in Appendix C.

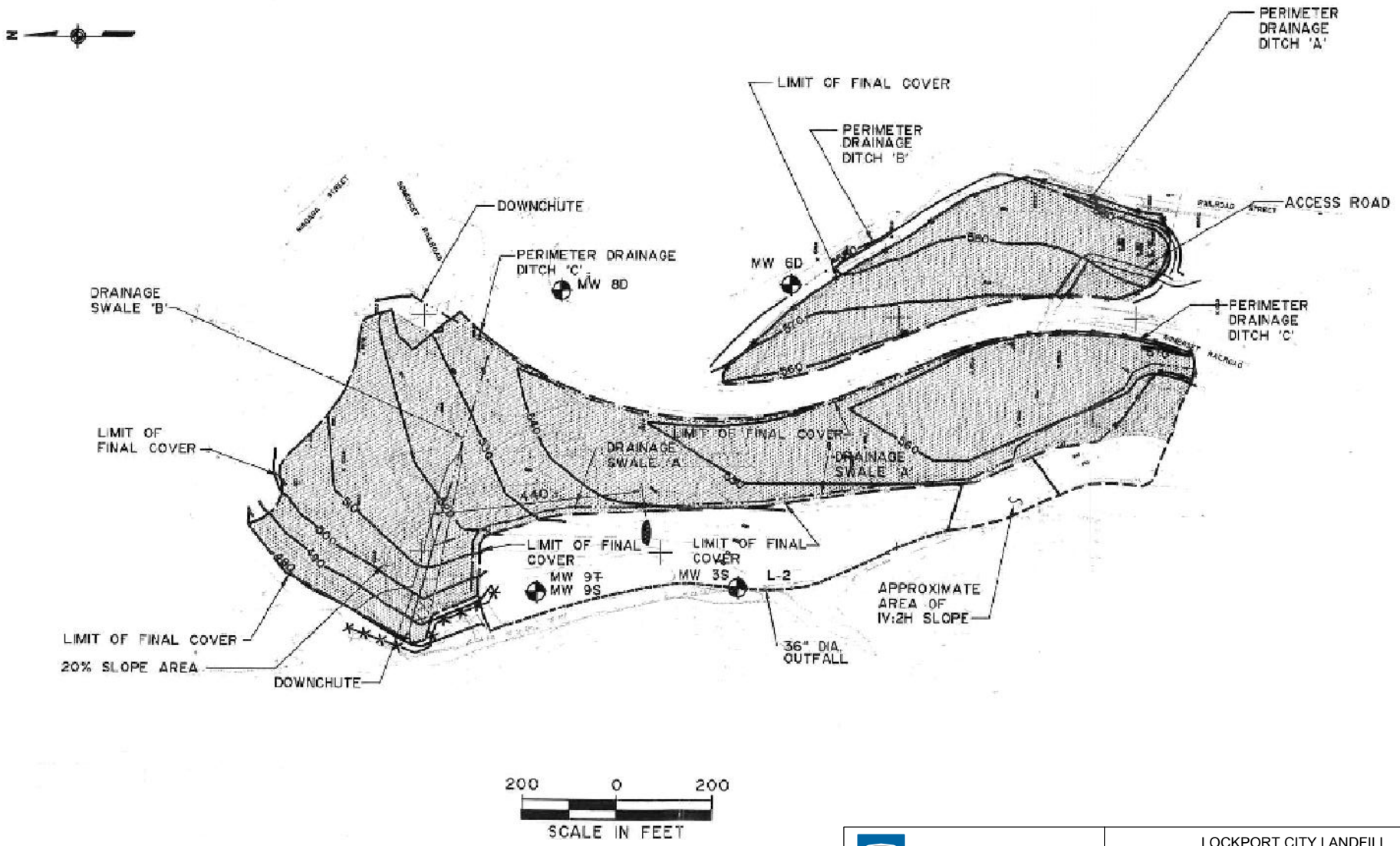
Table 1 summarizes analytical data from groundwater samples collected from the Site monitoring wells and outfall for the past 25 years (1997-2021), as well as the action levels for Monitoring Wells MW-8D, MW-9S and MW 9I, and Outfall L2. The only detections observed in 2021 were for 1,1-dichloroethane, cis-1,2-dichloroethene, and toluene at concentrations of 2.6 µg/L, 3.3 µg/L, and 1.7 µg/L, respectively, at MW-3S; cis-1,2-dichloroethene at a concentration of 2.1 µg/L at MW 9I; toluene at a concentration of 2.0 µg/L at MW-6D; and cis-1,2-dichloroethene and vinyl chloride at MW-8D at concentrations of 52 µg/L and 7.3 µg/L, respectively. The detected concentrations are consistent with those observed historically and are below the reported Site-specific action levels as presented in the March 1994 Long-Term Monitoring Plan. No detections were observed at MW-9S.

Since exceedances of the action levels did not occur, contingent sampling and analysis is not required. The next sampling event will be scheduled for Fall 2022 representing year 26 of the Long-Term Monitoring Program.

4. IC/EC Certification

The engineering controls are performing as designed, and the Site is maintained in good condition. The signed IC/EC Certification is attached as Appendix D.

Figures



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LOCKPORT CITY LANDFILL
LOCKPORT, NEW YORK
CITY OF LOCKPORT

FIGURE 1
SITE PLAN

Tables

Table 1
Monitoring Well 3S
Groundwater Analytical 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	Sep-19	Mar-21	Nov-21
1,1,1-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
1,1,2-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	2.2	U	2.6
1,1-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
1,2-Dichloroethene (total)	µg/L	NS	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	U	U	U
2-Butanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
4-Methyl-2-pentanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Benzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Bromoform	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	U	U	U	U	U	U	U	U	U	U	U
Carbon disulfide	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	1.2	1.1	U	U	U	2.0	U	U
Carbon tetrachloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Chloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	U	U	U	U
Chloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	2.6	U	3.3
cis-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Ethylbenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Methylene chloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Styrene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Toluene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	U	U	U
trans-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	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	1.2	1.2	U	1.7

Notes:

VOC analysis by USEPA SW-846 Method 8260C

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

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	Sep-19	Nov-20	Nov-21
1,1,1-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
1,1,2,2-Tetrachloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
1,1,2-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	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	-	U	-	U
1,1-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
1,2-Dichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
1,2-Dichloroethene (total)	µg/L	NS	U	U	U	U	U	U	U	U	U	U	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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	-	U	-	U
2-Hexanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
4-Methyl-2-pentanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
Acetone	µg/L	NS	U	U	U	U	U	U	U	U	U	2 J	16	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
Benzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
Bromodichloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
Bromoform	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
Bromomethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
Carbon disulfide	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
Carbon tetrachloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
Chlorobenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
Chloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
Chloroform	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
Chloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
cis-1,2-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
cis-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
Dibromochloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
Ethylbenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
m,p-Xylene	µg/L	NS	U	U	U	U	U	U	U	U	U	U	U	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
Methylene chloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
o-Xylene	µg/L	NS	U	U	U	U	U	U	U	U	U	U	U	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
Styrene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
Tetrachloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
Toluene	µg/L	NS	U	U	U	U	U	U	U	U	U	2 J	2 J	-	-	-	-	-	-	U	U	U	-	1.6	-	2.0	-	2.0
trans-1, 2-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U
trans-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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
Vinyl chloride	µg/L	NS	U	U	U	U	U	U	U	U	U	U	U	-	-	-	-	-	-	U	U	U	-	U	-	U	-	U

Notes:

VOC analysis by USEPA SW-846 Method 8260C

U = not detected above the quantitation limit

J = estimated concentration

- = not sampled

NS = no standard

During 2019 and 2021 sampling events of MW-6D, sufficient volume was available for VOC sampling; however, insufficient volume for groundwater parameters

2007, 2008, 2009, 2010, 2011, 2012, 2016, 2018, 2020 : MW-6D not sampled due to dry conditions, no groundwater available

Table 1 (Cont'd)
Monitoring Well 8D
Groundwater Analytical 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	Sep-19	Nov-20	Nov-21
1,1,1-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
1,1,2-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
1,1-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
1,2-Dichloroethene (total)	µg/L	1,580	100	90	110	18	25	41	120	7	28	27 J	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	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	U	U	U	U	U
2-Hexanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Acetone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Bromodichloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Bromomethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Carbon tetrachloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Chloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	U	U	U	U
Chloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	µg/L	790	-	-	-	-	-	-	-	-	-	-	-	32	34	26	23	24	65	26	21	22	20	9	19	23	100	52
cis-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Ethylbenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Methylene chloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Styrene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Toluene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
trans-1, 2-Dichloroethene	µg/L	790	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U	1 U	2 U	1 U
trans-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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 U	2 U	1 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	1 U	13	7.3

Notes:

VOC analysis by USEPA SW-846 Method 8260C

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 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	Sep-19	Nov-20	Nov-21
1,1,1-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
1,1,2-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
1,1-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
1,2-Dichloroethene (total)	µg/L	1,580	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	U	U	U
2-Butanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
4-Methyl-2-pentanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Benzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Bromoform	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	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	U	U	U
Carbon tetrachloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Chloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	U	U	U	U
Chloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
cis-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Ethylbenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Methylene chloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Styrene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Toluene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	U	U	U
trans-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	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	U	U	U

Notes:

VOC analysis by USEPA SW-846 Method 8260C

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 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	Sep-19	Nov-20	Nov-21
1,1,1-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
1,1,2-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
1,1-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	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	U	U	U	U	U
2-Hexanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Acetone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Bromodichloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Bromomethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Carbon tetrachloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Chloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	U	U	U	U
Chloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	µg/L	21	-	-	-	-	-	-	-	-	-	-	-	3 J	2J	U	2J	U	U	1.3	U	1.8	1.9	1.4	1.8	1.9	2.0	2.1
cis-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Ethylbenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Methylene chloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Styrene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	U	U	U
Toluene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
trans-1, 2-Dichloroethene	µg/L	21	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	U	1 U	1 U	1 U
trans-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	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	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	1 U	1 U	1 U

Notes:

VOC analysis by USEPA SW-846 Method 8260C

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 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	Sep-19	Mar-21 Outfall	Mar-21 Seep	Nov-21 Outfall	Nov-21 Seep
1,1,1-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	U	U	U	U
1,1,2-Trichloroethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	U	U	U	U
1,1-Dichloroethene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	U	U	U	U
1,2-Dichloroethene (total)	µg/L	NS	U	2	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	U	U	U	U
2-Butanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	U	U	U	U
4-Methyl-2-pentanone	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	2 J	U	U	U	U	U	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	U	U	U	U
Bromodichloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	U	U	U	U
Bromomethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	U	U	U	U
Carbon tetrachloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	U	U	U	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	U	U	U	U
Chloroform	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-	U	U	U	U	U
Chloromethane	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-	U	U	U	U	U
cis-1,2-Dichloroethene	µg/L	140	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-	1 U	2 U	2 U	1 U	1 U
cis-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	U	U	U	U
Ethylbenzene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	U	U	U	U
Methylene chloride	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	U	U	U	U
Styrene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	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	U	U	U	U
Toluene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-	U	U	U	U	U
trans-1, 2-Dichloroethene	µg/L	140	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	U	U	U	U	U	U	-	1 U	2 U	2 U	1 U	1 U
trans-1,3-Dichloropropene	µg/L	NS	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	U	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	-	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	-	1 U	2 U	2 U	1 U	1 U

Notes:

VOC analysis by USEPA SW-846 Method 8260C

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

Site Inspection Log

ANNUAL INSPECTION LOG SHEET

LOCKPORT CITY LANDFILL - POST CLOSURE
NYSDEC SITE NO. 932010

Date: 11/9/2021 Inspector: K GALANTI

Weather: CLOUDY, 50's Signature: Kristen Galanti

Company: GHD Consulting Services, Inc.

Item Inspected	Maintenance Needed (Y/N)	Observations	Comments
Perimeter Ditch A	✓	Is vegetation well established? (Y)/N Are there signs of erosion? Y/(N) Is standing water present or is water free-flowing? N/A	
Perimeter Ditch B	✓	Is vegetation well established? (Y)/N Are there signs of erosion? Y/(N) Is standing water present or is water free-flowing? N/A	
Perimeter Ditch C	✓	Is vegetation well established? (Y)/N Are there signs of erosion? Y/(N) Is standing water present or is water free-flowing?	SOME STANDING WATER IN SPOTS.
Drainage Swale A	✓	Is vegetation well established? (Y)/N Are there signs of erosion? Y/(N) Is stone in place? (Y)/N Is standing water present? Y/(N)	
Drainage Swale B	✓	Is vegetation well established? (Y)/N Are there signs of erosion? Y/(N) Is stone in place? Y/(N) Is standing water present? Y/(N)	DIDN'T NOTICE STONE - GRASS OBSCURES.
Downchute & Apron	✓	Is vegetation present? (Y)/N Is there evidence of recent ATV usage? Y/(N)	W. DOWNCHUTE - TREES CUT TO BLOCK PATH; PREVENT ATV USAGE.
Lanfill Cap/Vegetative Cover	✓	Has the landfill been mowed at least once in the last year? (Y)/N Are there signs of stressed vegetation? Y/(N) Are there signs of settlement in the cap? Y/(N) Are there signs of standing water on the (N)	NE DOWNCHUTE - PAVED FOR SEWER CONSTRUCTION ACCESS.
Steep Slope Areas (West of final cover)	✓	Is vegetation well established? (Y)/N Are there signs of erosion since last inspection? Y/(N)	
Gas Vents	✓	Are gas vents clear in good condition? (Y)/N Are gas vents clear of obstructions? (Y)/N	
Fence	✓	Is the perimeter fence in good condition? (Y)/N Is the entrance gate in good condition? (Y)/N Was the entrance gate closed/locked upon	GATE OPEN DUE TO SEWER CONSTRUCTION WORK, BUT CLOSED/LOCKED NIGHTLY.
Access Roadway	✓	Is the access roadway in good condition? (Y)/N Are the potholes or standing water present?	NO STANDING WATER ON ROAD
Railroad Vehicle Crossing	✓	Is the railroad crossing in good condition: (Y)/N	
Monitoring Wells	✓	Are the monitoring wells in good condition? (Y)/N Are the monitoring wells locked? (Y)/N Are the monitoring wells labeled? (Y)/N	
General Comments:	CONTRACTOR INSTALLING SEWER LINE ALONG EAST PERIMETER OF EAST LF, AND NE CORNER OF MAIN LF. ACCESS ROAD IMPROVED. LARGE LAYDOWN AREA IN NE CORNER. SOME RUTS ALONG EDGE OF ROAD WHERE HAUL VEHICLES PULL OFF TO PASS.		

Photo 1 Site facing south along access road

Photo 2 Site facing north along access road. Ruts shown from vehicle pulling off road

Photo 3 Construction/laydown area in northeast corner facing northeast

Photo 4 Construction area in northeast corner facing southeast

Photo 5 West downchute facing west. Loose brush and trees placed to block trespassers

Photo 6 Outfall L-2, with seep and exposed trash to the right of the outfall along bank

Photo 7 Site facing east along Drainage Swale B toward construction area

Photo 8 Site facing northwest across Drainage Ditch C

Appendix B

Groundwater Field Sampling Logs

City of Lockport Landfill
Annual GW Sampling

November 9, 2021

Project # 111372 73-500

Field File

Groundwater Sampling Equipment and Supply Checklist
(Form SP-05)

Date: 11/09/2021 (mm/dd/yyyy)

Reference No. 11137273-500

Equipment

- [x] Required sampling equipment (as per work plan or QAPP)

Instruments

- [x] Water level indicator
- [x] Thermometer *
- [x] pH meter *
- [x] Conductivity probe *
- [x] Turbidity meter
- [ ] HNu/OVA/Microtip
- [ ] Air monitoring equipment

Supplies

- [ ] Gasoline can/gas
- [ ] Polypropylene rope
- [ ] Aluminum foil
- [x] Paper towels / Rags
- [x] pH buffer solution(s)
- [x] Conductivity standard solution(s)
- [ ] Decontamination fluids (as per work plan and QAPP)
- [x] Sample jars (extra)
- [ ] Sample jar labels (GHD) materials
- [x] Cooler(s)/ice packs/packing materials
- [ ] Trash bags
- [ ] Sample preservatives
- [x] Plastic spray bottles
- [ ] Plastic basin or pan
- [ ] Sample filter (on line or external filter)
- [ ] Polyethylene sheeting
- [x] First aid kit
- [ ] Personal protective equipment (as per HASP)

Documentation

- [x] Chain of custody forms
- [ ] Well logs
- [ ] Notebook/Field book
- [ ] Photolog
- [ ] Site pass/badge
- [ ] Federal Express manifests
- [x] Previous well logs/previous historical well data
- [x] Site map
- [x] Blank well data forms

Miscellaneous

- [x] Well cap keys
- [ ] Bolt cutters
- [ ] Camera/film
- [ ] Knife
- [x] Spare batteries for instruments
- [ ] Lock deicer (winter)
- [x] Reinforced packing tape
- [x] Pen/pencil/indelible marking pen
- [x] Tool box
- [x] Spare locks/keys
- [ ] On site transportation (all-terrain vehicle/snowmobiles)

Completed By: David Tyran (please print)

Date: 11/09/2021 (mm/dd/yyyy)

Project Planning Completion and Follow-Up Checklist
(Form SP-02)

Date: 11/09/2021 (mm/dd/yyyy) Reference No. 11137273-500

Prior Planning and Coordination

- [x] Confirm well numbers, location and accessibility
- [x] Review of project documents, Health and Safety Plan (HASP), sampling Quality Assurance/Quality Control (QA/QC) and site-specific sampling requirements
- [x] Historical well data; depth, pH, performance and disposition of purge water
- [x] Site access notification and coordination
- [x] Coordination with laboratory through GHD chemistry group
- [x] Procurement, inventory and inspection of all equipment and supplies
- [x] Prior equipment preparation, calibration or maintenance
- NA [ ] All utilities located and approved

Filed Procedure

- [x] Instruments calibrated daily
- [x] Sampling equipment decontaminated in accordance with the QAPP
- [x] Field measurements and sampling details logged in appropriate field books or an appropriate field form
- [x] Well volume calculated and specified volumes removed
- [x] Specified samples, and QA/QC samples taken per Quality Assurance Project Plan (QAPP)
- [x] Samples properly labeled, preserved and packed
- [x] Sampling locations secured or completed according to work plan
- [x] Sample date times, locations and sample numbers have all been recorded in applicable log(s)
- [x] Samples have been properly stored if not shipped/delivered to lab same day
- [x] Samples were shipped with complete and accurate chain of custody record

Follow-Up Activities

- [x] Questionable measurements field verified
- [x] Confirm all samples collected
- [x] All equipment has been maintained and returned
- [x] Sampling information reduced and required sample keys and field data distributed
- [x] Chain of custody records filed
- [x] Expendable stock supplies replaced
- [x] GHD and client-controlled items returned (i.e., keys)
- [x] Arrange disposal of investigation generated wastes with client
- [x] Confirm all samples collected

Completed By: David Tyran (please print) Date: 11/09/2021 (mm/dd/yyyy)

Field Data Record Form
Meter, Turbidity (Portable) Hach 2100P and 2100Q
(QSF-421D)

Control number: NF08319
Date (mm/dd/yyyy): 11/9/2021
User (print name): S. Gardner

Project number: 111 37273-500
Project name: Lockport Landfill

Location: 675 Oakhurst St. Lockport NY

Additional equipment control numbers and descriptions:

10 NTU LOT # A1202 exp 11/2022
100 NTU Lot # A1205 exp 11/2022
800 NTU LOT # A1207 exp 11/2022

Field procedure before use:

Do not calibrate in the field.

	Check when completed
Check kit contents;	
• Meter	☑
• STABLCAL standards (2100Q)	☑
• Low 0-10, medium 0-100, high standards (2 100P)	☑
• Extra AA batteries	☑
• Sample vials	☑
Test and record standards:	☑

Gelex (2100P)/STABLCAL (2100Q) Standard	*Meter Reading*
10	9.13
100	98.9
800	786

Note: Condensation on outside of sample bottles affects meter readings.

Filing: Field file

Signature:

This completed form is a quality record

Field Data Record Form
Water Level Meter

Control number: 08844
Date (mm/dd/yyyy): 11/9/2021
User (print name): D. Tyran

Project number: 111372 73-500
Project name: City of Lockport Landfill GW Sampling
Location: 175 Oakhurst Street Lockport NY

Additional equipment control numbers and descriptions:

Field procedure before use:

	Check when completed
• Check for broken or missing parts.	
• Check battery	☑
• Check operation of buzzer.	☑
• Check operation of signal light.	☑
• Test probe in water to ensure unit operates, both visually and audibly.	☑
• Check cable.	☑

Filing: Field file

Signature: Dan J. Tyran

Lockport Landfill

DAILY LOG

4/9/21 Calibrate YSI Pro-Series meter control # NF07602 with auto-cal solution (white cap) Lot# 21150206 expires 6/21/2022

	Before	After
pH(4.00)	4.10	4.00
Cond.(4.49)	4.49	4.49

0830 ONSITE SG/DJT/KG WEATHER - OVERCAST 52-59° F WINDS W 0-5MPH

0918 SET UP ON WELL MW-6D W/L - 76.74 SOUNDED DEPTH - 77.38 77.38 - 76.74 = 0.64 x .16 = 0.10 GAL PER. VOL. METHOD - VOLUMES USING 2" BAILER, TEFLON, PURGE 3 VOLUMES, TAKE A SET OF READINGS DURING SAMPLING WELL DRY @ 50ML ± FINAL W/L 77.10

0938 SET UP ON WELL MW-8D W/L - 71.73 SOUNDED DEPTH - 76.93, 76.93 - 71.73 = 5.2 x .16 = 0.83 GAL PER VOL. WELL DRY @ 1 GAL, FINAL W/L - 76.23 LET WELL RECOVER THAN SAMPLE

1012 GRAB SAMPLE ON SEEP

SAMPLE ID# WG-111372 73-110921-SG-001 TIME 1030

TRIPBLANK - TB-111372 73-110921-SG (2)

TEMP-12.8 PH.-7.13 COND.-1.88 TURB-85.0

1032 GRAB SAMPLE ON OUTFALL L2

SAMPLE ID# WM-111372 73-110921-SG-002 TIME 1045

TEMP-11.8 PH-7.65 COND 1.81 TURB. 54.3

111372 73-500

D. J Tyson

Lockport Landfill

DAILY LOG

11/9/2021 1047 SET UP ON MW-3S PURGE AND SAMPLE
W/L - 4.02 SOUNDED DEPTH - 13.48
13.48 - 4.02 = 9.46 x .16 = 1.5 GAL PER VOL VOLUME PURGED - 1.5 GAL
WG-11137273-110921-SG-003 TIME 1135
TEMP - 13.2 PH 7.37 COND 2.09 TURB 62.6
WELL DRY @ 1.5 GAL FINAL W/L - 12.58, LET WELL RECOVER
THAN SAMPLE
1056 SET UP ON WELL MW-9I PURGE AND SAMPLE
W/L - 5.66 SOUNDED DEPTH - 20.19
20.19 - 5.66 - 14.53 x .16 = 2.3 GAL PER VOL, VOL PURGED - 6.9 GAL
SAMPLE ID# WG-11137273-110921-SG-004 TIME 1110
TEMP - 12.7 PH 7.68 COND 1.51 TURB 24.2
1112 SET UP ON WELL MW-9S PURGE AND SAMPLE
W/L - 6.76 SOUNDED DEPTH - 12.58
12.58 - 6.76 = 5.82 x .16 = 0.93 GAL PER VOL, VOL PURGED - 2.7 GAL
SAMPLE ID# WG-11137273-110921-SG-005 TIME - 1120
TEMP - 13.1 PH - 7.60 COND 1.43 TURB - 23.1
1128 MW-3S WELL RECOVERED GRAB SAMPLES AND READINGS
W/L - 4.07 BEFORE SAMPLES
1145 CHECK WELL MW-6D FOR RECOVERY W/L 76.72
SAMPLE WELL, INSUFFICIENT VOLUME FOR FINAL READINGS
SAMPLE ID# WG-11137273-110921-SG-006 TIME 1155
1158 SAMPLE WELL MW-8D W/L 73.92
SAMPLE ID# WG-11137273-SG-007 TIME 1210
TEMP - 12.1 PH - 7.52 COND. 2.18 TURB 16.5
1219 OFFSITE

Dave Tyson

11137273-500

CHAIN OF CUSTODY RECORD

COC NO.: 60338

Address: NF Office

PAGE 1 **OF** 1

Phone:

Fax:

Project No/ Phase/Task Code: 1137273-500	**Laboratory Name:** Eurofins Test America	**Lab Location:** Amherst NY	**SSOW ID:**
Project Name: City of Lockport Landfill	**Lab Contact:** Denise Heckler		**Cooler No:**
Project Location: 175 Oakhurst Street Lockport			**Carrier:** Hand Delivered
GHD Chemistry Contact: Linda Waters			**Airbill No:**
Sampler(s): D Tyran / S Gurdner			**Total # of Containers:** 23

SAMPLE TYPE — **ANALYSIS REQUESTED** (See Back of COC for Definitions)

Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd//yy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Filtered (Y/N)	8260C VOCs												Total Containers/sample	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:
	PRESERVATION - (SEE BACK OF COC FOR ABBREVIATIONS)						HCl														
1	WG-1137273-110921-SG-001	11/9/21	1030	WG	G	N	X												3		
2	WM-1137273-110921-SG-002	11/9/21	1045	WM	G	N	X												3		
3	WG-1137273-110921-SG-003	11/9/21	1135	WG	G	N	X												3		
4	WG-1137273-110921-SG-004	11/9/21	1110	WG	G	N	X												3		
5	WG-1137273-110921-SG-005	11/9/21	1120	WG	G	N	X												3		
6	WG-1137273-110921-SG-006	11/9/21	1155	WG	G	N	X												3		
7	WG-1137273-110921-SG-007	11/9/21	1210	WG	G	N	X												3		
8	TB-1137273-110921-SG	11/9/21		TB	G	N	X												2		DJT
9																					
10																					
11																					
12																					

TAT Required in business days (use separate COCs for different TATs):

☐ ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week (circled) Other

Notes/ Special Requirements:

	RELINQUISHED BY	COMPANY	DATE	TIME		RECEIVED BY	COMPANY	DATE	TIME
1.	Dave Tyran	GHD	11/9/21	1300	1.				
2.					2.				
3.					3.				

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10B (20110804)

Appendix C

Analytical Data Report

GHD Field Sample Key (FSK)

Site CITY OF LOCKPORT LANDFILL

Sample Reason ANNUAL

Sampler Name D.TYRAN / S.GARDNER

Sampling Company GHD

Laboratory(s) EUROFINS TESTAMERICA AMHERST

SSOW Reference Code :

Sample ID	Location	Sample Date (mm/dd/yyyy)	Sample Time (hh:mm)	Sample Type	Sample Matrix	Grab or Composite	Start Depth (ft bgs)	End Depth (ft bgs)	Parent Sample ID for Field Dups	Footnote(s)
TB-11137273-110921-SG	TRIP BLANK	11/9/2021		TB	WGQ	GRAB				
WG-11137273-110921-SG-001	SEEP	11/9/2021	10:30	N	WG	GRAB				
WM-11137273-110921-SG-002	OUTFALL L2	11/9/2021	10:45	N	WG	GRAB				
WG-11137273-110921-SG-003	MW-3S	11/9/2021	11:35	N	WG	GRAB				
WG-11137273-110921-SG-004	MW-9I	11/9/2021	11:10	N	WG	GRAB				
WG-11137273-110921-SG-005	MW-9S	11/9/2021	11:20	N	WG	GRAB				
WG-11137273-110921-SG-006	MW-6D	11/9/2021	11:55	N	WG	GRAB				
WG-11137273-110921-SG-007	MW-8D	11/9/2021	12:10	N	WG	GRAB				

Footnotes

1. e.g. "Sample on Hold "
2. e.g. "Composite Description"
3. e.g. "Sampling Method"
4.
5.
6.

Key

- Required Field
- Populate When Appropriate
- Field Data

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-192101-1
Client Project/Site: 11137273, City of Lockport Landfill

For:
GHD Services Inc.
One Remington Park Drive
Cazenovia, New York 13035

Attn: Linda Waters

Denise D Heckler

Authorized for release by:
11/18/2021 3:06:52 PM

Denise Heckler, Project Manager II
(330)966-9477
Denise.Heckler@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: GHD Services Inc.
Job ID: 480-192101-1
Project/Site: 11137273, City of Lockport Landfill

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project/Site: 11137273, City of Lockport Landfill

Job ID: 480-192101-1

Job ID: 480-192101-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-192101-1

Comments
No additional comments.

Receipt
The samples were received on 11/9/2021 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: GHD Services Inc.
Job ID: 480-192101-1
Project/Site: 11137273, City of Lockport Landfill

Client Sample ID: WG-11137273-110921-SG-001 — Lab Sample ID: 480-192101-1

No Detections.

Client Sample ID: WG-11137273-110921-SG-002 — Lab Sample ID: 480-192101-2

No Detections.

Client Sample ID: WG-11137273-110921-SG-003 — Lab Sample ID: 480-192101-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.6		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.3		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	1.7		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: WG-11137273-110921-SG-004 — Lab Sample ID: 480-192101-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: WG-11137273-110921-SG-005 — Lab Sample ID: 480-192101-5

No Detections.

Client Sample ID: WG-11137273-110921-SG-006 — Lab Sample ID: 480-192101-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Toluene	2.0		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: WG-11137273-110921-SG-007 — Lab Sample ID: 480-192101-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	52		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	7.3		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: TB-11137273-110921-SG — Lab Sample ID: 480-192101-8

No Detections.

This Detection Summary does not include radiochemical test results.

Client: GHD Services Inc.
Job ID: 480-192101-1
Project/Site: 11137273, City of Lockport Landfill

Client Sample ID: WG-11137273-110921-SG-001
Lab Sample ID: 480-192101-1
Date Collected: 11/09/21 10:30
Matrix: Water
Date Received: 11/09/21 13:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 00:23	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			11/17/21 00:23	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 00:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			11/17/21 00:23	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			11/17/21 00:23	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 00:23	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			11/17/21 00:23	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0		ug/L			11/17/21 00:23	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 00:23	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			11/17/21 00:23	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			11/17/21 00:23	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 00:23	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 00:23	1
2-Butanone (MEK)	10	U	10		ug/L			11/17/21 00:23	1
2-Hexanone	5.0	U	5.0		ug/L			11/17/21 00:23	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			11/17/21 00:23	1
Acetone	10	U	10		ug/L			11/17/21 00:23	1
Benzene	1.0	U	1.0		ug/L			11/17/21 00:23	1
Bromodichloromethane	1.0	U	1.0		ug/L			11/17/21 00:23	1
Bromoform	1.0	U	1.0		ug/L			11/17/21 00:23	1
Bromomethane	1.0	U	1.0		ug/L			11/17/21 00:23	1
Carbon disulfide	1.0	U	1.0		ug/L			11/17/21 00:23	1
Carbon tetrachloride	1.0	U	1.0		ug/L			11/17/21 00:23	1
Chlorobenzene	1.0	U	1.0		ug/L			11/17/21 00:23	1
Dibromochloromethane	1.0	U	1.0		ug/L			11/17/21 00:23	1
Chloroethane	1.0	U	1.0		ug/L			11/17/21 00:23	1
Chloroform	1.0	U	1.0		ug/L			11/17/21 00:23	1
Chloromethane	1.0	U	1.0		ug/L			11/17/21 00:23	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 00:23	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 00:23	1
Cyclohexane	1.0	U	1.0		ug/L			11/17/21 00:23	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			11/17/21 00:23	1
Ethylbenzene	1.0	U	1.0		ug/L			11/17/21 00:23	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			11/17/21 00:23	1
Isopropylbenzene	1.0	U	1.0		ug/L			11/17/21 00:23	1
Methyl acetate	2.5	U	2.5		ug/L			11/17/21 00:23	1
Methyl tert-butyl ether	1.0	U	1.0		ug/L			11/17/21 00:23	1
Methylcyclohexane	1.0	U	1.0		ug/L			11/17/21 00:23	1
Methylene Chloride	1.0	U	1.0		ug/L			11/17/21 00:23	1
Styrene	1.0	U	1.0		ug/L			11/17/21 00:23	1
Tetrachloroethene	1.0	U	1.0		ug/L			11/17/21 00:23	1
Toluene	1.0	U	1.0		ug/L			11/17/21 00:23	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 00:23	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 00:23	1
Trichloroethene	1.0	U	1.0		ug/L			11/17/21 00:23	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			11/17/21 00:23	1
Vinyl chloride	1.0	U	1.0		ug/L			11/17/21 00:23	1
Xylenes, Total	2.0	U	2.0		ug/L			11/17/21 00:23	1

Client Sample ID: WG-11137273-110921-SG-001 Lab Sample ID: 480-192101-1

Date Collected: 11/09/21 10:30 **Matrix: Water**
Date Received: 11/09/21 13:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/17/21 00:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*11/17/21 00:23*	*1*
4-Bromofluorobenzene (Surr)	*86*		*73 - 120*		*11/17/21 00:23*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*11/17/21 00:23*	*1*

Client Sample ID: WG-11137273-110921-SG-002 Lab Sample ID: 480-192101-2

Date Collected: 11/09/21 10:45 **Matrix: Water**
Date Received: 11/09/21 13:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 00:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			11/17/21 00:46	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 00:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			11/17/21 00:46	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			11/17/21 00:46	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 00:46	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			11/17/21 00:46	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0		ug/L			11/17/21 00:46	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 00:46	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			11/17/21 00:46	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			11/17/21 00:46	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 00:46	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 00:46	1
2-Butanone (MEK)	10	U	10		ug/L			11/17/21 00:46	1
2-Hexanone	5.0	U	5.0		ug/L			11/17/21 00:46	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			11/17/21 00:46	1
Acetone	10	U	10		ug/L			11/17/21 00:46	1
Benzene	1.0	U	1.0		ug/L			11/17/21 00:46	1
Bromodichloromethane	1.0	U	1.0		ug/L			11/17/21 00:46	1
Bromoform	1.0	U	1.0		ug/L			11/17/21 00:46	1
Bromomethane	1.0	U	1.0		ug/L			11/17/21 00:46	1
Carbon disulfide	1.0	U	1.0		ug/L			11/17/21 00:46	1
Carbon tetrachloride	1.0	U	1.0		ug/L			11/17/21 00:46	1
Chlorobenzene	1.0	U	1.0		ug/L			11/17/21 00:46	1
Dibromochloromethane	1.0	U	1.0		ug/L			11/17/21 00:46	1
Chloroethane	1.0	U	1.0		ug/L			11/17/21 00:46	1
Chloroform	1.0	U	1.0		ug/L			11/17/21 00:46	1
Chloromethane	1.0	U	1.0		ug/L			11/17/21 00:46	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 00:46	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 00:46	1
Cyclohexane	1.0	U	1.0		ug/L			11/17/21 00:46	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			11/17/21 00:46	1
Ethylbenzene	1.0	U	1.0		ug/L			11/17/21 00:46	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			11/17/21 00:46	1
Isopropylbenzene	1.0	U	1.0		ug/L			11/17/21 00:46	1
Methyl acetate	2.5	U	2.5		ug/L			11/17/21 00:46	1
Methyl tert-butyl ether	1.0	U	1.0		ug/L			11/17/21 00:46	1
Methylcyclohexane	1.0	U	1.0		ug/L			11/17/21 00:46	1
Methylene Chloride	1.0	U	1.0		ug/L			11/17/21 00:46	1

Client Sample ID: WG-11137273-110921-SG-002 Lab Sample ID: 480-192101-2

Date Collected: 11/09/21 10:45 **Matrix: Water**
Date Received: 11/09/21 13:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0		ug/L			11/17/21 00:46	1
Tetrachloroethene	1.0	U	1.0		ug/L			11/17/21 00:46	1
Toluene	1.0	U	1.0		ug/L			11/17/21 00:46	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 00:46	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 00:46	1
Trichloroethene	1.0	U	1.0		ug/L			11/17/21 00:46	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			11/17/21 00:46	1
Vinyl chloride	1.0	U	1.0		ug/L			11/17/21 00:46	1
Xylenes, Total	2.0	U	2.0		ug/L			11/17/21 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/17/21 00:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*11/17/21 00:46*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*11/17/21 00:46*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*11/17/21 00:46*	*1*

Client Sample ID: WG-11137273-110921-SG-003 Lab Sample ID: 480-192101-3

Date Collected: 11/09/21 11:35 **Matrix: Water**
Date Received: 11/09/21 13:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 01:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			11/17/21 01:09	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 01:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			11/17/21 01:09	1
1,1-Dichloroethane	**2.6**		1.0		ug/L			11/17/21 01:09	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 01:09	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:09	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0		ug/L			11/17/21 01:09	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:09	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			11/17/21 01:09	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			11/17/21 01:09	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:09	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:09	1
2-Butanone (MEK)	10	U	10		ug/L			11/17/21 01:09	1
2-Hexanone	5.0	U	5.0		ug/L			11/17/21 01:09	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			11/17/21 01:09	1
Acetone	10	U	10		ug/L			11/17/21 01:09	1
Benzene	1.0	U	1.0		ug/L			11/17/21 01:09	1
Bromodichloromethane	1.0	U	1.0		ug/L			11/17/21 01:09	1
Bromoform	1.0	U	1.0		ug/L			11/17/21 01:09	1
Bromomethane	1.0	U	1.0		ug/L			11/17/21 01:09	1
Carbon disulfide	1.0	U	1.0		ug/L			11/17/21 01:09	1
Carbon tetrachloride	1.0	U	1.0		ug/L			11/17/21 01:09	1
Chlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:09	1
Dibromochloromethane	1.0	U	1.0		ug/L			11/17/21 01:09	1
Chloroethane	1.0	U	1.0		ug/L			11/17/21 01:09	1
Chloroform	1.0	U	1.0		ug/L			11/17/21 01:09	1
Chloromethane	1.0	U	1.0		ug/L			11/17/21 01:09	1

Client Sample ID: WG-11137273-110921-SG-003 Lab Sample ID: 480-192101-3

Date Collected: 11/09/21 11:35 **Matrix: Water**
Date Received: 11/09/21 13:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**3.3**		1.0		ug/L			11/17/21 01:09	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 01:09	1
Cyclohexane	1.0	U	1.0		ug/L			11/17/21 01:09	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			11/17/21 01:09	1
Ethylbenzene	1.0	U	1.0		ug/L			11/17/21 01:09	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			11/17/21 01:09	1
Isopropylbenzene	1.0	U	1.0		ug/L			11/17/21 01:09	1
Methyl acetate	2.5	U	2.5		ug/L			11/17/21 01:09	1
Methyl tert-butyl ether	1.0	U	1.0		ug/L			11/17/21 01:09	1
Methylcyclohexane	1.0	U	1.0		ug/L			11/17/21 01:09	1
Methylene Chloride	1.0	U	1.0		ug/L			11/17/21 01:09	1
Styrene	1.0	U	1.0		ug/L			11/17/21 01:09	1
Tetrachloroethene	1.0	U	1.0		ug/L			11/17/21 01:09	1
Toluene	1.0	U	1.0		ug/L			11/17/21 01:09	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 01:09	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 01:09	1
Trichloroethene	1.0	U	1.0		ug/L			11/17/21 01:09	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			11/17/21 01:09	1
Vinyl chloride	**1.7**		1.0		ug/L			11/17/21 01:09	1
Xylenes, Total	2.0	U	2.0		ug/L			11/17/21 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/17/21 01:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*11/17/21 01:09*	*1*
4-Bromofluorobenzene (Surr)	*85*		*73 - 120*		*11/17/21 01:09*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*11/17/21 01:09*	*1*

Client Sample ID: WG-11137273-110921-SG-004 Lab Sample ID: 480-192101-4

Date Collected: 11/09/21 11:10 **Matrix: Water**
Date Received: 11/09/21 13:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 01:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			11/17/21 01:32	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 01:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			11/17/21 01:32	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			11/17/21 01:32	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 01:32	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0		ug/L			11/17/21 01:32	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:32	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			11/17/21 01:32	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			11/17/21 01:32	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:32	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:32	1
2-Butanone (MEK)	10	U	10		ug/L			11/17/21 01:32	1
2-Hexanone	5.0	U	5.0		ug/L			11/17/21 01:32	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			11/17/21 01:32	1
Acetone	10	U	10		ug/L			11/17/21 01:32	1

Client Sample ID: WG-11137273-110921-SG-004 Lab Sample ID: 480-192101-4

Date Collected: 11/09/21 11:10 **Matrix: Water**
Date Received: 11/09/21 13:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0		ug/L			11/17/21 01:32	1
Bromodichloromethane	1.0	U	1.0		ug/L			11/17/21 01:32	1
Bromoform	1.0	U	1.0		ug/L			11/17/21 01:32	1
Bromomethane	1.0	U	1.0		ug/L			11/17/21 01:32	1
Carbon disulfide	1.0	U	1.0		ug/L			11/17/21 01:32	1
Carbon tetrachloride	1.0	U	1.0		ug/L			11/17/21 01:32	1
Chlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:32	1
Dibromochloromethane	1.0	U	1.0		ug/L			11/17/21 01:32	1
Chloroethane	1.0	U	1.0		ug/L			11/17/21 01:32	1
Chloroform	1.0	U	1.0		ug/L			11/17/21 01:32	1
Chloromethane	1.0	U	1.0		ug/L			11/17/21 01:32	1
cis-1,2-Dichloroethene	**2.1**		1.0		ug/L			11/17/21 01:32	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 01:32	1
Cyclohexane	1.0	U	1.0		ug/L			11/17/21 01:32	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			11/17/21 01:32	1
Ethylbenzene	1.0	U	1.0		ug/L			11/17/21 01:32	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			11/17/21 01:32	1
Isopropylbenzene	1.0	U	1.0		ug/L			11/17/21 01:32	1
Methyl acetate	2.5	U	2.5		ug/L			11/17/21 01:32	1
Methyl tert-butyl ether	1.0	U	1.0		ug/L			11/17/21 01:32	1
Methylcyclohexane	1.0	U	1.0		ug/L			11/17/21 01:32	1
Methylene Chloride	1.0	U	1.0		ug/L			11/17/21 01:32	1
Styrene	1.0	U	1.0		ug/L			11/17/21 01:32	1
Tetrachloroethene	1.0	U	1.0		ug/L			11/17/21 01:32	1
Toluene	1.0	U	1.0		ug/L			11/17/21 01:32	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 01:32	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 01:32	1
Trichloroethene	1.0	U	1.0		ug/L			11/17/21 01:32	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			11/17/21 01:32	1
Vinyl chloride	1.0	U	1.0		ug/L			11/17/21 01:32	1
Xylenes, Total	2.0	U	2.0		ug/L			11/17/21 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/17/21 01:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*11/17/21 01:32*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*11/17/21 01:32*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*11/17/21 01:32*	*1*

Client Sample ID: WG-11137273-110921-SG-005 Lab Sample ID: 480-192101-5

Date Collected: 11/09/21 11:20 **Matrix: Water**
Date Received: 11/09/21 13:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 01:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			11/17/21 01:55	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 01:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			11/17/21 01:55	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			11/17/21 01:55	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 01:55	1

Client: GHD Services Inc.
Project/Site: 11137273, City of Lockport Landfill

Job ID: 480-192101-1

Client Sample ID: WG-11137273-110921-SG-005
Date Collected: 11/09/21 11:20
Date Received: 11/09/21 13:00

Lab Sample ID: 480-192101-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0		ug/L			11/17/21 01:55	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:55	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			11/17/21 01:55	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			11/17/21 01:55	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:55	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:55	1
2-Butanone (MEK)	10	U	10		ug/L			11/17/21 01:55	1
2-Hexanone	5.0	U	5.0		ug/L			11/17/21 01:55	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			11/17/21 01:55	1
Acetone	10	U	10		ug/L			11/17/21 01:55	1
Benzene	1.0	U	1.0		ug/L			11/17/21 01:55	1
Bromodichloromethane	1.0	U	1.0		ug/L			11/17/21 01:55	1
Bromoform	1.0	U	1.0		ug/L			11/17/21 01:55	1
Bromomethane	1.0	U	1.0		ug/L			11/17/21 01:55	1
Carbon disulfide	1.0	U	1.0		ug/L			11/17/21 01:55	1
Carbon tetrachloride	1.0	U	1.0		ug/L			11/17/21 01:55	1
Chlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:55	1
Dibromochloromethane	1.0	U	1.0		ug/L			11/17/21 01:55	1
Chloroethane	1.0	U	1.0		ug/L			11/17/21 01:55	1
Chloroform	1.0	U	1.0		ug/L			11/17/21 01:55	1
Chloromethane	1.0	U	1.0		ug/L			11/17/21 01:55	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 01:55	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 01:55	1
Cyclohexane	1.0	U	1.0		ug/L			11/17/21 01:55	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			11/17/21 01:55	1
Ethylbenzene	1.0	U	1.0		ug/L			11/17/21 01:55	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			11/17/21 01:55	1
Isopropylbenzene	1.0	U	1.0		ug/L			11/17/21 01:55	1
Methyl acetate	2.5	U	2.5		ug/L			11/17/21 01:55	1
Methyl tert-butyl ether	1.0	U	1.0		ug/L			11/17/21 01:55	1
Methylcyclohexane	1.0	U	1.0		ug/L			11/17/21 01:55	1
Methylene Chloride	1.0	U	1.0		ug/L			11/17/21 01:55	1
Styrene	1.0	U	1.0		ug/L			11/17/21 01:55	1
Tetrachloroethene	1.0	U	1.0		ug/L			11/17/21 01:55	1
Toluene	1.0	U	1.0		ug/L			11/17/21 01:55	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 01:55	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 01:55	1
Trichloroethene	1.0	U	1.0		ug/L			11/17/21 01:55	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			11/17/21 01:55	1
Vinyl chloride	1.0	U	1.0		ug/L			11/17/21 01:55	1
Xylenes, Total	2.0	U	2.0		ug/L			11/17/21 01:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/17/21 01:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*11/17/21 01:55*	*1*
4-Bromofluorobenzene (Surr)	*86*		*73 - 120*		*11/17/21 01:55*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*11/17/21 01:55*	*1*

Client: GHD Services Inc.
Job ID: 480-192101-1
Project/Site: 11137273, City of Lockport Landfill

Client Sample ID: WG-11137273-110921-SG-006
Lab Sample ID: 480-192101-6
Date Collected: 11/09/21 11:50
Matrix: Water
Date Received: 11/09/21 13:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 02:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			11/17/21 02:18	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 02:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			11/17/21 02:18	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			11/17/21 02:18	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 02:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			11/17/21 02:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0		ug/L			11/17/21 02:18	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 02:18	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			11/17/21 02:18	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			11/17/21 02:18	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 02:18	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 02:18	1
2-Butanone (MEK)	10	U	10		ug/L			11/17/21 02:18	1
2-Hexanone	5.0	U	5.0		ug/L			11/17/21 02:18	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			11/17/21 02:18	1
Acetone	10	U	10		ug/L			11/17/21 02:18	1
Benzene	1.0	U	1.0		ug/L			11/17/21 02:18	1
Bromodichloromethane	1.0	U	1.0		ug/L			11/17/21 02:18	1
Bromoform	1.0	U	1.0		ug/L			11/17/21 02:18	1
Bromomethane	1.0	U	1.0		ug/L			11/17/21 02:18	1
Carbon disulfide	1.0	U	1.0		ug/L			11/17/21 02:18	1
Carbon tetrachloride	1.0	U	1.0		ug/L			11/17/21 02:18	1
Chlorobenzene	1.0	U	1.0		ug/L			11/17/21 02:18	1
Dibromochloromethane	1.0	U	1.0		ug/L			11/17/21 02:18	1
Chloroethane	1.0	U	1.0		ug/L			11/17/21 02:18	1
Chloroform	1.0	U	1.0		ug/L			11/17/21 02:18	1
Chloromethane	1.0	U	1.0		ug/L			11/17/21 02:18	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 02:18	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 02:18	1
Cyclohexane	1.0	U	1.0		ug/L			11/17/21 02:18	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			11/17/21 02:18	1
Ethylbenzene	1.0	U	1.0		ug/L			11/17/21 02:18	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			11/17/21 02:18	1
Isopropylbenzene	1.0	U	1.0		ug/L			11/17/21 02:18	1
Methyl acetate	2.5	U	2.5		ug/L			11/17/21 02:18	1
Methyl tert-butyl ether	1.0	U	1.0		ug/L			11/17/21 02:18	1
Methylcyclohexane	1.0	U	1.0		ug/L			11/17/21 02:18	1
Methylene Chloride	1.0	U	1.0		ug/L			11/17/21 02:18	1
Styrene	1.0	U	1.0		ug/L			11/17/21 02:18	1
Tetrachloroethene	1.0	U	1.0		ug/L			11/17/21 02:18	1
Toluene	**2.0**		1.0		ug/L			11/17/21 02:18	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 02:18	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 02:18	1
Trichloroethene	1.0	U	1.0		ug/L			11/17/21 02:18	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			11/17/21 02:18	1
Vinyl chloride	1.0	U	1.0		ug/L			11/17/21 02:18	1
Xylenes, Total	2.0	U	2.0		ug/L			11/17/21 02:18	1

Client Sample ID: WG-11137273-110921-SG-006
Lab Sample ID: 480-192101-6
Date Collected: 11/09/21 11:50
Matrix: Water
Date Received: 11/09/21 13:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/17/21 02:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*11/17/21 02:18*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*11/17/21 02:18*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*11/17/21 02:18*	*1*

Client Sample ID: WG-11137273-110921-SG-007
Lab Sample ID: 480-192101-7
Date Collected: 11/09/21 12:10
Matrix: Water
Date Received: 11/09/21 13:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 02:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			11/17/21 02:42	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 02:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			11/17/21 02:42	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			11/17/21 02:42	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 02:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			11/17/21 02:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0		ug/L			11/17/21 02:42	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 02:42	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			11/17/21 02:42	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			11/17/21 02:42	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 02:42	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 02:42	1
2-Butanone (MEK)	10	U	10		ug/L			11/17/21 02:42	1
2-Hexanone	5.0	U	5.0		ug/L			11/17/21 02:42	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			11/17/21 02:42	1
Acetone	10	U	10		ug/L			11/17/21 02:42	1
Benzene	1.0	U	1.0		ug/L			11/17/21 02:42	1
Bromodichloromethane	1.0	U	1.0		ug/L			11/17/21 02:42	1
Bromoform	1.0	U	1.0		ug/L			11/17/21 02:42	1
Bromomethane	1.0	U	1.0		ug/L			11/17/21 02:42	1
Carbon disulfide	1.0	U	1.0		ug/L			11/17/21 02:42	1
Carbon tetrachloride	1.0	U	1.0		ug/L			11/17/21 02:42	1
Chlorobenzene	1.0	U	1.0		ug/L			11/17/21 02:42	1
Dibromochloromethane	1.0	U	1.0		ug/L			11/17/21 02:42	1
Chloroethane	1.0	U	1.0		ug/L			11/17/21 02:42	1
Chloroform	1.0	U	1.0		ug/L			11/17/21 02:42	1
Chloromethane	1.0	U	1.0		ug/L			11/17/21 02:42	1
cis-1,2-Dichloroethene	**52**		1.0		ug/L			11/17/21 02:42	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 02:42	1
Cyclohexane	1.0	U	1.0		ug/L			11/17/21 02:42	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			11/17/21 02:42	1
Ethylbenzene	1.0	U	1.0		ug/L			11/17/21 02:42	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			11/17/21 02:42	1
Isopropylbenzene	1.0	U	1.0		ug/L			11/17/21 02:42	1
Methyl acetate	2.5	U	2.5		ug/L			11/17/21 02:42	1
Methyl tert-butyl ether	1.0	U	1.0		ug/L			11/17/21 02:42	1
Methylcyclohexane	1.0	U	1.0		ug/L			11/17/21 02:42	1
Methylene Chloride	1.0	U	1.0		ug/L			11/17/21 02:42	1

Client Sample ID: WG-11137273-110921-SG-007
Lab Sample ID: 480-192101-7
Date Collected: 11/09/21 12:10
Matrix: Water
Date Received: 11/09/21 13:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0		ug/L			11/17/21 02:42	1
Tetrachloroethene	1.0	U	1.0		ug/L			11/17/21 02:42	1
Toluene	1.0	U	1.0		ug/L			11/17/21 02:42	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 02:42	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 02:42	1
Trichloroethene	1.0	U	1.0		ug/L			11/17/21 02:42	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			11/17/21 02:42	1
Vinyl chloride	**7.3**		1.0		ug/L			11/17/21 02:42	1
Xylenes, Total	2.0	U	2.0		ug/L			11/17/21 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/17/21 02:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*11/17/21 02:42*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*11/17/21 02:42*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*11/17/21 02:42*	*1*

Client Sample ID: TB-11137273-110921-SG
Lab Sample ID: 480-192101-8
Date Collected: 11/09/21 00:00
Matrix: Water
Date Received: 11/09/21 13:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 01:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			11/17/21 01:25	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 01:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			11/17/21 01:25	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			11/17/21 01:25	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 01:25	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0		ug/L			11/17/21 01:25	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:25	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			11/17/21 01:25	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			11/17/21 01:25	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:25	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:25	1
2-Butanone (MEK)	10	U	10		ug/L			11/17/21 01:25	1
2-Hexanone	5.0	U	5.0		ug/L			11/17/21 01:25	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			11/17/21 01:25	1
Acetone	10	U	10		ug/L			11/17/21 01:25	1
Benzene	1.0	U	1.0		ug/L			11/17/21 01:25	1
Bromodichloromethane	1.0	U	1.0		ug/L			11/17/21 01:25	1
Bromoform	1.0	U	1.0		ug/L			11/17/21 01:25	1
Bromomethane	1.0	U	1.0		ug/L			11/17/21 01:25	1
Carbon disulfide	1.0	U	1.0		ug/L			11/17/21 01:25	1
Carbon tetrachloride	1.0	U	1.0		ug/L			11/17/21 01:25	1
Chlorobenzene	1.0	U	1.0		ug/L			11/17/21 01:25	1
Dibromochloromethane	1.0	U	1.0		ug/L			11/17/21 01:25	1
Chloroethane	1.0	U	1.0		ug/L			11/17/21 01:25	1
Chloroform	1.0	U	1.0		ug/L			11/17/21 01:25	1
Chloromethane	1.0	U	1.0		ug/L			11/17/21 01:25	1

Client: GHD Services Inc.
Job ID: 480-192101-1
Project/Site: 11137273, City of Lockport Landfill

Client Sample ID: TB-11137273-110921-SG
Lab Sample ID: 480-192101-8
Date Collected: 11/09/21 00:00
Matrix: Water
Date Received: 11/09/21 13:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 01:25	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 01:25	1
Cyclohexane	1.0	U	1.0		ug/L			11/17/21 01:25	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			11/17/21 01:25	1
Ethylbenzene	1.0	U	1.0		ug/L			11/17/21 01:25	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			11/17/21 01:25	1
Isopropylbenzene	1.0	U	1.0		ug/L			11/17/21 01:25	1
Methyl acetate	2.5	U	2.5		ug/L			11/17/21 01:25	1
Methyl tert-butyl ether	1.0	U	1.0		ug/L			11/17/21 01:25	1
Methylcyclohexane	1.0	U	1.0		ug/L			11/17/21 01:25	1
Methylene Chloride	1.0	U	1.0		ug/L			11/17/21 01:25	1
Styrene	1.0	U	1.0		ug/L			11/17/21 01:25	1
Tetrachloroethene	1.0	U	1.0		ug/L			11/17/21 01:25	1
Toluene	1.0	U	1.0		ug/L			11/17/21 01:25	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 01:25	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 01:25	1
Trichloroethene	1.0	U	1.0		ug/L			11/17/21 01:25	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			11/17/21 01:25	1
Vinyl chloride	1.0	U	1.0		ug/L			11/17/21 01:25	1
Xylenes, Total	2.0	U	2.0		ug/L			11/17/21 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/17/21 01:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*11/17/21 01:25*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*11/17/21 01:25*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*11/17/21 01:25*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 11137273, City of Lockport Landfill

Job ID: 480-192101-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-192101-1	WG-11137273-110921-SG-001	93	108	86	100
480-192101-2	WG-11137273-110921-SG-002	103	106	95	100
480-192101-3	WG-11137273-110921-SG-003	95	103	85	98
480-192101-4	WG-11137273-110921-SG-004	103	105	96	99
480-192101-5	WG-11137273-110921-SG-005	98	107	86	100
480-192101-6	WG-11137273-110921-SG-006	97	104	91	97
480-192101-7	WG-11137273-110921-SG-007	99	106	91	100
480-192101-8	TB-11137273-110921-SG	99	105	101	103
LCS 480-605225/6	Lab Control Sample	99	104	103	104
LCS 480-605233/6	Lab Control Sample	99	104	94	98
MB 480-605225/9	Method Blank	98	106	101	101
MB 480-605233/8	Method Blank	99	107	94	101

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-605225/9
Matrix: Water
Analysis Batch: 605225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 00:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			11/17/21 00:42	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			11/17/21 00:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			11/17/21 00:42	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			11/17/21 00:42	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 00:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			11/17/21 00:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0		ug/L			11/17/21 00:42	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 00:42	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			11/17/21 00:42	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			11/17/21 00:42	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 00:42	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			11/17/21 00:42	1
2-Butanone (MEK)	10	U	10		ug/L			11/17/21 00:42	1
2-Hexanone	5.0	U	5.0		ug/L			11/17/21 00:42	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			11/17/21 00:42	1
Acetone	10	U	10		ug/L			11/17/21 00:42	1
Benzene	1.0	U	1.0		ug/L			11/17/21 00:42	1
Bromodichloromethane	1.0	U	1.0		ug/L			11/17/21 00:42	1
Bromoform	1.0	U	1.0		ug/L			11/17/21 00:42	1
Bromomethane	1.0	U	1.0		ug/L			11/17/21 00:42	1
Carbon disulfide	1.0	U	1.0		ug/L			11/17/21 00:42	1
Carbon tetrachloride	1.0	U	1.0		ug/L			11/17/21 00:42	1
Chlorobenzene	1.0	U	1.0		ug/L			11/17/21 00:42	1
Dibromochloromethane	1.0	U	1.0		ug/L			11/17/21 00:42	1
Chloroethane	1.0	U	1.0		ug/L			11/17/21 00:42	1
Chloroform	1.0	U	1.0		ug/L			11/17/21 00:42	1
Chloromethane	1.0	U	1.0		ug/L			11/17/21 00:42	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 00:42	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 00:42	1
Cyclohexane	1.0	U	1.0		ug/L			11/17/21 00:42	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			11/17/21 00:42	1
Ethylbenzene	1.0	U	1.0		ug/L			11/17/21 00:42	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			11/17/21 00:42	1
Isopropylbenzene	1.0	U	1.0		ug/L			11/17/21 00:42	1
Methyl acetate	2.5	U	2.5		ug/L			11/17/21 00:42	1
Methyl tert-butyl ether	1.0	U	1.0		ug/L			11/17/21 00:42	1
Methylcyclohexane	1.0	U	1.0		ug/L			11/17/21 00:42	1
Methylene Chloride	1.0	U	1.0		ug/L			11/17/21 00:42	1
Styrene	1.0	U	1.0		ug/L			11/17/21 00:42	1
Tetrachloroethene	1.0	U	1.0		ug/L			11/17/21 00:42	1
Toluene	1.0	U	1.0		ug/L			11/17/21 00:42	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 00:42	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 00:42	1
Trichloroethene	1.0	U	1.0		ug/L			11/17/21 00:42	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			11/17/21 00:42	1
Vinyl chloride	1.0	U	1.0		ug/L			11/17/21 00:42	1
Xylenes, Total	2.0	U	2.0		ug/L			11/17/21 00:42	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-605225/9
Matrix: Water
Analysis Batch: 605225

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/17/21 00:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*11/17/21 00:42*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*11/17/21 00:42*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*11/17/21 00:42*	*1*

Lab Sample ID: LCS 480-605225/6
Matrix: Water
Analysis Batch: 605225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.3		ug/L		105	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.1		ug/L		101	76 - 120
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.1		ug/L		100	61 - 148
1,1-Dichloroethane	25.0	25.5		ug/L		102	77 - 120
1,1-Dichloroethene	25.0	25.1		ug/L		101	66 - 127
1,2,4-Trichlorobenzene	25.0	24.8		ug/L		99	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	26.2		ug/L		105	56 - 134
1,2-Dichlorobenzene	25.0	25.1		ug/L		100	80 - 124
1,2-Dichloroethane	25.0	25.7		ug/L		103	75 - 120
1,2-Dichloropropane	25.0	25.6		ug/L		102	76 - 120
1,3-Dichlorobenzene	25.0	24.7		ug/L		99	77 - 120
1,4-Dichlorobenzene	25.0	24.6		ug/L		98	80 - 120
2-Butanone (MEK)	125	138		ug/L		111	57 - 140
2-Hexanone	125	138		ug/L		111	65 - 127
4-Methyl-2-pentanone (MIBK)	125	138		ug/L		110	71 - 125
Acetone	125	134		ug/L		107	56 - 142
Benzene	25.0	24.8		ug/L		99	71 - 124
Bromodichloromethane	25.0	26.3		ug/L		105	80 - 122
Bromoform	25.0	28.2		ug/L		113	61 - 132
Bromomethane	25.0	22.4		ug/L		89	55 - 144
Carbon disulfide	25.0	24.5		ug/L		98	59 - 134
Carbon tetrachloride	25.0	27.7		ug/L		111	72 - 134
Chlorobenzene	25.0	24.8		ug/L		99	80 - 120
Dibromochloromethane	25.0	26.3		ug/L		105	75 - 125
Chloroethane	25.0	20.7		ug/L		83	69 - 136
Chloroform	25.0	25.0		ug/L		100	73 - 127
Chloromethane	25.0	19.3		ug/L		77	68 - 124
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	74 - 124
cis-1,3-Dichloropropene	25.0	25.3		ug/L		101	74 - 124
Cyclohexane	25.0	25.2		ug/L		101	59 - 135
Dichlorodifluoromethane	25.0	17.4		ug/L		70	59 - 135
Ethylbenzene	25.0	25.1		ug/L		100	77 - 123
1,2-Dibromoethane	25.0	25.8		ug/L		103	77 - 120
Isopropylbenzene	25.0	24.9		ug/L		100	77 - 122
Methyl acetate	50.0	57.4		ug/L		115	74 - 133
Methyl tert-butyl ether	25.0	25.5		ug/L		102	77 - 120
Methylcyclohexane	25.0	24.9		ug/L		99	68 - 134

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-605225/6
Matrix: Water
Analysis Batch: 605225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	24.9		ug/L		99	75 - 124
Styrene	25.0	25.3		ug/L		101	80 - 120
Tetrachloroethene	25.0	25.7		ug/L		103	74 - 122
Toluene	25.0	24.0		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	25.5		ug/L		102	73 - 127
trans-1,3-Dichloropropene	25.0	24.8		ug/L		99	80 - 120
Trichloroethene	25.0	25.9		ug/L		103	74 - 123
Trichlorofluoromethane	25.0	26.0		ug/L		104	62 - 150
Vinyl chloride	25.0	21.0		ug/L		84	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

Lab Sample ID: MB 480-605233/8
Matrix: Water
Analysis Batch: 605233

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	ug/L			11/17/21 00:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	ug/L			11/17/21 00:01	1
1,1,2-Trichloroethane	1.0	U	1.0	ug/L			11/17/21 00:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	ug/L			11/17/21 00:01	1
1,1-Dichloroethane	1.0	U	1.0	ug/L			11/17/21 00:01	1
1,1-Dichloroethene	1.0	U	1.0	ug/L			11/17/21 00:01	1
1,2,4-Trichlorobenzene	1.0	U	1.0	ug/L			11/17/21 00:01	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	ug/L			11/17/21 00:01	1
1,2-Dichlorobenzene	1.0	U	1.0	ug/L			11/17/21 00:01	1
1,2-Dichloroethane	1.0	U	1.0	ug/L			11/17/21 00:01	1
1,2-Dichloropropane	1.0	U	1.0	ug/L			11/17/21 00:01	1
1,3-Dichlorobenzene	1.0	U	1.0	ug/L			11/17/21 00:01	1
1,4-Dichlorobenzene	1.0	U	1.0	ug/L			11/17/21 00:01	1
2-Butanone (MEK)	10	U	10	ug/L			11/17/21 00:01	1
2-Hexanone	5.0	U	5.0	ug/L			11/17/21 00:01	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	ug/L			11/17/21 00:01	1
Acetone	10	U	10	ug/L			11/17/21 00:01	1
Benzene	1.0	U	1.0	ug/L			11/17/21 00:01	1
Bromodichloromethane	1.0	U	1.0	ug/L			11/17/21 00:01	1
Bromoform	1.0	U	1.0	ug/L			11/17/21 00:01	1
Bromomethane	1.0	U	1.0	ug/L			11/17/21 00:01	1
Carbon disulfide	1.0	U	1.0	ug/L			11/17/21 00:01	1
Carbon tetrachloride	1.0	U	1.0	ug/L			11/17/21 00:01	1
Chlorobenzene	1.0	U	1.0	ug/L			11/17/21 00:01	1
Dibromochloromethane	1.0	U	1.0	ug/L			11/17/21 00:01	1
Chloroethane	1.0	U	1.0	ug/L			11/17/21 00:01	1
Chloroform	1.0	U	1.0	ug/L			11/17/21 00:01	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-605233/8
Matrix: Water
Analysis Batch: 605233

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0		ug/L			11/17/21 00:01	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 00:01	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 00:01	1
Cyclohexane	1.0	U	1.0		ug/L			11/17/21 00:01	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			11/17/21 00:01	1
Ethylbenzene	1.0	U	1.0		ug/L			11/17/21 00:01	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			11/17/21 00:01	1
Isopropylbenzene	1.0	U	1.0		ug/L			11/17/21 00:01	1
Methyl acetate	2.5	U	2.5		ug/L			11/17/21 00:01	1
Methyl tert-butyl ether	1.0	U	1.0		ug/L			11/17/21 00:01	1
Methylcyclohexane	1.0	U	1.0		ug/L			11/17/21 00:01	1
Methylene Chloride	1.0	U	1.0		ug/L			11/17/21 00:01	1
Styrene	1.0	U	1.0		ug/L			11/17/21 00:01	1
Tetrachloroethene	1.0	U	1.0		ug/L			11/17/21 00:01	1
Toluene	1.0	U	1.0		ug/L			11/17/21 00:01	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			11/17/21 00:01	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			11/17/21 00:01	1
Trichloroethene	1.0	U	1.0		ug/L			11/17/21 00:01	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			11/17/21 00:01	1
Vinyl chloride	1.0	U	1.0		ug/L			11/17/21 00:01	1
Xylenes, Total	2.0	U	2.0		ug/L			11/17/21 00:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/17/21 00:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*11/17/21 00:01*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*11/17/21 00:01*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*11/17/21 00:01*	*1*

Lab Sample ID: LCS 480-605233/6
Matrix: Water
Analysis Batch: 605233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.0		ug/L		88	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.9		ug/L		108	76 - 120
1,1,2-Trichloroethane	25.0	22.8		ug/L		91	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.3		ug/L		89	61 - 148
1,1-Dichloroethane	25.0	23.4		ug/L		94	77 - 120
1,1-Dichloroethene	25.0	21.9		ug/L		88	66 - 127
1,2,4-Trichlorobenzene	25.0	21.7		ug/L		87	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.9		ug/L		100	56 - 134
1,2-Dichlorobenzene	25.0	22.9		ug/L		91	80 - 124
1,2-Dichloroethane	25.0	24.1		ug/L		96	75 - 120
1,2-Dichloropropane	25.0	24.8		ug/L		99	76 - 120
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	77 - 120
1,4-Dichlorobenzene	25.0	22.8		ug/L		91	80 - 120
2-Butanone (MEK)	125	137		ug/L		110	57 - 140
2-Hexanone	125	136		ug/L		109	65 - 127

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-605233/6
Matrix: Water
Analysis Batch: 605233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	125	137		ug/L		110	71 - 125
Acetone	125	163		ug/L		130	56 - 142
Benzene	25.0	22.9		ug/L		91	71 - 124
Bromodichloromethane	25.0	23.8		ug/L		95	80 - 122
Bromoform	25.0	22.1		ug/L		88	61 - 132
Bromomethane	25.0	20.4		ug/L		82	55 - 144
Carbon disulfide	25.0	21.9		ug/L		88	59 - 134
Carbon tetrachloride	25.0	21.6		ug/L		86	72 - 134
Chlorobenzene	25.0	22.6		ug/L		91	80 - 120
Dibromochloromethane	25.0	22.6		ug/L		90	75 - 125
Chloroethane	25.0	23.1		ug/L		92	69 - 136
Chloroform	25.0	22.1		ug/L		89	73 - 127
Chloromethane	25.0	24.6		ug/L		98	68 - 124
cis-1,2-Dichloroethene	25.0	22.8		ug/L		91	74 - 124
cis-1,3-Dichloropropene	25.0	22.4		ug/L		90	74 - 124
Cyclohexane	25.0	24.0		ug/L		96	59 - 135
Dichlorodifluoromethane	25.0	22.7		ug/L		91	59 - 135
Ethylbenzene	25.0	21.6		ug/L		86	77 - 123
1,2-Dibromoethane	25.0	23.5		ug/L		94	77 - 120
Isopropylbenzene	25.0	24.3		ug/L		97	77 - 122
Methyl acetate	50.0	52.4		ug/L		105	74 - 133
Methyl tert-butyl ether	25.0	23.3		ug/L		93	77 - 120
Methylcyclohexane	25.0	22.5		ug/L		90	68 - 134
Methylene Chloride	25.0	22.9		ug/L		92	75 - 124
Styrene	25.0	21.6		ug/L		86	80 - 120
Tetrachloroethene	25.0	20.2		ug/L		81	74 - 122
Toluene	25.0	22.9		ug/L		92	80 - 122
trans-1,2-Dichloroethene	25.0	22.1		ug/L		88	73 - 127
trans-1,3-Dichloropropene	25.0	23.6		ug/L		95	80 - 120
Trichloroethene	25.0	22.5		ug/L		90	74 - 123
Trichlorofluoromethane	25.0	23.7		ug/L		95	62 - 150
Vinyl chloride	25.0	23.7		ug/L		95	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*

QC Association Summary

Client: GHD Services Inc.
Job ID: 480-192101-1
Project/Site: 11137273, City of Lockport Landfill

GC/MS VOA

Analysis Batch: 605225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192101-8	TB-11137273-110921-SG	Total/NA	Water	8260C	
MB 480-605225/9	Method Blank	Total/NA	Water	8260C	
LCS 480-605225/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 605233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192101-1	WG-11137273-110921-SG-001	Total/NA	Water	8260C	
480-192101-2	WG-11137273-110921-SG-002	Total/NA	Water	8260C	
480-192101-3	WG-11137273-110921-SG-003	Total/NA	Water	8260C	
480-192101-4	WG-11137273-110921-SG-004	Total/NA	Water	8260C	
480-192101-5	WG-11137273-110921-SG-005	Total/NA	Water	8260C	
480-192101-6	WG-11137273-110921-SG-006	Total/NA	Water	8260C	
480-192101-7	WG-11137273-110921-SG-007	Total/NA	Water	8260C	
MB 480-605233/8	Method Blank	Total/NA	Water	8260C	
LCS 480-605233/6	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: GHD Services Inc.
Job ID: 480-192101-1
Project/Site: 11137273, City of Lockport Landfill

Client Sample ID: WG-11137273-110921-SG-001
Lab Sample ID: 480-192101-1
Date Collected: 11/09/21 10:30
Matrix: Water
Date Received: 11/09/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	605233	11/17/21 00:23	WJD	TAL BUF

Client Sample ID: WG-11137273-110921-SG-002
Lab Sample ID: 480-192101-2
Date Collected: 11/09/21 10:45
Matrix: Water
Date Received: 11/09/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	605233	11/17/21 00:46	WJD	TAL BUF

Client Sample ID: WG-11137273-110921-SG-003
Lab Sample ID: 480-192101-3
Date Collected: 11/09/21 11:35
Matrix: Water
Date Received: 11/09/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	605233	11/17/21 01:09	WJD	TAL BUF

Client Sample ID: WG-11137273-110921-SG-004
Lab Sample ID: 480-192101-4
Date Collected: 11/09/21 11:10
Matrix: Water
Date Received: 11/09/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	605233	11/17/21 01:32	WJD	TAL BUF

Client Sample ID: WG-11137273-110921-SG-005
Lab Sample ID: 480-192101-5
Date Collected: 11/09/21 11:20
Matrix: Water
Date Received: 11/09/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	605233	11/17/21 01:55	WJD	TAL BUF

Client Sample ID: WG-11137273-110921-SG-006
Lab Sample ID: 480-192101-6
Date Collected: 11/09/21 11:50
Matrix: Water
Date Received: 11/09/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	605233	11/17/21 02:18	WJD	TAL BUF

Client Sample ID: WG-11137273-110921-SG-007
Lab Sample ID: 480-192101-7
Date Collected: 11/09/21 12:10
Matrix: Water
Date Received: 11/09/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	605233	11/17/21 02:42	WJD	TAL BUF

Lab Chronicle

Client: GHD Services Inc.
Job ID: 480-192101-1
Project/Site: 11137273, City of Lockport Landfill

Client Sample ID: TB-11137273-110921-SG
Lab Sample ID: 480-192101-8

Date Collected: 11/09/21 00:00
Matrix: Water
Date Received: 11/09/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	605225	11/17/21 01:25	AXK	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: GHD Services Inc.
Job ID: 480-192101-1
Project/Site: 11137273, City of Lockport Landfill

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

Method Summary

Client: GHD Services Inc.
Job ID: 480-192101-1
Project/Site: 11137273, City of Lockport Landfill

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: GHD Services Inc.
Job ID: 480-192101-1
Project/Site: 11137273, City of Lockport Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-192101-1	WG-11137273-110921-SG-001	Water	11/09/21 10:30	11/09/21 13:00
480-192101-2	WG-11137273-110921-SG-002	Water	11/09/21 10:45	11/09/21 13:00
480-192101-3	WG-11137273-110921-SG-003	Water	11/09/21 11:35	11/09/21 13:00
480-192101-4	WG-11137273-110921-SG-004	Water	11/09/21 11:10	11/09/21 13:00
480-192101-5	WG-11137273-110921-SG-005	Water	11/09/21 11:20	11/09/21 13:00
480-192101-6	WG-11137273-110921-SG-006	Water	11/09/21 11:50	11/09/21 13:00
480-192101-7	WG-11137273-110921-SG-007	Water	11/09/21 12:10	11/09/21 13:00
480-192101-8	TB-11137273-110921-SG	Water	11/09/21 00:00	11/09/21 13:00

CHAIN OF CUSTODY RECORD

GHD

Address: NF Office

Phone:

COC NO.: 60338

PAGE 1 OF 1

Fax:

Project No/ Phase/Task Code: 11137273-500

Project Name: City of Lockport Landfill

Project Location: 175 Oakhurst Street Lockport

GHD Chemistry Contact: Linda Waters

Sampler(s): D Tyran/S. Gardner

Laboratory Name: Eurofins TestAmerica

Lab Contact: Denise Heckler

Lab Location: Amherst, NY

SSOW ID:

Cooler No:

Carrier: Hand Delivered

Airbill No:

Total # of Containers: 23

480-192101 Chain of Custody

ANALYSIS REQUESTED (See Back of COC for Definitions)

PRESERVATION - (SEE BACK OF COC FOR ABBREVIATIONS): HCl

Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Filtered (Y/N)	8260C VOCs	Containers/sample	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:
1	WG-11137273-110921-SG-001	11/9/21	1030	WG	G	N	X	3		
2	WM-11137273-110921-SG-002	11/9/21	1045	WM	G	N	X	3		
3	WG-11137273-110921-SG-003	11/9/21	1135	WG	G	N	X	3		
4	WG-11137273-110921-SG-004	11/9/21	1110	WG	G	N	X	3		
5	WG-11137273-110921-SG-005	11/9/21	1120	WG	G	N	X	3		
6	WG-11137273-110921-SG-006	11/9/21	1155	WG	G	N	X	3		
7	WG-11137273-110921-SG-007	11/9/21	1210	WG	G	N	X	3		
8	TB-11137273-110921-SG	11/9/21		TB	G	N	X	2		DJT
9										
10										
11										
12										

TAT Required in business days (use separate COCs for different TATs):

☐ Other ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week

Notes/ Special Requirements:

	RELINQUISHED BY	COMPANY	DATE	TIME		RECEIVED BY	COMPANY	DATE	TIME
1.	David Tyran	GHD	11/9/21	1300	1.	Unknown Lincoln	TA	11/9/21	1300
2.					2.				
3.					3.				

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10B (20110804)

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-192101-1

Login Number: 192101
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GHD
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Appendix D

IC/EC Certification

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, 2021 to January 15, 2022

	YES	NO
1. Is the information above correct?	☑	☐
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?	☐	☑
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☑
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☑
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?	☐	☑

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Closed Landfill	☑	☐
7. Are all ICs in place and functioning as designed?	☑	☐

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

SITE NO. 932010 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
108.00-1-14	City of Lockport	Monitoring Plan O&M Plan Landuse Restriction Building Use Restriction

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.

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.

Operation and Maintenance Plan, Contingency Plan, March 1994. Regular inspections of the cap are performed. Repairs are done if needed to maintain the integrity of the cap.

Long Term Monitoring Program, March 1994.
The monitoring program is in place and used to evaluate the effectiveness of the remedial program.

108.15-1-1	City of Lockport	Monitoring Plan O&M Plan Landuse Restriction

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.

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.

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.

Long Term Monitoring Program, March 1994.
The monitoring program is in place and used to evaluate the effectiveness of the remedial program.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
108.00-1-14	Cover System Fencing/Access Control Monitoring Wells

Landfill Cap:

A Part 360 type clay cap was constructed 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 boundary of the landfill) was excavated from

Parcel	Engineering Control
the embankment and placed under the landfill cap.	
108.15-1-1	Monitoring Wells 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 Engineering Control 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
☑	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The 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 James Elmer (print name) at City of Lockport, 1 Locks Plaza, Lockport, NY 14094 (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

2/3/2022
Date

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 Britton (print name) at GHD, 285 Delaware Ave., Suite 500, Buffalo, NY 14202 (print business address),

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

STATE OF NEW YORK ★ LICENSED PROFESSIONAL ENGINEER ★ DAVID M. BRITTON 075722

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

Stamp (Required for PE)

2/7/2022
Date

ghd.com

The Power of Commitment