PARSONS

Phone: 315.451.9560
301 Plainfield Road, Suite 350 | Syracuse, New York 13212

October 7, 2024

Mr. Alvin Montana II
Plant Superintendent
Herkimer County Sewer District
106 West Main Street
P.O. Box 361
Mohawk, New York 13407-0361

RE: 2024 Leachate Sampling Report
Corteva Ferdula Landfill
Frankfort, New York

Dear Mr. Montana:

On behalf Corteva Agriscience™ (Corteva), Parsons is pleased to provide you with the 2024 Leachate Sampling Report for the Ferdula Landfill located in Frankfort, New York. This report fulfills the requirements specified in Waste Generator Permit G-21 (Issued: January 1, 2017) issued to DuPont (now known as Corteva, as per the correspondence letter dated October 24th, 2019) by Herkimer County Sewer District (HCSD) for the Ferdula Landfill. This letter report documents field activities and presents leachate analytical results.

FIELD ACTIVITIES

On July 9, 2024, Parsons collected water samples (one regular sample, one duplicate sample, one matrix spike sample, and one matrix spike duplicate sample) from the landfill's leachate collection system in accordance with the permit requirements.

The samples were collected from the alternate HCSD approved leachate discharge point located within a manhole situated along the north edge of the property and downgradient of the landfill (see location "A" on the attached figure provided in Attachment 1). Samples were collected using a peristaltic pump with dedicated polyurethane and silicon tubing. Any excess leachate water collected during sampling activities was poured back into the leachate system after sampling activities were performed.

Immediately following collection, samples were packed on ice in coolers that were secured and shipped with accompanying chain-of-custody forms to Alpha Analytical (Alpha) in Westborough, Massachusetts and Mansfield, Massachusetts. Alpha has been certified by the New York State Department of Health (NYSDOH) Environmental Laboratory Approved Program (ELAP).

Samples collected on July 9, 2024 were analyzed by Alpha for amenable cyanide by Environmental Protection Agency (EPA) Method 9010C, cyanide by Standard Method (SM) 20 9012B, metals by EPA Method 6020B, oil and grease by EPA Method 1664B, sulfide by EPA Method 4500-S2 D-2000 (by Eurofins Environment Testing laboratory in Barberton, Ohio), GS/MS semi-volatiles by EPA Method 8270E, total suspended solids by EPA Method 2540D-1997, pH by EPA Method 9040C, GS/MS volatiles by EPA Method 8260D, biochemical oxygen demand (BOD) by EPA Method 5210-B-2011, mercury by EPA Method 1631E, and phenolics by EPA Method 420.1.

During leachate sample collection, leachate flow was also measured at the same location from which leachate water samples were collected. Leachate flow was measured at a rate of approximately 1.0 gallons per minute.

LEACHATE SAMPLE ANALYTICAL RESULTS

Analytical results indicated that all monitored discharge parameters were below the requirements outlined in HCSD Permit G-021.

All sample results are provided in the attached Table 1, and a copy of analytical laboratory data report from Alpha Analytical with corresponding chain-of-custodies and ADQM on Data Review Narrative for samples is provided in Attachment 2.

In accordance with HCSD Generator Permit G-021, collection of the next round of leachate samples is scheduled during the third to fourth quarter of 2025 (July to September 2025 timeframe).

Parsons looks forward to your favorable review of this report. If you have any questions or require additional information, please call me at (513) 552-7009 (office) or (513) 368-9213 (cell).

Sincerely,

PARSONS

Eric Mysona

Eric Mysona, PG
Project Manager

Attachments (Table 1, and Attachments 1 and 2)

cc: Mr. Patrick Pagano – NYSDEC, Region 6
Project File: 453675

TABLES

Table 1
2024 Leachate Analytical Data Summary Table
July 2024
Corteva Ferdula Landfill
Frankfort, New York

			Field Sample ID	Ferdula_HCSD Effluent Daily Maximum Criteria[1]	EF2024-LEACHATE	EF2024-LEACHATE-D
			Location ID		LEACHATE	LEACHATE
			Sample Date		07/09/2024	07/09/2024
			Sample Matrix		Liquid	Liquid
			Sample Purpose		FS	DUP
			Sample Type		Leachate	Leachate
			SDG		L2438503-01	L2438503-02
Analytical Method	Parameter Name	Units	Filtered			
1631E	Mercury	MG/L	N	NS	0.0000006	0.0000007
1664B	Oil and Grease	MG/L	N	100 MG/L	<0.46	<0.46
2540 D-1997	Total Suspended Solids	MG/L	N	350 MG/L	210	99
420.1	Total Phenols (Phenolics)	MG/L	N	10 MG/L	<0.006	<0.006
4500-S2 D-2000	Sulfide	MG/L	N	10 MG/L	0.27	0.27
5210-B-2011	Biochemical Oxygen Demand (BOD) - 5 Day	MG/L	N	300 MG/L	2.8	2.2
6020B	Arsenic[3]	MG/L	N	NS	0.03156	0.03136
6020B	Barium	MG/L	N	5 MG/L	0.5102	0.4985
6020B	Cadmium	MG/L	N	.003 MG/L	<0.00005	<0.00005
6020B	Chromium	MG/L	N	.3 MG/L	0.00063 J	0.00045 J
6020B	Copper	MG/L	N	.6 MG/L	0.00043 J	<0.00038
6020B	Iron[2]	MG/L	N	NS	44	38.8
6020B	Lead[4]	MG/L	N	NS	0.01608	0.01389
6020B	Nickel	MG/L	N	.088 MG/L	0.00098 J	0.00090 J
6020B	Silver	MG/L	N	0.6 MG/L	<0.00016	<0.00016
6020B	Zinc	MG/L	N	.6 MG/L	<0.00341	0.00410 J
8260D	1,1,1-Trichloroethane	UG/L	N	NS	<7	<7
8260D	1,1,2,2-Tetrachloroethane	UG/L	N	NS	<1.7	<1.7
8260D	1,1,2-Trichloroethane	UG/L	N	NS	<5	<5
8260D	1,1-Dichloroethane	UG/L	N	NS	<7	<7
8260D	1,1-Dichloroethene	UG/L	N	NS	<1.7	<1.7
8260D	1,2-Dichloroethane	UG/L	N	NS	<1.3	<1.3
8260D	1,2-Dichloropropane	UG/L	N	NS	<1.4	<1.4
8260D	2-Hexanone	UG/L	N	NS	<10	<10
8260D	Acetone	UG/L	N	NS	<15	<15
8260D	Benzene	UG/L	N	NS	<1.6	<1.6
8260D	Bromodichloromethane	UG/L	N	NS	<1.9	<1.9
8260D	Bromoform	UG/L	N	NS	<6.5	<6.5
8260D	Carbon Disulfide	UG/L	N	NS	<10	<10
8260D	Carbon Tetrachloride	UG/L	N	NS	<1.3	<1.3
8260D	Chlorobenzene	UG/L	N	NS	<7	<7
8260D	Chlorodibromomethane	UG/L	N	NS	<1.5	<1.5
8260D	Chloroform	UG/L	N	NS	<7	<7
8260D	cis-1,2 Dichloroethene	UG/L	N	NS	79	83
8260D	cis-1,3-Dichloropropene	UG/L	N	NS	<1.4	<1.4
8260D	Ethyl Chloride	UG/L	N	NS	<7	<7
8260D	Ethylbenzene	UG/L	N	NS	<7	<7
8260D	meta- and para-Xylene	UG/L	N	NS	<7	<7
8260D	Methyl Bromide	UG/L	N	NS	<7	<7
8260D	Methyl Chloride	UG/L	N	NS	<7	<7
8260D	Methyl Ethyl Ketone	UG/L	N	NS	<19	<19
8260D	Methyl Isobutyl Ketone	UG/L	N	NS	<10	<10
8260D	Methylene Chloride	UG/L	N	NS	<7	<7
8260D	ortho-Xylene	UG/L	N	NS	<7	<7
8260D	Styrene	UG/L	N	NS	<7	<7
8260D	Tetrachloroethene	UG/L	N	NS	<1.8	<1.8
8260D	Toluene	UG/L	N	NS	<7	<7
8260D	trans-1,2-Dichloroethene	UG/L	N	NS	<7	<7
8260D	trans-1,3-Dichloropropene	UG/L	N	NS	<1.6	<1.6
8260D	Trichloroethene	UG/L	N	NS	5	5.5
8260D	Vinyl Chloride	UG/L	N	NS	6.4	7
8260D	Xylenes	UG/L	N	NS	<7	<7
8270E	1,2,4-Trichlorobenzene	UG/L	N	NS	<0.5	<0.5
8270E	1,2-Dichlorobenzene	UG/L	N	NS	<0.45	<0.45
8270E	1,3-Dichlorobenzene	UG/L	N	NS	<0.4	<0.4
8270E	1,4-Dichlorobenzene	UG/L	N	NS	<0.43	<0.43
8270E	2,4,5-Trichlorophenol	UG/L	N	NS	<0.77	<0.77
8270E	2,4,6-Trichlorophenol	UG/L	N	NS	<0.61	<0.61
8270E	2,4-Dichlorophenol	UG/L	N	NS	<0.41	<0.41
8270E	2,4-Dimethylphenol	UG/L	N	NS	<1.8	<1.8
8270E	2,4-Dinitrophenol	UG/L	N	NS	<6.6	<6.6

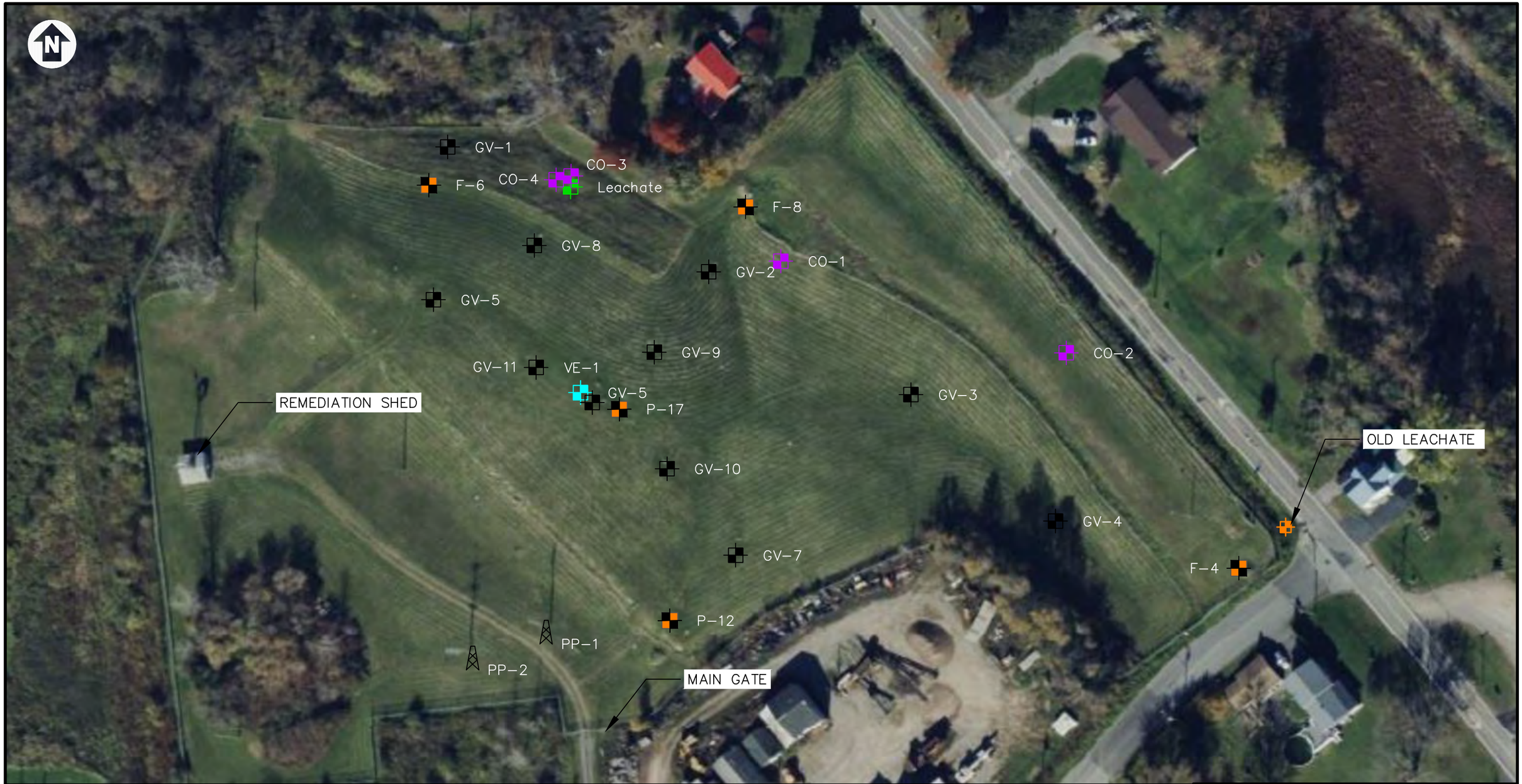
Table 1
2024 Leachate Analytical Data Summary Table
July 2024
Corteva Ferdula Landfill
Frankfort, New York

			Field Sample ID	Ferdula_HCSD Effluent Daily Maximum Criteria[1]	EF2024-LEACHATE	EF2024-LEACHATE-D
			Location ID		LEACHATE	LEACHATE
			Sample Date		07/09/2024	07/09/2024
			Sample Matrix		Liquid	Liquid
			Sample Purpose		FS	DUP
			Sample Type		Leachate	Leachate
			SDG		L2438503-01	L2438503-02
Analytical Method	Parameter Name	Units	Filtered			
8270E	2,4-Dinitrotoluene	UG/L	N	NS	<1.2	<1.2
8270E	2,6-Dinitrotoluene	UG/L	N	NS	<0.93	<0.93
8270E	2-Chloronaphthalene	UG/L	N	NS	<0.44	<0.44
8270E	2-Chlorophenol	UG/L	N	NS	<0.48	<0.48
8270E	2-Methylnaphthalene	UG/L	N	NS	<0.45	<0.45
8270E	2-Methylphenol (o-Cresol)	UG/L	N	NS	<0.49	<0.49
8270E	2-Nitroaniline	UG/L	N	NS	<0.5	<0.5
8270E	2-Nitrophenol	UG/L	N	NS	<0.85	<0.85
8270E	3,3'-Dichlorobenzidine	UG/L	N	NS	<1.6 UJ	<1.6 UJ
8270E	3- And 4- Methylphenol	UG/L	N	NS	<0.48	<0.48
8270E	3-Nitroaniline	UG/L	N	NS	<0.81	<0.81
8270E	4,6-Dinitro-2-Methylphenol	UG/L	N	NS	<1.8	<1.8
8270E	4-Bromophenyl Phenyl Ether	UG/L	N	NS	<0.38	<0.38
8270E	4-Chloro-3-Methylphenol	UG/L	N	NS	<0.35	<0.35
8270E	4-Chloroaniline	UG/L	N	NS	<1.1 UJ	<1.1 UJ
8270E	4-Chlorophenyl Phenyl Ether	UG/L	N	NS	<0.49	<0.49
8270E	4-Nitroaniline	UG/L	N	NS	<0.8	<0.8
8270E	4-Nitrophenol	UG/L	N	NS	<0.67	<0.67
8270E	Acenaphthene	UG/L	N	NS	<0.44	<0.44
8270E	Acenaphthylene	UG/L	N	NS	<0.46	<0.46
8270E	Anthracene	UG/L	N	NS	<0.33	<0.33
8270E	Benzo(A)Anthracene	UG/L	N	NS	<0.32	<0.32
8270E	Benzo(A)Pyrene	UG/L	N	NS	<0.41	<0.41
8270E	Benzo(B)Fluoranthene	UG/L	N	NS	<0.35	<0.35
8270E	Benzo(G,H,I)Perylene	UG/L	N	NS	<0.3	<0.3
8270E	Benzo(K)Fluoranthene	UG/L	N	NS	<0.37	<0.37
8270E	Bis(2-Chloro-1-Methylethyl) Ether	UG/L	N	NS	<0.53	<0.53
8270E	Bis(2-Chloroethoxy)Methane	UG/L	N	NS	<0.5	<0.5
8270E	Bis(2-Chloroethyl)Ether	UG/L	N	NS	<0.5	<0.5
8270E	Bis(2-Ethylhexyl)Phthalate	UG/L	N	NS	<1.5	<1.5
8270E	Butyl Benzyl Phthalate	UG/L	N	NS	<1.2	<1.2
8270E	Carbazole	UG/L	N	NS	<0.49 UJ	<0.49 UJ
8270E	Chrysene	UG/L	N	NS	<0.34	<0.34
8270E	Di-N-Butyl Phthalate	UG/L	N	NS	<0.39	<0.39
8270E	Dibenz(A,H)Anthracene	UG/L	N	NS	<0.32	<0.32
8270E	Dibenzofuran	UG/L	N	NS	<0.5	<0.5
8270E	Diethyl Phthalate	UG/L	N	NS	<0.38	<0.38
8270E	Dimethyl Phthalate	UG/L	N	NS	<1.8	<1.8
8270E	Fluoranthene	UG/L	N	NS	<0.26	<0.26
8270E	Fluorene	UG/L	N	NS	<0.41	<0.41
8270E	Hexachlorobenzene	UG/L	N	NS	<0.46	<0.46
8270E	Hexachlorobutadiene	UG/L	N	NS	<0.66	<0.66
8270E	Hexachlorocyclopentadiene	UG/L	N	NS	<0.69	<0.69
8270E	Hexachloroethane	UG/L	N	NS	<0.58	<0.58
8270E	Indeno(1,2,3-CD)Pyrene	UG/L	N	NS	<0.4	<0.4
8270E	Isophorone	UG/L	N	NS	<1.2	<1.2
8270E	N-Dioctyl Phthalate	UG/L	N	NS	<1.3	<1.3
8270E	N-Nitrosodi-N-Propylamine	UG/L	N	NS	<0.64	<0.64
8270E	N-Nitrosodiphenylamine	UG/L	N	NS	<0.42	<0.42
8270E	Naphthalene	UG/L	N	NS	<0.46	<0.46
8270E	Nitrobenzene	UG/L	N	NS	<0.77	<0.77
8270E	Pentachlorophenol	UG/L	N	NS	<1.8	<1.8
8270E	Phenanthrene	UG/L	N	NS	<0.33	<0.33
8270E	Phenol	UG/L	N	NS	**0.69 J**	<0.57
8270E	Pyrene	UG/L	N	NS	<0.28	<0.28
9010C	Cyanide, Amenable	MG/L	N	.09 MG/L	<0.005	<0.005
9012B	Cyanide	MG/L	N	.08 MG/L	<0.001	<0.001
9040C	pH (Hydrogen Ion)	STD UNITS	N	10.5 STD UNITS	**6.8**	**6.86**

ATTACHMENT 1

FIGURE SHOWING LEACHATE SAMPLING LOCATION

PARSONS



LEGEND:

- LEACHATE CLEANOUT PIPE
- LEACHATE MANHOLE
- VAPOR EXTRACTION POINT
- GROUNDWATER MONITORING WELL
- GAS VENT
- POWER POLE

FIGURE 1

CORTEVA FERDULA LANDFILL
FRANKFORT, NEW YORK

2024 LEACHATE SAMPLING LOCATIONS

PARSONS
301 Plainfield Rd, Ste 350, Syracuse, NY, Ph: 315-451-9560

FILE NAME: P:\DUPONT PROGRAM\453675 FERDULA REMED – 2024\11 TECHNICAL CATEGORIES\453675–FERDULALF–2024.DWG
PLOT DATE: 8/28/2024 11:37 AM PLOTTED BY: RUSSO, JILL [US–US]

ATTACHMENT 2

ANALYTICAL LABORATORY REPORT WITH CHAIN-OF-CUSTODY AND ADQM DATA REVIEW NARRATIVE

PARSONS

AECOM

ADQM Data Review

Site: Corteva Ferdula /FED

Project: Leachate Sampling 2024

Project Reviewer: Dyana Sagges

AECOM

Sample Summary

Field Sample ID	Laboratory Sample ID	Sample Matrix	Filtered	Sample Date	Sample Time	Sample Purpose*
EF2024-LEACHATE	240-207442-1	Leachate	N	07/09/2024	11:15	FS
EF2024-LEACHATE-D	240-207442-2	Leachate	N	07/09/2024	11:40	DUP
EF2024-LEACHATE	L2438503-01	Leachate	N	07/09/2024	11:15	FS
EF2024-LEACHATE-D	L2438503-02	Leachate	N	07/09/2024	11:40	DUP
EF2024-TB	L2438503-03	Blank Water	N	07/09/2024	10:00	TB

* FS=Field Sample
DUP=Field Duplicate
FB=Field Blank
EB=Equipment Blank
TB=Trip Blank

AECOM

Analytical Protocol

Laboratory	Method	Parameters
Eurofins TestAmerica, Canton	4500-S2 F-2011	Sulfide
Pace-Mansfield	1631E	Mercury
Pace-Mansfield	6020B	Arsenic
Pace-Mansfield	6020B	Barium
Pace-Mansfield	6020B	Cadmium
Pace-Mansfield	6020B	Chromium
Pace-Mansfield	6020B	Copper
Pace-Mansfield	6020B	Iron
Pace-Mansfield	6020B	Lead
Pace-Mansfield	6020B	Nickel
Pace-Mansfield	6020B	Silver
Pace-Mansfield	6020B	Zinc
Pace-Westborough	1664B	Oil and Grease
Pace-Westborough	2540 D-1997	Total Suspended Solids
Pace-Westborough	420.1	Phenolics
Pace-Westborough	5210-B-2011	Biochemical Oxygen Demand (BOD) - 5 Day
Pace-Westborough	8260D	Volatile Organics
Pace-Westborough	8270E	Semi-volatile Organics
Pace-Westborough	9010C	Cyanide, Amenable
Pace-Westborough	9012B	Cyanide
Pace-Westborough	9040C	Hydrogen Ion

AECOM

ADQM Data Review Checklist

Item	Description	Yes	No*	DVM Narrative Report	Laboratory Report	Exception Report (ER) #
A	Did samples meet laboratory acceptability requirements upon receipt (i.e., intact, within temperature, properly preserved, and no headspace where applicable)?		X		X	
B	Were samples received by the laboratory in agreement with the associated chain of custody?	X				
C	Was the chain of custody properly completed by the laboratory and/or field team?		X			1
D	Were samples prepped/analyzed by the laboratory within method holding times?	X				
E	Were data review criteria met for method blanks, LCSs/LCSDs, MSs/MSDs, PDSs, SDs, replicates, surrogates, sample results within calibration range, total/dissolved samples, field duplicates, field/equipment/trip blanks?		X	X		
F	Were all data usable and not R qualified?		X	X		2

ER#	Description
1	-Trip Blank sample was recorded on the chain of custody as TRIP BLANK instead of EF2024-TB. A revised chain of custody has been included with the review. -Field Sample (EF2024-LEACHATE) and Field Duplicate (EF2024-LEACHATE-D) do not have the same time of collection on the chain of custody forms for either lab.
2	Th non-detect results for 8270E compound in EF2024-LEACHATE are unusable and have been “R” qualified in the data base. Very low recoveries were observed for one or more 8270E surrogate compounds.
3	

Other QA/QC Items to Note:

* See DVM Narrative Report, Laboratory Report, and/or ER # for further details as indicated.

The electronic data submitted for this project were reviewed via the Data Verification Module (DVM) process. Overall the data are acceptable for use without qualification, except as noted on the attached DVM Narrative Report.

AECOM

Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software, Locus EIM™ database Data Verification Module (DVM), and manual reviewer evaluations. The data are evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike (MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- Difference/RPD between field duplicate sample pairs
- RPD between laboratory replicates for inorganic analyses
- Difference/percent difference between total and dissolved sample pairs

There are two qualifier fields in EIM:

Laboratory Qualifier is the qualifier assigned by the laboratory and may not reflect the usability of the data. This qualifier may have many different meanings and can vary between labs and over time within the same lab. Please refer to the laboratory report for a description of the laboratory qualifiers. As they are laboratory descriptors they are not to be used when evaluating the data.

Validation Qualifier is the 3rd party formal validation qualifier if this was performed. Otherwise this field contains the qualifier resulting from the ADQM DVM review process. This qualifier assesses the usability of the data and may not equal the laboratory qualifier. The DVM applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

The **Validation Status Code** field is set to “DVM” if the ADQM DVM process has been performed. If the DVM has not been run, the field will be blank.

If the DVM has been run (**Validation Status Code** equals “DVM”), use the **Validation Qualifier.**

If the data have been validated by a third party, the field **“Validated By”** will be set to the validator (e.g., ESI for Environmental Standards, Inc.).

DVM Narrative Report

Site: Ferdula **Sampling Program:** LEACHATE SAMPLING 2024 **Validation Options:** LABSTATS

Validation Reason Code: One or more surrogates had relative percent recovery (RPR) values less than the data rejection level. The detection limit is unusable.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EF2024-LEACHATE-D	07/09/2024	L2438503-02	4-Nitrophenol	1.4	UG/L	MDL	1.4	10	R	8270E		3510C
EF2024-LEACHATE-D	07/09/2024	L2438503-02	2,4-Dimethylphenol	2.0	UG/L	MDL	2.0	5.0	R	8270E		3510C
EF2024-LEACHATE-D	07/09/2024	L2438503-02	Phenol	0.35	UG/L	MDL	0.35	5.0	R	8270E		3510C
EF2024-LEACHATE-D	07/09/2024	L2438503-02	2,4-Dichlorophenol	1.7	UG/L	MDL	1.7	5.0	R	8270E		3510C
EF2024-LEACHATE-D	07/09/2024	L2438503-02	2,4-Dinitrophenol	5.4	UG/L	MDL	5.4	20	R	8270E		3510C
EF2024-LEACHATE-D	07/09/2024	L2438503-02	4,6-Dinitro-2-Methylphenol	2.3	UG/L	MDL	2.3	10	R	8270E		3510C
EF2024-LEACHATE-D	07/09/2024	L2438503-02	4-Chloro-3-Methylphenol	0.61	UG/L	MDL	0.61	2.0	R	8270E		3510C
EF2024-LEACHATE-D	07/09/2024	L2438503-02	Pentachlorophenol	2.5	UG/L	MDL	2.5	10	R	8270E		3510C
EF2024-LEACHATE-D	07/09/2024	L2438503-02	2,4,6-Trichlorophenol	2.1	UG/L	MDL	2.1	5.0	R	8270E		3510C
EF2024-LEACHATE-D	07/09/2024	L2438503-02	2-Nitrophenol	2.0	UG/L	MDL	2.0	10	R	8270E		3510C
EF2024-LEACHATE-D	07/09/2024	L2438503-02	2-Methylphenol (o-Cresol)	2.3	UG/L	MDL	2.3	5.0	R	8270E		3510C
EF2024-LEACHATE-D	07/09/2024	L2438503-02	2-Chlorophenol	0.65	UG/L	MDL	0.65	2.0	R	8270E		3510C
EF2024-LEACHATE-D	07/09/2024	L2438503-02	2,4,5-Trichlorophenol	2.1	UG/L	MDL	2.1	5.0	R	8270E		3510C
EF2024-LEACHATE-D	07/09/2024	L2438503-02	3- And 4-Methylphenol	1.4	UG/L	MDL	1.4	5.0	R	8270E		3510C

Site: Ferdula **Sampling Program:** LEACHATE SAMPLING 2024 **Validation Options:** LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the data rejection level. The reported non-detect result is unusable.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EF2024-LEACHATE	07/09/2024	L2438503-01	2,4-Dinitrophenol	5.4	UG/L	MDL	5.4	20	R	8270E		3510C

Site: Ferdula **Sampling Program:** LEACHATE SAMPLING 2024 **Validation Options:** LABSTATS

Validation Reason Code: Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EF2024-TB	07/09/2024	L2438503-03	Methyl Bromide	0.70	UG/L	MDL	0.70	2.5	UJ	8260D		
EF2024-LEACHATE-D	07/09/2024	L2438503-02	Hexachlorocyclopentadiene	1.2	UG/L	MDL	1.2	20	UJ	8270E		3510C
EF2024-LEACHATE-D	07/09/2024	L2438503-02	Carbazole	0.31	UG/L	MDL	0.31	2.0	UJ	8270E		3510C
EF2024-LEACHATE-D	07/09/2024	L2438503-02	Methyl Bromide	0.70	UG/L	MDL	0.70	2.5	UJ	8260D		
EF2024-LEACHATE	07/09/2024	L2438503-01	Methyl Bromide	0.70	UG/L	MDL	0.70	2.5	UJ	8260D		
EF2024-LEACHATE	07/09/2024	L2438503-01	Hexachlorocyclopentadiene	1.2	UG/L	MDL	1.2	20	UJ	8270E		3510C
EF2024-LEACHATE	07/09/2024	L2438503-01	Carbazole	0.31	UG/L	MDL	0.31	2.0	UJ	8270E		3510C

Site: Ferdula **Sampling Program:** LEACHATE SAMPLING 2024 **Validation Options:** LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EF2024-LEACHATE	07/09/2024	L2438503-01	2,4-Dichlorophenol	1.7	UG/L	MDL	1.7	5.0	UJ	8270E		3510C
EF2024-LEACHATE	07/09/2024	L2438503-01	4,6-Dinitro-2-Methylphenol	2.3	UG/L	MDL	2.3	10	UJ	8270E		3510C
EF2024-LEACHATE	07/09/2024	L2438503-01	2,4,6-Trichlorophenol	2.1	UG/L	MDL	2.1	5.0	UJ	8270E		3510C
EF2024-LEACHATE	07/09/2024	L2438503-01	2-Nitrophenol	2.0	UG/L	MDL	2.0	10	UJ	8270E		3510C
EF2024-LEACHATE	07/09/2024	L2438503-01	2-Chlorophenol	0.65	UG/L	MDL	0.65	2.0	UJ	8270E		3510C
EF2024-LEACHATE	07/09/2024	L2438503-01	2,4,5-Trichlorophenol	2.1	UG/L	MDL	2.1	5.0	UJ	8270E		3510C

Site: Ferdula **Sampling Program:** LEACHATE SAMPLING 2024 **Validation Options:** LABSTATS

Validation Reason Code: High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EF2024-LEACHATE	07/09/2024	L2438503-01	Total Suspended Solids	210	MG/L	MDL	20	20	J	2540 D-1997		
EF2024-LEACHATE-D	07/09/2024	L2438503-02	Total Suspended Solids	99	MG/L	MDL	20	20	J	2540 D-1997		

Site: Ferdula **Sampling Program:** LEACHATE SAMPLING 2024 **Validation Options:** LABSTATS

Validation Reason Code: High relative percent difference (RPD) observed between MS and MSD samples. The reported result may be imprecise.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EF2024-LEACHATE	07/09/2024	L2438503-01	Phenol	0.69	UG/L	MDL	0.35	5.0	J	8270E		3510C

Site: Ferdula **Sampling Program:** LEACHATE SAMPLING 2024 **Validation Options:** LABSTATS

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EF2024-LEACHATE	07/09/2024	L2438503-01	Nickel	0.00098	MG/L	MDL	0.00055	0.00200	J	6020B		3005A
EF2024-LEACHATE	07/09/2024	L2438503-01	Chromium	0.00063	MG/L	MDL	0.00017	0.00100	J	6020B		3005A
EF2024-LEACHATE	07/09/2024	L2438503-01	Copper	0.00043	MG/L	MDL	0.00038	0.00100	J	6020B		3005A
EF2024-LEACHATE-D	07/09/2024	L2438503-02	Nickel	0.00090	MG/L	MDL	0.00055	0.00200	J	6020B		3005A
EF2024-LEACHATE-D	07/09/2024	L2438503-02	Chromium	0.00045	MG/L	MDL	0.00017	0.00100	J	6020B		3005A

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dyana Sagges
Corteva Agriscience
248 Chapman Road
Suite 101
Newark, Delaware 19702

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JOB DESCRIPTION

Leachate Sampling 2024 (FER)

JOB NUMBER

240-207442-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

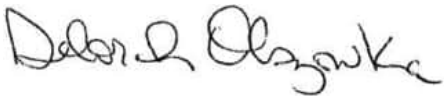
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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Authorized for release by
Debbie Olszowka, Project Manager II
Debbie.Olszowka@et.eurofinsus.com
(513)733-5700

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Method Summary 6
Sample Summary 7
Detection Summary 8
Client Sample Results 9
QC Sample Results 10
QC Association Summary 11
Lab Chronicle 12
Certification Summary 13
Chain of Custody 14

Definitions/Glossary

Client: Corteva Agriscience
Job ID: 240-207442-1
Project/Site: Leachate Sampling 2024 (FER)

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

Job Narrative
240-207442-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 7/10/2024 9:30 AM. 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 time was 1.4°C.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Method Summary

Client: Corteva Agriscience
Job ID: 240-207442-1
Project/Site: Leachate Sampling 2024 (FER)

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET CLE

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Corteva Agriscience
Job ID: 240-207442-1
Project/Site: Leachate Sampling 2024 (FER)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-207442-1	EF2024-LEACHATE	Water	07/09/24 11:15	07/10/24 09:30
240-207442-2	EF2024-LEACHATE-D	Water	07/09/24 11:40	07/10/24 09:30

Detection Summary

Client: Corteva Agriscience
Job ID: 240-207442-1
Project/Site: Leachate Sampling 2024 (FER)

Client Sample ID: EF2024-LEACHATE
Lab Sample ID: 240-207442-1

No Detections.

Client Sample ID: EF2024-LEACHATE-D
Lab Sample ID: 240-207442-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Corteva Agriscience
Job ID: 240-207442-1
Project/Site: Leachate Sampling 2024 (FER)

Client Sample ID: EF2024-LEACHATE
Lab Sample ID: 240-207442-1

Date Collected: 07/09/24 11:15
Matrix: Water
Date Received: 07/10/24 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.27		1.0	0.27	mg/L			07/16/24 12:56	1

Client Sample ID: EF2024-LEACHATE-D
Lab Sample ID: 240-207442-2

Date Collected: 07/09/24 11:40
Matrix: Water
Date Received: 07/10/24 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.27		1.0	0.27	mg/L			07/16/24 12:56	1

Client: Corteva Agriscience
Project/Site: Leachate Sampling 2024 (FER)

Job ID: 240-207442-1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 240-620065/1
Matrix: Water
Analysis Batch: 620065

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.27		1.0	0.27	mg/L			07/16/24 12:56	1

Lab Sample ID: LCS 240-620065/2
Matrix: Water
Analysis Batch: 620065

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			21.8	21.8		mg/L		100	80 - 120		

Lab Sample ID: 240-207442-1 MS
Matrix: Water
Analysis Batch: 620065

Client Sample ID: EF2024-LEACHATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<0.27		21.8	21.0		mg/L		96	67 - 126		

Lab Sample ID: 240-207442-1 MSD
Matrix: Water
Analysis Batch: 620065

Client Sample ID: EF2024-LEACHATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.27		21.8	20.8		mg/L		95	67 - 126	1	10

QC Association Summary

Client: Corteva Agriscience
Job ID: 240-207442-1
Project/Site: Leachate Sampling 2024 (FER)

General Chemistry

Analysis Batch: 620065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-207442-1	EF2024-LEACHATE	Total/NA	Water	4500 S2 F-2011	
240-207442-2	EF2024-LEACHATE-D	Total/NA	Water	4500 S2 F-2011	
MB 240-620065/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 240-620065/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
240-207442-1 MS	EF2024-LEACHATE	Total/NA	Water	4500 S2 F-2011	
240-207442-1 MSD	EF2024-LEACHATE	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Corteva Agriscience
Job ID: 240-207442-1
Project/Site: Leachate Sampling 2024 (FER)

Client Sample ID: EF2024-LEACHATE
Lab Sample ID: 240-207442-1

Date Collected: 07/09/24 11:15
Matrix: Water
Date Received: 07/10/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	4500 S2 F-2011		1	620065	BLW	EET CLE	07/16/24 12:56

Client Sample ID: EF2024-LEACHATE-D
Lab Sample ID: 240-207442-2

Date Collected: 07/09/24 11:40
Matrix: Water
Date Received: 07/10/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	4500 S2 F-2011		1	620065	BLW	EET CLE	07/16/24 12:56

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Corteva Agriscience
Job ID: 240-207442-1
Project/Site: Leachate Sampling 2024 (FER)

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10975	04-02-25

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone (330) 497-9396 Phone (330) 497-0772

0.4/1.4

Chain of Custody Record

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Client Information	Sampler: Zack Cornish	Lab PM: Olszowka, Debbie	Carrier Tracking No(s):	COC No: 240-122203-40222.1
Client Contact: Dyana Sagges	Phone: 607-354-6482	E-Mail: Debbie.Olszowka@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 1
Company: Corteva Agriscience	PWSID:	Analysis Requested		Job #:
Address: 248 Chapman Road Suite 101	Due Date Requested:			Preservation Codes: CB - ZnAcetate/NaOH
City: Newark	TAT Requested (days): STANDARD			
State, Zip: DE, 19702	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: dyana.sagges@aecom.com	WO #: 507052			Other:
Project Name: Leachate Sampling 2024 (FER)	Project #: 24032072			
Site: Fernald Landfill	SSOW#:			MS/MSD be analyzed with sulfide samples

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F - Sulfide	Total Number of containers	Special Instructions/Note:
			Preservation Code:				CB		
EF2024-LEACHATE	7/9/24	1115	G	Water	N	Y	X		Collect MS/MSD from Set
EF2024-LEACHATE-D	7/9/24	1140	G	Water	N	N	X		
EF2024-LEACHATE MS	7/9/24	1120	G	Water	N	N	X		
EF2024-LEACHATE MSD	7/9/24	1130	G	Water	N	N	X		
~~Freeze~~									

240-207442 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Zack Cornish	7/9/24 @1700	PARSONS	JESSICA RIGDON	7-10-24 0930	EEI INC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/17/2024

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # : 207442**
Barberton Facility

Client Cortera Agriscience Site Name _____ Cooler unpacked by: JESSICA RIGDON

Cooler Received on 7-10-24 Opened on 7-10-24

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used. Bubble Wrap Foam Plastic Bag (None) Other _____

COOLANT (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 19 (CF +1.0 °C) Observed Cooler Temp. 0.4 °C Corrected Cooler Temp 1.4 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4 Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	(Yes)	No
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	Yes	(No)
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	(Yes)	No NA pH Strip Lot# HC442471
14 Were VOAs on the COC?	Yes	(No)
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this	Yes	No (NA)
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	(No)
17 Was a LL Hg or Me Hg trip blank present? _____	Yes	(No)

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen _____

7/10/2024

Login Container Summary Report

240-207442

7/17/2024

Temperature readings _____

Client Sample ID	Lab ID	Container Type	pH	Container Temp	Preservation Added	Preservation Lot Number
EF2024-LEACHATE	240-207442-A-1	Plastic 500ml - with Zn Acetate and NaOH	>9			
EF2024-LEACHATE	240-207442-A-1 MS	Plastic 500ml - with Zn Acetate and NaOH	>9			
EF2024-LEACHATE	240-207442-A-1 MSD	Plastic 500ml - with Zn Acetate and NaOH	>9			
EF2024-LEACHATE-D	240-207442-A-2	Plastic 500ml - with Zn Acetate and NaOH	>9			

ANALYTICAL REPORT

Lab Number:	L2438503
Client:	Corteva Agriscience LLC 4051 Ogletown Road Sabre Building; Suite 300 Newark, DE 19713
ATTN:	Dyana Sagges
Phone:	(302) 781-5947
Project Name:	9762-7720100C-WH06-507052
Project Number:	LEACHATE SAMPLING 24
Report Date:	07/23/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503
Report Date: 07/23/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2438503-01	EF2024-LEACHATE	WATER	(FER) FERDULA, NY	07/09/24 11:15	07/09/24
L2438503-02	EF2024-LEACHATE-D	WATER	(FER) FERDULA, NY	07/09/24 11:40	07/09/24
L2438503-03	TRIP BLANK	WATER	(FER) FERDULA, NY	07/09/24 10:00	07/09/24

Project Name:	9762-7720100C-WH06-507052	**Lab Number:**	L2438503
Project Number:	LEACHATE SAMPLING 24	**Report Date:**	07/23/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	9762-7720100C-WH06-507052	**Lab Number:**	L2438503
Project Number:	LEACHATE SAMPLING 24	**Report Date:**	07/23/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The analyses performed were specified by the client.

L2438503-01E: The sample container was received above the appropriate pH for the Total Metals analysis. The laboratory added additional HNO3 to a pH <2.

Semivolatile Organics

L2438503-02: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (6%), and 2,4,6-tribromophenol (6%); however, re-extraction could not be performed due to lack of additional sample. The results of the original analysis are reported; however, all associated compounds are considered to have a potential bias.

The WG1946832-4/-5 MS/MSD recoveries, performed on L2438503-01, are below the acceptance criteria for 2,4-dinitrophenol (0%) due to the concentration of this compound in the MS/MSD falling below the reported detection limit.

Total Metals

The WG1945385-3/-4 MS/MSD recoveries for iron (60%/200%), performed on L2438503-01, do not apply because the sample concentration is greater than four times the spike amount added.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 07/23/24

ORGANICS

VOLATILES

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 2 **Report Date:** 07/23/24

SAMPLE RESULTS

Lab ID: L2438503-01
Client ID: EF2024-LEACHATE
Sample Location: (FER) FERDULA, NY

Date Collected: 07/09/24 11:15
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/11/24 18:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	6.4		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	5.0		ug/l	0.50	0.18	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 2 **Report Date:** 07/23/24

SAMPLE RESULTS

Lab ID: L2438503-01 Date Collected: 07/09/24 11:15

Client ID: EF2024-LEACHATE Date Received: 07/09/24

Sample Location: (FER) FERDULA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	79		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	112		70-130

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 2 **Report Date:** 07/23/24

SAMPLE RESULTS

Lab ID: L2438503-02 Date Collected: 07/09/24 11:40
Client ID: EF2024-LEACHATE-D Date Received: 07/09/24
Sample Location: (FER) FERDULA, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/11/24 19:02
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	7.0		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	5.5		ug/l	0.50	0.18	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 2 **Report Date:** 07/23/24

SAMPLE RESULTS

Lab ID: L2438503-02 Date Collected: 07/09/24 11:40

Client ID: EF2024-LEACHATE-D Date Received: 07/09/24

Sample Location: (FER) FERDULA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	83		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	111		70-130

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 2 **Report Date:** 07/23/24

SAMPLE RESULTS

Lab ID: L2438503-03 Date Collected: 07/09/24 10:00
Client ID: TRIP BLANK Date Received: 07/09/24
Sample Location: (FER) FERDULA, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/11/24 18:10
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 2 **Report Date:** 07/23/24

SAMPLE RESULTS

Lab ID: L2438503-03 Date Collected: 07/09/24 10:00

Client ID: TRIP BLANK Date Received: 07/09/24

Sample Location: (FER) FERDULA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	114		70-130

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 24 **Report Date:** 07/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/11/24 11:12
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1946104-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 24 **Report Date:** 07/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/11/24 11:12
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1946104-5					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	108		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503
Report Date: 07/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1946104-3 WG1946104-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	110		120		70-130	9		20
Chloroform	120		120		70-130	0		20
Carbon tetrachloride	120		120		63-132	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	100		110		63-130	10		20
1,1,2-Trichloroethane	110		120		70-130	9		20
Tetrachloroethene	98		100		70-130	2		20
Chlorobenzene	110		110		75-130	0		20
1,2-Dichloroethane	110		120		70-130	9		20
1,1,1-Trichloroethane	120		120		67-130	0		20
Bromodichloromethane	110		120		67-130	9		20
trans-1,3-Dichloropropene	100		110		70-130	10		20
cis-1,3-Dichloropropene	110		110		70-130	0		20
Bromoform	99		110		54-136	11		20
1,1,2,2-Tetrachloroethane	130		**140**	Q	67-130	7		20
Benzene	120		120		70-130	0		20
Toluene	110		120		70-130	9		20
Ethylbenzene	110		120		70-130	9		20
Chloromethane	81		86		64-130	6		20
Bromomethane	**32**	Q	**37**	Q	39-139	14		20
Vinyl chloride	110		120		55-140	9		20
Chloroethane	110		120		55-138	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503

Report Date: 07/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1946104-3 WG1946104-4								
1,1-Dichloroethene	100		110		61-145	10		20
trans-1,2-Dichloroethene	110		120		70-130	9		20
Trichloroethene	100		110		70-130	10		20
p/m-Xylene	110		115		70-130	4		20
o-Xylene	105		110		70-130	5		20
cis-1,2-Dichloroethene	110		120		70-130	9		20
Styrene	105		115		70-130	9		20
Acetone	92		100		58-148	8		20
Carbon disulfide	120		110		51-130	9		20
2-Butanone	110		120		63-138	9		20
4-Methyl-2-pentanone	84		94		59-130	11		20
2-Hexanone	79		87		57-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		107		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	106		103		70-130
Dibromofluoromethane	105		106		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503
Report Date: 07/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1946104-6 WG1946104-7 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE												
Methylene chloride	ND	10	11	110		11	110		70-130	0		20
1,1-Dichloroethane	ND	10	12	120		12	120		70-130	0		20
Chloroform	ND	10	12	120		13	130		70-130	8		20
Carbon tetrachloride	ND	10	13	130		13	130		63-132	0		20
1,2-Dichloropropane	ND	10	11	110		11	110		70-130	0		20
Dibromochloromethane	ND	10	10	100		10	100		63-130	0		20
1,1,2-Trichloroethane	ND	10	11	110		11	110		70-130	0		20
Tetrachloroethene	ND	10	9.6	96		10	100		70-130	4		20
Chlorobenzene	ND	10	11	110		11	110		75-130	0		20
1,2-Dichloroethane	ND	10	12	120		12	120		70-130	0		20
1,1,1-Trichloroethane	ND	10	12	120		13	130		67-130	8		20
Bromodichloromethane	ND	10	11	110		12	120		67-130	9		20
trans-1,3-Dichloropropene	ND	10	9.6	96		9.8	98		70-130	2		20
cis-1,3-Dichloropropene	ND	10	9.3	93		9.8	98		70-130	5		20
Bromoform	ND	10	9.3	93		9.8	98		54-136	5		20
1,1,2,2-Tetrachloroethane	ND	10	13	130		14	**140**	Q	67-130	7		20
Benzene	ND	10	12	120		13	130		70-130	8		20
Toluene	ND	10	11	110		12	120		70-130	9		20
Ethylbenzene	ND	10	11	110		12	120		70-130	9		20
Chloromethane	ND	10	8.6	86		9.2	92		64-130	7		20
Bromomethane	ND	10	2.9	**29**	Q	4.2	42		39-139	**37**	Q	20
Vinyl chloride	6.4	10	18	116		19	126		55-140	5		20
Chloroethane	ND	10	12	120		13	130		55-138	8		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503
Report Date: 07/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1946104-6 WG1946104-7 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE												
1,1-Dichloroethene	ND	10	11	110		12	120		61-145	9		20
trans-1,2-Dichloroethene	ND	10	12	120		12	120		70-130	0		20
Trichloroethene	5.0	10	16	110		16	110		70-130	0		20
p/m-Xylene	ND	20	22	110		22	110		70-130	0		20
o-Xylene	ND	20	21	105		22	110		70-130	5		20
cis-1,2-Dichloroethene	79	10	88	90		88	90		70-130	0		20
Styrene	ND	20	21	105		22	110		70-130	5		20
Acetone	ND	10	11	110		12	120		58-148	9		20
Carbon disulfide	ND	10	12	120		12	120		51-130	0		20
2-Butanone	ND	10	11	110		12	120		63-138	9		20
4-Methyl-2-pentanone	ND	10	8.1	81		8.1	81		59-130	0		20
2-Hexanone	ND	10	7.0	70		8.0	80		57-130	13		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		111		70-130
4-Bromofluorobenzene	103		104		70-130
Dibromofluoromethane	106		107		70-130
Toluene-d8	100		99		70-130

SEMIVOLATILES

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 2 **Report Date:** 07/23/24

SAMPLE RESULTS

Lab ID: L2438503-01
Client ID: EF2024-LEACHATE
Sample Location: (FER) FERDULA, NY

Date Collected: 07/09/24 11:15
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 07/16/24 00:55
Analyst: MRG

Extraction Method: EPA 3510C
Extraction Date: 07/14/24 19:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.40	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.98	1
Hexachlorobenzene	ND		ug/l	2.0	0.45	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
2-Chloronaphthalene	ND		ug/l	2.0	0.35	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.33	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.32	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.39	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
Fluoranthene	ND		ug/l	2.0	0.41	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorobutadiene	ND		ug/l	2.0	0.36	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Hexachloroethane	ND		ug/l	2.0	0.20	1
Isophorone	ND		ug/l	5.0	0.86	1
Naphthalene	ND		ug/l	2.0	0.54	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 2 **Report Date:** 07/23/24

SAMPLE RESULTS

Lab ID: L2438503-01 Date Collected: 07/09/24 11:15

Client ID: EF2024-LEACHATE Date Received: 07/09/24

Sample Location: (FER) FERDULA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Benzo(a)pyrene	ND		ug/l	2.0	0.37	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.53	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.62	1
Chrysene	ND		ug/l	2.0	0.22	1
Acenaphthylene	ND		ug/l	2.0	0.32	1
Anthracene	ND		ug/l	2.0	0.47	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.37	1
Fluorene	ND		ug/l	2.0	0.44	1
Phenanthrene	ND		ug/l	2.0	0.42	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.29	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.48	1
Pyrene	ND		ug/l	2.0	0.41	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
2-Methylnaphthalene	ND		ug/l	2.0	0.37	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Pentachlorophenol	ND		ug/l	10	2.5	1
Phenol	0.69	J	ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 2 **Report Date:** 07/23/24

SAMPLE RESULTS

Lab ID: L2438503-01 Date Collected: 07/09/24 11:15

Client ID: EF2024-LEACHATE Date Received: 07/09/24

Sample Location: (FER) FERDULA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**18**	Q	21-120
Phenol-d6	16		10-120
Nitrobenzene-d5	44		23-120
2-Fluorobiphenyl	44		15-120
2,4,6-Tribromophenol	32		10-120
4-Terphenyl-d14	51		41-149

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 2 **Report Date:** 07/23/24

SAMPLE RESULTS

Lab ID: L2438503-02
Client ID: EF2024-LEACHATE-D
Sample Location: (FER) FERDULA, NY

Date Collected: 07/09/24 11:40
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 07/16/24 01:17
Analyst: MRG

Extraction Method: EPA 3510C
Extraction Date: 07/14/24 19:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.40	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.98	1
Hexachlorobenzene	ND		ug/l	2.0	0.45	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
2-Chloronaphthalene	ND		ug/l	2.0	0.35	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.33	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.32	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.39	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
Fluoranthene	ND		ug/l	2.0	0.41	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorobutadiene	ND		ug/l	2.0	0.36	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Hexachloroethane	ND		ug/l	2.0	0.20	1
Isophorone	ND		ug/l	5.0	0.86	1
Naphthalene	ND		ug/l	2.0	0.54	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 2 **Report Date:** 07/23/24

SAMPLE RESULTS

Lab ID: L2438503-02 Date Collected: 07/09/24 11:40

Client ID: EF2024-LEACHATE-D Date Received: 07/09/24

Sample Location: (FER) FERDULA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Benzo(a)pyrene	ND		ug/l	2.0	0.37	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.53	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.62	1
Chrysene	ND		ug/l	2.0	0.22	1
Acenaphthylene	ND		ug/l	2.0	0.32	1
Anthracene	ND		ug/l	2.0	0.47	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.37	1
Fluorene	ND		ug/l	2.0	0.44	1
Phenanthrene	ND		ug/l	2.0	0.42	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.29	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.48	1
Pyrene	ND		ug/l	2.0	0.41	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
2-Methylnaphthalene	ND		ug/l	2.0	0.37	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Pentachlorophenol	ND		ug/l	10	2.5	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 2 **Report Date:** 07/23/24

SAMPLE RESULTS

Lab ID: L2438503-02 Date Collected: 07/09/24 11:40

Client ID: EF2024-LEACHATE-D Date Received: 07/09/24

Sample Location: (FER) FERDULA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	21-120
Phenol-d6	**6**	Q	10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	**6**	Q	10-120
4-Terphenyl-d14	59		41-149

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 24 **Report Date:** 07/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/15/24 22:15
Analyst: MRG

Extraction Method: EPA 3510C
Extraction Date: 07/14/24 19:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1946832-1					
Acenaphthene	ND		ug/l	2.0	0.40
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.98
Hexachlorobenzene	ND		ug/l	2.0	0.45
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39
2-Chloronaphthalene	ND		ug/l	2.0	0.35
1,2-Dichlorobenzene	ND		ug/l	2.0	0.33
1,3-Dichlorobenzene	ND		ug/l	2.0	0.32
1,4-Dichlorobenzene	ND		ug/l	2.0	0.39
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84
Fluoranthene	ND		ug/l	2.0	0.41
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84
Hexachlorobutadiene	ND		ug/l	2.0	0.36
Hexachlorocyclopentadiene	ND		ug/l	20	1.2
Hexachloroethane	ND		ug/l	2.0	0.20
Isophorone	ND		ug/l	5.0	0.86
Naphthalene	ND		ug/l	2.0	0.54
Nitrobenzene	ND		ug/l	2.0	0.20
NDPA/DPA	ND		ug/l	2.0	0.92
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4
Butyl benzyl phthalate	ND		ug/l	5.0	2.6
Di-n-butylphthalate	ND		ug/l	5.0	0.96
Di-n-octylphthalate	ND		ug/l	5.0	2.3
Diethyl phthalate	ND		ug/l	5.0	0.76

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 24 **Report Date:** 07/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/15/24 22:15
Analyst: MRG

Extraction Method: EPA 3510C
Extraction Date: 07/14/24 19:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1946832-1					
Dimethyl phthalate	ND		ug/l	5.0	0.92
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.37
Benzo(b)fluoranthene	ND		ug/l	2.0	0.53
Benzo(k)fluoranthene	ND		ug/l	2.0	0.62
Chrysene	ND		ug/l	2.0	0.22
Acenaphthylene	ND		ug/l	2.0	0.32
Anthracene	ND		ug/l	2.0	0.47
Benzo(ghi)perylene	ND		ug/l	2.0	0.37
Fluorene	ND		ug/l	2.0	0.44
Phenanthrene	ND		ug/l	2.0	0.42
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.29
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.48
Pyrene	ND		ug/l	2.0	0.41
4-Chloroaniline	ND		ug/l	5.0	0.47
2-Nitroaniline	ND		ug/l	5.0	1.0
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.4
Dibenzofuran	ND		ug/l	2.0	0.40
2-Methylnaphthalene	ND		ug/l	2.0	0.37
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61
2-Chlorophenol	ND		ug/l	2.0	0.65
2,4-Dichlorophenol	ND		ug/l	5.0	1.7
2,4-Dimethylphenol	ND		ug/l	5.0	2.0
2-Nitrophenol	ND		ug/l	10	2.0
4-Nitrophenol	ND		ug/l	10	1.4
2,4-Dinitrophenol	ND		ug/l	20	5.4
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 24 **Report Date:** 07/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/15/24 22:15
Analyst: MRG

Extraction Method: EPA 3510C
Extraction Date: 07/14/24 19:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1946832-1					
Pentachlorophenol	ND		ug/l	10	2.5
Phenol	ND		ug/l	5.0	0.35
2-Methylphenol	ND		ug/l	5.0	2.3
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1
Carbazole	ND		ug/l	2.0	0.31

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		21-120
Phenol-d6	22		10-120
Nitrobenzene-d5	44		23-120
2-Fluorobiphenyl	48		15-120
2,4,6-Tribromophenol	56		10-120
4-Terphenyl-d14	52		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503
Report Date: 07/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1946832-2 WG1946832-3								
Acenaphthene	49		51		37-111	4		30
1,2,4-Trichlorobenzene	42		42		39-98	0		30
Hexachlorobenzene	54		57		40-140	5		30
Bis(2-chloroethyl)ether	49		47		40-140	4		30
2-Chloronaphthalene	47		49		40-140	4		30
1,2-Dichlorobenzene	46		45		40-140	2		30
1,3-Dichlorobenzene	45		42		40-140	7		30
1,4-Dichlorobenzene	43		43		36-97	0		30
3,3'-Dichlorobenzidine	57		62		40-140	8		30
2,4-Dinitrotoluene	50		53		48-143	6		30
2,6-Dinitrotoluene	51		53		40-140	4		30
Fluoranthene	54		54		40-140	0		30
4-Chlorophenyl phenyl ether	52		53		40-140	2		30
4-Bromophenyl phenyl ether	50		54		40-140	8		30
Bis(2-chloroisopropyl)ether	44		40		40-140	10		30
Bis(2-chloroethoxy)methane	48		49		40-140	2		30
Hexachlorobutadiene	43		47		40-140	9		30
Hexachlorocyclopentadiene	**36**	Q	**38**	Q	40-140	5		30
Hexachloroethane	43		41		40-140	5		30
Isophorone	45		45		40-140	0		30
Naphthalene	46		45		40-140	2		30
Nitrobenzene	50		46		40-140	8		30
NDPA/DPA	52		54		40-140	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503
Report Date: 07/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1946832-2 WG1946832-3								
n-Nitrosodi-n-propylamine	45		47		29-132	4		30
Bis(2-ethylhexyl)phthalate	56		65		40-140	15		30
Butyl benzyl phthalate	55		60		40-140	9		30
Di-n-butylphthalate	54		56		40-140	4		30
Di-n-octylphthalate	59		64		40-140	8		30
Diethyl phthalate	52		53		40-140	2		30
Dimethyl phthalate	52		51		40-140	2		30
Benzo(a)anthracene	54		56		40-140	4		30
Benzo(a)pyrene	59		60		40-140	2		30
Benzo(b)fluoranthene	57		56		40-140	2		30
Benzo(k)fluoranthene	54		58		40-140	7		30
Chrysene	54		57		40-140	5		30
Acenaphthylene	51		50		45-123	2		30
Anthracene	56		56		40-140	0		30
Benzo(ghi)perylene	55		57		40-140	4		30
Fluorene	49		50		40-140	2		30
Phenanthrene	52		54		40-140	4		30
Dibenzo(a,h)anthracene	54		56		40-140	4		30
Indeno(1,2,3-cd)pyrene	52		56		40-140	7		30
Pyrene	55		56		26-127	2		30
4-Chloroaniline	42		43		40-140	2		30
2-Nitroaniline	53		53		52-143	0		30
3-Nitroaniline	52		51		25-145	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503

Report Date: 07/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1946832-2 WG1946832-3								
4-Nitroaniline	56		57		51-143	2		30
Dibenzofuran	49		52		40-140	6		30
2-Methylnaphthalene	43		44		40-140	2		30
2,4,6-Trichlorophenol	54		54		30-130	0		30
p-Chloro-m-cresol	52		53		23-97	2		30
2-Chlorophenol	52		51		27-123	2		30
2,4-Dichlorophenol	54		53		30-130	2		30
2,4-Dimethylphenol	46		44		30-130	4		30
2-Nitrophenol	50		49		30-130	2		30
4-Nitrophenol	33		38		10-80	14		30
2,4-Dinitrophenol	27		35		20-130	26		30
4,6-Dinitro-o-cresol	45		46		20-164	2		30
Pentachlorophenol	36		38		9-103	5		30
Phenol	24		23		12-110	4		30
2-Methylphenol	46		47		30-130	2		30
3-Methylphenol/4-Methylphenol	46		45		30-130	2		30
2,4,5-Trichlorophenol	58		60		30-130	3		30
Carbazole	**53**	Q	55		55-144	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503

Report Date: 07/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1946832-2 WG1946832-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	36		34		21-120
Phenol-d6	23		24		10-120
Nitrobenzene-d5	47		45		23-120
2-Fluorobiphenyl	50		48		15-120
2,4,6-Tribromophenol	61		68		10-120
4-Terphenyl-d14	51		52		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503
Report Date: 07/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1946832-4 WG1946832-5 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE												
Acenaphthene	ND	20	11	55		11	55		37-111	0		30
1,2,4-Trichlorobenzene	ND	20	9.6	48		9.5	48		39-98	1		30
Hexachlorobenzene	ND	20	11	55		12	60		40-140	9		30
Bis(2-chloroethyl)ether	ND	20	11	55		9.8	49		40-140	12		30
2-Chloronaphthalene	ND	20	10	50		10	50		40-140	0		30
1,2-Dichlorobenzene	ND	20	9.6	48		9.7	49		40-140	1		30
1,3-Dichlorobenzene	ND	20	10	50		9.1	46		40-140	9		30
1,4-Dichlorobenzene	ND	20	9.5	48		9.0	45		36-97	5		30
3,3'-Dichlorobenzidine	ND	20	12	60		13	65		40-140	8		30
2,4-Dinitrotoluene	ND	20	11	55		11	55		48-143	0		30
2,6-Dinitrotoluene	ND	20	11	55		11	55		40-140	0		30
Fluoranthene	ND	20	11	55		12	60		40-140	9		30
4-Chlorophenyl phenyl ether	ND	20	11	55		11	55		40-140	0		30
4-Bromophenyl phenyl ether	ND	20	11	55		11	55		40-140	0		30
Bis(2-chloroisopropyl)ether	ND	20	9.2	46		8.8	44		40-140	4		30
Bis(2-chloroethoxy)methane	ND	20	10	50		10	50		40-140	0		30
Hexachlorobutadiene	ND	20	9.2	46		9.0	45		40-140	2		30
Hexachlorocyclopentadiene	ND	20	8.7J	44		8.4J	42		40-140	4		30
Hexachloroethane	ND	20	9.3	47		8.5	43		40-140	9		30
Isophorone	ND	20	10	50		9.8	49		40-140	2		30
Naphthalene	ND	20	9.9	50		9.3	47		40-140	6		30
Nitrobenzene	ND	20	10	50		10	50		40-140	0		30
NDPA/DPA	ND	20	11	55		11	55		40-140	0		30

Matrix Spike Analysis
Batch Quality Control

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503
Report Date: 07/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1946832-4 WG1946832-5 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE												
n-Nitrosodi-n-propylamine	ND	20	10	50		9.7	49		29-132	3		30
Bis(2-ethylhexyl)phthalate	ND	20	13	65		14	70		40-140	7		30
Butyl benzyl phthalate	ND	20	13	65		13	65		40-140	0		30
Di-n-butylphthalate	ND	20	12	60		12	60		40-140	0		30
Di-n-octylphthalate	ND	20	13	65		14	70		40-140	7		30
Diethyl phthalate	ND	20	12	60		11	55		40-140	9		30
Dimethyl phthalate	ND	20	11	55		11	55		40-140	0		30
Benzo(a)anthracene	ND	20	12	60		12	60		40-140	0		30
Benzo(a)pyrene	ND	20	13	65		13	65		40-140	0		30
Benzo(b)fluoranthene	ND	20	12	60		12	60		40-140	0		30
Benzo(k)fluoranthene	ND	20	12	60		13	65		40-140	8		30
Chrysene	ND	20	12	60		12	60		40-140	0		30
Acenaphthylene	ND	20	11	55		11	55		45-123	0		30
Anthracene	ND	20	12	60		12	60		40-140	0		30
Benzo(ghi)perylene	ND	20	12	60		12	60		40-140	0		30
Fluorene	ND	20	11	55		11	55		40-140	0		30
Phenanthrene	ND	20	11	55		12	60		40-140	9		30
Dibenzo(a,h)anthracene	ND	20	12	60		12	60		40-140	0		30
Indeno(1,2,3-cd)pyrene	ND	20	12	60		11	55		40-140	9		30
Pyrene	ND	20	12	60		12	60		26-127	0		30
4-Chloroaniline	ND	20	9.0	45		8.5	43		40-140	6		30
2-Nitroaniline	ND	20	12	60		12	60		52-143	0		30
3-Nitroaniline	ND	20	11	55		11	55		25-145	0		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503
Report Date: 07/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1946832-4 WG1946832-5 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE												
4-Nitroaniline	ND	20	11	55		11	55		51-143	0		30
Dibenzofuran	ND	20	11	55		10	50		40-140	10		30
2-Methylnaphthalene	ND	20	10	50		9.6	48		40-140	4		30
2,4,6-Trichlorophenol	ND	20	8.0	40		4.4J	**22**	Q	30-130	**58**	Q	30
p-Chloro-m-cresol	ND	20	10	50		9.9	50		23-97	1		30
2-Chlorophenol	ND	20	8.6	43		4.9	**25**	Q	27-123	**55**	Q	30
2,4-Dichlorophenol	ND	20	9.2	46		5.8	**29**	Q	30-130	**45**	Q	30
2,4-Dimethylphenol	ND	20	10	50		8.6	43		30-130	15		30
2-Nitrophenol	ND	20	8.2J	41		4.3J	**22**	Q	30-130	**62**	Q	30
4-Nitrophenol	ND	20	4.7J	24		2.3J	12		10-80	**69**	Q	30
2,4-Dinitrophenol	ND	20	ND	**0**	Q	ND	**0**	Q	20-130	NC		30
4,6-Dinitro-o-cresol	ND	20	5.3J	27		2.7J	**14**	Q	20-164	**65**	Q	30
Pentachlorophenol	ND	20	6.7J	34		3.2J	16		9-103	**71**	Q	30
Phenol	0.69J	20	6.3	32		3.4J	17		12-110	**60**	Q	30
2-Methylphenol	ND	20	9.6	48		8.5	43		30-130	12		30
3-Methylphenol/4-Methylphenol	ND	20	9.7	49		7.9	40		30-130	20		30
2,4,5-Trichlorophenol	ND	20	9.4	47		4.7J	**24**	Q	30-130	**67**	Q	30
Carbazole	ND	20	12	60		12	60		55-144	0		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	45		29		10-120
2-Fluorobiphenyl	53		49		15-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052 ***Lab Number:*** L2438503

Project Number: LEACHATE SAMPLING 24 ***Report Date:*** 07/23/24

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1946832-4 WG1946832-5 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
2-Fluorophenol	25		**13**	Q	21-120
4-Terphenyl-d14	55		57		41-149
Nitrobenzene-d5	53		50		23-120
Phenol-d6	23		14		10-120

METALS

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 24 **Report Date:** 07/23/24

SAMPLE RESULTS

Lab ID: L2438503-01 Date Collected: 07/09/24 11:15

Client ID: EF2024-LEACHATE Date Received: 07/09/24

Sample Location: (FER) FERDULA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.03156		mg/l	0.00050	0.00016	1	07/10/24 21:02	07/15/24 15:12	EPA 3005A	1,6020B	NTB
Barium, Total	0.5102		mg/l	0.00050	0.00017	1	07/10/24 21:02	07/15/24 15:12	EPA 3005A	1,6020B	NTB
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/10/24 21:02	07/15/24 15:12	EPA 3005A	1,6020B	NTB
Chromium, Total	0.00063	J	mg/l	0.00100	0.00017	1	07/10/24 21:02	07/15/24 15:12	EPA 3005A	1,6020B	NTB
Copper, Total	0.00043	J	mg/l	0.00100	0.00038	1	07/10/24 21:02	07/15/24 15:12	EPA 3005A	1,6020B	NTB
Iron, Total	44.0		mg/l	0.0500	0.0191	1	07/10/24 21:02	07/15/24 15:12	EPA 3005A	1,6020B	NTB
Lead, Total	0.01608		mg/l	0.00100	0.00034	1	07/10/24 21:02	07/15/24 15:12	EPA 3005A	1,6020B	NTB
Nickel, Total	0.00098	J	mg/l	0.00200	0.00055	1	07/10/24 21:02	07/15/24 15:12	EPA 3005A	1,6020B	NTB
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/10/24 21:02	07/15/24 15:12	EPA 3005A	1,6020B	NTB
Zinc, Total	ND		mg/l	0.01000	0.00341	1	07/10/24 21:02	07/15/24 15:12	EPA 3005A	1,6020B	NTB
Low-Level Mercury - Mansfield Lab											
Mercury, Total	0.0006		ug/l	0.0005	0.0004	1	07/15/24 15:00	07/16/24 11:41	EPA 1631E	82,1631E	RJP

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 24 **Report Date:** 07/23/24

SAMPLE RESULTS

Lab ID: L2438503-02 Date Collected: 07/09/24 11:40

Client ID: EF2024-LEACHATE-D Date Received: 07/09/24

Sample Location: (FER) FERDULA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.03136		mg/l	0.00050	0.00016	1	07/10/24 21:02	07/15/24 16:15	EPA 3005A	1,6020B	NTB
Barium, Total	0.4985		mg/l	0.00050	0.00017	1	07/10/24 21:02	07/15/24 16:15	EPA 3005A	1,6020B	NTB
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/10/24 21:02	07/15/24 16:15	EPA 3005A	1,6020B	NTB
Chromium, Total	0.00045	J	mg/l	0.00100	0.00017	1	07/10/24 21:02	07/15/24 16:15	EPA 3005A	1,6020B	NTB
Copper, Total	ND		mg/l	0.00100	0.00038	1	07/10/24 21:02	07/15/24 16:15	EPA 3005A	1,6020B	NTB
Iron, Total	43.0		mg/l	0.0500	0.0191	1	07/10/24 21:02	07/15/24 16:15	EPA 3005A	1,6020B	NTB
Lead, Total	0.01389		mg/l	0.00100	0.00034	1	07/10/24 21:02	07/15/24 16:15	EPA 3005A	1,6020B	NTB
Nickel, Total	0.00090	J	mg/l	0.00200	0.00055	1	07/10/24 21:02	07/15/24 16:15	EPA 3005A	1,6020B	NTB
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/10/24 21:02	07/15/24 16:15	EPA 3005A	1,6020B	NTB
Zinc, Total	ND		mg/l	0.01000	0.00341	1	07/10/24 21:02	07/15/24 16:15	EPA 3005A	1,6020B	NTB
Low-Level Mercury - Mansfield Lab											
Mercury, Total	0.0007		ug/l	0.0005	0.0004	1	07/15/24 15:00	07/16/24 12:04	EPA 1631E	82,1631E	RJP

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 2 **Report Date:** 07/23/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1945385-1										
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	07/10/24 21:02	07/15/24 15:03	1,6020B	NTB
Barium, Total	ND		mg/l	0.00050	0.00017	1	07/10/24 21:02	07/15/24 15:03	1,6020B	NTB
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/10/24 21:02	07/15/24 15:03	1,6020B	NTB
Chromium, Total	ND		mg/l	0.00100	0.00017	1	07/10/24 21:02	07/15/24 15:03	1,6020B	NTB
Copper, Total	ND		mg/l	0.00100	0.00038	1	07/10/24 21:02	07/15/24 15:03	1,6020B	NTB
Iron, Total	ND		mg/l	0.0500	0.0191	1	07/10/24 21:02	07/15/24 15:03	1,6020B	NTB
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/10/24 21:02	07/15/24 15:03	1,6020B	NTB
Nickel, Total	ND		mg/l	0.00200	0.00055	1	07/10/24 21:02	07/15/24 15:03	1,6020B	NTB
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/10/24 21:02	07/15/24 15:03	1,6020B	NTB
Zinc, Total	ND		mg/l	0.01000	0.00341	1	07/10/24 21:02	07/15/24 15:03	1,6020B	NTB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Low-Level Mercury - Mansfield Lab for sample(s): 01-02 Batch: WG1947527-1										
Mercury, Total	ND		ug/l	0.0005	0.0004	1	07/15/24 15:00	07/16/24 11:18	82,1631E	RJP

Prep Information

Digestion Method: EPA 1631E

Lab Control Sample Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503

Report Date: 07/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1945385-2								
Arsenic, Total	102		-		80-120	-		
Barium, Total	95		-		80-120	-		
Cadmium, Total	102		-		80-120	-		
Chromium, Total	99		-		80-120	-		
Copper, Total	103		-		80-120	-		
Iron, Total	107		-		80-120	-		
Lead, Total	99		-		80-120	-		
Nickel, Total	102		-		80-120	-		
Silver, Total	105		-		80-120	-		
Zinc, Total	102		-		80-120	-		
Low-Level Mercury - Mansfield Lab Associated sample(s): 01-02 Batch: WG1947527-2 SRM Lot Number: HG-LOW								
Mercury, Total	94		-		77-123	-		24

Matrix Spike Analysis
Batch Quality Control

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503
Report Date: 07/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1945385-3 WG1945385-4 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE												
Arsenic, Total	0.03156	0.12	0.1462	96		0.1577	105		75-125	8		20
Barium, Total	0.5102	2	2.435	96		2.502	100		75-125	3		20
Cadmium, Total	ND	0.053	0.05208	98		0.05486	104		75-125	5		20
Chromium, Total	0.00063J	0.2	0.1920	96		0.2039	102		75-125	6		20
Copper, Total	0.00043J	0.25	0.2573	103		0.2683	107		75-125	4		20
Iron, Total	44.0	1	44.6	**60**	Q	46.0	**200**	Q	75-125	3		20
Lead, Total	0.01608	0.53	0.5468	100		0.5784	106		75-125	6		20
Nickel, Total	0.00098J	0.5	0.4905	98		0.5207	104		75-125	6		20
Silver, Total	ND	0.05	0.05041	101		0.05337	107		75-125	6		20
Zinc, Total	ND	0.5	0.4845	97		0.5075	102		75-125	5		20
Low-Level Mercury - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1947527-3 WG1947527-4 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE												
Mercury, Total	0.0006	0.005	0.0047	82		0.0059	106		71-125	23		24
Low-Level Mercury - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1947527-5 WG1947527-6 QC Sample: L2438046-01 Client ID: MS Sample												
Mercury, Total	0.0094	0.005	0.0139	90		0.0138	88		71-125	1		24

INORGANICS
&
MISCELLANEOUS

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 24 **Report Date:** 07/23/24

SAMPLE RESULTS

Lab ID: L2438503-01 Date Collected: 07/09/24 11:15

Client ID: EF2024-LEACHATE Date Received: 07/09/24

Sample Location: (FER) FERDULA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	210		mg/l	20	NA	4	-	07/13/24 20:05	121,2540D	REM
Cyanide, Total	ND		mg/l	0.005	0.001	1	07/23/24 11:20	07/23/24 14:03	1,9010C/9012B	JER
Cyanide, Amenable	ND		mg/l	0.010	0.005	2	07/23/24 11:20	07/23/24 13:56	1,9010C	JER
pH (H)	6.80		SU	-	NA	1	-	07/10/24 18:05	1,9040C	AAS
BOD, 5 day	2.8		mg/l	2.0	NA	1	07/10/24 23:17	07/15/24 17:24	121,5210B	JRG
Oil & Grease, Hem-Grav	ND		mg/l	2.0	0.46	1	07/19/24 09:02	07/19/24 10:53	140,1664B	TPR
Phenolics, Total	ND		mg/l	0.030	0.006	1	07/20/24 09:00	07/20/24 10:55	4,420.1	JBB

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503
Report Date: 07/23/24

SAMPLE RESULTS

Lab ID: L2438503-02
Client ID: EF2024-LEACHATE-D
Sample Location: (FER) FERDULA, NY

Date Collected: 07/09/24 11:40
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	99.		mg/l	20	NA	4	-	07/13/24 20:05	121,2540D	REM
Cyanide, Total	ND		mg/l	0.005	0.001	1	07/23/24 11:20	07/23/24 14:06	1,9010C/9012B	JER
Cyanide, Amenable	ND		mg/l	0.010	0.005	2	07/23/24 11:20	07/23/24 13:56	1,9010C	JER
pH (H)	6.86		SU	-	NA	1	-	07/10/24 18:05	1,9040C	AAS
BOD, 5 day	2.2		mg/l	2.0	NA	1	07/10/24 23:17	07/15/24 17:24	121,5210B	JRG
Oil & Grease, Hem-Grav	ND		mg/l	2.0	0.46	1	07/19/24 09:02	07/19/24 11:47	140,1664B	TPR
Phenolics, Total	ND		mg/l	0.030	0.006	1	07/20/24 09:00	07/20/24 10:59	4,420.1	JBB

Project Name: 9762-7720100C-WH06-507052 **Lab Number:** L2438503

Project Number: LEACHATE SAMPLING 24 **Report Date:** 07/23/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1945526-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	07/10/24 23:17	07/15/24 17:24	121,5210B	JRG
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1946686-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	07/13/24 20:05	121,2540D	REM
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1948893-1										
Phenolics, Total	0.019	J	mg/l	0.030	0.006	1	07/20/24 09:00	07/20/24 10:53	4,420.1	JBB
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1948934-1										
Oil & Grease, Hem-Grav	0.60	J	mg/l	2.0	0.46	1	07/19/24 09:02	07/19/24 10:51	140,1664B	TPR
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1950194-1										
Cyanide, Amenable	ND		mg/l	0.010	0.005	2	07/23/24 11:20	07/23/24 13:56	1,9010C	JER
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1950213-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	07/23/24 11:20	07/23/24 13:59	1,9010C/9012B	JER

Lab Control Sample Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503
Report Date: 07/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1945480-1								
pH	99		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1945526-2								
BOD, 5 day	85		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1946686-2								
Solids, Total Suspended	93		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1948893-2								
Phenolics, Total	99		-		70-130	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1948934-2								
Oil & Grease, Hem-Grav	91		-		78-114	-		18
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1950194-2								
Cyanide, Amenable	100		-		85-115	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1950213-2 WG1950213-3								
Cyanide, Total	91		91		85-115	0		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503
Report Date: 07/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1945526-4 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE												
BOD, 5 day	2.8	100	79	76		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1948893-4 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE												
Phenolics, Total	ND	0.4	0.37	93		-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1948934-3 WG1948934-4 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE												
Oil & Grease, Hem-Grav	ND	40	36	91		38	95		78-114	4		18
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1950213-4 WG1950213-5 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE												
Cyanide, Total	ND	0.2	0.197	98		0.208	104		80-120	5		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503
Report Date: 07/23/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1945480-2 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE						
pH (H)	6.80	6.83	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1945526-3 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE						
BOD, 5 day	2.8	2.9	mg/l	4		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1946686-3 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE						
Solids, Total Suspended	210	200	mg/l	5		32
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1946686-4 QC Sample: L2439078-01 Client ID: DUP Sample						
Solids, Total Suspended	85.	81	mg/l	5		32
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1948893-3 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE						
Phenolics, Total	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1948934-5 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE						
Oil & Grease, Hem-Grav	ND	0.58J	mg/l	NC		18
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1950194-3 QC Sample: L2438503-01 Client ID: EF2024-LEACHATE						
Cyanide, Amenable	ND	ND	mg/l	NC		20

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503
Report Date: 07/23/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2438503-01A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2438503-01A1	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2438503-01A2	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2438503-01B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2438503-01B1	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2438503-01B2	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2438503-01C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2438503-01C1	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2438503-01C2	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2438503-01D	Teflon 250ml HCl preserved	A	<2	<2	3.4	Y	Absent		A2-HG-1631(28)
L2438503-01D1	Teflon 250ml HCl preserved	A	<2	<2	3.4	Y	Absent		A2-HG-1631(28)
L2438503-01D2	Teflon 250ml HCl preserved	A	<2	<2	3.4	Y	Absent		A2-HG-1631(28)
L2438503-01E	Plastic 250ml HNO3 preserved	A	5	<2	3.4	N	Absent		FE-6020T(180),BA-6020T(180),NI-6020T(180),CR-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180)
L2438503-01E1	Plastic 250ml HNO3 preserved	A	<2	<2	3.4	Y	Absent		FE-6020T(180),BA-6020T(180),NI-6020T(180),CR-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180)
L2438503-01E2	Plastic 250ml HNO3 preserved	A	<2	<2	3.4	Y	Absent		FE-6020T(180),BA-6020T(180),NI-6020T(180),CR-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180)
L2438503-01F	Amber 100ml unpreserved	A	6	6	3.4	Y	Absent		NYTCL-8270-RVT(7)
L2438503-01F1	Amber 100ml unpreserved	A	6	6	3.4	Y	Absent		NYTCL-8270-RVT(7)
L2438503-01F2	Amber 100ml unpreserved	A	6	6	3.4	Y	Absent		NYTCL-8270-RVT(7)
L2438503-01G	Amber 100ml unpreserved	A	6	6	3.4	Y	Absent		NYTCL-8270-RVT(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2438503-01G1	Amber 100ml unpreserved	A	6	6	3.4	Y	Absent		NYTCL-8270-RVT(7)
L2438503-01G2	Amber 100ml unpreserved	A	6	6	3.4	Y	Absent		NYTCL-8270-RVT(7)
L2438503-01H	Plastic 250ml NaOH preserved	A	>12	>12	3.4	Y	Absent		TCN-9010(14),ACN-9010(14)
L2438503-01H1	Plastic 250ml NaOH preserved	A	>12	>12	3.4	Y	Absent		TCN-9010(14),ACN-9010(14)
L2438503-01H2	Plastic 250ml NaOH preserved	A	>12	>12	3.4	Y	Absent		TCN-9010(14),ACN-9010(14)
L2438503-01I	Plastic 950ml unpreserved	A	6	6	3.4	Y	Absent		PH-9040(1),BOD-5210(2)
L2438503-01I1	Plastic 950ml unpreserved	A	6	6	3.4	Y	Absent		PH-9040(1),BOD-5210(2)
L2438503-01I2	Plastic 950ml unpreserved	A	6	6	3.4	Y	Absent		PH-9040(1),BOD-5210(2)
L2438503-01J	Plastic 950ml unpreserved	A	6	6	3.4	Y	Absent		TSS-2540(7)
L2438503-01J1	Plastic 950ml unpreserved	A	6	6	3.4	Y	Absent		TSS-2540(7)
L2438503-01J2	Plastic 950ml unpreserved	A	6	6	3.4	Y	Absent		TSS-2540(7)
L2438503-01K	Amber 1000ml H2SO4 preserved	A	<2	<2	3.4	Y	Absent		NY-TPHENOL-420(28)
L2438503-01K1	Amber 1000ml H2SO4 preserved	A	<2	<2	3.4	Y	Absent		NY-TPHENOL-420(28)
L2438503-01K2	Amber 1000ml H2SO4 preserved	A	<2	<2	3.4	Y	Absent		NY-TPHENOL-420(28)
L2438503-01L	Amber 1000ml HCl preserved	A	NA		3.4	Y	Absent		NY-OG-1664-LOW(28)
L2438503-01L1	Amber 1000ml HCl preserved	A	NA		3.4	Y	Absent		NY-OG-1664-LOW(28)
L2438503-01L2	Amber 1000ml HCl preserved	A	NA		3.4	Y	Absent		NY-OG-1664-LOW(28)
L2438503-01M	Amber 1000ml HCl preserved	A	NA		3.4	Y	Absent		NY-OG-1664-LOW(28)
L2438503-01M1	Amber 1000ml HCl preserved	A	NA		3.4	Y	Absent		NY-OG-1664-LOW(28)
L2438503-01M2	Amber 1000ml HCl preserved	A	NA		3.4	Y	Absent		NY-OG-1664-LOW(28)
L2438503-02A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2438503-02B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2438503-02C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2438503-02D	Teflon 250ml HCl preserved	A	<2	<2	3.4	Y	Absent		A2-HG-1631(28)
L2438503-02E	Plastic 250ml HNO3 preserved	A	6	6	3.4	Y	Absent		BA-6020T(180),FE-6020T(180),NI-6020T(180),CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),AS-6020T(180),CD-6020T(180),AG-6020T(180)
L2438503-02F	Amber 100ml unpreserved	A	6	6	3.4	Y	Absent		NYTCL-8270-RVT(7)
L2438503-02G	Plastic 250ml NaOH preserved	A	>12	>12	3.4	Y	Absent		TCN-9010(14),ACN-9010(14)

*Values in parentheses indicate holding time in days

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 24

Lab Number: L2438503
Report Date: 07/23/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2438503-02H	Plastic 950ml unpreserved	A	6	6	3.4	Y	Absent		PH-9040(1),BOD-5210(2)
L2438503-02I	Plastic 950ml unpreserved	A	6	6	3.4	Y	Absent		TSS-2540(7)
L2438503-02J	Amber 1000ml H2SO4 preserved	A	<2	<2	3.4	Y	Absent		NY-TPHENOL-420(28)
L2438503-02K	Amber 1000ml HCl preserved	A	NA		3.4	Y	Absent		NY-OG-1664-LOW(28)
L2438503-02L	Amber 1000ml HCl preserved	A	NA		3.4	Y	Absent		NY-OG-1664-LOW(28)
L2438503-02M	Amber 100ml unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270-RVT(7)
L2438503-03A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2438503-03B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	9762-7720100C-WH06-507052	**Lab Number:**	L2438503
Project Number:	LEACHATE SAMPLING 24	**Report Date:**	07/23/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	9762-7720100C-WH06-507052	**Lab Number:**	L2438503
Project Number:	LEACHATE SAMPLING 24	**Report Date:**	07/23/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	9762-7720100C-WH06-507052	**Lab Number:**	L2438503
Project Number:	LEACHATE SAMPLING 24	**Report Date:**	07/23/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	9762-7720100C-WH06-507052	**Lab Number:**	L2438503
Project Number:	LEACHATE SAMPLING 24	**Report Date:**	07/23/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

82 Mercury in Water by Oxidation, Purge and Trap, and Cold Vapor Atomic Fluorescence Spectrometry. USEPA Office of Water, EPA Method 1631 Revision E, EPA-821-R-02-019, August 2002.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

140 Method 1664,Revision B: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-10-001, February 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page of

Date Rec'd in Lab: 7/10/24

ALPHA Job #: L2438503

Client Information

Client: Corteva Agriscience
Address: 249 Chapman Rd Suite 101
Phone:
Fax:
Email: Dyana.Suggs@Corteva.com

Project Information

Project Name: Fenton Landfill
Project Location: Frankfort NY
Project #
(Use Project name as Project #)
Project Manager: Eric Myszka
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8270-SVE	OG-1664	TPHENOL-420	TSS-2540	PH 800-S2D	TOTAL METALS	ACN TCN	TOTAL HG	Sample Specific Comments	Total Bottles
38503-01	EF2024-LEACHATE	7/9/24	1115	Water	ZC	x	x	x	x	x	x	x	x		
-02	EF2024-LEACHATE-D	7/9/24	1140	Water	ZC	x	x	x	x	x	x	x	x		
-01	EF2024-LEACHATE MS	7/9/24	1120	Water	ZC	x	x	x	x	x	x	x	x		
-01	EF2024-LEACHATE MSD	7/9/24	1130	Water	ZC	x	x	x	x	x	x	x	x		
-03	Trip Blank	7/5/24	1000	Water	ZC	x	x	x	x	x	x	x	x	ZC	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Zack Corwin	7/9/24 1700	Fed Ex	7/9/24 1600
Sue S.C.	7/9/24 1600	Sue S.C.	7/9/24 1600
Sue S.C.	7/9/24 1600		7/9/24 1830
	7/9/24 2100		0900
0200	Tyler Doskett	7/10/24	02:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page of

Date Rec'd in Lab: 7/10/23

ALPHA Job #: L2438503

Client Information

Client: Loteven Agriscience
Address: 248 Chapman Rd
Suite 101
Phone:
Fax:
Email: Ryan.Soggerdaton.com

Project Information

Project Name: Ferdula Landfill
Project Location: Frankfort NY
Project #
(Use Project name as Project #)
Project Manager: Eric Mysona
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

NYTCL - 8260

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total # Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL - 8260	Sample Specific Comments
38503-01	EF7024 - LEACHATE	7/9/24	1115	water	ZC	x	
-02	EF7024 - LEACHATE - D	7/9/24	1140	water	ZC	x	
-01	EF7024 - LEACHATE MS	7/9/24	1120	water	ZC	x	
-01	EF7024 - LEACHATE MSD	7/9/24	1130	water	ZC	x	
-03	Trip Blank	7/9/24	1000	water	ZC	x	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Zack Cowan	7/9/24 @ 1900	Beller - Pace	7/9/24 1600
Beller - Syr S.c.	7/9/24 1600	Beller - Syr S.C.	7/9/24 1600
Beller - Syr S.C.	7/9/24 1600		7/9/24 1800
	7/9/24		2300
	0200	Tyler Sockett	7/10/24 0200

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page of

Date Rec'd in Lab: 7/10/24

ALPHA Job #: L2438503

Client Information

Client: Corteva Agriscience
Address: 249 Chapman Rd Ste 101
Phone:
Fax:
Email: Dyana.Suggs@Corteva.com

Project Information

Project Name: Fenton Landfill
Project Location: Frankfort NY
Project #
(Use Project name as Project #) ☐
Project Manager: Eric Myszka
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8270-SVE	OG-1664	TPHENOL-420	TSS-2540	PH 800-S2D	TOTAL METALS	ACN TCN	TOTAL HG	Sample Specific Comments	Total Bottles
38503-01	EF2024-LEACHATE	7/9/24	1115	Water	ZC	X	X	X	X	X	X	X	X		
-02	EF2024-LEACHATE-D	7/9/24	1140	Water	ZC	X	X	X	X	X	X	X	X		
-01	EF2024-LEACHATE MS	7/9/24	1120	Water	ZC	X	X	X	X	X	X	X	X		
-01	EF2024-LEACHATE MSD	7/9/24	1130	Water	ZC	X	X	X	X	X	X	X	X		
-03	Trip Blank	7/5/24	1000	Water	ZC	X	X	X	X	X	X	X	X	ZC	

Container Type
Preservative

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Zack Corwin	7/9/24 1700	Fed Ex	7/9/24 1600
Suresh	7/9/24 1600	Suresh	7/9/24 1600
Suresh	7/9/24 1600		7/9/24 1830
	7/9/24		

0200 Tyler Doskett 7/10/24 02:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

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Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page of

Date Rec'd in Lab: 7/10/23

ALPHA Job #: L2438503

Client Information
Client: Loteven Agriscience
Address: 248 Chapman Rd
Suite 101
Phone:
Fax:
Email: Ryan.Soggs@aeon.com

Project Information
Project Name: Ferdula Landfill
Project Location: Frankfort NY
Project #
(Use Project name as Project #)
Project Manager: Eric Mysona
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL - 8260	Total # Bottles	Sample Specific Comments
38503-01	EF7024 - LEACHATE	7/9/24	1115	water	ZC	X		
-02	EF7024 - LEACHATE - D	7/9/24	1140	water	ZC	X		
-01	EF7024 - LEACHATE MS	7/9/24	1120	water	ZC	X		
-01	EF7024 - LEACHATE MSD	7/9/24	1130	water	ZC	X		
-03	Trip Blank	7/5/24	1000	water	ZC	X		

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Zack Cowan	7/9/24 @ 1900	Bella Pace	7/9/24 1600
Bella Pace Syr S.C.	7/9/24 1600	Bella Pace - Syr S.C.	7/9/24 1600
Bella Pace Syr S.C.	7/9/24 1600		7/9/24 1800
	7/9/24 2300		
	0200	Tyler Sockett	7/10/24 02:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA
Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page of

Date Rec'd in Lab: 7/10/24

ALPHA Job #: L2438503

Client Information
Client: Corteva Agriscience
Address: 249 Chapman Rd Suite 101
Phone:
Fax:
Email: Dyana.Suggs@Corteva.com

Project Information
Project Name: Fenjulu Landfill
Project Location: Frankfort NY
Project #
(Use Project name as Project #)
Project Manager: Eric Myszka
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8270-ALK	8260 - 1664	TPHENOL - 420	TSS - 2540	PH 800 - 520	TOTAL METALS	ACN TCN	TOTAL HG	Total Bottle	Sample Specific Comments
38503-01	EF2024 - LEACHATE	7/9/24	1115	water	ZC	X	X	X	X	X	X	X	X		
-02	EF2024 - LEACHATE - D	7/9/24	1140	water	ZC	X	X	X	X	X	X	X	X		
-01	EF2024 - LEACHATE MS	7/9/24	1120	water	ZC	X	X	X	X	X	X	X	X		
-01	EF2024 - LEACHATE MSD	7/9/24	1130	water	ZC	X	X	X	X	X	X	X	X		
-03	~~Trip Blank~~ EF2024 - TB ZC 8/11/24	7/5/24	1000	water	ZC	X	X	X	X	X	X	X	X		ZC

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type								
Preservative								

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:	Date/Time	Received By:	Date/Time
Zack Lovasik	7/9/24 1700	Beller Pace	7/9/24 1600
Beller SUR S.C.	7/9/24 1600	Beller SUR S.C.	7/9/24 1600
Beller SUR S.C.	7/9/24 1600		7/9/24 2300
	7/9/24 2300	Tyler Foskett	7/10/24 02:00

Form No: 01-25 HC (rev. 30-Sept-2013)