

**DATA USABILITY SUMMARY REPORT
BROOKFIELD AVE LANDFILL, STATEN ISLAND, NEW YORK**

Client: TRC Engineering, Inc., New York, New York
SDG: JD96043
Laboratory: Hampton-Clarke, Fairfield, New Jersey
Site: Brookfield Ave Landfill, Staten Island, New York
Date: November 12, 2024

VOC			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
14	BK3-SW-L-04	JD96043-14	Water

SVOC, Pest, PCBs, Metals/Hg			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
14	BK3-SW-L-04	JD96043-14	Water
14D	BK3-SW-L-04F	JD96043-14F	Water
16	BK3-SD-05(0-6")	JD96043-16	Sediment
17	BK3-SD-05(6-12")	JD96043-17	Sediment

D - Dissolved Metals/Hg only

Hardness, TOC			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
14*	BK3-SW-L-04	JD96043-14	Water
16†	BK3-SD-05(0-6")	JD96043-16	Sediment
17†	BK3-SD-05(6-12")	JD96043-17	Sediment

* - Hardness only † - TOC only

A Data Usability Summary Review was performed on the analytical data for two water samples and two sediment samples collected on September 12, 2024 by TRC at the Brookfield Ave Landfill in Staten Island, New York. The samples were analyzed under Environmental Protection Agency (USEPA) "Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions", and the "Standard Methods for the Examination of Water and Wastewater".

Specific method references are as follows:

Analysis

VOC
SVOC
Pesticides
PCBs
Metals/Mercury (T/D)

Method References

USEPA SW846 Method 8260D
USEPA SW846 Method 8270E
USEPA SW846 Method 8081B
USEPA SW846 Method 8082A
USEPA SW846 Methods 6010D/7470A/7471B

Analysis

Hardness

Total Organic Carbon

Method References

Standard Method SM 2340 B_11

Lloyd Khan Method

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) and USEPA Data Validation Guidelines as follows:

- SOP Number QA-HWSS-A-004, March 2022, Standard Operating Procedure for the Validation of Volatile Data;
- SOP Number QA-HWSS-A-005, April 2022, Standard Operating Procedure for the Validation of Semivolatile Data;
- SOP Number QA-HWSS-A-007, April 2022, Standard Operating Procedure for the Validation of Pesticides Data;
- SOP Number QA-HWSS-A-006, April 2022, Standard Operating Procedure for the Validation of PCB Data;
- SOP Number QA-HWSS-A-010, March 2022, Standard Operating Procedure for ICP-AES Data Validation;
- SOP Number QA-HWSS-A-011, March 2022, Standard Operating Procedure for Validation of Mercury Data;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Holding times and sample preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

Inorganics

- Holding times and sample preservation
- Initial and continuing calibration verifications
- Method blank and field QC blank contamination
- ICP Interference Check Sample
- Laboratory Control Sample (LCS) recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Duplicate Sample Analysis

- ICP Serial Dilution
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data is acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) and/or RRF values <0.05 (0.01 for poor performers) in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
09/16/24 (0747)	Acetone	37.9%	UJ	14
	2-Butanone	23.9%		
	Chloroform	21.1%		

Method Blank

- The method blanks were free of contamination.

Field Blank

- The following table lists field QC samples with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. For detected compound concentrations <RL, the results are negated and qualified (U). For detected sample concentrations >RL of acetone, 2-butanone and methylene chloride (common laboratory contaminants) less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U). For all other compounds >RL, an action level of five times (5x) the highest associated blank concentration is used.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
BK3-SW-TB-02	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- All criteria were met.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Semivolatile Organic Compounds (SVOCs)

Holding Times

- All samples were extracted within 7 days for water samples and 14 days for sediment samples and analyzed within 40 days for all samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable %D values except for the following.

CCAL Date	Compound	%D	Qualifier	Affected Samples
09/17/24 (0402)	Indeno(1,2,3-cd)pyrene	26.6%	UJ	16, 17

Method Blank

- The method blanks were free of contamination.

Field Blank

- The field QC samples are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
BK3-SD-FB-01	Phenol	2.0	None	All Associated ND

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples/Duplicates (LCS/LCSD)

- The following table presents LCS/LCSD percent recoveries (%R) and/or RPD values outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R or RPD, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

LCS ID	Compound	LCS %R/LCSD %R/RPD	Qualifier	Affected Samples
OP57790-BS1/BSD	2,4-Dinitrophenol	OK/5%/180	UJ	14
	2 Compounds	OK/OK/High	None	All Associated ND

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- All criteria were met.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Pesticides/PCBs (Pest/PCBs)

Holding Times

- All samples were extracted within 7 days for water samples and 14 days for sediment samples and analyzed within 40 days for all samples.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients.

Continuing Calibration

- The continuing calibrations exhibited acceptable %D values.

Method Blank

- The method blanks were free of contamination.

Field Blank

- The field QC samples are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
BK3-SD-FB-01	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples (LCS)

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

LCS ID	Compound	LCS %R	Qualifier	Affected Samples
OP57803-BS1	Endrin ketone	110%	None	All Associated ND

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Column Difference

- EDS Samples 16 and 17 exhibited a high %RPD for 4,4-DDE of 86.0% and 53.4%, respectively, and the reviewer qualified these results estimated (J).

Metals, Mercury, Hardness

Holding Times

- All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Initial Calibration Verification

- All initial calibration criteria were met.

Continuing Calibration Verification

- All continuing calibration criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- The Field QC samples are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
BK3-SD-FB-01	None - ND	-	-	-

ICP Interference Check Sample

- The ICP ICS exhibited acceptable percent recoveries (%R).

Laboratory Control Samples

- The LCS sample exhibited acceptable percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

ICP Serial Dilution

- ICP serial dilution samples were not analyzed.

Compound Quantitation

- Several samples were analyzed at various dilutions due to high concentrations of target compounds. The reporting limit was adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Total Organic Carbon (TOC)

Holding Times

- All samples were prepared and analyzed within the recommended holding time for TOC.

Initial and Continuing Calibration

- All %R criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- The field QC samples are summarized below.

Blank ID	Compound	Conc. mg/L	Qualifier	Affected Samples
BK3-SD-FB-01	None - ND	-	-	-

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples (Reference) exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS sample exhibited acceptable percent recoveries (%R).

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver
Nancy Weaver
Senior Chemist

Dated: 11/14/24

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

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Report of Analysis

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Client Sample ID:	BK3-SW-L-04	Date Sampled:	09/12/24
Lab Sample ID:	JD96043-14	Date Received:	09/12/24
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Brookfield Avenue Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L368164.D	1	09/16/24 19:08	GL	n/a	n/a	VL11262
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND <i>uJ</i>	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND <i>uJ</i>	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^a	ND <i>uJ</i>	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

09/16/24

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Report of Analysis

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Client Sample ID:	BK3-SW-L-04	Date Sampled:	09/12/24
Lab Sample ID:	JD96043-14	Date Received:	09/12/24
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Brookfield Avenue Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		80-120%
17060-07-0	1,2-Dichloroethane-D4	113%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	BK3-SW-L-04	Date Sampled:	09/12/24
Lab Sample ID:	JD96043-14	Date Received:	09/12/24
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	Brookfield Avenue Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F221993.D	1	09/19/24 18:42	KH	09/18/24 15:00	OP57790	EF9866
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND <i>UJ</i>	5.0	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	4.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Analyzed 09/12/24

SGS

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Report of Analysis

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Client Sample ID: BK3-SW-L-04
 Lab Sample ID: JD96043-14
 Matrix: AQ - Surface Water
 Method: SW846 8270E SW846 3510C
 Project: Brookfield Avenue Landfill

Date Sampled: 09/12/24
 Date Received: 09/12/24
 Percent Solids: n/a

4.14

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ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	21%		10-71%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Client Sample ID:	BK3-SW-L-04	Date Sampled:	09/12/24
Lab Sample ID:	JD96043-14	Date Received:	09/12/24
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	Brookfield Avenue Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	16%		10-58%
118-79-6	2,4,6-Tribromophenol	50%		22-144%
4165-60-0	Nitrobenzene-d5	49%		28-118%
321-60-8	2-Fluorobiphenyl	44%		34-116%
1718-51-0	Terphenyl-d14	26%		10-127%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID: BK3-SD-05(0-6")
 Lab Sample ID: JD96043-16
 Matrix: SO - Sediment
 Method: SW846 8270E SW846 3546
 Project: Brookfield Avenue Landfill

Date Sampled: 09/12/24
 Date Received: 09/12/24
 Percent Solids: 39.8

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P121570.D	1	09/17/24 21:21	KH	09/17/24 10:30	OP57796	E2P5471
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.25	0.062	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.63	0.077	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.63	0.11	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.63	0.22	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.63	0.47	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.63	0.13	mg/kg	
95-48-7	2-Methylphenol	ND	0.25	0.080	mg/kg	
	3&4-Methylphenol	ND	0.25	0.10	mg/kg	
88-75-5	2-Nitrophenol	ND	0.63	0.083	mg/kg	
100-02-7	4-Nitrophenol	ND	1.3	0.33	mg/kg	
87-86-5	Pentachlorophenol	ND	0.50	0.12	mg/kg	
108-95-2	Phenol	ND	0.25	0.065	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.63	0.083	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.63	0.094	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.63	0.075	mg/kg	
83-32-9	Acenaphthene	ND	0.13	0.043	mg/kg	
208-96-8	Acenaphthylene	ND	0.13	0.064	mg/kg	
98-86-2	Acetophenone	ND	0.63	0.027	mg/kg	
120-12-7	Anthracene	ND	0.13	0.077	mg/kg	
1912-24-9	Atrazine	ND	0.25	0.054	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.13	0.035	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.13	0.057	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.13	0.055	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.13	0.063	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.13	0.058	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.25	0.048	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.25	0.031	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.25	0.017	mg/kg	
100-52-7	Benzaldehyde	ND	0.63	0.031	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.25	0.030	mg/kg	
106-47-8	4-Chloroaniline	ND	0.63	0.045	mg/kg	
86-74-8	Carbazole	ND	0.25	0.018	mg/kg	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: BK3-SD-05(0-6")
 Lab Sample ID: JD96043-16
 Matrix: SO - Sediment
 Method: SW846 8270E SW846 3546
 Project: Brookfield Avenue Landfill

Date Sampled: 09/12/24
 Date Received: 09/12/24
 Percent Solids: 39.8

4.18
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ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.25	0.049	mg/kg	
218-01-9	Chrysene	ND	0.13	0.039	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.25	0.027	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.25	0.054	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.25	0.045	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.25	0.041	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.13	0.039	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.13	0.063	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.25	0.10	mg/kg	
123-91-1	1,4-Dioxane	ND	0.13	0.083	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.13	0.055	mg/kg	
132-64-9	Dibenzofuran	ND	0.25	0.051	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.25	0.020	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.25	0.031	mg/kg	
84-66-2	Diethyl phthalate	ND	0.25	0.027	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.25	0.022	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.25	0.029	mg/kg	
206-44-0	Fluoranthene	ND	0.13	0.056	mg/kg	
86-73-7	Fluorene	ND	0.13	0.057	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.25	0.032	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.13	0.050	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1.3	0.050	mg/kg	
67-72-1	Hexachloroethane	ND	0.63	0.062	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene ^a	ND ^{uJ}	0.13	0.059	mg/kg	
78-59-1	Isophorone	ND	0.25	0.027	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.13	0.028	mg/kg	
88-74-4	2-Nitroaniline	ND	0.63	0.030	mg/kg	
99-09-2	3-Nitroaniline	ND	0.63	0.031	mg/kg	
100-01-6	4-Nitroaniline	ND	0.63	0.032	mg/kg	
91-20-3	Naphthalene	ND	0.13	0.035	mg/kg	
98-95-3	Nitrobenzene	ND	0.25	0.048	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.25	0.036	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.63	0.046	mg/kg	
85-01-8	Phenanthrene	ND	0.13	0.042	mg/kg	
129-00-0	Pyrene	0.0544	0.13	0.040	mg/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.63	0.032	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		10-99%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Client Sample ID: BK3-SD-05(0-6")
Lab Sample ID: JD96043-16
Matrix: SO - Sediment
Method: SW846 8270E SW846 3546
Project: Brookfield Avenue Landfill

Date Sampled: 09/12/24
Date Received: 09/12/24
Percent Solids: 39.8

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ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	49%		10-96%
118-79-6	2,4,6-Tribromophenol	57%		10-123%
4165-60-0	Nitrobenzene-d5	54%		10-109%
321-60-8	2-Fluorobiphenyl	54%		11-109%
1718-51-0	Terphenyl-d14	63%		10-120%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Client Sample ID: BK3-SD-05(6-12")
 Lab Sample ID: JD96043-17
 Matrix: SO - Sediment
 Method: SW846 8270E SW846 3546
 Project: Brookfield Avenue Landfill

Date Sampled: 09/12/24
 Date Received: 09/12/24
 Percent Solids: 41.3

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P121571.D	1	09/17/24 21:44	KH	09/17/24 10:30	OP57796	E2P5471
Run #2							

Run #	Initial Weight	Final Volume
Run #1	18.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.26	0.065	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.66	0.081	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.66	0.11	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.66	0.23	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.66	0.49	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.66	0.14	mg/kg	
95-48-7	2-Methylphenol	ND	0.26	0.084	mg/kg	
	3&4-Methylphenol	ND	0.26	0.11	mg/kg	
88-75-5	2-Nitrophenol	ND	0.66	0.087	mg/kg	
100-02-7	4-Nitrophenol	ND	1.3	0.35	mg/kg	
87-86-5	Pentachlorophenol	ND	0.53	0.12	mg/kg	
108-95-2	Phenol	ND	0.26	0.069	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.66	0.087	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.66	0.099	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.66	0.078	mg/kg	
83-32-9	Acenaphthene	ND	0.13	0.045	mg/kg	
208-96-8	Acenaphthylene	ND	0.13	0.067	mg/kg	
98-86-2	Acetophenone	ND	0.66	0.028	mg/kg	
120-12-7	Anthracene	ND	0.13	0.081	mg/kg	
1912-24-9	Atrazine	ND	0.26	0.056	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.13	0.037	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.13	0.060	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.13	0.058	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.13	0.066	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.13	0.061	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.26	0.051	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.26	0.032	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.26	0.018	mg/kg	
100-52-7	Benzaldehyde	ND	0.66	0.033	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.26	0.031	mg/kg	
106-47-8	4-Chloroaniline	ND	0.66	0.047	mg/kg	
86-74-8	Carbazole	ND	0.26	0.019	mg/kg	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Client Sample ID: BK3-SD-05(6-12")
 Lab Sample ID: JD96043-17
 Matrix: SO - Sediment
 Method: SW846 8270E SW846 3546
 Project: Brookfield Avenue Landfill

Date Sampled: 09/12/24
 Date Received: 09/12/24
 Percent Solids: 41.3

4.19

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ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.26	0.052	mg/kg	
218-01-9	Chrysene	ND	0.13	0.041	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.26	0.028	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.26	0.057	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.26	0.047	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.26	0.043	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.13	0.041	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.13	0.066	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.26	0.11	mg/kg	
123-91-1	1,4-Dioxane	ND	0.13	0.087	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.13	0.058	mg/kg	
132-64-9	Dibenzofuran	ND	0.26	0.054	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.26	0.021	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.26	0.033	mg/kg	
84-66-2	Diethyl phthalate	ND	0.26	0.028	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.26	0.023	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.26	0.031	mg/kg	
206-44-0	Fluoranthene	0.0611	0.13	0.059	mg/kg	J
86-73-7	Fluorene	ND	0.13	0.060	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.26	0.033	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.13	0.053	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1.3	0.052	mg/kg	
67-72-1	Hexachloroethane	ND	0.66	0.065	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene ^a	ND ^{WJ}	0.13	0.062	mg/kg	
78-59-1	Isophorone	ND	0.26	0.028	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.13	0.030	mg/kg	
88-74-4	2-Nitroaniline	ND	0.66	0.031	mg/kg	
99-09-2	3-Nitroaniline	ND	0.66	0.033	mg/kg	
100-01-6	4-Nitroaniline	ND	0.66	0.034	mg/kg	
91-20-3	Naphthalene	ND	0.13	0.037	mg/kg	
98-95-3	Nitrobenzene	ND	0.26	0.051	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.26	0.038	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.66	0.048	mg/kg	
85-01-8	Phenanthrene	ND	0.13	0.044	mg/kg	
129-00-0	Pyrene	0.0774	0.13	0.042	mg/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.66	0.033	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		10-99%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Client Sample ID: BK3-SD-05(6-12")
Lab Sample ID: JD96043-17
Matrix: SO - Sediment
Method: SW846 8270E SW846 3546
Project: Brookfield Avenue Landfill

Date Sampled: 09/12/24
Date Received: 09/12/24
Percent Solids: 41.3

4.19

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ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	48%		10-96%
118-79-6	2,4,6-Tribromophenol	58%		10-123%
4165-60-0	Nitrobenzene-d5	52%		10-109%
321-60-8	2-Fluorobiphenyl	54%		11-109%
1718-51-0	Terphenyl-d14	65%		10-120%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	BK3-SW-L-04	Date Sampled:	09/12/24
Lab Sample ID:	JD96043-14	Date Received:	09/12/24
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Brookfield Avenue Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G200540.D	1	09/19/24 07:26	CP	09/17/24 17:30	OP57812	G1G7190
Run #2							

Run #	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0080	0.0041	ug/l	
319-84-6	alpha-BHC	ND	0.0080	0.0042	ug/l	
319-85-7	beta-BHC	ND	0.0080	0.0064	ug/l	
319-86-8	delta-BHC	ND	0.0080	0.0053	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0080	0.0048	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0080	0.0039	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0080	0.0034	ug/l	
60-57-1	Dieldrin	ND	0.0080	0.0061	ug/l	
72-54-8	4,4'-DDD	ND	0.0080	0.0046	ug/l	
72-55-9	4,4'-DDE	0.0045	0.0080	0.0040	ug/l	J
50-29-3	4,4'-DDT	ND	0.0080	0.0055	ug/l	
72-20-8	Endrin	ND	0.0080	0.0048	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0080	0.0044	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0080	0.0054	ug/l	
53494-70-5	Endrin ketone	ND	0.0080	0.0050	ug/l	
959-98-8	Endosulfan-I	ND	0.0080	0.0042	ug/l	
33213-65-9	Endosulfan-II	ND	0.0080	0.0039	ug/l	
76-44-8	Heptachlor	ND	0.0080	0.0036	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0080	0.0048	ug/l	
72-43-5	Methoxychlor	ND	0.016	0.0054	ug/l	
8001-35-2	Toxaphene	ND	0.20	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		10-175%
877-09-8	Tetrachloro-m-xylene	108%		10-175%
2051-24-3	Decachlorobiphenyl	48%		10-128%
2051-24-3	Decachlorobiphenyl	49%		10-128%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID: BK3-SD-05(0-6")
 Lab Sample ID: JD96043-16
 Matrix: SO - Sediment
 Method: SW846 8081B SW846 3570
 Project: Brookfield Avenue Landfill

Date Sampled: 09/12/24
 Date Received: 09/12/24
 Percent Solids: 39.8

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G101310.D	5	09/20/24 14:11	KC	09/17/24 16:27	OP57803	G6G3793
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0050	0.00098	mg/kg	
319-84-6	alpha-BHC	ND	0.0050	0.00058	mg/kg	
319-85-7	beta-BHC	ND	0.0050	0.00073	mg/kg	
319-86-8	delta-BHC	ND	0.0050	0.00075	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.0050	0.00088	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.0050	0.00068	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.0050	0.00075	mg/kg	
60-57-1	Dieldrin	ND	0.0050	0.00080	mg/kg	
72-54-8	4,4'-DDD	0.0024	0.0050	0.00053	mg/kg	J
72-55-9	4,4'-DDE ^a	0.0069 J	0.0050	0.00060	mg/kg	
50-29-3	4,4'-DDT	ND	0.0050	0.00088	mg/kg	
72-20-8	Endrin	ND	0.0050	0.00073	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.0050	0.00060	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.0050	0.0015	mg/kg	
959-98-8	Endosulfan-I	ND	0.0050	0.00068	mg/kg	
33213-65-9	Endosulfan-II	ND	0.0050	0.00070	mg/kg	
76-44-8	Heptachlor	ND	0.0050	0.00065	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.0050	0.00090	mg/kg	
72-43-5	Methoxychlor	ND	0.0050	0.0020	mg/kg	
53494-70-5	Endrin ketone	ND	0.0050	0.00080	mg/kg	
8001-35-2	Toxaphene	ND	0.063	0.041	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	70%		46-145%
877-09-8	Tetrachloro-m-xylene	106%		46-145%
2051-24-3	Decachlorobiphenyl	42%		29-163%
2051-24-3	Decachlorobiphenyl	71%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

New 11/12/24

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JD96043

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Report of Analysis

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Client Sample ID: BK3-SD-05(6-12")
 Lab Sample ID: JD96043-17
 Matrix: SO - Sediment
 Method: SW846 8081B SW846 3570
 Project: Brookfield Avenue Landfill

Date Sampled: 09/12/24
 Date Received: 09/12/24
 Percent Solids: 41.3

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G101262.D	1	09/19/24 07:00	CP	09/17/24 16:27	OP57803	G6G3791
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00093	0.00018	mg/kg	
319-84-6	alpha-BHC	ND	0.00093	0.00011	mg/kg	
319-85-7	beta-BHC	ND	0.00093	0.00014	mg/kg	
319-86-8	delta-BHC	ND	0.00093	0.00014	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00093	0.00016	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.00093	0.00013	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.00093	0.00014	mg/kg	
60-57-1	Dieldrin	ND	0.00093	0.00015	mg/kg	
72-54-8	4,4'-DDD	0.00024	0.00093	0.000098	mg/kg	J
72-55-9	4,4'-DDE ^a	0.00048 J	0.00093	0.00011	mg/kg	J
50-29-3	4,4'-DDT	ND	0.00093	0.00016	mg/kg	
72-20-8	Endrin	ND	0.00093	0.00014	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00093	0.00011	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00093	0.00027	mg/kg	
959-98-8	Endosulfan-I	ND	0.00093	0.00013	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00093	0.00013	mg/kg	
76-44-8	Heptachlor	ND	0.00093	0.00012	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00093	0.00017	mg/kg	
72-43-5	Methoxychlor	ND	0.00093	0.00037	mg/kg	
53494-70-5	Endrin ketone	ND	0.00093	0.00015	mg/kg	
8001-35-2	Toxaphene	ND	0.012	0.0077	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		46-145%
877-09-8	Tetrachloro-m-xylene	81%		46-145%
2051-24-3	Decachlorobiphenyl	31%		29-163%
2051-24-3	Decachlorobiphenyl	45%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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JD06043

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Report of Analysis

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Client Sample ID:	BK3-SW-L-04	Date Sampled:	09/12/24
Lab Sample ID:	JD96043-14	Date Received:	09/12/24
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Brookfield Avenue Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2516058.D	1	09/18/24 15:04	MLC	09/17/24 17:30	OP57813	GXX8655
Run #2							

Run #	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.40	0.16	ug/l	
11104-28-2	Aroclor 1221	ND	0.40	0.34	ug/l	
11141-16-5	Aroclor 1232	ND	0.40	0.21	ug/l	
53469-21-9	Aroclor 1242	ND	0.40	0.37	ug/l	
12672-29-6	Aroclor 1248	ND	0.40	0.35	ug/l	
11097-69-1	Aroclor 1254	ND	0.40	0.33	ug/l	
11096-82-5	Aroclor 1260	ND	0.40	0.33	ug/l	
11100-14-4	Aroclor 1268	ND	0.40	0.14	ug/l	
37324-23-5	Aroclor 1262	ND	0.40	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		10-169%
877-09-8	Tetrachloro-m-xylene	66%		10-169%
2051-24-3	Decachlorobiphenyl	36%		10-130%
2051-24-3	Decachlorobiphenyl	38%		10-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID: BK3-SD-05(0-6")
 Lab Sample ID: JD96043-16
 Matrix: SO - Sediment
 Method: SW846 8082A SW846 3570
 Project: Brookfield Avenue Landfill

Date Sampled: 09/12/24
 Date Received: 09/12/24
 Percent Solids: 39.8

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RM27696.D	1	09/18/24 11:12	CP	09/17/24 16:27	OP57804	GRM642
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.050	0.021	mg/kg	
11104-28-2	Aroclor 1221	ND	0.050	0.017	mg/kg	
11141-16-5	Aroclor 1232	ND	0.050	0.042	mg/kg	
53469-21-9	Aroclor 1242	ND	0.050	0.030	mg/kg	
12672-29-6	Aroclor 1248	ND	0.050	0.011	mg/kg	
11097-69-1	Aroclor 1254	ND	0.050	0.0054	mg/kg	
11096-82-5	Aroclor 1260	ND	0.050	0.017	mg/kg	
11100-14-4	Aroclor 1268	ND	0.050	0.0051	mg/kg	
37324-23-5	Aroclor 1262	ND	0.050	0.0042	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		42-159%
877-09-8	Tetrachloro-m-xylene	77%		42-159%
2051-24-3	Decachlorobiphenyl	86%		18-154%
2051-24-3	Decachlorobiphenyl	94%		18-154%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

RM27696.D

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Report of Analysis

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Client Sample ID: BK3-SD-05(6-12")
 Lab Sample ID: JD96043-17
 Matrix: SO - Sediment
 Method: SW846 8082A SW846 3570
 Project: Brookfield Avenue Landfill

Date Sampled: 09/12/24
 Date Received: 09/12/24
 Percent Solids: 41.3

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RM27697.D	1	09/18/24 11:35	CP	09/17/24 16:27	OP57804	GRM642
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.047	0.020	mg/kg	
11104-28-2	Aroclor 1221	ND	0.047	0.016	mg/kg	
11141-16-5	Aroclor 1232	ND	0.047	0.039	mg/kg	
53469-21-9	Aroclor 1242	ND	0.047	0.028	mg/kg	
12672-29-6	Aroclor 1248	ND	0.047	0.010	mg/kg	
11097-69-1	Aroclor 1254	ND	0.047	0.0050	mg/kg	
11096-82-5	Aroclor 1260	ND	0.047	0.016	mg/kg	
11100-14-4	Aroclor 1268	ND	0.047	0.0047	mg/kg	
37324-23-5	Aroclor 1262	ND	0.047	0.0039	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		42-159%
877-09-8	Tetrachloro-m-xylene	74%		42-159%
2051-24-3	Decachlorobiphenyl	76%		18-154%
2051-24-3	Decachlorobiphenyl	82%		18-154%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

RM 11/21/24

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Report of Analysis

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Client Sample ID: BK3-SW-L-04
 Lab Sample ID: JD96043-14
 Matrix: AQ - Surface Water
 Project: Brookfield Avenue Landfill

Date Sampled: 09/12/24
 Date Received: 09/12/24
 Percent Solids: n/a

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Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	671	200	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Antimony	8.4	6.0	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Arsenic	11.5	6.0	ug/l	2	09/17/24	09/18/24 KP	SW846 6010D ³	SW846 3010A ⁴
Barium	< 200	200	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Beryllium	< 1.0	1.0	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Calcium	144000	5000	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Chromium	< 10	10	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Cobalt	< 50	50	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Copper	< 10	10	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Iron	1070	100	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Lead ^a	< 150	150	ug/l	50	09/17/24	09/18/24 KP	SW846 6010D ³	SW846 3010A ⁴
Magnesium	434000	10000	ug/l	2	09/17/24	09/18/24 KP	SW846 6010D ³	SW846 3010A ⁴
Manganese	217	15	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Mercury	< 0.20	0.20	ug/l	1	09/16/24	09/17/24 MK	SW846 7470A ¹	SW846 7470A ⁵
Nickel	< 10	10	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Potassium	138000	10000	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Selenium	< 10	10	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Silver	< 10	10	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Sodium	3330000	500000	ug/l	50	09/17/24	09/18/24 KP	SW846 6010D ³	SW846 3010A ⁴
Thallium	< 10	10	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Vanadium	< 50	50	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Zinc	< 20	20	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴

(1) Instrument QC Batch: MA56889

(2) Instrument QC Batch: MA56903

(3) Instrument QC Batch: MA56910

(4) Prep QC Batch: MP49247

(5) Prep QC Batch: MP49261

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

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JD960-13

Report of Analysis

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Client Sample ID:	BK3-SW-L-04	Date Sampled:	09/12/24
Lab Sample ID:	JD96043-14	Date Received:	09/12/24
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Project:	Brookfield Avenue Landfill		

4.14
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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO ₃ ^a	2150	54	mg/l	1	09/18/24 15:54	KP	SM2340 B-11

(a) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)

RL = Reporting Limit

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JD96043

Report of Analysis

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Client Sample ID: BK3-SW-L-04
 Lab Sample ID: JD96043-14F
 Matrix: AQ - Surface H2O Filtered
 Project: Brookfield Avenue Landfill

Date Sampled: 09/12/24
 Date Received: 09/12/24
 Percent Solids: n/a

4.15
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Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Antimony	8.7	6.0	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Arsenic	9.9	6.0	ug/l	2	09/17/24	09/18/24 KP	SW846 6010D ³	SW846 3010A ⁴
Barium	< 200	200	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Beryllium	< 1.0	1.0	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Calcium	136000	5000	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Chromium	< 10	10	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Cobalt	< 50	50	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Copper	< 10	10	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Iron	< 100	100	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Lead ^a	< 150	150	ug/l	50	09/17/24	09/18/24 KP	SW846 6010D ³	SW846 3010A ⁴
Magnesium	469000	10000	ug/l	2	09/17/24	09/18/24 KP	SW846 6010D ³	SW846 3010A ⁴
Manganese	193	15	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Mercury	< 0.20	0.20	ug/l	1	09/17/24	09/18/24 MK	SW846 7470A ¹	SW846 7470A ⁵
Nickel	< 10	10	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Potassium	130000	10000	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Selenium	< 10	10	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Silver	< 10	10	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Sodium	3650000	500000	ug/l	50	09/17/24	09/18/24 KP	SW846 6010D ³	SW846 3010A ⁴
Thallium	< 10	10	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Vanadium	< 50	50	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴
Zinc	< 20	20	ug/l	1	09/17/24	09/18/24 KP	SW846 6010D ²	SW846 3010A ⁴

(1) Instrument QC Batch: MA56900

(2) Instrument QC Batch: MA56903

(3) Instrument QC Batch: MA56910

(4) Prep QC Batch: MP49247

(5) Prep QC Batch: MP49301

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

09/11/24

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JD96043

Report of Analysis

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Client Sample ID: BK3-SD-05(0-6")

Lab Sample ID: JD96043-16

Matrix: SO - Sediment

Date Sampled: 09/12/24

Date Received: 09/12/24

Percent Solids: 39.8

Project: Brookfield Avenue Landfill

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	12600	130	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Antimony	< 5.0	5.0	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Arsenic	173	5.0	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Barium	100	50	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Beryllium	1.0	0.50	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Cadmium	2.2	1.3	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Calcium	2030	1300	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Chromium	86.5	2.5	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Cobalt	15.4	13	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Copper	272	6.3	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Iron	41100	130	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Lead	273	5.0	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Magnesium	6640	1300	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Manganese	327	3.8	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Mercury	5.1	0.40	mg/kg	5	09/16/24	09/17/24	MK	SW846 7471B ¹
Nickel	86.0	10	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Potassium	2620	2500	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Selenium	7.9	5.0	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Silver	1.8	1.3	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Sodium	9110	2500	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Thallium	< 2.5	2.5	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Vanadium	40.9	13	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²
Zinc	383	13	mg/kg	1	09/17/24	09/17/24	MM	SW846 6010D ²

(1) Instrument QC Batch: MA56890

(2) Instrument QC Batch: MA56904

(3) Prep QC Batch: MP49257

(4) Prep QC Batch: MP49267

RL = Reporting Limit

New 11/12/24

Report of Analysis

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Client Sample ID: BK3-SD-05(0-6")

Lab Sample ID: JD96043-16

Matrix: SO - Sediment

Date Sampled: 09/12/24

Date Received: 09/12/24

Percent Solids: 39.8

Project: Brookfield Avenue Landfill

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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	39.8		%	1	09/16/24 17:39	AM	SM2540 G 18TH ED MOD
Total Organic Carbon	58500	250	mg/kg	1	09/17/24 17:38	MB	LLOYD KAHN 1988 MOD

RL = Reporting Limit

MW 11/12/24

SGS

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JD96043

Report of Analysis

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Client Sample ID: BK3-SD-05(6-12")

Lab Sample ID: JD96043-17

Matrix: SO - Sediment

Date Sampled: 09/12/24

Date Received: 09/12/24

Percent Solids: 41.3

Project: Brookfield Avenue Landfill

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	16300	120	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Antimony	< 4.8	4.8	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Arsenic	111	4.8	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Barium	153	48	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Beryllium	1.4	0.48	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Cadmium	2.8	1.2	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Calcium	2260	1200	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Chromium	78.6	2.4	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Cobalt	18.1	12	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Copper	377	6.1	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Iron	42000	120	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Lead	251	4.8	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Magnesium	7980	1200	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Manganese	572	3.6	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Mercury	1.8	0.14	mg/kg	2	09/16/24	09/17/24	MK SW846 7471B ¹	SW846 7471B ⁴
Nickel	102	9.7	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Potassium	3160	2400	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Selenium	8.8	4.8	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Silver	1.6	1.2	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Sodium	5620	2400	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Thallium	< 2.4	2.4	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Vanadium	40.9	12	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³
Zinc	532	12	mg/kg	1	09/17/24	09/17/24	MM SW846 6010D ²	SW846 3050B ³

(1) Instrument QC Batch: MA56890

(2) Instrument QC Batch: MA56904

(3) Prep QC Batch: MP49257

(4) Prep QC Batch: MP49267

RL = Reporting Limit

m 11/12/24

Report of Analysis

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Client Sample ID: BK3-SD-05(6-12")

Lab Sample ID: JD96043-17

Matrix: SO - Sediment

Project: Brookfield Avenue Landfill

Date Sampled: 09/12/24

Date Received: 09/12/24

Percent Solids: 41.3

4.19

4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	41.3		%	1	09/16/24 17:39	AM	SM2540 G 18TH ED MOD
Total Organic Carbon	42200	240	mg/kg	1	09/17/24 18:58	MB	LLOYD KAHN 1988 MOD

RL = Reporting Limit

new 11/12/24

SGS

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