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ANALYTICAL REPORT

PREPARED FOR

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Generated 7/7/2023 5:36:25 PM

JOB DESCRIPTION

Project # 18-046 - Aquino Lancaster

JOB NUMBER

480-210334-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

my EOL

Eurofins Buffalo

Job Notes

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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 Northeast, LLC Project Manager.

Authorization

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Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Surrogate Summary 17
QC Sample Results 19
QC Association Summary 29
Lab Chronicle 32
Certification Summary 35
Method Summary 36
Sample Summary 37
Chain of Custody 38
Receipt Checklists 39

Definitions/Glossary

Client: Matrix Environmental Technologies Inc
Project/Site: Project # 18-046 - Aquino Lancaster

Job ID: 480-210334-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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 ID: 480-210334-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-210334-1

Comments
No additional comments.

Receipt
The samples were received on 6/28/2023 1:17 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 18.0º C.

GC/MS VOA
Method 8260C: The following samples were diluted due to the nature of the TCLP matrix: LANDFILL PROFILE 1 (0'-7') (480-210334-4), LANDFILL PROFILE 2 (0'-7') (480-210334-5), LANDFILL PROFILE 3 (0'-7') (480-210334-6) and (LB 480-674884/1-A). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-674988 recovered above the upper control limit for 1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Carbon tetrachloride, Cyclohexane, Methylcyclohexane, Trichlorofluoromethane and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: DS 1 (0'-3') (480-210334-1), DS 2 (0'-3') (480-210334-2) and DS 3 (0'-3') (480-210334-3).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-675021 recovered above the upper control limit for Methylene chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: LANDFILL PROFILE 1 (0'-7') (480-210334-4), LANDFILL PROFILE 2 (0'-7') (480-210334-5) and LANDFILL PROFILE 3 (0'-7') (480-210334-6).

Method 8260C: The following samples were analyzed using medium level soil analysis to bring the concentration of target analytes within the calibration range: LANDFILL PROFILE 1 (0'-7') (480-210334-4), LANDFILL PROFILE 2 (0'-7') (480-210334-5) and LANDFILL PROFILE 3 (0'-7') (480-210334-6). Elevated reporting limits (RLs) are provided.

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

Metals
Method 6010C: The continuing calibration blank (CCB) for analytical batch 480-675515 contained Boron above the reporting limit (RL). All reported samples associated with this CCB contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

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

General Chemistry
Methods 9045C, 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: LANDFILL PROFILE 1 (0'-7') (480-210334-4), LANDFILL PROFILE 2 (0'-7') (480-210334-5) and LANDFILL PROFILE 3 (0'-7') (480-210334-6).

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

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Matrix Environmental Technologies Inc
Project/Site: Project # 18-046 - Aquino Lancaster

Job ID: 480-210334-1

Client Sample ID: DS 1 (0'-3') — Lab Sample ID: 480-210334-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.69	J	3.9	0.52	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: DS 2 (0'-3') — Lab Sample ID: 480-210334-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.8	J	18	3.0	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	1.8	J	3.6	0.48	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: DS 3 (0'-3') — Lab Sample ID: 480-210334-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	22		21	3.6	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	1.6	J	4.3	0.57	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: LANDFILL PROFILE 1 (0'-7') — Lab Sample ID: 480-210334-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	16	J	52	14	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	470		52	7.1	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	19	J	52	15	ug/Kg	1	☼	8260C	Total/NA
Barium	0.92	J ^2	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0028		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.0047	J	0.020	0.0030	mg/L	1		6010C	TCLP
Flashpoint	98.0		50.0	50.0	Degrees F	1		1010B	Total/NA
pH	8.3	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.5	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: LANDFILL PROFILE 2 (0'-7') — Lab Sample ID: 480-210334-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	210		43	12	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	130		43	5.8	ug/Kg	1	☼	8260C	Total/NA
trans-1,2-Dichloroethene	15	J	43	10	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	16	J	43	12	ug/Kg	1	☼	8260C	Total/NA
Barium	1.0	^2	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0013	J	0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.0078	J	0.020	0.0030	mg/L	1		6010C	TCLP
Flashpoint	>176		50.0	50.0	Degrees F	1		1010B	Total/NA
pH	8.4	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.5	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: LANDFILL PROFILE 3 (0'-7') — Lab Sample ID: 480-210334-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	480		45	6.0	ug/Kg	1	☼	8260C	Total/NA
Barium	0.67	J ^2	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0015	J	0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.0035	J	0.020	0.0030	mg/L	1		6010C	TCLP
Flashpoint	>176		50.0	50.0	Degrees F	1		1010B	Total/NA
pH	8.3	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.5	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Matrix Environmental Technologies Inc
Project/Site: Project # 18-046 - Aquino Lancaster

Job ID: 480-210334-1

Client Sample ID: DS 1 (0'-3')

Date Collected: 06/28/23 11:36
Date Received: 06/28/23 13:17

Lab Sample ID: 480-210334-1

Matrix: Solid
Percent Solids: 82.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	3.9	U	3.9	0.28	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
1,1,2,2-Tetrachloroethane	3.9	U	3.9	0.63	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.9	U	3.9	0.88	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
1,1,2-Trichloroethane	3.9	U	3.9	0.50	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
1,1-Dichloroethane	3.9	U	3.9	0.47	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
1,1-Dichloroethene	3.9	U	3.9	0.47	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
1,2,4-Trichlorobenzene	3.9	U	3.9	0.24	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
1,2-Dibromo-3-Chloropropane	3.9	U	3.9	1.9	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
1,2-Dibromoethane	3.9	U	3.9	0.50	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
1,2-Dichlorobenzene	3.9	U	3.9	0.30	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
1,2-Dichloroethane	3.9	U	3.9	0.19	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
1,2-Dichloropropane	3.9	U	3.9	1.9	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
1,3-Dichlorobenzene	3.9	U	3.9	0.20	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
1,4-Dichlorobenzene	3.9	U	3.9	0.54	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
2-Butanone (MEK)	19	U	19	1.4	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
2-Hexanone	19	U	19	1.9	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
4-Methyl-2-pentanone (MIBK)	19	U	19	1.3	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Acetone	19	U	19	3.3	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Benzene	3.9	U	3.9	0.19	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Bromodichloromethane	3.9	U	3.9	0.52	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Bromoform	3.9	U	3.9	1.9	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Bromomethane	3.9	U	3.9	0.35	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Carbon disulfide	3.9	U	3.9	1.9	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Carbon tetrachloride	3.9	U	3.9	0.37	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Chlorobenzene	3.9	U	3.9	0.51	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Chloroethane	3.9	U	3.9	0.88	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Chloroform	3.9	U	3.9	0.24	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Chloromethane	3.9	U	3.9	0.23	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
cis-1,2-Dichloroethene	3.9	U	3.9	0.50	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
cis-1,3-Dichloropropene	3.9	U	3.9	0.56	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Cyclohexane	3.9	U	3.9	0.54	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Dibromochloromethane	3.9	U	3.9	0.50	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Dichlorodifluoromethane	3.9	U	3.9	0.32	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Ethylbenzene	3.9	U	3.9	0.27	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Isopropylbenzene	3.9	U	3.9	0.58	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Methyl acetate	19	U	19	2.3	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Methyl tert-butyl ether	3.9	U	3.9	0.38	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Methylcyclohexane	3.9	U	3.9	0.59	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Methylene Chloride	3.9	U	3.9	1.8	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Styrene	3.9	U	3.9	0.19	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Tetrachloroethene	**0.69**	**J**	3.9	0.52	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Toluene	3.9	U	3.9	0.29	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
trans-1,2-Dichloroethene	3.9	U	3.9	0.40	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
trans-1,3-Dichloropropene	3.9	U	3.9	1.7	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Trichloroethene	3.9	U	3.9	0.85	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Trichlorofluoromethane	3.9	U	3.9	0.37	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Vinyl chloride	3.9	U	3.9	0.47	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1
Xylenes, Total	7.7	U	7.7	0.65	ug/Kg	☼	06/28/23 16:30	06/29/23 22:00	1

Client Sample Results

Client: Matrix Environmental Technologies Inc
Project/Site: Project # 18-046 - Aquino Lancaster

Job ID: 480-210334-1

Client Sample ID: DS 1 (0'-3')

Lab Sample ID: 480-210334-1
Date Collected: 06/28/23 11:36
Matrix: Solid
Date Received: 06/28/23 13:17
Percent Solids: 82.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 126*	*06/28/23 16:30*	*06/29/23 22:00*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 126*	*06/28/23 16:30*	*06/29/23 22:00*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*	*06/28/23 16:30*	*06/29/23 22:00*	*1*
Toluene-d8 (Surr)	*92*		*71 - 125*	*06/28/23 16:30*	*06/29/23 22:00*	*1*

Client Sample ID: DS 2 (0'-3')

Lab Sample ID: 480-210334-2
Date Collected: 06/28/23 10:05
Matrix: Solid
Date Received: 06/28/23 13:17
Percent Solids: 84.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	3.6	U	3.6	0.26	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
1,1,2,2-Tetrachloroethane	3.6	U	3.6	0.58	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.6	U	3.6	0.81	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
1,1,2-Trichloroethane	3.6	U	3.6	0.46	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
1,1-Dichloroethane	3.6	U	3.6	0.43	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
1,1-Dichloroethene	3.6	U	3.6	0.43	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
1,2,4-Trichlorobenzene	3.6	U	3.6	0.22	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
1,2-Dibromo-3-Chloropropane	3.6	U	3.6	1.8	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
1,2-Dibromoethane	3.6	U	3.6	0.46	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
1,2-Dichlorobenzene	3.6	U	3.6	0.28	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
1,2-Dichloroethane	3.6	U	3.6	0.18	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
1,2-Dichloropropane	3.6	U	3.6	1.8	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
1,3-Dichlorobenzene	3.6	U	3.6	0.18	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
1,4-Dichlorobenzene	3.6	U	3.6	0.50	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
2-Butanone (MEK)	18	U	18	1.3	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
2-Hexanone	18	U	18	1.8	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
4-Methyl-2-pentanone (MIBK)	18	U	18	1.2	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Acetone	**8.8**	**J**	18	3.0	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Benzene	3.6	U	3.6	0.17	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Bromodichloromethane	3.6	U	3.6	0.48	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Bromoform	3.6	U	3.6	1.8	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Bromomethane	3.6	U	3.6	0.32	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Carbon disulfide	3.6	U	3.6	1.8	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Carbon tetrachloride	3.6	U	3.6	0.34	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Chlorobenzene	3.6	U	3.6	0.47	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Chloroethane	3.6	U	3.6	0.80	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Chloroform	3.6	U	3.6	0.22	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Chloromethane	3.6	U	3.6	0.21	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
cis-1,2-Dichloroethene	3.6	U	3.6	0.45	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
cis-1,3-Dichloropropene	3.6	U	3.6	0.51	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Cyclohexane	3.6	U	3.6	0.50	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Dibromochloromethane	3.6	U	3.6	0.45	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Dichlorodifluoromethane	3.6	U	3.6	0.29	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Ethylbenzene	3.6	U	3.6	0.25	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Isopropylbenzene	3.6	U	3.6	0.54	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Methyl acetate	18	U	18	2.1	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Methyl tert-butyl ether	3.6	U	3.6	0.35	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Methylcyclohexane	3.6	U	3.6	0.54	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Methylene Chloride	3.6	U	3.6	1.6	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1

Client Sample ID: DS 2 (0'-3')

Lab Sample ID: 480-210334-2
Date Collected: 06/28/23 10:05
Matrix: Solid
Date Received: 06/28/23 13:17
Percent Solids: 84.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	3.6	U	3.6	0.18	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Tetrachloroethene	**1.8**	**J**	3.6	0.48	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Toluene	3.6	U	3.6	0.27	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
trans-1,2-Dichloroethene	3.6	U	3.6	0.37	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
trans-1,3-Dichloropropene	3.6	U	3.6	1.6	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Trichloroethene	3.6	U	3.6	0.78	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Trichlorofluoromethane	3.6	U	3.6	0.34	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Vinyl chloride	3.6	U	3.6	0.43	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1
Xylenes, Total	7.1	U	7.1	0.60	ug/Kg	☼	06/28/23 16:30	06/29/23 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*06/28/23 16:30*	*06/29/23 22:25*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*	*06/28/23 16:30*	*06/29/23 22:25*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*06/28/23 16:30*	*06/29/23 22:25*	*1*
Toluene-d8 (Surr)	*93*		*71 - 125*	*06/28/23 16:30*	*06/29/23 22:25*	*1*

Client Sample ID: DS 3 (0'-3')

Lab Sample ID: 480-210334-3
Date Collected: 06/28/23 11:02
Matrix: Solid
Date Received: 06/28/23 13:17
Percent Solids: 81.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.3	U	4.3	0.31	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
1,1,2,2-Tetrachloroethane	4.3	U	4.3	0.69	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	4.3	U	4.3	0.97	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
1,1,2-Trichloroethane	4.3	U	4.3	0.56	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
1,1-Dichloroethane	4.3	U	4.3	0.52	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
1,1-Dichloroethene	4.3	U	4.3	0.52	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
1,2,4-Trichlorobenzene	4.3	U	4.3	0.26	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
1,2-Dibromo-3-Chloropropane	4.3	U	4.3	2.1	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
1,2-Dibromoethane	4.3	U	4.3	0.55	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
1,2-Dichlorobenzene	4.3	U	4.3	0.33	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
1,2-Dichloroethane	4.3	U	4.3	0.21	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
1,2-Dichloropropane	4.3	U	4.3	2.1	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
1,3-Dichlorobenzene	4.3	U	4.3	0.22	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
1,4-Dichlorobenzene	4.3	U	4.3	0.60	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
2-Butanone (MEK)	21	U	21	1.6	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
2-Hexanone	21	U	21	2.1	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
4-Methyl-2-pentanone (MIBK)	21	U	21	1.4	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Acetone	**22**		21	3.6	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Benzene	4.3	U	4.3	0.21	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Bromodichloromethane	4.3	U	4.3	0.57	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Bromoform	4.3	U	4.3	2.1	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Bromomethane	4.3	U	4.3	0.38	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Carbon disulfide	4.3	U	4.3	2.1	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Carbon tetrachloride	4.3	U	4.3	0.41	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Chlorobenzene	4.3	U	4.3	0.56	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Chloroethane	4.3	U	4.3	0.97	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Chloroform	4.3	U	4.3	0.26	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Chloromethane	4.3	U	4.3	0.26	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1

Client Sample ID: DS 3 (0'-3')

Lab Sample ID: 480-210334-3
Date Collected: 06/28/23 11:02
Matrix: Solid
Date Received: 06/28/23 13:17
Percent Solids: 81.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	4.3	U	4.3	0.55	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
cis-1,3-Dichloropropene	4.3	U	4.3	0.62	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Cyclohexane	4.3	U	4.3	0.60	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Dibromochloromethane	4.3	U	4.3	0.55	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Dichlorodifluoromethane	4.3	U	4.3	0.35	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Ethylbenzene	4.3	U	4.3	0.30	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Isopropylbenzene	4.3	U	4.3	0.64	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Methyl acetate	21	U	21	2.6	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Methyl tert-butyl ether	4.3	U	4.3	0.42	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Methylcyclohexane	4.3	U	4.3	0.65	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Methylene Chloride	4.3	U	4.3	2.0	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Styrene	4.3	U	4.3	0.21	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Tetrachloroethene	**1.6**	**J**	4.3	0.57	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Toluene	4.3	U	4.3	0.32	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
trans-1,2-Dichloroethene	4.3	U	4.3	0.44	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
trans-1,3-Dichloropropene	4.3	U	4.3	1.9	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Trichloroethene	4.3	U	4.3	0.94	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Trichlorofluoromethane	4.3	U	4.3	0.40	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Vinyl chloride	4.3	U	4.3	0.52	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1
Xylenes, Total	8.6	U	8.6	0.72	ug/Kg	☼	06/28/23 16:30	06/29/23 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*	*06/28/23 16:30*	*06/29/23 22:49*	*1*
4-Bromofluorobenzene (Surr)	*105*		*72 - 126*	*06/28/23 16:30*	*06/29/23 22:49*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*	*06/28/23 16:30*	*06/29/23 22:49*	*1*
Toluene-d8 (Surr)	*92*		*71 - 125*	*06/28/23 16:30*	*06/29/23 22:49*	*1*

Client Sample ID: LANDFILL PROFILE 1 (0'-7')

Lab Sample ID: 480-210334-4
Date Collected: 06/28/23 11:50
Matrix: Solid
Date Received: 06/28/23 13:17
Percent Solids: 86.6

Method: SW846 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.010	U	0.010	0.0029	mg/L			06/30/23 13:36	10
1,2-Dichloroethane	0.010	U	0.010	0.0021	mg/L			06/30/23 13:36	10
2-Butanone (MEK)	0.050	U	0.050	0.013	mg/L			06/30/23 13:36	10
Benzene	0.010	U	0.010	0.0041	mg/L			06/30/23 13:36	10
Carbon tetrachloride	0.010	U	0.010	0.0027	mg/L			06/30/23 13:36	10
Chlorobenzene	0.010	U	0.010	0.0075	mg/L			06/30/23 13:36	10
Chloroform	0.010	U	0.010	0.0034	mg/L			06/30/23 13:36	10
Tetrachloroethene	0.010	U	0.010	0.0036	mg/L			06/30/23 13:36	10
Trichloroethene	0.010	U	0.010	0.0046	mg/L			06/30/23 13:36	10
Vinyl chloride	0.010	U	0.010	0.0090	mg/L			06/30/23 13:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*06/30/23 13:36*	*10*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*06/30/23 13:36*	*10*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*06/30/23 13:36*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/30/23 13:36*	*10*

Client Sample Results

Client: Matrix Environmental Technologies Inc
Project/Site: Project # 18-046 - Aquino Lancaster

Job ID: 480-210334-1

Client Sample ID: LANDFILL PROFILE 1 (0'-7')

Date Collected: 06/28/23 11:50
Date Received: 06/28/23 13:17

Lab Sample ID: 480-210334-4
Matrix: Solid
Percent Solids: 86.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	52	U	52	15	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
1,1,2,2-Tetrachloroethane	52	U	52	8.5	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	52	U	52	26	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
1,1,2-Trichloroethane	52	U	52	11	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
1,1-Dichloroethane	52	U	52	16	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
1,1-Dichloroethene	52	U	52	18	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
1,2,4-Trichlorobenzene	52	U	52	20	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
1,2-Dibromo-3-Chloropropane	52	U	52	26	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
1,2-Dibromoethane	52	U	52	9.2	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
1,2-Dichlorobenzene	52	U	52	13	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
1,2-Dichloroethane	52	U	52	21	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
1,2-Dichloropropane	52	U	52	8.5	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
1,3-Dichlorobenzene	52	U	52	14	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
1,4-Dichlorobenzene	52	U	52	7.3	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
2-Butanone (MEK)	260	U	260	160	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
2-Hexanone	260	U	260	110	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
4-Methyl-2-pentanone (MIBK)	260	U	260	17	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Acetone	260	U	260	220	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Benzene	52	U	52	10	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Bromodichloromethane	52	U	52	10	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Bromoform	52	U	52	26	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Bromomethane	52	U	52	12	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Carbon disulfide	52	U	52	24	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Carbon tetrachloride	52	U	52	13	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Chlorobenzene	52	U	52	6.9	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Chloroethane	52	U	52	11	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Chloroform	52	U	52	36	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Chloromethane	52	U	52	12	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
cis-1,2-Dichloroethene	**16**	**J**	52	14	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
cis-1,3-Dichloropropene	52	U	52	13	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Cyclohexane	52	U	52	12	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Dibromochloromethane	52	U	52	25	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Dichlorodifluoromethane	52	U	52	23	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Ethylbenzene	52	U	52	15	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Isopropylbenzene	52	U	52	7.9	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Methyl acetate	260	U	260	25	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Methyl tert-butyl ether	52	U	52	20	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Methylcyclohexane	52	U	52	25	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Methylene Chloride	52	U	52	10	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Styrene	52	U	52	13	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Tetrachloroethene	**470**		52	7.1	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Toluene	52	U	52	14	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
trans-1,2-Dichloroethene	52	U	52	12	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
trans-1,3-Dichloropropene	52	U	52	5.2	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Trichloroethene	**19**	**J**	52	15	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Trichlorofluoromethane	52	U	52	25	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Vinyl chloride	52	U	52	18	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1
Xylenes, Total	100	U	100	29	ug/Kg	☼	06/29/23 10:25	06/30/23 15:29	1

Client Sample ID: LANDFILL PROFILE 1 (0'-7')

Lab Sample ID: 480-210334-4
Date Collected: 06/28/23 11:50
Matrix: Solid
Date Received: 06/28/23 13:17
Percent Solids: 86.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*53 - 146*	*06/29/23 10:25*	*06/30/23 15:29*	*1*
4-Bromofluorobenzene (Surr)	*100*		*49 - 148*	*06/29/23 10:25*	*06/30/23 15:29*	*1*
Dibromofluoromethane (Surr)	*96*		*60 - 140*	*06/29/23 10:25*	*06/30/23 15:29*	*1*
Toluene-d8 (Surr)	*98*		*50 - 149*	*06/29/23 10:25*	*06/30/23 15:29*	*1*

Method: SW846 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	U	0.015	0.0056	mg/L		06/30/23 09:23	07/04/23 22:24	1
Barium	**0.92**	**J ^2**	1.0	0.10	mg/L		06/30/23 09:23	07/06/23 14:38	1
Cadmium	**0.0028**		0.0020	0.00050	mg/L		06/30/23 09:23	07/04/23 22:24	1
Chromium	0.020	U	0.020	0.010	mg/L		06/30/23 09:23	07/04/23 22:24	1
Lead	**0.0047**	**J**	0.020	0.0030	mg/L		06/30/23 09:23	07/06/23 14:38	1
Selenium	0.025	U	0.025	0.0087	mg/L		06/30/23 09:23	07/04/23 22:24	1
Silver	0.0060	U	0.0060	0.0017	mg/L		06/30/23 09:23	07/04/23 22:24	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		06/30/23 10:01	06/30/23 16:41	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010B)	**98.0**		50.0	50.0	Degrees F			07/07/23 13:02	1
pH (SW846 9045D)	**8.3**	**HF**	0.1	0.1	SU			07/01/23 10:30	1
Temperature (SW846 9045D)	**18.5**	**HF**	0.001	0.001	Degrees C			07/01/23 10:30	1

Client Sample ID: LANDFILL PROFILE 2 (0'-7')

Lab Sample ID: 480-210334-5
Date Collected: 06/28/23 10:28
Matrix: Solid
Date Received: 06/28/23 13:17
Percent Solids: 85.2

Method: SW846 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.010	U	0.010	0.0029	mg/L			06/30/23 13:58	10
1,2-Dichloroethane	0.010	U	0.010	0.0021	mg/L			06/30/23 13:58	10
2-Butanone (MEK)	0.050	U	0.050	0.013	mg/L			06/30/23 13:58	10
Benzene	0.010	U	0.010	0.0041	mg/L			06/30/23 13:58	10
Carbon tetrachloride	0.010	U	0.010	0.0027	mg/L			06/30/23 13:58	10
Chlorobenzene	0.010	U	0.010	0.0075	mg/L			06/30/23 13:58	10
Chloroform	0.010	U	0.010	0.0034	mg/L			06/30/23 13:58	10
Tetrachloroethene	0.010	U	0.010	0.0036	mg/L			06/30/23 13:58	10
Trichloroethene	0.010	U	0.010	0.0046	mg/L			06/30/23 13:58	10
Vinyl chloride	0.010	U	0.010	0.0090	mg/L			06/30/23 13:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*06/30/23 13:58*	*10*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*06/30/23 13:58*	*10*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/30/23 13:58*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/30/23 13:58*	*10*

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	43	U	43	12	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
1,1,2,2-Tetrachloroethane	43	U	43	7.0	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1

Client Sample ID: LANDFILL PROFILE 2 (0'-7')

Lab Sample ID: 480-210334-5

Date Collected: 06/28/23 10:28
Date Received: 06/28/23 13:17

Matrix: Solid
Percent Solids: 85.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	43	U	43	22	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
1,1,2-Trichloroethane	43	U	43	9.1	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
1,1-Dichloroethane	43	U	43	13	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
1,1-Dichloroethene	43	U	43	15	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
1,2,4-Trichlorobenzene	43	U	43	16	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
1,2-Dibromo-3-Chloropropane	43	U	43	22	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
1,2-Dibromoethane	43	U	43	7.6	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
1,2-Dichlorobenzene	43	U	43	11	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
1,2-Dichloroethane	43	U	43	18	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
1,2-Dichloropropane	43	U	43	7.0	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
1,3-Dichlorobenzene	43	U	43	12	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
1,4-Dichlorobenzene	43	U	43	6.0	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
2-Butanone (MEK)	220	U	220	130	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
2-Hexanone	220	U	220	89	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
4-Methyl-2-pentanone (MIBK)	220	U	220	14	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Acetone	220	U	220	180	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Benzene	43	U	43	8.2	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Bromodichloromethane	43	U	43	8.6	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Bromoform	43	U	43	22	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Bromomethane	43	U	43	9.5	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Carbon disulfide	43	U	43	20	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Carbon tetrachloride	43	U	43	11	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Chlorobenzene	43	U	43	5.7	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Chloroethane	43	U	43	9.0	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Chloroform	43	U	43	30	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Chloromethane	43	U	43	10	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
cis-1,2-Dichloroethene	**210**		43	12	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
cis-1,3-Dichloropropene	43	U	43	10	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Cyclohexane	43	U	43	9.6	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Dibromochloromethane	43	U	43	21	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Dichlorodifluoromethane	43	U	43	19	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Ethylbenzene	43	U	43	13	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Isopropylbenzene	43	U	43	6.5	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Methyl acetate	220	U	220	21	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Methyl tert-butyl ether	43	U	43	16	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Methylcyclohexane	43	U	43	20	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Methylene Chloride	43	U	43	8.5	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Styrene	43	U	43	10	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Tetrachloroethene	**130**		43	5.8	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Toluene	43	U	43	12	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
trans-1,2-Dichloroethene	**15**	**J**	43	10	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
trans-1,3-Dichloropropene	43	U	43	4.2	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Trichloroethene	**16**	**J**	43	12	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Trichlorofluoromethane	43	U	43	20	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Vinyl chloride	43	U	43	14	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1
Xylenes, Total	86	U	86	24	ug/Kg	☼	06/29/23 10:25	06/30/23 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*53 - 146*	*06/29/23 10:25*	*06/30/23 15:51*	*1*
4-Bromofluorobenzene (Surr)	*96*		*49 - 148*	*06/29/23 10:25*	*06/30/23 15:51*	*1*

Client Sample ID: LANDFILL PROFILE 2 (0'-7')

Lab Sample ID: 480-210334-5
Date Collected: 06/28/23 10:28
Matrix: Solid
Date Received: 06/28/23 13:17
Percent Solids: 85.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*93*		*60 - 140*	*06/29/23 10:25*	*06/30/23 15:51*	*1*
Toluene-d8 (Surr)	*98*		*50 - 149*	*06/29/23 10:25*	*06/30/23 15:51*	*1*

Method: SW846 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	U	0.015	0.0056	mg/L		06/30/23 09:23	07/04/23 22:51	1
Barium	**1.0**	**^2**	1.0	0.10	mg/L		06/30/23 09:23	07/06/23 14:58	1
Cadmium	**0.0013**	**J**	0.0020	0.00050	mg/L		06/30/23 09:23	07/04/23 22:51	1
Chromium	0.020	U	0.020	0.010	mg/L		06/30/23 09:23	07/04/23 22:51	1
Lead	**0.0078**	**J**	0.020	0.0030	mg/L		06/30/23 09:23	07/06/23 14:58	1
Selenium	0.025	U	0.025	0.0087	mg/L		06/30/23 09:23	07/04/23 22:51	1
Silver	0.0060	U	0.0060	0.0017	mg/L		06/30/23 09:23	07/04/23 22:51	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		06/30/23 10:01	06/30/23 16:49	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010B)	**>176**		50.0	50.0	Degrees F			07/07/23 13:02	1
pH (SW846 9045D)	**8.4**	**HF**	0.1	0.1	SU			07/01/23 10:30	1
Temperature (SW846 9045D)	**18.5**	**HF**	0.001	0.001	Degrees C			07/01/23 10:30	1

Client Sample ID: LANDFILL PROFILE 3 (0'-7')

Lab Sample ID: 480-210334-6
Date Collected: 06/28/23 11:21
Matrix: Solid
Date Received: 06/28/23 13:17
Percent Solids: 87.9

Method: SW846 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.010	U	0.010	0.0029	mg/L			06/30/23 14:21	10
1,2-Dichloroethane	0.010	U	0.010	0.0021	mg/L			06/30/23 14:21	10
2-Butanone (MEK)	0.050	U	0.050	0.013	mg/L			06/30/23 14:21	10
Benzene	0.010	U	0.010	0.0041	mg/L			06/30/23 14:21	10
Carbon tetrachloride	0.010	U	0.010	0.0027	mg/L			06/30/23 14:21	10
Chlorobenzene	0.010	U	0.010	0.0075	mg/L			06/30/23 14:21	10
Chloroform	0.010	U	0.010	0.0034	mg/L			06/30/23 14:21	10
Tetrachloroethene	0.010	U	0.010	0.0036	mg/L			06/30/23 14:21	10
Trichloroethene	0.010	U	0.010	0.0046	mg/L			06/30/23 14:21	10
Vinyl chloride	0.010	U	0.010	0.0090	mg/L			06/30/23 14:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*06/30/23 14:21*	*10*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*06/30/23 14:21*	*10*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*06/30/23 14:21*	*10*
Toluene-d8 (Surr)	*93*		*80 - 120*		*06/30/23 14:21*	*10*

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	45	U	45	12	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
1,1,2,2-Tetrachloroethane	45	U	45	7.3	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	45	U	45	22	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1

Client Sample ID: LANDFILL PROFILE 3 (0'-7')

Lab Sample ID: 480-210334-6

Date Collected: 06/28/23 11:21
Date Received: 06/28/23 13:17

Matrix: Solid
Percent Solids: 87.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	45	U	45	9.4	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
1,1-Dichloroethane	45	U	45	14	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
1,1-Dichloroethene	45	U	45	16	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
1,2,4-Trichlorobenzene	45	U	45	17	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
1,2-Dibromo-3-Chloropropane	45	U	45	22	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
1,2-Dibromoethane	45	U	45	7.8	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
1,2-Dichlorobenzene	45	U	45	11	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
1,2-Dichloroethane	45	U	45	18	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
1,2-Dichloropropane	45	U	45	7.3	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
1,3-Dichlorobenzene	45	U	45	12	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
1,4-Dichlorobenzene	45	U	45	6.3	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
2-Butanone (MEK)	220	U	220	130	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
2-Hexanone	220	U	220	92	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
4-Methyl-2-pentanone (MIBK)	220	U	220	14	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Acetone	220	U	220	180	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Benzene	45	U	45	8.5	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Bromodichloromethane	45	U	45	9.0	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Bromoform	45	U	45	22	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Bromomethane	45	U	45	9.9	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Carbon disulfide	45	U	45	20	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Carbon tetrachloride	45	U	45	11	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Chlorobenzene	45	U	45	5.9	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Chloroethane	45	U	45	9.3	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Chloroform	45	U	45	31	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Chloromethane	45	U	45	11	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
cis-1,2-Dichloroethene	45	U	45	12	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
cis-1,3-Dichloropropene	45	U	45	11	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Cyclohexane	45	U	45	9.9	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Dibromochloromethane	45	U	45	22	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Dichlorodifluoromethane	45	U	45	20	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Ethylbenzene	45	U	45	13	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Isopropylbenzene	45	U	45	6.7	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Methyl acetate	220	U	220	21	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Methyl tert-butyl ether	45	U	45	17	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Methylcyclohexane	45	U	45	21	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Methylene Chloride	45	U	45	8.9	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Styrene	45	U	45	11	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Tetrachloroethene	**480**		45	6.0	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Toluene	45	U	45	12	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
trans-1,2-Dichloroethene	45	U	45	11	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
trans-1,3-Dichloropropene	45	U	45	4.4	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Trichloroethene	45	U	45	12	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Trichlorofluoromethane	45	U	45	21	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Vinyl chloride	45	U	45	15	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1
Xylenes, Total	90	U	90	25	ug/Kg	☼	06/29/23 10:25	06/30/23 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*53 - 146*	*06/29/23 10:25*	*06/30/23 16:14*	*1*
4-Bromofluorobenzene (Surr)	*107*		*49 - 148*	*06/29/23 10:25*	*06/30/23 16:14*	*1*
Dibromofluoromethane (Surr)	*91*		*60 - 140*	*06/29/23 10:25*	*06/30/23 16:14*	*1*

Client Sample ID: LANDFILL PROFILE 3 (0'-7')

Lab Sample ID: 480-210334-6

Date Collected: 06/28/23 11:21
Date Received: 06/28/23 13:17

Matrix: Solid
Percent Solids: 87.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*50 - 149*	*06/29/23 10:25*	*06/30/23 16:14*	*1*

Method: SW846 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	U	0.015	0.0056	mg/L		06/30/23 09:23	07/04/23 22:54	1
Barium	**0.67**	**J ^2**	1.0	0.10	mg/L		06/30/23 09:23	07/06/23 15:03	1
Cadmium	**0.0015**	**J**	0.0020	0.00050	mg/L		06/30/23 09:23	07/04/23 22:54	1
Chromium	0.020	U	0.020	0.010	mg/L		06/30/23 09:23	07/04/23 22:54	1
Lead	**0.0035**	**J**	0.020	0.0030	mg/L		06/30/23 09:23	07/06/23 15:03	1
Selenium	0.025	U	0.025	0.0087	mg/L		06/30/23 09:23	07/04/23 22:54	1
Silver	0.0060	U	0.0060	0.0017	mg/L		06/30/23 09:23	07/04/23 22:54	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		06/30/23 10:01	06/30/23 16:50	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010B)	**>176**		50.0	50.0	Degrees F			07/07/23 13:02	1
pH (SW846 9045D)	**8.3**	**HF**	0.1	0.1	SU			07/01/23 10:30	1
Temperature (SW846 9045D)	**18.5**	**HF**	0.001	0.001	Degrees C			07/01/23 10:30	1

Surrogate Summary

Client: Matrix Environmental Technologies Inc
Project/Site: Project # 18-046 - Aquino Lancaster

Job ID: 480-210334-1

Method: 8260C - TCLP Volatiles

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-210334-4	LANDFILL PROFILE 1 (0'-7')	92	101	102	100
480-210334-5	LANDFILL PROFILE 2 (0'-7')	95	94	100	100
480-210334-6	LANDFILL PROFILE 3 (0'-7')	95	102	106	93
LB 480-674884/1-A	Method Blank	94	101	99	98

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(60-140)	(71-125)
480-210334-1	DS 1 (0'-3')	108	103	107	92
480-210334-2	DS 2 (0'-3')	103	104	104	93
480-210334-3	DS 3 (0'-3')	105	105	105	92
LCS 480-674987/1-A	Lab Control Sample	96	104	103	95
MB 480-674987/2-A	Method Blank	97	104	102	93

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(53-146)	(49-148)	(60-140)	(50-149)
480-210334-4	LANDFILL PROFILE 1 (0'-7')	97	100	96	98
480-210334-5	LANDFILL PROFILE 2 (0'-7')	93	96	93	98
480-210334-6	LANDFILL PROFILE 3 (0'-7')	92	107	91	104
LCS 480-674917/1-A	Lab Control Sample	89	100	95	98
MB 480-674917/3-A	Method Blank	93	95	94	97
MB 480-675021/8	Method Blank	98	113	104	110

Surrogate Legend

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

Surrogate Summary

Client: Matrix Environmental Technologies Inc
Job ID: 480-210334-1
Project/Site: Project # 18-046 - Aquino Lancaster

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	DBFM	TOL				
Lab Sample ID	**Client Sample ID**	**(77-120)**	**(73-120)**	**(75-123)**	**(80-120)**				
LCS 480-675021/6	Lab Control Sample	93	108	102	111				

Surrogate Legend

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

Method: 8260C - TCLP Volatiles

Lab Sample ID: LB 480-674884/1-A
Matrix: Solid
Analysis Batch: 675021

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.010	U	0.010	0.0029	mg/L			06/30/23 12:07	10
1,2-Dichloroethane	0.010	U	0.010	0.0021	mg/L			06/30/23 12:07	10
2-Butanone (MEK)	0.050	U	0.050	0.013	mg/L			06/30/23 12:07	10
Benzene	0.010	U	0.010	0.0041	mg/L			06/30/23 12:07	10
Carbon tetrachloride	0.010	U	0.010	0.0027	mg/L			06/30/23 12:07	10
Chlorobenzene	0.010	U	0.010	0.0075	mg/L			06/30/23 12:07	10
Chloroform	0.010	U	0.010	0.0034	mg/L			06/30/23 12:07	10
Tetrachloroethene	0.010	U	0.010	0.0036	mg/L			06/30/23 12:07	10
Trichloroethene	0.010	U	0.010	0.0046	mg/L			06/30/23 12:07	10
Vinyl chloride	0.010	U	0.010	0.0090	mg/L			06/30/23 12:07	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*06/30/23 12:07*	*10*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*06/30/23 12:07*	*10*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*06/30/23 12:07*	*10*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/30/23 12:07*	*10*

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

Lab Sample ID: MB 480-674917/3-A
Matrix: Solid
Analysis Batch: 675021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	100	U	100	28	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
1,1,2,2-Tetrachloroethane	100	U	100	16	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	100	U	100	50	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
1,1,2-Trichloroethane	100	U	100	21	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
1,1-Dichloroethane	100	U	100	31	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
1,1-Dichloroethene	100	U	100	35	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
1,2,4-Trichlorobenzene	100	U	100	38	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
1,2-Dibromo-3-Chloropropane	100	U	100	50	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
1,2-Dibromoethane	100	U	100	18	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
1,2-Dichlorobenzene	100	U	100	26	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
1,2-Dichloroethane	100	U	100	41	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
1,2-Dichloropropane	100	U	100	16	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
1,3-Dichlorobenzene	100	U	100	27	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
1,4-Dichlorobenzene	100	U	100	14	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
2-Butanone (MEK)	500	U	500	300	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
2-Hexanone	500	U	500	210	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
4-Methyl-2-pentanone (MIBK)	500	U	500	32	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Acetone	500	U	500	410	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Benzene	100	U	100	19	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Bromodichloromethane	100	U	100	20	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Bromoform	100	U	100	50	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Bromomethane	100	U	100	22	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Carbon disulfide	100	U	100	46	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Carbon tetrachloride	100	U	100	26	ug/Kg		06/29/23 10:25	06/30/23 11:27	1

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

Lab Sample ID: MB 480-674917/3-A
Matrix: Solid
Analysis Batch: 675021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	100	U	100	13	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Chloroethane	100	U	100	21	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Chloroform	100	U	100	69	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Chloromethane	100	U	100	24	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
cis-1,2-Dichloroethene	100	U	100	28	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
cis-1,3-Dichloropropene	100	U	100	24	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Cyclohexane	100	U	100	22	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Dibromochloromethane	100	U	100	48	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Dichlorodifluoromethane	100	U	100	44	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Ethylbenzene	100	U	100	29	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Isopropylbenzene	100	U	100	15	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Methyl acetate	500	U	500	48	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Methyl tert-butyl ether	100	U	100	38	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Methylcyclohexane	100	U	100	47	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Methylene Chloride	100	U	100	20	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Styrene	100	U	100	24	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Tetrachloroethene	100	U	100	13	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Toluene	100	U	100	27	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
trans-1,2-Dichloroethene	100	U	100	24	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
trans-1,3-Dichloropropene	100	U	100	9.8	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Trichloroethene	100	U	100	28	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Trichlorofluoromethane	100	U	100	47	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Vinyl chloride	100	U	100	34	ug/Kg		06/29/23 10:25	06/30/23 11:27	1
Xylenes, Total	200	U	200	55	ug/Kg		06/29/23 10:25	06/30/23 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*53 - 146*	*06/29/23 10:25*	*06/30/23 11:27*	*1*
4-Bromofluorobenzene (Surr)	*95*		*49 - 148*	*06/29/23 10:25*	*06/30/23 11:27*	*1*
Dibromofluoromethane (Surr)	*94*		*60 - 140*	*06/29/23 10:25*	*06/30/23 11:27*	*1*
Toluene-d8 (Surr)	*97*		*50 - 149*	*06/29/23 10:25*	*06/30/23 11:27*	*1*

Lab Sample ID: LCS 480-674917/1-A
Matrix: Solid
Analysis Batch: 675021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	2500	2340		ug/Kg		94	68 - 130
1,1,2,2-Tetrachloroethane	2500	2350		ug/Kg		94	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroetha ne	2500	2050		ug/Kg		82	10 - 179
1,1,2-Trichloroethane	2500	2480		ug/Kg		99	80 - 120
1,1-Dichloroethane	2500	2550		ug/Kg		102	78 - 121
1,1-Dichloroethene	2500	2090		ug/Kg		84	48 - 133
1,2,4-Trichlorobenzene	2500	2860		ug/Kg		115	70 - 140
1,2-Dibromo-3-Chloropropane	2500	2100		ug/Kg		84	56 - 122
1,2-Dibromoethane	2500	2440		ug/Kg		98	80 - 120
1,2-Dichlorobenzene	2500	2440		ug/Kg		97	78 - 125
1,2-Dichloroethane	2500	2300		ug/Kg		92	74 - 127
1,2-Dichloropropane	2500	2520		ug/Kg		101	80 - 120

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

Lab Sample ID: LCS 480-674917/1-A
Matrix: Solid
Analysis Batch: 675021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	2500	2530		ug/Kg		101	80 - 120
1,4-Dichlorobenzene	2500	2550		ug/Kg		102	80 - 120
2-Butanone (MEK)	12500	10300		ug/Kg		82	54 - 149
2-Hexanone	12500	9880		ug/Kg		79	59 - 127
4-Methyl-2-pentanone (MIBK)	12500	10600		ug/Kg		85	74 - 120
Acetone	12500	9840		ug/Kg		79	47 - 141
Benzene	2500	2640		ug/Kg		106	77 - 125
Bromodichloromethane	2500	2320		ug/Kg		93	71 - 121
Bromoform	2500	2180		ug/Kg		87	48 - 125
Bromomethane	2500	1860		ug/Kg		74	39 - 149
Carbon disulfide	2500	2330		ug/Kg		93	40 - 136
Carbon tetrachloride	2500	2310		ug/Kg		93	54 - 135
Chlorobenzene	2500	2490		ug/Kg		100	76 - 126
Chloroethane	2500	1900		ug/Kg		76	23 - 150
Chloroform	2500	2320		ug/Kg		93	78 - 120
Chloromethane	2500	2260		ug/Kg		90	61 - 124
cis-1,2-Dichloroethene	2500	2530		ug/Kg		101	79 - 124
cis-1,3-Dichloropropene	2500	2720		ug/Kg		109	75 - 121
Cyclohexane	2500	2470		ug/Kg		99	49 - 129
Dibromochloromethane	2500	2280		ug/Kg		91	64 - 120
Dichlorodifluoromethane	2500	2000		ug/Kg		80	10 - 150
Ethylbenzene	2500	2580		ug/Kg		103	78 - 124
Isopropylbenzene	2500	2780		ug/Kg		111	76 - 120
Methyl acetate	5000	3750		ug/Kg		75	71 - 123
Methyl tert-butyl ether	2500	2430		ug/Kg		97	67 - 137
Methylcyclohexane	2500	2590		ug/Kg		104	50 - 130
Methylene Chloride	2500	2840		ug/Kg		114	75 - 118
Styrene	2500	2540		ug/Kg		102	80 - 120
Tetrachloroethene	2500	2450		ug/Kg		98	73 - 133
Toluene	2500	2520		ug/Kg		101	75 - 124
trans-1,2-Dichloroethene	2500	2680		ug/Kg		107	74 - 129
trans-1,3-Dichloropropene	2500	2560		ug/Kg		103	73 - 120
Trichloroethene	2500	2500		ug/Kg		100	75 - 131
Trichlorofluoromethane	2500	2010		ug/Kg		80	29 - 158
Vinyl chloride	2500	2430		ug/Kg		97	59 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*53 - 146*
4-Bromofluorobenzene (Surr)	*100*		*49 - 148*
Dibromofluoromethane (Surr)	*95*		*60 - 140*
Toluene-d8 (Surr)	*98*		*50 - 149*

Lab Sample ID: MB 480-674987/2-A
Matrix: Solid
Analysis Batch: 674988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674987

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		06/29/23 17:33	06/29/23 21:12	1

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

Lab Sample ID: MB 480-674987/2-A
Matrix: Solid
Analysis Batch: 674988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674987

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.30	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
1,2-Dibromoethane	5.0	U	5.0	0.64	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
1,2-Dichloropropane	5.0	U	5.0	2.5	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
2-Hexanone	25	U	25	2.5	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
4-Methyl-2-pentanone (MIBK)	25	U	25	1.6	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Acetone	25	U	25	4.2	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Benzene	5.0	U	5.0	0.25	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Bromodichloromethane	5.0	U	5.0	0.67	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Bromoform	5.0	U	5.0	2.5	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Bromomethane	5.0	U	5.0	0.45	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Carbon disulfide	5.0	U	5.0	2.5	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Chloroethane	5.0	U	5.0	1.1	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Chloroform	5.0	U	5.0	0.31	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Chloromethane	5.0	U	5.0	0.30	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.72	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Cyclohexane	5.0	U	5.0	0.70	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Dibromochloromethane	5.0	U	5.0	0.64	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Dichlorodifluoromethane	5.0	U	5.0	0.41	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Isopropylbenzene	5.0	U	5.0	0.75	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Methyl acetate	25	U	25	3.0	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Methylcyclohexane	5.0	U	5.0	0.76	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Methylene Chloride	5.0	U	5.0	2.3	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Styrene	5.0	U	5.0	0.25	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Toluene	5.0	U	5.0	0.38	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
trans-1,3-Dichloropropene	5.0	U	5.0	2.2	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Trichlorofluoromethane	5.0	U	5.0	0.47	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		06/29/23 17:33	06/29/23 21:12	1
Xylenes, Total	10	U	10	0.84	ug/Kg		06/29/23 17:33	06/29/23 21:12	1

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

Lab Sample ID: MB 480-674987/2-A
Matrix: Solid
Analysis Batch: 674988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674987

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*64 - 126*	*06/29/23 17:33*	*06/29/23 21:12*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*	*06/29/23 17:33*	*06/29/23 21:12*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*	*06/29/23 17:33*	*06/29/23 21:12*	*1*
Toluene-d8 (Surr)	*93*		*71 - 125*	*06/29/23 17:33*	*06/29/23 21:12*	*1*

Lab Sample ID: LCS 480-674987/1-A
Matrix: Solid
Analysis Batch: 674988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	53.2		ug/Kg		106	77 - 121
1,1,2,2-Tetrachloroethane	50.0	42.7		ug/Kg		85	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	50.8		ug/Kg		102	60 - 140
1,1,2-Trichloroethane	50.0	42.5		ug/Kg		85	78 - 122
1,1-Dichloroethane	50.0	50.0		ug/Kg		100	73 - 126
1,1-Dichloroethene	50.0	51.4		ug/Kg		103	59 - 125
1,2,4-Trichlorobenzene	50.0	41.8		ug/Kg		84	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	42.8		ug/Kg		86	63 - 124
1,2-Dibromoethane	50.0	43.4		ug/Kg		87	78 - 120
1,2-Dichlorobenzene	50.0	41.4		ug/Kg		83	75 - 120
1,2-Dichloroethane	50.0	46.1		ug/Kg		92	77 - 122
1,2-Dichloropropane	50.0	48.2		ug/Kg		96	75 - 124
1,3-Dichlorobenzene	50.0	42.4		ug/Kg		85	74 - 120
1,4-Dichlorobenzene	50.0	41.9		ug/Kg		84	73 - 120
2-Butanone (MEK)	250	253		ug/Kg		101	70 - 134
2-Hexanone	250	223		ug/Kg		89	59 - 130
4-Methyl-2-pentanone (MIBK)	250	222		ug/Kg		89	65 - 133
Acetone	250	253		ug/Kg		101	61 - 137
Benzene	50.0	51.0		ug/Kg		102	79 - 127
Bromodichloromethane	50.0	51.1		ug/Kg		102	80 - 122
Bromoform	50.0	46.5		ug/Kg		93	68 - 126
Bromomethane	50.0	52.0		ug/Kg		104	37 - 149
Carbon disulfide	50.0	47.5		ug/Kg		95	64 - 131
Carbon tetrachloride	50.0	55.9		ug/Kg		112	75 - 135
Chlorobenzene	50.0	44.3		ug/Kg		89	76 - 124
Chloroethane	50.0	51.3		ug/Kg		103	69 - 135
Chloroform	50.0	48.8		ug/Kg		98	80 - 120
Chloromethane	50.0	47.9		ug/Kg		96	63 - 127
cis-1,2-Dichloroethene	50.0	49.8		ug/Kg		100	81 - 120
cis-1,3-Dichloropropene	50.0	51.9		ug/Kg		104	80 - 120
Cyclohexane	50.0	54.5		ug/Kg		109	65 - 120
Dibromochloromethane	50.0	46.4		ug/Kg		93	76 - 125
Dichlorodifluoromethane	50.0	53.6		ug/Kg		107	57 - 142
Ethylbenzene	50.0	45.8		ug/Kg		92	80 - 120
Isopropylbenzene	50.0	46.0		ug/Kg		92	72 - 120
Methyl acetate	100	92.8		ug/Kg		93	55 - 136
Methyl tert-butyl ether	50.0	47.5		ug/Kg		95	63 - 125
Methylcyclohexane	50.0	55.5		ug/Kg		111	60 - 140

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

Lab Sample ID: LCS 480-674987/1-A
Matrix: Solid
Analysis Batch: 674988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	50.0	46.9		ug/Kg		94	61 - 127
Styrene	50.0	44.2		ug/Kg		88	80 - 120
Tetrachloroethene	50.0	47.6		ug/Kg		95	74 - 122
Toluene	50.0	44.9		ug/Kg		90	74 - 128
trans-1,2-Dichloroethene	50.0	51.3		ug/Kg		103	78 - 126
trans-1,3-Dichloropropene	50.0	44.1		ug/Kg		88	73 - 123
Trichloroethene	50.0	52.3		ug/Kg		105	77 - 129
Trichlorofluoromethane	50.0	57.1		ug/Kg		114	65 - 146
Vinyl chloride	50.0	54.8		ug/Kg		110	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 126*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*95*		*71 - 125*

Lab Sample ID: MB 480-675021/8
Matrix: Solid
Analysis Batch: 675021

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.35	ug/Kg			06/30/23 11:05	1
1,2-Dichloroethane	1.0	U	1.0	0.41	ug/Kg			06/30/23 11:05	1
2-Butanone (MEK)	5.0	U	5.0	3.0	ug/Kg			06/30/23 11:05	1
Benzene	1.0	U	1.0	0.19	ug/Kg			06/30/23 11:05	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/Kg			06/30/23 11:05	1
Chlorobenzene	1.0	U	1.0	0.13	ug/Kg			06/30/23 11:05	1
Chloroform	1.0	U	1.0	0.69	ug/Kg			06/30/23 11:05	1
Tetrachloroethene	1.0	U	1.0	0.13	ug/Kg			06/30/23 11:05	1
Trichloroethene	1.0	U	1.0	0.28	ug/Kg			06/30/23 11:05	1
Vinyl chloride	1.0	U	1.0	0.34	ug/Kg			06/30/23 11:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*53 - 146*		*06/30/23 11:05*	*1*
4-Bromofluorobenzene (Surr)	*113*		*49 - 148*		*06/30/23 11:05*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*		*06/30/23 11:05*	*1*
Toluene-d8 (Surr)	*110*		*50 - 149*		*06/30/23 11:05*	*1*

Lab Sample ID: LCS 480-675021/6
Matrix: Solid
Analysis Batch: 675021

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	0.0250	0.0269		mg/L		108	66 - 127
1,2-Dichloroethane	0.0250	0.0244		mg/L		98	75 - 120
2-Butanone (MEK)	0.125	0.110		mg/L		88	57 - 140
Benzene	0.0250	0.0270		mg/L		108	71 - 124
Carbon tetrachloride	0.0250	0.0255		mg/L		102	72 - 134

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

Lab Sample ID: LCS 480-675021/6
Matrix: Solid
Analysis Batch: 675021

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	0.0250	0.0240		mg/L		96	80 - 120
Chloroform	0.0250	0.0244		mg/L		98	73 - 127
Tetrachloroethene	0.0250	0.0267		mg/L		107	74 - 122
Trichloroethene	0.0250	0.0261		mg/L		104	74 - 123
Vinyl chloride	0.0250	0.0264		mg/L		106	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*
Toluene-d8 (Surr)	*111*		*80 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-675030/2-A
Matrix: Solid
Analysis Batch: 675477

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	U	0.015	0.0056	mg/L		06/30/23 09:23	07/04/23 21:59	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		06/30/23 09:23	07/04/23 21:59	1
Chromium	0.020	U	0.020	0.010	mg/L		06/30/23 09:23	07/04/23 21:59	1
Selenium	0.025	U	0.025	0.0087	mg/L		06/30/23 09:23	07/04/23 21:59	1
Silver	0.0060	U	0.0060	0.0017	mg/L		06/30/23 09:23	07/04/23 21:59	1

Lab Sample ID: MB 480-675030/2-A
Matrix: Solid
Analysis Batch: 675515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0	U	1.0	0.10	mg/L		06/30/23 09:23	07/06/23 14:07	1
Lead	0.020	U	0.020	0.0030	mg/L		06/30/23 09:23	07/06/23 14:07	1

Lab Sample ID: LCS 480-675030/3-A
Matrix: Solid
Analysis Batch: 675477

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.991		mg/L		99	80 - 120
Cadmium	1.00	0.952		mg/L		95	80 - 120
Chromium	1.00	0.825		mg/L		83	80 - 120
Selenium	1.00	0.975		mg/L		97	80 - 120
Silver	1.00	0.925		mg/L		93	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-675030/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 675515 — **Prep Batch: 675030**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	1.00	0.964	J	mg/L		96	80 - 120
Lead	1.00	0.991		mg/L		99	80 - 120

Lab Sample ID: LB 480-674882/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 675477 — **Prep Batch: 675030**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	U	0.015	0.0056	mg/L		06/30/23 09:23	07/04/23 21:56	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		06/30/23 09:23	07/04/23 21:56	1
Chromium	0.020	U	0.020	0.010	mg/L		06/30/23 09:23	07/04/23 21:56	1
Selenium	0.025	U	0.025	0.0087	mg/L		06/30/23 09:23	07/04/23 21:56	1
Silver	0.0060	U	0.0060	0.0017	mg/L		06/30/23 09:23	07/04/23 21:56	1

Lab Sample ID: LB 480-674882/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 675515 — **Prep Batch: 675030**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0	U	1.0	0.10	mg/L		06/30/23 09:23	07/06/23 14:03	1
Lead	0.020	U	0.020	0.0030	mg/L		06/30/23 09:23	07/06/23 14:03	1

Lab Sample ID: 480-210334-4 MS — **Client Sample ID: LANDFILL PROFILE 1 (0'-7')**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 675477 — **Prep Batch: 675030**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.015	U	1.00	0.992		mg/L		99	75 - 125
Cadmium	0.0028		1.00	0.953		mg/L		95	75 - 125
Chromium	0.020	U	1.00	0.830		mg/L		83	75 - 125
Selenium	0.025	U	1.00	0.977		mg/L		98	75 - 125
Silver	0.0060	U	1.00	0.965		mg/L		96	75 - 125

Lab Sample ID: 480-210334-4 MS — **Client Sample ID: LANDFILL PROFILE 1 (0'-7')**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 675515 — **Prep Batch: 675030**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.92	J ^2	1.00	1.87		mg/L		95	75 - 125
Lead	0.0047	J	1.00	0.991		mg/L		99	75 - 125

Lab Sample ID: 480-210334-4 MSD — **Client Sample ID: LANDFILL PROFILE 1 (0'-7')**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 675477 — **Prep Batch: 675030**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.015	U	1.00	1.02		mg/L		102	75 - 125	3	20
Cadmium	0.0028		1.00	0.981		mg/L		98	75 - 125	3	20
Chromium	0.020	U	1.00	0.865		mg/L		86	75 - 125	4	20
Selenium	0.025	U	1.00	1.01		mg/L		101	75 - 125	3	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-210334-4 MSD — **Client Sample ID: LANDFILL PROFILE 1 (0'-7')**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 675477 — **Prep Batch: 675030**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	0.0060	U	1.00	1.03		mg/L		103	75 - 125	7	20

Lab Sample ID: 480-210334-4 MSD — **Client Sample ID: LANDFILL PROFILE 1 (0'-7')**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 675515 — **Prep Batch: 675030**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.92	J ^2	1.00	1.92		mg/L		101	75 - 125	3	20
Lead	0.0047	J	1.00	1.03		mg/L		102	75 - 125	3	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-675052/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 675126 — **Prep Batch: 675052**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		06/30/23 10:01	06/30/23 16:35	1

Lab Sample ID: LCS 480-675052/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 675126 — **Prep Batch: 675052**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00680	0.00646		mg/L		95	80 - 120

Lab Sample ID: LB 480-674882/1-E — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 675126 — **Prep Batch: 675052**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		06/30/23 10:01	06/30/23 16:33	1

Lab Sample ID: 480-210334-4 MS — **Client Sample ID: LANDFILL PROFILE 1 (0'-7')**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 675126 — **Prep Batch: 675052**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00020	U	0.00680	0.00681		mg/L		100	80 - 120

Lab Sample ID: 480-210334-4 MSD — **Client Sample ID: LANDFILL PROFILE 1 (0'-7')**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 675126 — **Prep Batch: 675052**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00020	U	0.00680	0.00671		mg/L		99	80 - 120	1	20

QC Sample Results

Client: Matrix Environmental Technologies Inc
Project/Site: Project # 18-046 - Aquino Lancaster

Job ID: 480-210334-1

Method: 1010B - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-675600/1
Matrix: Solid
Analysis Batch: 675600

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Flashpoint			81.0	83.00		Degrees F		102	97.5 - 102.5		

Method: 9045D - pH

Lab Sample ID: LCS 480-675141/1
Matrix: Solid
Analysis Batch: 675141

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

QC Association Summary

Client: Matrix Environmental Technologies Inc
Project/Site: Project # 18-046 - Aquino Lancaster

Job ID: 480-210334-1

GC/MS VOA

Leach Batch: 674884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210334-4	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	1311	
480-210334-5	LANDFILL PROFILE 2 (0'-7')	TCLP	Solid	1311	
480-210334-6	LANDFILL PROFILE 3 (0'-7')	TCLP	Solid	1311	
LB 480-674884/1-A	Method Blank	TCLP	Solid	1311	

Prep Batch: 674917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210334-4	LANDFILL PROFILE 1 (0'-7')	Total/NA	Solid	5035A_H	
480-210334-5	LANDFILL PROFILE 2 (0'-7')	Total/NA	Solid	5035A_H	
480-210334-6	LANDFILL PROFILE 3 (0'-7')	Total/NA	Solid	5035A_H	
MB 480-674917/3-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-674917/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	

Prep Batch: 674987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210334-1	DS 1 (0'-3')	Total/NA	Solid	5035A_L	
480-210334-2	DS 2 (0'-3')	Total/NA	Solid	5035A_L	
480-210334-3	DS 3 (0'-3')	Total/NA	Solid	5035A_L	
MB 480-674987/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-674987/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 674988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210334-1	DS 1 (0'-3')	Total/NA	Solid	8260C	674987
480-210334-2	DS 2 (0'-3')	Total/NA	Solid	8260C	674987
480-210334-3	DS 3 (0'-3')	Total/NA	Solid	8260C	674987
MB 480-674987/2-A	Method Blank	Total/NA	Solid	8260C	674987
LCS 480-674987/1-A	Lab Control Sample	Total/NA	Solid	8260C	674987

Analysis Batch: 675021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210334-4	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	8260C	674884
480-210334-4	LANDFILL PROFILE 1 (0'-7')	Total/NA	Solid	8260C	674917
480-210334-5	LANDFILL PROFILE 2 (0'-7')	TCLP	Solid	8260C	674884
480-210334-5	LANDFILL PROFILE 2 (0'-7')	Total/NA	Solid	8260C	674917
480-210334-6	LANDFILL PROFILE 3 (0'-7')	TCLP	Solid	8260C	674884
480-210334-6	LANDFILL PROFILE 3 (0'-7')	Total/NA	Solid	8260C	674917
LB 480-674884/1-A	Method Blank	TCLP	Solid	8260C	674884
MB 480-674917/3-A	Method Blank	Total/NA	Solid	8260C	674917
MB 480-675021/8	Method Blank	Total/NA	Solid	8260C	
LCS 480-674917/1-A	Lab Control Sample	Total/NA	Solid	8260C	674917
LCS 480-675021/6	Lab Control Sample	Total/NA	Solid	8260C	

Metals

Leach Batch: 674882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210334-4	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	1311	
480-210334-5	LANDFILL PROFILE 2 (0'-7')	TCLP	Solid	1311	
480-210334-6	LANDFILL PROFILE 3 (0'-7')	TCLP	Solid	1311	
LB 480-674882/1-B	Method Blank	TCLP	Solid	1311	

Metals (Continued)

Leach Batch: 674882 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 480-674882/1-E	Method Blank	TCLP	Solid	1311	
480-210334-4 MS	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	1311	
480-210334-4 MSD	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	1311	

Prep Batch: 675030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210334-4	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	3010A	674882
480-210334-5	LANDFILL PROFILE 2 (0'-7')	TCLP	Solid	3010A	674882
480-210334-6	LANDFILL PROFILE 3 (0'-7')	TCLP	Solid	3010A	674882
LB 480-674882/1-B	Method Blank	TCLP	Solid	3010A	674882
MB 480-675030/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-675030/3-A	Lab Control Sample	Total/NA	Solid	3010A	
480-210334-4 MS	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	3010A	674882
480-210334-4 MSD	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	3010A	674882

Prep Batch: 675052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210334-4	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	7470A	674882
480-210334-5	LANDFILL PROFILE 2 (0'-7')	TCLP	Solid	7470A	674882
480-210334-6	LANDFILL PROFILE 3 (0'-7')	TCLP	Solid	7470A	674882
LB 480-674882/1-E	Method Blank	TCLP	Solid	7470A	674882
MB 480-675052/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-675052/3-A	Lab Control Sample	Total/NA	Solid	7470A	
480-210334-4 MS	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	7470A	674882
480-210334-4 MSD	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	7470A	674882

Analysis Batch: 675126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210334-4	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	7470A	675052
480-210334-5	LANDFILL PROFILE 2 (0'-7')	TCLP	Solid	7470A	675052
480-210334-6	LANDFILL PROFILE 3 (0'-7')	TCLP	Solid	7470A	675052
LB 480-674882/1-E	Method Blank	TCLP	Solid	7470A	675052
MB 480-675052/2-A	Method Blank	Total/NA	Solid	7470A	675052
LCS 480-675052/3-A	Lab Control Sample	Total/NA	Solid	7470A	675052
480-210334-4 MS	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	7470A	675052
480-210334-4 MSD	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	7470A	675052

Analysis Batch: 675477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210334-4	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	6010C	675030
480-210334-5	LANDFILL PROFILE 2 (0'-7')	TCLP	Solid	6010C	675030
480-210334-6	LANDFILL PROFILE 3 (0'-7')	TCLP	Solid	6010C	675030
LB 480-674882/1-B	Method Blank	TCLP	Solid	6010C	675030
MB 480-675030/2-A	Method Blank	Total/NA	Solid	6010C	675030
LCS 480-675030/3-A	Lab Control Sample	Total/NA	Solid	6010C	675030
480-210334-4 MS	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	6010C	675030
480-210334-4 MSD	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	6010C	675030

Analysis Batch: 675515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210334-4	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	6010C	675030

Metals (Continued)

Analysis Batch: 675515 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210334-5	LANDFILL PROFILE 2 (0'-7')	TCLP	Solid	6010C	675030
480-210334-6	LANDFILL PROFILE 3 (0'-7')	TCLP	Solid	6010C	675030
LB 480-674882/1-B	Method Blank	TCLP	Solid	6010C	675030
MB 480-675030/2-A	Method Blank	Total/NA	Solid	6010C	675030
LCS 480-675030/3-A	Lab Control Sample	Total/NA	Solid	6010C	675030
480-210334-4 MS	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	6010C	675030
480-210334-4 MSD	LANDFILL PROFILE 1 (0'-7')	TCLP	Solid	6010C	675030

General Chemistry

Analysis Batch: 674816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210334-1	DS 1 (0'-3')	Total/NA	Solid	Moisture	
480-210334-2	DS 2 (0'-3')	Total/NA	Solid	Moisture	
480-210334-3	DS 3 (0'-3')	Total/NA	Solid	Moisture	
480-210334-4	LANDFILL PROFILE 1 (0'-7')	Total/NA	Solid	Moisture	
480-210334-5	LANDFILL PROFILE 2 (0'-7')	Total/NA	Solid	Moisture	
480-210334-6	LANDFILL PROFILE 3 (0'-7')	Total/NA	Solid	Moisture	
480-210334-6 MS	LANDFILL PROFILE 3 (0'-7')	Total/NA	Solid	Moisture	

Analysis Batch: 675141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210334-4	LANDFILL PROFILE 1 (0'-7')	Total/NA	Solid	9045D	
480-210334-5	LANDFILL PROFILE 2 (0'-7')	Total/NA	Solid	9045D	
480-210334-6	LANDFILL PROFILE 3 (0'-7')	Total/NA	Solid	9045D	
LCS 480-675141/1	Lab Control Sample	Total/NA	Solid	9045D	

Analysis Batch: 675600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210334-4	LANDFILL PROFILE 1 (0'-7')	Total/NA	Solid	1010B	
480-210334-5	LANDFILL PROFILE 2 (0'-7')	Total/NA	Solid	1010B	
480-210334-6	LANDFILL PROFILE 3 (0'-7')	Total/NA	Solid	1010B	
LCS 480-675600/1	Lab Control Sample	Total/NA	Solid	1010B	
480-210334-4 MS	LANDFILL PROFILE 1 (0'-7')	Total/NA	Solid	1010B	
480-210334-4 MSD	LANDFILL PROFILE 1 (0'-7')	Total/NA	Solid	1010B	

Lab Chronicle

Client: Matrix Environmental Technologies Inc
Project/Site: Project # 18-046 - Aquino Lancaster

Job ID: 480-210334-1

Client Sample ID: DS 1 (0'-3')
Date Collected: 06/28/23 11:36
Date Received: 06/28/23 13:17

Lab Sample ID: 480-210334-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	674816	JMM	EET BUF	06/28/23 15:53

Client Sample ID: DS 1 (0'-3')
Date Collected: 06/28/23 11:36
Date Received: 06/28/23 13:17

Lab Sample ID: 480-210334-1
Matrix: Solid
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			674987	CDC	EET BUF	06/28/23 16:30
Total/NA	Analysis	8260C		1	674988	CDC	EET BUF	06/29/23 22:00

Client Sample ID: DS 2 (0'-3')
Date Collected: 06/28/23 10:05
Date Received: 06/28/23 13:17

Lab Sample ID: 480-210334-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	674816	JMM	EET BUF	06/28/23 15:53

Client Sample ID: DS 2 (0'-3')
Date Collected: 06/28/23 10:05
Date Received: 06/28/23 13:17

Lab Sample ID: 480-210334-2
Matrix: Solid
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			674987	CDC	EET BUF	06/28/23 16:30
Total/NA	Analysis	8260C		1	674988	CDC	EET BUF	06/29/23 22:25

Client Sample ID: DS 3 (0'-3')
Date Collected: 06/28/23 11:02
Date Received: 06/28/23 13:17

Lab Sample ID: 480-210334-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	674816	JMM	EET BUF	06/28/23 15:53

Client Sample ID: DS 3 (0'-3')
Date Collected: 06/28/23 11:02
Date Received: 06/28/23 13:17

Lab Sample ID: 480-210334-3
Matrix: Solid
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			674987	CDC	EET BUF	06/28/23 16:30
Total/NA	Analysis	8260C		1	674988	CDC	EET BUF	06/29/23 22:49

Lab Chronicle

Client: Matrix Environmental Technologies Inc
Project/Site: Project # 18-046 - Aquino Lancaster

Job ID: 480-210334-1

Client Sample ID: LANDFILL PROFILE 1 (0'-7')

Lab Sample ID: 480-210334-4
Date Collected: 06/28/23 11:50
Matrix: Solid
Date Received: 06/28/23 13:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			674884	SMP	EET BUF	06/29/23 09:28 - 06/30/23 09:23 [1]
TCLP	Analysis	8260C		10	675021	LCH	EET BUF	06/30/23 13:36
TCLP	Leach	1311			674882	SMP	EET BUF	06/29/23 09:23 - 06/30/23 08:25 [1]
TCLP	Prep	3010A			675030	VAK	EET BUF	06/30/23 09:23
TCLP	Analysis	6010C		1	675515	BMB	EET BUF	07/06/23 14:38
TCLP	Leach	1311			674882	SMP	EET BUF	06/29/23 09:23 - 06/30/23 08:25 [1]
TCLP	Prep	3010A			675030	VAK	EET BUF	06/30/23 09:23
TCLP	Analysis	6010C		1	675477	BMB	EET BUF	07/04/23 22:24
TCLP	Leach	1311			674882	SMP	EET BUF	06/29/23 09:23 - 06/30/23 08:25 [1]
TCLP	Prep	7470A			675052	VAK	EET BUF	06/30/23 10:01
TCLP	Analysis	7470A		1	675126	BMB	EET BUF	06/30/23 16:41
Total/NA	Analysis	1010B		1	675600	SF	EET BUF	07/07/23 13:02
Total/NA	Analysis	9045D		1	675141	CG	EET BUF	07/01/23 10:30
Total/NA	Analysis	Moisture		1	674816	JMM	EET BUF	06/28/23 15:53

Client Sample ID: LANDFILL PROFILE 1 (0'-7')

Lab Sample ID: 480-210334-4
Date Collected: 06/28/23 11:50
Matrix: Solid
Date Received: 06/28/23 13:17
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			674917	AXK	EET BUF	06/29/23 10:25
Total/NA	Analysis	8260C		1	675021	LCH	EET BUF	06/30/23 15:29

Client Sample ID: LANDFILL PROFILE 2 (0'-7')

Lab Sample ID: 480-210334-5
Date Collected: 06/28/23 10:28
Matrix: Solid
Date Received: 06/28/23 13:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			674884	SMP	EET BUF	06/29/23 09:28 - 06/30/23 09:23 [1]
TCLP	Analysis	8260C		10	675021	LCH	EET BUF	06/30/23 13:58
TCLP	Leach	1311			674882	SMP	EET BUF	06/29/23 09:23 - 06/30/23 08:25 [1]
TCLP	Prep	3010A			675030	VAK	EET BUF	06/30/23 09:23
TCLP	Analysis	6010C		1	675515	BMB	EET BUF	07/06/23 14:58
TCLP	Leach	1311			674882	SMP	EET BUF	06/29/23 09:23 - 06/30/23 08:25 [1]
TCLP	Prep	3010A			675030	VAK	EET BUF	06/30/23 09:23
TCLP	Analysis	6010C		1	675477	BMB	EET BUF	07/04/23 22:51
TCLP	Leach	1311			674882	SMP	EET BUF	06/29/23 09:23 - 06/30/23 08:25 [1]
TCLP	Prep	7470A			675052	VAK	EET BUF	06/30/23 10:01
TCLP	Analysis	7470A		1	675126	BMB	EET BUF	06/30/23 16:49
Total/NA	Analysis	1010B		1	675600	SF	EET BUF	07/07/23 13:02
Total/NA	Analysis	9045D		1	675141	CG	EET BUF	07/01/23 10:30
Total/NA	Analysis	Moisture		1	674816	JMM	EET BUF	06/28/23 15:53

Lab Chronicle

Client: Matrix Environmental Technologies Inc
Project/Site: Project # 18-046 - Aquino Lancaster

Job ID: 480-210334-1

Client Sample ID: LANDFILL PROFILE 2 (0'-7')

Lab Sample ID: 480-210334-5
Date Collected: 06/28/23 10:28
Matrix: Solid
Date Received: 06/28/23 13:17
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			674917	AXK	EET BUF	06/29/23 10:25
Total/NA	Analysis	8260C		1	675021	LCH	EET BUF	06/30/23 15:51

Client Sample ID: LANDFILL PROFILE 3 (0'-7')

Lab Sample ID: 480-210334-6
Date Collected: 06/28/23 11:21
Matrix: Solid
Date Received: 06/28/23 13:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			674884	SMP	EET BUF	06/29/23 09:28 - 06/30/23 09:23 [1]
TCLP	Analysis	8260C		10	675021	LCH	EET BUF	06/30/23 14:21
TCLP	Leach	1311			674882	SMP	EET BUF	06/29/23 09:23 - 06/30/23 08:25 [1]
TCLP	Prep	3010A			675030	VAK	EET BUF	06/30/23 09:23
TCLP	Analysis	6010C		1	675515	BMB	EET BUF	07/06/23 15:03
TCLP	Leach	1311			674882	SMP	EET BUF	06/29/23 09:23 - 06/30/23 08:25 [1]
TCLP	Prep	3010A			675030	VAK	EET BUF	06/30/23 09:23
TCLP	Analysis	6010C		1	675477	BMB	EET BUF	07/04/23 22:54
TCLP	Leach	1311			674882	SMP	EET BUF	06/29/23 09:23 - 06/30/23 08:25 [1]
TCLP	Prep	7470A			675052	VAK	EET BUF	06/30/23 10:01
TCLP	Analysis	7470A		1	675126	BMB	EET BUF	06/30/23 16:50
Total/NA	Analysis	1010B		1	675600	SF	EET BUF	07/07/23 13:02
Total/NA	Analysis	9045D		1	675141	CG	EET BUF	07/01/23 10:30
Total/NA	Analysis	Moisture		1	674816	JMM	EET BUF	06/28/23 15:53

Client Sample ID: LANDFILL PROFILE 3 (0'-7')

Lab Sample ID: 480-210334-6
Date Collected: 06/28/23 11:21
Matrix: Solid
Date Received: 06/28/23 13:17
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			674917	AXK	EET BUF	06/29/23 10:25
Total/NA	Analysis	8260C		1	675021	LCH	EET BUF	06/30/23 16:14

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Accreditation/Certification Summary

Client: Matrix Environmental Technologies Inc
Job ID: 480-210334-1
Project/Site: Project # 18-046 - Aquino Lancaster

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Matrix Environmental Technologies Inc
Project/Site: Project # 18-046 - Aquino Lancaster

Job ID: 480-210334-1

Method	Method Description	Protocol	Laboratory
8260C	TCLP Volatiles	SW846	EET BUF
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
6010C	Metals (ICP)	SW846	EET BUF
7470A	TCLP Mercury	SW846	EET BUF
1010B	Ignitability, Pensky-Martens Closed-Cup Method	SW846	EET BUF
9045D	pH	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1311	TCLP Extraction	SW846	EET BUF
3010A	Preparation, Total Metals	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
5035A_H	Closed System Purge and Trap	SW846	EET BUF
5035A_L	Closed System Purge and Trap	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Matrix Environmental Technologies Inc
Project/Site: Project # 18-046 - Aquino Lancaster

Job ID: 480-210334-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-210334-1	DS 1 (0'-3')	Solid	06/28/23 11:36	06/28/23 13:17
480-210334-2	DS 2 (0'-3')	Solid	06/28/23 10:05	06/28/23 13:17
480-210334-3	DS 3 (0'-3')	Solid	06/28/23 11:02	06/28/23 13:17
480-210334-4	LANDFILL PROFILE 1 (0'-7')	Solid	06/28/23 11:50	06/28/23 13:17
480-210334-5	LANDFILL PROFILE 2 (0'-7')	Solid	06/28/23 10:28	06/28/23 13:17
480-210334-6	LANDFILL PROFILE 3 (0'-7')	Solid	06/28/23 11:21	06/28/23 13:17

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Nickolas Ander	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-186512-39378.1
Client Contact: Nickolas Ander	Phone: (716) 807-1711	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Matrix Environmental Technologies Inc	PWSID:			Job #:
Address: 3730 California Road PO BOX 427	Due Date Requested:			
City: Orchard Park	TAT Requested (days): regular			
State, Zip: NY, 14127	Compliance Project: Δ Yes Δ No			
Phone: 716-807-1711(Tel)	PO #: 18-046			
Email: nander@matrixbiotech.com	WO #:			
Project Name: Project # 18-046 - Aquino Lancaster	Project #: 48026653			
Site:	SSOW#:			

Analysis Requested

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)	8260C - TCL VOCs	6010C, 7470A	8260C - TCLP Volatiles	1010B, 9045D	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
DS 1 (0'-3')	6/28/23	11:36	G	Solid			X					
DS 2 (0'-3')		10:05	G	Solid			X					
DS 3 (0'-3')		11:02	G	Solid			X					
Landfill Profile 1 (0'-7')		11:50	C	Solid			X	X	X	X		
Landfill Profile 2 (0'-7')		10:28	C	Solid			X	X	X	X		
Landfill Profile 3 (0'-7')		11:21	C	Solid			X	X	X	X		

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

480-210334 Chain of Custody

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	6/28/23 12:30				
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time 6-28-23 1317	Company TAS

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 10.10 #1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Matrix Environmental Technologies Inc

Job Number: 480-210334-1

Login Number: 210334
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins Buffalo

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