

Strata Geosciences

December 19, 2025

Luke LeMond, LHG
Washington Department of Ecology (Ecology) - Central

Re: Quarterly Progress Report – December 2025

This quarterly progress report summarizes completed and upcoming work at Yakima County Public Services' closed Snipes Mountain Landfill (Snipes Landfill) located in the vicinity of 1150 Luther Road, Sunnyside, WA 98944 (Facility site ID: 501; Cleanup Site ID: 3402) as required by the Agreed Order (DE 22514).

During the last quarter, between September 20 and December 19, 2025, the following activities occurred, and work has been performed:

1. The fourth quarterly round of Remedial Investigation (RI) groundwater sampling, offsite sampling, and routine landfill gas monitoring was conducted on November 19 and 20, 2025. Details for the Q4 sampling are provided below:
 - Onsite wells north of the anticline (SMW-4, SMW-5s and SMW-5d) were sampled for Appendix I, II, III, PFAS, and 1,4-Dioxane, and field parameters (i.e. pH, conductivity, DO, ORP, temp), in accordance with the approved RI Work Plan.
 - The water level in SMW-1 was too low to sample on November 18, 2025.
 - SMW-5s and SMW-5d were not sampled for 1,4-dioxane or dinoseb based on the Ecology-approved RI sampling modification recommendation.
 - PFAS was detected in SMW-5s and SMW-5d in 2025 Q4, consistent with analytical results from 2025 Q1-Q3. The 2025 Q3 and 2025 Q4 analytical results for PFAS, Dinoseb (Eurofins) and the 2025 Q3 all other sampled analytes (ARI) are attached to this update letter. A table summarizing the PFAS detections in 2025 Q3 and Q4 and applicable criteria is also attached to this update letter as Table 1.
 - Onsite well SMW-2 was sampled for Minimum Function Standard (MFS) parameters: volatile organic compounds (VOCs), dissolved metals,

nitrite/nitrate, total organic carbon (TOC), chemical oxygen demand (COD), ammonia (NH₃), chloride, sulfate, and field parameters (i.e. pH, conductivity, ORP, temp).

- Offsite wells were sampled for VOCs, dissolved metals, chloride, sulfate, and field parameters (i.e. pH, conductivity, DO, ORP, temp). The following offsite locations were sampled:
 - Washington Department of Natural Resources (DNR) house spigot (fed from Luther well)
 - OL Luther well
 - Downloaded Solinst Levellogger unvented water-level transducer data from site monitoring wells SMW-4, SMW-5s, and SMW-5d and barometric data.
 - Routine landfill gas sampling.
2. Results letters for 2025 Q3 offsite well sampling results were communicated to associated property owners and tenants on November 14, 2025 and are attached to this update letter.
 3. Strata staff have begun updating the HELP leachate production model and the natural attenuation screening with more current data.
 4. Weekly manual measurements of depth to water at SMW-1 were collected by Yakima County Public Services staff.

During the next quarter, from December 20, 2025 to March 20, 2026, the following work is anticipated:

1. Q1 2026 expanded analyte groundwater monitoring, including geochemical parameter collection, Appendices I, II, and III, PFAS, and 1,4-dioxane at SMW-1, SMW-4, SMW-5s, and SMW-5d.
2. Offsite sampling of VOCs and geochemical parameters at the DNR House spigot and OL Luther well.
3. Routine landfill gas sampling.
4. Water-level transducer data collection and manual water level measurements at SMW-1.
5. Finalize the Drilling Technical Specifications for the new monitoring wells and open the project to bids.
 - It is estimated that it will take 2-3 weeks to receive approval for the project to go out to bid, the project will then be open to bids for approximately 1 month, and then another 2-3 weeks to receive approval for the selected candidate. Following candidate return of contracts, another 2-3 weeks are anticipated for contract approval.
6. Groundwater flow direction and gradient calculations through 2026 Q1.

7. Preliminary assessment of geochemical conditions using the Natural Attenuation screening tool.
8. Continued development of leachate production model.

Respectfully submitted,

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SnipesUpdateLettertoECY_12-19-25.docx

cc Scott Davis, Yakima County Solid Waste
Steven Newchurch, Yakima Health District
James Rivard, Department of Ecology

Attachments:

- Table 1. PFAS Detections and Criteria, Closed Snipes Mountain Landfill
- 2025 Q3 ARI Laboratory Data Package 25I0372
- 2025 Q3 Eurofins Laboratory Data Package J125415-1
- 2025 Q4 Eurofins Laboratory Data Package J127603-1
- Offsite Well sample letters, August 15, 2025:
- O.L. Luther Co., Inc. 710 Luther Road Granger, WA 98944, Re: Results of September 16, 2025 Sampling of O.L. Luther Well
- Barb Evans Sage Orchards Outlook, WA, Re: Results of September 16, 2025, O.L. Luther well and Department of Natural Resources (DNR) Residence spigot drinking water sampling

Table 1. PFAS Detections and Criteria, Closed Snipes Mountain Landfill

PFAS Constituent	MTCA Groundwater Criteria (ng/L)					WA State DOH SAL	Federal MCL (ng/L)	Federal MCLG (ng/L)	2025 Q3 Sampling Detections (ng/L)				2025 Q4 Sampling Detections (ng/L)			
	Method B Noncancer	Method B Cancer	Method B Potable GW	Method C Noncancer	Method C Cancer				SMW-1	SMW-4	SMW-5s	SMW-5d	SMW-1	SMW-4	SMW-5s	SMW-5d
3:3 FTCA	-	-	-	-	-	-	-	-	NS	ND	7.6	ND	NS	ND	5.9	ND
6:2 Fluorotelomer Sulfonic Acid (FTS)	3200	-	3200	7000	-	-	-	-	NS	ND	ND	ND	NS	ND	ND	ND
HFPO-DA (GenX)	24	-	10	53	-	-	10	10	NS	ND	ND	ND	NS	ND	ND	ND
NMeFOSAA	-	-	-	-	-	-	-	-	NS	ND	1.1J	ND	NS	ND	0.69J	ND
Perfluorobutanesulfonic Acid (PFBS)	4800	-	4800	11000	-	345	HI	HI	NS	ND	ND	0.53	NS	ND	ND	0.50J
Perfluorobutanoic Acid (PFBA)	8000	-	8000	18000	-	-	-	-	NS	ND	360	7.3	NS	ND	240	9.1
Perfluorodecanoic Acid (PFDA)	0.032	-	0.032	0.07	-	-	-	-	NS	ND	0.40J,I	ND	NS	ND	ND	0.44J
Perfluoroheptanoic Acid (PFHpA)	-	-	-	-	-	-	-	-	NS	ND	0.49J,I	ND	NS	ND	ND	ND
Perfluorohexanesulfonic Acid (PFHxS)	0.0064	-	0.0064	0.014	-	65	10	10	NS	ND	ND	ND	NS	ND	ND	ND
Perfluorohexanoic Acid (PFHxA)	8000	-	8000	18000	-	-	-	-	NS	ND	0.73J	ND	NS	ND	0.75J	0.47J
Perfluorononanoic Acid (PFNA)	40	-	10	88	-	9	10	10	NS	ND	ND	ND	NS	ND	ND	ND
Perfluorooctanesulfonic Acid (PFOS)	1.6	2.2	4	3.5	22	15	4	0	NS	ND	1.4J	ND	NS	ND	1.3J	0.47J,I
Perfluorooctanoic Acid (PFOA)	0.48	0.003	4	1.1	0.03	10	4	0	NS	ND	2.5	0.91J	NS	ND	2.2	1.5J
Perfluorooctanesulfonamide (PFOSA)	-	-	-	-	-	-	-	-	NS	ND	ND	ND	NS	ND	0.87J	ND
Perfluoropentanoic Acid (PFPeA)	-	-	-	-	-	-	-	-	NS	ND	57	5.3	NS	ND	65	7.4

Bolded results exceed at least one of the presented criteria.

ng/L = nanograms per liter; part-per-trillion (ppt)

D = The sample was diluted by a factor of 5 for analysis

GW = groundwater

HI = The EPA didn't establish an individual MCL for PFBS. They did establish an MCLG and MCL based on a hazard index (HI) of 1 for mixtures of two or more of the following PFAS: HFPO-DA, PFBS, PFHxS, and PFNA. That is, the sum of the individual hazard quotients for these PFAS in a water sample cannot exceed an HI of 1.

J = Result is less than the reporting limit (RL) but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value

I = Value is EMPC (estimated maximum possible concentration).

MCL = maximum contaminant level

MCLG = maximum contaminant level goal

MTCA = Model Toxics Control Act

ND = Not Detected at the reporting limit (or method detection limit)

NS = Not Sampled

PFAS = Per- and Polyfluoroalkyl Substances

Q1 / Q2 = first quarter (February) / second quarter (June)

SAL = State Action Level

WA State DOH = Washington State Department of Health

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Snipes Landfill, Yakima County

JOB NUMBER

320-125415-1

Eurofins Sacramento

Job Notes

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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
Isotope Dilution Summary	13
QC Sample Results	15
QC Association Summary	20
Lab Chronicle	21
Certification Summary	22
Method Summary	23
Sample Summary	24
Chain of Custody	25



Definitions/Glossary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Mott MacDonald Consultants, Inc.
Project: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Job ID: 320-125415-1

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Job Narrative 320-125415-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/19/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C.

PFAS

Method 1633_Final: The following samples in preparation batch 320-877215 were observed to have floating particulates present in the sample bottle: SMW-5d (320-125415-1) and SMW-5s (320-125415-2).

Method 1633_Final: The "I" qualifier means the transition mass ratio for the indicated analyte was outside the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty.

Method 1633_Final: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: SMW-4 (320-125415-3). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

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

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Detection Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Client Sample ID: SMW-5d

Lab Sample ID: 320-125415-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	7.3		2.9	0.72	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	5.3		1.4	0.36	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.91	J	1.4	0.36	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.53	J	1.4	0.39	ng/L	1		1633	Total/NA

Client Sample ID: SMW-5s

Lab Sample ID: 320-125415-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	360		3.0	0.76	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	57		1.5	0.38	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	0.73	J	1.5	0.38	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.49	J I	1.5	0.38	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	2.5		1.5	0.38	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	0.40	J I	1.5	0.38	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.4	J	1.5	0.38	ng/L	1		1633	Total/NA
NMeFOSAA	1.1	J	1.5	0.38	ng/L	1		1633	Total/NA
3:3 FTCA	7.6		3.0	0.76	ng/L	1		1633	Total/NA

Client Sample ID: SMW-4

Lab Sample ID: 320-125415-3

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Client Sample ID: SMW-5d

Lab Sample ID: 320-125415-1

Date Collected: 09/16/25 11:00

Matrix: Water

Date Received: 09/19/25 09:00

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	7.3		2.9	0.72	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluoropentanoic acid (PFPeA)	5.3		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluorohexanoic acid (PFHxA)	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluoroheptanoic acid (PFHpA)	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluorooctanoic acid (PFOA)	0.91	J	1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluorononanoic acid (PFNA)	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluorodecanoic acid (PFDA)	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluoroundecanoic acid (PFUnA)	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluorododecanoic acid (PFDoA)	ND		1.4	0.40	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.4	0.42	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.4	0.58	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluorobutanesulfonic acid (PFBS)	0.53	J	1.4	0.39	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluorononanesulfonic acid (PFNS)	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.4	0.38	ng/L		09/24/25 05:04	09/25/25 15:14	1
4:2 FTS	ND		2.9	0.72	ng/L		09/24/25 05:04	09/25/25 15:14	1
6:2 FTS	ND		2.9	0.72	ng/L		09/24/25 05:04	09/25/25 15:14	1
8:2 FTS	ND		2.9	0.72	ng/L		09/24/25 05:04	09/25/25 15:14	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
NMeFOSA	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
NEtFOSA	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
NMeFOSAA	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
NEtFOSAA	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
NMeFOSE	ND		7.2	1.8	ng/L		09/24/25 05:04	09/25/25 15:14	1
NEtFOSE	ND		7.2	1.8	ng/L		09/24/25 05:04	09/25/25 15:14	1
HFPO-DA (GenX)	ND		1.1	0.28	ng/L		09/24/25 05:04	09/25/25 15:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
PFMPA	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
PFMBA	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
NFDHA	ND		1.4	0.52	ng/L		09/24/25 05:04	09/25/25 15:14	1
9CI-PF3ONS	ND		1.4	0.42	ng/L		09/24/25 05:04	09/25/25 15:14	1
11CI-PF3OUdS	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
PFEESA	ND		1.4	0.36	ng/L		09/24/25 05:04	09/25/25 15:14	1
3:3 FTCA	ND		2.9	0.72	ng/L		09/24/25 05:04	09/25/25 15:14	1
5:3 FTCA	ND		7.2	1.8	ng/L		09/24/25 05:04	09/25/25 15:14	1
7:3 FTCA	ND		7.2	1.8	ng/L		09/24/25 05:04	09/25/25 15:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	89.0		5 - 130				09/24/25 05:04	09/25/25 15:14	1
13C5 PFPeA	104		40 - 130				09/24/25 05:04	09/25/25 15:14	1
13C5 PFHxA	104		40 - 130				09/24/25 05:04	09/25/25 15:14	1
13C4 PFHpA	96.5		40 - 130				09/24/25 05:04	09/25/25 15:14	1

Eurofins Sacramento

Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Client Sample ID: SMW-5d

Lab Sample ID: 320-125415-1

Date Collected: 09/16/25 11:00

Matrix: Water

Date Received: 09/19/25 09:00

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	96.3		40 - 130	09/24/25 05:04	09/25/25 15:14	1
13C9 PFNA	97.5		40 - 130	09/24/25 05:04	09/25/25 15:14	1
13C6 PFDA	81.8		40 - 130	09/24/25 05:04	09/25/25 15:14	1
13C7 PFUnA	83.8		30 - 130	09/24/25 05:04	09/25/25 15:14	1
13C2 PFDoA	76.5		10 - 130	09/24/25 05:04	09/25/25 15:14	1
13C2 PFTeDA	78.3		10 - 130	09/24/25 05:04	09/25/25 15:14	1
13C3 PFBS	103		40 - 135	09/24/25 05:04	09/25/25 15:14	1
13C3 PFHxS	104		40 - 130	09/24/25 05:04	09/25/25 15:14	1
13C8 PFOS	94.7		40 - 130	09/24/25 05:04	09/25/25 15:14	1
13C8 FOSA	81.1		40 - 130	09/24/25 05:04	09/25/25 15:14	1
d3-NMeFOSAA	86.6		40 - 170	09/24/25 05:04	09/25/25 15:14	1
d5-NEtFOSAA	84.6		25 - 135	09/24/25 05:04	09/25/25 15:14	1
13C2 4:2 FTS	166		40 - 200	09/24/25 05:04	09/25/25 15:14	1
13C2 6:2 FTS	134		40 - 200	09/24/25 05:04	09/25/25 15:14	1
13C2 8:2 FTS	138		40 - 300	09/24/25 05:04	09/25/25 15:14	1
13C3 HFPO-DA	100		40 - 130	09/24/25 05:04	09/25/25 15:14	1
d7-N-MeFOSE-M	65.6		10 - 130	09/24/25 05:04	09/25/25 15:14	1
d9-N-EtFOSE-M	71.2		10 - 130	09/24/25 05:04	09/25/25 15:14	1
d5-NEtPFOSA	69.5		10 - 130	09/24/25 05:04	09/25/25 15:14	1
d3-NMePFOSA	66.8		10 - 130	09/24/25 05:04	09/25/25 15:14	1

Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Client Sample ID: SMW-5s

Lab Sample ID: 320-125415-2

Date Collected: 09/16/25 16:00

Matrix: Water

Date Received: 09/19/25 09:00

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	360		3.0	0.76	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluoropentanoic acid (PFPeA)	57		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluorohexanoic acid (PFHxA)	0.73	J	1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluoroheptanoic acid (PFHpA)	0.49	J I	1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluorooctanoic acid (PFOA)	2.5		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluorononanoic acid (PFNA)	ND		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluorodecanoic acid (PFDA)	0.40	J I	1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluoroundecanoic acid (PFUnA)	ND		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluorododecanoic acid (PFDoA)	ND		1.5	0.42	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.5	0.44	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.5	0.62	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.5	0.41	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluorooctanesulfonic acid (PFOS)	1.4	J	1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.40	ng/L		09/24/25 05:04	09/25/25 16:04	1
4:2 FTS	ND		3.0	0.76	ng/L		09/24/25 05:04	09/25/25 16:04	1
6:2 FTS	ND		3.0	0.76	ng/L		09/24/25 05:04	09/25/25 16:04	1
8:2 FTS	ND		3.0	0.76	ng/L		09/24/25 05:04	09/25/25 16:04	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
NMeFOSA	ND		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
NEtFOSA	ND		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
NMeFOSAA	1.1	J	1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
NEtFOSAA	ND		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
NMeFOSE	ND		7.6	1.9	ng/L		09/24/25 05:04	09/25/25 16:04	1
NEtFOSE	ND		7.6	1.9	ng/L		09/24/25 05:04	09/25/25 16:04	1
HFPO-DA (GenX)	ND		1.1	0.30	ng/L		09/24/25 05:04	09/25/25 16:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
PFMPA	ND		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
PFMBA	ND		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
NFDHA	ND		1.5	0.55	ng/L		09/24/25 05:04	09/25/25 16:04	1
9Cl-PF3ONS	ND		1.5	0.44	ng/L		09/24/25 05:04	09/25/25 16:04	1
11Cl-PF3OUdS	ND		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
PFEESA	ND		1.5	0.38	ng/L		09/24/25 05:04	09/25/25 16:04	1
3:3 FTCA	7.6		3.0	0.76	ng/L		09/24/25 05:04	09/25/25 16:04	1
5:3 FTCA	ND		7.6	1.9	ng/L		09/24/25 05:04	09/25/25 16:04	1
7:3 FTCA	ND		7.6	1.9	ng/L		09/24/25 05:04	09/25/25 16:04	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	85.0		5 - 130	09/24/25 05:04	09/25/25 16:04	1
13C5 PFPeA	82.1		40 - 130	09/24/25 05:04	09/25/25 16:04	1
13C5 PFHxA	87.2		40 - 130	09/24/25 05:04	09/25/25 16:04	1
13C4 PFHpA	85.8		40 - 130	09/24/25 05:04	09/25/25 16:04	1

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Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Client Sample ID: SMW-5s

Lab Sample ID: 320-125415-2

Date Collected: 09/16/25 16:00

Matrix: Water

Date Received: 09/19/25 09:00

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	95.0		40 - 130	09/24/25 05:04	09/25/25 16:04	1
13C9 PFNA	90.7		40 - 130	09/24/25 05:04	09/25/25 16:04	1
13C6 PFDA	74.3		40 - 130	09/24/25 05:04	09/25/25 16:04	1
13C7 PFUnA	66.0		30 - 130	09/24/25 05:04	09/25/25 16:04	1
13C2 PFDoA	57.2		10 - 130	09/24/25 05:04	09/25/25 16:04	1
13C2 PFTeDA	59.6		10 - 130	09/24/25 05:04	09/25/25 16:04	1
13C3 PFBS	87.9		40 - 135	09/24/25 05:04	09/25/25 16:04	1
13C3 PFHxS	89.5		40 - 130	09/24/25 05:04	09/25/25 16:04	1
13C8 PFOS	88.9		40 - 130	09/24/25 05:04	09/25/25 16:04	1
13C8 FOSA	60.1		40 - 130	09/24/25 05:04	09/25/25 16:04	1
d3-NMeFOSAA	63.7		40 - 170	09/24/25 05:04	09/25/25 16:04	1
d5-NEtFOSAA	61.5		25 - 135	09/24/25 05:04	09/25/25 16:04	1
13C2 4:2 FTS	156		40 - 200	09/24/25 05:04	09/25/25 16:04	1
13C2 6:2 FTS	155		40 - 200	09/24/25 05:04	09/25/25 16:04	1
13C2 8:2 FTS	127		40 - 300	09/24/25 05:04	09/25/25 16:04	1
13C3 HFPO-DA	87.8		40 - 130	09/24/25 05:04	09/25/25 16:04	1
d7-N-MeFOSE-M	43.0		10 - 130	09/24/25 05:04	09/25/25 16:04	1
d9-N-EtFOSE-M	45.6		10 - 130	09/24/25 05:04	09/25/25 16:04	1
d5-NEtPFOSA	43.9		10 - 130	09/24/25 05:04	09/25/25 16:04	1
d3-NMePFOSA	40.5		10 - 130	09/24/25 05:04	09/25/25 16:04	1

Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Client Sample ID: SMW-4

Lab Sample ID: 320-125415-3

Date Collected: 09/16/25 13:30

Matrix: Water

Date Received: 09/19/25 09:00

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		2.9	0.73	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluoropentanoic acid (PFPeA)	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluorohexanoic acid (PFHxA)	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluoroheptanoic acid (PFHpA)	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluorooctanoic acid (PFOA)	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluorononanoic acid (PFNA)	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluorodecanoic acid (PFDA)	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluoroundecanoic acid (PFUnA)	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluorododecanoic acid (PFDoA)	ND		1.5	0.40	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.5	0.42	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.5	0.59	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.5	0.39	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.39	ng/L		09/24/25 05:04	09/25/25 16:20	1
4:2 FTS	ND		2.9	0.73	ng/L		09/24/25 05:04	09/25/25 16:20	1
6:2 FTS	ND		2.9	0.73	ng/L		09/24/25 05:04	09/25/25 16:20	1
8:2 FTS	ND		2.9	0.73	ng/L		09/24/25 05:04	09/25/25 16:20	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
NMeFOSA	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
NEtFOSA	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
NMeFOSAA	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
NEtFOSAA	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
NMeFOSE	ND		7.3	1.8	ng/L		09/24/25 05:04	09/25/25 16:20	1
NEtFOSE	ND		7.3	1.8	ng/L		09/24/25 05:04	09/25/25 16:20	1
HFPO-DA (GenX)	ND		1.1	0.29	ng/L		09/24/25 05:04	09/25/25 16:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
PFMPA	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
PFMBA	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
NFDHA	ND		1.5	0.53	ng/L		09/24/25 05:04	09/25/25 16:20	1
9CI-PF3ONS	ND		1.5	0.42	ng/L		09/24/25 05:04	09/25/25 16:20	1
11CI-PF3OUdS	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
PFEESA	ND		1.5	0.37	ng/L		09/24/25 05:04	09/25/25 16:20	1
3:3 FTCA	ND		2.9	0.73	ng/L		09/24/25 05:04	09/25/25 16:20	1
5:3 FTCA	ND		7.3	1.8	ng/L		09/24/25 05:04	09/25/25 16:20	1
7:3 FTCA	ND		7.3	1.8	ng/L		09/24/25 05:04	09/25/25 16:20	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	90.5		5 - 130				09/24/25 05:04	09/25/25 16:20	1
13C5 PFPeA	95.9		40 - 130				09/24/25 05:04	09/25/25 16:20	1
13C5 PFHxA	97.0		40 - 130				09/24/25 05:04	09/25/25 16:20	1
13C4 PFHpA	82.1		40 - 130				09/24/25 05:04	09/25/25 16:20	1
13C8 PFOA	96.0		40 - 130				09/24/25 05:04	09/25/25 16:20	1

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Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Client Sample ID: SMW-4

Lab Sample ID: 320-125415-3

Date Collected: 09/16/25 13:30

Matrix: Water

Date Received: 09/19/25 09:00

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	93.2		40 - 130	09/24/25 05:04	09/25/25 16:20	1
13C6 PFDA	92.9		40 - 130	09/24/25 05:04	09/25/25 16:20	1
13C7 PFUnA	87.7		30 - 130	09/24/25 05:04	09/25/25 16:20	1
13C2 PFDoA	82.2		10 - 130	09/24/25 05:04	09/25/25 16:20	1
13C2 PFTeDA	80.8		10 - 130	09/24/25 05:04	09/25/25 16:20	1
13C3 PFBS	92.5		40 - 135	09/24/25 05:04	09/25/25 16:20	1
13C3 PFHxS	92.4		40 - 130	09/24/25 05:04	09/25/25 16:20	1
13C8 PFOS	97.9		40 - 130	09/24/25 05:04	09/25/25 16:20	1
13C8 FOSA	80.6		40 - 130	09/24/25 05:04	09/25/25 16:20	1
d3-NMeFOSAA	84.3		40 - 170	09/24/25 05:04	09/25/25 16:20	1
d5-NEtFOSAA	84.5		25 - 135	09/24/25 05:04	09/25/25 16:20	1
13C2 4:2 FTS	128		40 - 200	09/24/25 05:04	09/25/25 16:20	1
13C2 6:2 FTS	118		40 - 200	09/24/25 05:04	09/25/25 16:20	1
13C2 8:2 FTS	134		40 - 300	09/24/25 05:04	09/25/25 16:20	1
13C3 HFPO-DA	146	*5+	40 - 130	09/24/25 05:04	09/25/25 16:20	1
d7-N-MeFOSE-M	63.4		10 - 130	09/24/25 05:04	09/25/25 16:20	1
d9-N-EtFOSE-M	69.4		10 - 130	09/24/25 05:04	09/25/25 16:20	1
d5-NEtPFOSA	62.0		10 - 130	09/24/25 05:04	09/25/25 16:20	1
d3-NMePFOSA	61.0		10 - 130	09/24/25 05:04	09/25/25 16:20	1

Isotope Dilution Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
320-125415-1	SMW-5d	89.0	104	104	96.5	96.3	97.5	81.8	83.8
320-125415-2	SMW-5s	85.0	82.1	87.2	85.8	95.0	90.7	74.3	66.0
320-125415-3	SMW-4	90.5	95.9	97.0	82.1	96.0	93.2	92.9	87.7
LCS 320-877215/3-A	Lab Control Sample	90.7	90.8	96.5	95.1	104	98.4	92.8	92.6
LLCS 320-877215/2-A	Lab Control Sample	91.7	101	102	104	96.3	97.1	95.1	92.1
MB 320-877215/1-A	Method Blank	89.8	93.5	103	100	97.0	99.3	91.6	90.5

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (10-130)	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)
320-125415-1	SMW-5d	76.5	78.3	103	104	94.7	81.1	86.6	84.6
320-125415-2	SMW-5s	57.2	59.6	87.9	89.5	88.9	60.1	63.7	61.5
320-125415-3	SMW-4	82.2	80.8	92.5	92.4	97.9	80.6	84.3	84.5
LCS 320-877215/3-A	Lab Control Sample	85.0	81.5	92.8	97.7	107	78.9	88.2	86.4
LLCS 320-877215/2-A	Lab Control Sample	85.6	81.7	96.4	101	103	78.2	87.5	86.8
MB 320-877215/1-A	Method Blank	82.7	83.1	93.8	96.4	99.5	76.4	82.7	80.8

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (40-200)	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)
320-125415-1	SMW-5d	166	134	138	100	65.6	71.2	69.5	66.8
320-125415-2	SMW-5s	156	155	127	87.8	43.0	45.6	43.9	40.5
320-125415-3	SMW-4	128	118	134	146 *5+	63.4	69.4	62.0	61.0
LCS 320-877215/3-A	Lab Control Sample	130	120	118	103	69.7	73.5	58.9	63.1
LLCS 320-877215/2-A	Lab Control Sample	126	118	126	104	65.9	73.2	59.9	57.2
MB 320-877215/1-A	Method Blank	129	113	126	103	61.8	67.1	55.5	51.0

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = 13C2 4:2 FTS
M262FTS = 13C2 6:2 FTS
M282FTS = 13C2 8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA

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Isotope Dilution Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County
d3NMFSA = d3-NMePFOSA

Job ID: 320-125415-1

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QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 320-877215/1-A

Matrix: Water

Analysis Batch: 877664

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 877215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.0	1.0	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluorotridecanoic acid (PFTTrDA)	ND		2.0	0.58	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.81	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.54	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.53	ng/L		09/24/25 05:04	09/25/25 12:45	1
4:2 FTS	ND		4.0	1.0	ng/L		09/24/25 05:04	09/25/25 12:45	1
6:2 FTS	ND		4.0	1.0	ng/L		09/24/25 05:04	09/25/25 12:45	1
8:2 FTS	ND		4.0	1.0	ng/L		09/24/25 05:04	09/25/25 12:45	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
NMeFOSA	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
NEtFOSA	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
NMeFOSAA	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
NEtFOSAA	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
NMeFOSE	ND		10	2.5	ng/L		09/24/25 05:04	09/25/25 12:45	1
NEtFOSE	ND		10	2.5	ng/L		09/24/25 05:04	09/25/25 12:45	1
HFPO-DA (GenX)	ND		1.5	0.39	ng/L		09/24/25 05:04	09/25/25 12:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
PFMPA	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
PFMBA	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
NFDHA	ND		2.0	0.72	ng/L		09/24/25 05:04	09/25/25 12:45	1
9Cl-PF3ONS	ND		2.0	0.58	ng/L		09/24/25 05:04	09/25/25 12:45	1
11Cl-PF3OUdS	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
PFEESA	ND		2.0	0.50	ng/L		09/24/25 05:04	09/25/25 12:45	1
3:3 FTCA	ND		4.0	1.0	ng/L		09/24/25 05:04	09/25/25 12:45	1
5:3 FTCA	ND		10	2.5	ng/L		09/24/25 05:04	09/25/25 12:45	1
7:3 FTCA	ND		10	2.5	ng/L		09/24/25 05:04	09/25/25 12:45	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	89.8		5 - 130				09/24/25 05:04	09/25/25 12:45	1
13C5 PFPeA	93.5		40 - 130				09/24/25 05:04	09/25/25 12:45	1
13C5 PFHxA	103		40 - 130				09/24/25 05:04	09/25/25 12:45	1

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QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 320-877215/1-A

Matrix: Water

Analysis Batch: 877664

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 877215

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	100		40 - 130	09/24/25 05:04	09/25/25 12:45	1
13C8 PFOA	97.0		40 - 130	09/24/25 05:04	09/25/25 12:45	1
13C9 PFNA	99.3		40 - 130	09/24/25 05:04	09/25/25 12:45	1
13C6 PFDA	91.6		40 - 130	09/24/25 05:04	09/25/25 12:45	1
13C7 PFUnA	90.5		30 - 130	09/24/25 05:04	09/25/25 12:45	1
13C2 PFDoA	82.7		10 - 130	09/24/25 05:04	09/25/25 12:45	1
13C2 PFTeDA	83.1		10 - 130	09/24/25 05:04	09/25/25 12:45	1
13C3 PFBS	93.8		40 - 135	09/24/25 05:04	09/25/25 12:45	1
13C3 PFHxS	96.4		40 - 130	09/24/25 05:04	09/25/25 12:45	1
13C8 PFOS	99.5		40 - 130	09/24/25 05:04	09/25/25 12:45	1
13C8 FOSA	76.4		40 - 130	09/24/25 05:04	09/25/25 12:45	1
d3-NMeFOSAA	82.7		40 - 170	09/24/25 05:04	09/25/25 12:45	1
d5-NEtFOSAA	80.8		25 - 135	09/24/25 05:04	09/25/25 12:45	1
13C2 4:2 FTS	129		40 - 200	09/24/25 05:04	09/25/25 12:45	1
13C2 6:2 FTS	113		40 - 200	09/24/25 05:04	09/25/25 12:45	1
13C2 8:2 FTS	126		40 - 300	09/24/25 05:04	09/25/25 12:45	1
13C3 HFPO-DA	103		40 - 130	09/24/25 05:04	09/25/25 12:45	1
d7-N-MeFOSE-M	61.8		10 - 130	09/24/25 05:04	09/25/25 12:45	1
d9-N-EtFOSE-M	67.1		10 - 130	09/24/25 05:04	09/25/25 12:45	1
d5-NEtPFOSA	55.5		10 - 130	09/24/25 05:04	09/25/25 12:45	1
d3-NMePFOSA	51.0		10 - 130	09/24/25 05:04	09/25/25 12:45	1

Lab Sample ID: LCS 320-877215/3-A

Matrix: Water

Analysis Batch: 877664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 877215

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	98.1		ng/L		123	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	41.1		ng/L		103	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	40.4		ng/L		101	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	41.4		ng/L		103	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	38.4		ng/L		96	70 - 150
Perfluorononanoic acid (PFNA)	40.0	37.8		ng/L		94	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	45.7		ng/L		114	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	40.1		ng/L		100	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	44.1		ng/L		110	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	40.0	45.4		ng/L		113	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	46.2		ng/L		115	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	36.2		ng/L		102	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	40.3		ng/L		107	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	39.2		ng/L		108	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	34.4		ng/L		90	70 - 150

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QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 320-877215/3-A

Matrix: Water

Analysis Batch: 877664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 877215

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	37.2	37.7		ng/L		101	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	36.0		ng/L		94	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	34.2		ng/L		89	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	33.3		ng/L		86	50 - 145
4:2 FTS	75.0	70.2		ng/L		94	70 - 145
6:2 FTS	76.2	79.2		ng/L		104	65 - 155
8:2 FTS	76.8	74.4		ng/L		97	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	43.1		ng/L		108	70 - 145
NMeFOSA	40.0	42.7		ng/L		107	60 - 150
NEtFOSA	40.0	45.1		ng/L		113	65 - 145
NMeFOSAA	40.0	41.0		ng/L		103	50 - 140
NEtFOSAA	40.0	42.9		ng/L		107	70 - 145
NMeFOSE	200	201		ng/L		101	70 - 145
NEtFOSE	200	200		ng/L		100	70 - 135
HFPO-DA (GenX)	30.0	29.7		ng/L		99	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	41.7		ng/L		110	65 - 145
PFMPA	40.0	40.1		ng/L		100	55 - 140
PFMBA	40.0	42.9		ng/L		107	60 - 150
NFDHA	40.0	37.9		ng/L		95	50 - 150
9Cl-PF3ONS	37.4	36.1		ng/L		97	70 - 155
11Cl-PF3OUdS	37.8	36.1		ng/L		96	55 - 160
PFEESA	35.7	35.3		ng/L		99	70 - 140
3:3 FTCA	80.0	77.0		ng/L		96	65 - 130
5:3 FTCA	200	190		ng/L		95	70 - 135
7:3 FTCA	200	192		ng/L		96	50 - 145

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	90.7		5 - 130
13C5 PFPeA	90.8		40 - 130
13C5 PFHxA	96.5		40 - 130
13C4 PFHpA	95.1		40 - 130
13C8 PFOA	104		40 - 130
13C9 PFNA	98.4		40 - 130
13C6 PFDA	92.8		40 - 130
13C7 PFUnA	92.6		30 - 130
13C2 PFDoA	85.0		10 - 130
13C2 PFTeDA	81.5		10 - 130
13C3 PFBS	92.8		40 - 135
13C3 PFHxS	97.7		40 - 130
13C8 PFOS	107		40 - 130
13C8 FOSA	78.9		40 - 130
d3-NMeFOSAA	88.2		40 - 170
d5-NEtFOSAA	86.4		25 - 135
13C2 4:2 FTS	130		40 - 200

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QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 320-877215/3-A

Matrix: Water

Analysis Batch: 877664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 877215

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 6:2 FTS	120		40 - 200
13C2 8:2 FTS	118		40 - 300
13C3 HFPO-DA	103		40 - 130
d7-N-MeFOSE-M	69.7		10 - 130
d9-N-EtFOSE-M	73.5		10 - 130
d5-NEtPFOSA	58.9		10 - 130
d3-NMePFOSA	63.1		10 - 130

Lab Sample ID: LLCS 320-877215/2-A

Matrix: Water

Analysis Batch: 877664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 877215

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	9.07		ng/L		113	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	3.95		ng/L		99	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	3.80		ng/L		95	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	3.55		ng/L		89	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	3.75		ng/L		94	70 - 150
Perfluorononanoic acid (PFNA)	4.00	3.58		ng/L		89	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	4.34		ng/L		108	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	3.79		ng/L		95	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	4.23		ng/L		106	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	4.00	4.13		ng/L		103	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	4.28		ng/L		107	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.61		ng/L		102	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.82		ng/L		102	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	4.23		ng/L		116	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	3.54		ng/L		93	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	3.90		ng/L		105	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.49		ng/L		91	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.26		ng/L		85	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.57		ng/L		92	50 - 145
4:2 FTS	7.50	7.82		ng/L		104	70 - 145
6:2 FTS	7.62	7.63		ng/L		100	65 - 155
8:2 FTS	7.68	7.28		ng/L		95	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	4.17		ng/L		104	70 - 145
NMeFOSA	4.00	4.89		ng/L		122	60 - 150
NEtFOSA	4.00	4.34		ng/L		108	65 - 145
NMeFOSAA	4.00	3.83		ng/L		96	50 - 140

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QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 320-877215/2-A

Matrix: Water

Analysis Batch: 877664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 877215

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
NEtFOSAA	4.00	4.20		ng/L		105	70 - 145
NMeFOSE	20.0	20.2		ng/L		101	70 - 145
NEtFOSE	20.0	19.6		ng/L		98	70 - 135
HFPO-DA (GenX)	3.00	2.42		ng/L		81	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.55		ng/L		94	65 - 145
PFMPA	4.00	3.62		ng/L		91	55 - 140
PFMBA	4.00	3.57		ng/L		89	60 - 150
NFDHA	4.00	3.63		ng/L		91	50 - 150
9Cl-PF3ONS	3.74	3.46		ng/L		93	70 - 155
11Cl-PF3OUdS	3.78	3.27		ng/L		87	55 - 160
PFEESA	3.57	3.17		ng/L		89	70 - 140
3:3 FTCA	8.00	6.52		ng/L		82	65 - 130
5:3 FTCA	20.0	18.4		ng/L		92	70 - 135
7:3 FTCA	20.0	17.3		ng/L		87	50 - 145

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	LLCS Limits
13C4 PFBA	91.7		5 - 130
13C5 PFPeA	101		40 - 130
13C5 PFHxA	102		40 - 130
13C4 PFHpA	104		40 - 130
13C8 PFOA	96.3		40 - 130
13C9 PFNA	97.1		40 - 130
13C6 PFDA	95.1		40 - 130
13C7 PFUnA	92.1		30 - 130
13C2 PFDoA	85.6		10 - 130
13C2 PFTeDA	81.7		10 - 130
13C3 PFBS	96.4		40 - 135
13C3 PFHxS	101		40 - 130
13C8 PFOS	103		40 - 130
13C8 FOSA	78.2		40 - 130
d3-NMeFOSAA	87.5		40 - 170
d5-NEtFOSAA	86.8		25 - 135
13C2 4:2 FTS	126		40 - 200
13C2 6:2 FTS	118		40 - 200
13C2 8:2 FTS	126		40 - 300
13C3 HFPO-DA	104		40 - 130
d7-N-MeFOSE-M	65.9		10 - 130
d9-N-EtFOSE-M	73.2		10 - 130
d5-NEtPFOSA	59.9		10 - 130
d3-NMePFOSA	57.2		10 - 130

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QC Association Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

LCMS

Prep Batch: 877215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-125415-1	SMW-5d	Total/NA	Water	1633	
320-125415-2	SMW-5s	Total/NA	Water	1633	
320-125415-3	SMW-4	Total/NA	Water	1633	
MB 320-877215/1-A	Method Blank	Total/NA	Water	1633	
LCS 320-877215/3-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 320-877215/2-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 877664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-125415-1	SMW-5d	Total/NA	Water	1633	877215
320-125415-2	SMW-5s	Total/NA	Water	1633	877215
320-125415-3	SMW-4	Total/NA	Water	1633	877215
MB 320-877215/1-A	Method Blank	Total/NA	Water	1633	877215
LCS 320-877215/3-A	Lab Control Sample	Total/NA	Water	1633	877215
LLCS 320-877215/2-A	Lab Control Sample	Total/NA	Water	1633	877215

Lab Chronicle

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Client Sample ID: SMW-5d

Date Collected: 09/16/25 11:00

Date Received: 09/19/25 09:00

Lab Sample ID: 320-125415-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633			173.9 mL	5.0 mL	877215	09/24/25 05:04	DXT	EET SAC
Total/NA	Analysis	1633		1			877664	09/25/25 15:14	S1M	EET SAC

Client Sample ID: SMW-5s

Date Collected: 09/16/25 16:00

Date Received: 09/19/25 09:00

Lab Sample ID: 320-125415-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633			164.2 mL	5.0 mL	877215	09/24/25 05:04	DXT	EET SAC
Total/NA	Analysis	1633		1			877664	09/25/25 16:04	S1M	EET SAC

Client Sample ID: SMW-4

Date Collected: 09/16/25 13:30

Date Received: 09/19/25 09:00

Lab Sample ID: 320-125415-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633			170.9 mL	5.0 mL	877215	09/24/25 05:04	DXT	EET SAC
Total/NA	Analysis	1633		1			877664	09/25/25 16:20	S1M	EET SAC

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C581	05-05-26

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Method	Method Description	Protocol	Laboratory
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET SAC
1633	Solid-Phase Extraction (SPE)	EPA	EET SAC

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes Landfill, Yakima County

Job ID: 320-125415-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
320-125415-1	SMW-5d	Water	09/16/25 11:00	09/19/25 09:00	Washington
320-125415-2	SMW-5s	Water	09/16/25 16:00	09/19/25 09:00	Washington
320-125415-3	SMW-4	Water	09/16/25 13:30	09/19/25 09:00	Washington

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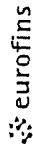
11

12

13

14

Chain of Custody Record



Environment Testing

Client Information Client Contact: ASHLEY PARKHURST Company: MUT MAC DONALD Address: 1100 5TH AVENUE SUITE 800 City: SEATTLE State, Zip: WA 98101 Phone: 206-293-7896 Email: ashley@streetageoservices.com Project Name: SNIPES MTR LANDFILL Site: SNIPES		Sampler: UT+K Lab Pkt: 206-293-7896 Phone: 206-293-7896 E-Mail: WA 98101	Carrier Tracking No(s): State of Origin: WA Page: 1 of 1 Job #:	OOC No: Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amdlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - A+NaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrale U - Acetone V - MCAA W - pH 4.5 Y - Tritona Z - other (specify)
Due Date Requested: 5/18/25 TAT Requested (days): Compliance Project: Δ Yes Δ No PO #: 700-293-7896 WO #: 018300030-003 Project #: 018300030-003 SSOW#:		PWSID: Field Filtered Sample (Yes or No) ☒ Yes Perform MS/MSD (Yes or No) ☒ Yes Total Number of Containers: 1630		
Sample Identification SNW-5d SNW-5s SNW-4	Sample Date: 05/16/25 Sample Time: 11:00 Sample Type (C=Comp, G=grab): G Matrix (V=water, A=solid, O=metals, A=Air): W	Sample Date: 05/16/25 Sample Time: 11:00 Sample Type (C=Comp, G=grab): G Matrix (V=water, A=solid, O=metals, A=Air): W	Sample Date: 05/16/25 Sample Time: 11:00 Sample Type (C=Comp, G=grab): G Matrix (V=water, A=solid, O=metals, A=Air): W	
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Polson 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				
320-125415 Chain of Custody				
Empty Kit Relinquished by:				
Relinquished by: Travis K. Davis Relinquished by: 9/19/25 18:32 Relinquished by:		Date: 9/19/25 18:32 Date: 9/19/25 18:32 Date:		
Relinquished by:		Date:		
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 1.7		





Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

31 October 2025

Ashley Parkhurst
Mott MacDonald
1601 5th Avenue Suite 800
Seattle, WA 98101

RE: Snipes MTN Landfill 2025 (Snipes MTN Landfill 2025)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
25I0372

Associated SDG ID(s)
N/A

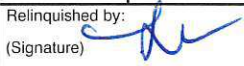
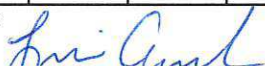
I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Kelly Bottem, Client Services Manager



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2510372		Turn-around Requested: Std		Page: 1 of 1		 Analytical Resources, LLC Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)																																				
ARI Client Company: Mott MacDonald		Phone: 206 293-7896		Date:				Ice Present? Y																																		
Client Contact: Ashley Parkhurst				No. of Coolers: 46				Cooler Temps: 0.3, 4.0, 2.4, 0.7, 1.6, 2.9																																		
Client Project Name: Snipes mtn RI				<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <th colspan="15">Analysis Requested</th> <th>Notes/Comments</th> </tr> <tr> <th>VOCs</th> <th>SVOC</th> <th>Diss metals</th> <th>NO3, NO2</th> <th>Cl-, sulfate</th> <th>Alkalinity</th> <th>TSS</th> <th>1/4 Dioxane</th> <th>Dioxane/Furan</th> <th>TDS</th> <th>TOC/COD/NH3</th> <th>SVOC PAH</th> <th>Pesticides</th> <th>SVOCs</th> <th></th> </tr> </table>								Analysis Requested															Notes/Comments	VOCs	SVOC	Diss metals	NO3, NO2	Cl-, sulfate	Alkalinity	TSS	1/4 Dioxane	Dioxane/Furan	TDS	TOC/COD/NH3	SVOC PAH	Pesticides	SVOCs	
Analysis Requested															Notes/Comments																											
VOCs	SVOC	Diss metals	NO3, NO2	Cl-, sulfate	Alkalinity	TSS	1/4 Dioxane	Dioxane/Furan	TDS	TOC/COD/NH3	SVOC PAH	Pesticides	SVOCs																													
Client Project #: 518300030		Samplers: LT ETK																																								
Sample ID	Date	Time	Matrix	No. Containers	VOCs	SVOC	Diss metals	NO3, NO2	Cl-, sulfate	Alkalinity	TSS	1/4 Dioxane	Dioxane/Furan	TDS	TOC/COD/NH3	SVOC PAH	Pesticides	SVOCs																								
Smw-5d	9/16/25	11:00	GW	19	3	2	1*	1	1	1	1	2	2	1	1	1	2	2	not field filtered																							
Smw-5s		16:00	GW	20	3	2	1*	1	1	1	1		2	1	1	2	2	2	not field filtered																							
Smw-4		13:30	GW	22	3	2	1	1	1	1	1	2	2	1	1	2	2	2																								
OL Luther		14:00	GW	9	3	2	1		1	1	1																															
Evans		13:45	GW	9	3	2	1		1	1	1																															
Evans (filter)	9/16/25	13:50	GW	5	3	2																																				
Trip blank																																										
Comments/Special Instructions ① Dissolved metals samples at smw-5d and smw-5s are not preserved or filtered please lab filter at 0.45 um.				Relinquished by: (Signature) 		Received by: (Signature) 		Relinquished by:		Received by:																																
				Printed Name: Travis H		Printed Name: Sybil Acevedo		Printed Name:		Printed Name:																																
				Company: Mott MacDonald		Company: AR LLC		Company:		Company:																																
				Date & Time: 9/18/25 09:38		Date & Time: 9/18/25 09:38		Date & Time:		Date & Time:																																

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



Mott MacDonald
1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SMW-5d	25I0372-01	Water	16-Sep-2025 11:00	18-Sep-2025 09:38
SMW-5s	25I0372-02	Water	16-Sep-2025 16:00	18-Sep-2025 09:38
SMW-4	25I0372-03	Water	16-Sep-2025 13:30	18-Sep-2025 09:38
OL Luther	25I0372-04	Water	16-Sep-2025 14:00	18-Sep-2025 09:38
Evans	25I0372-05	Water	16-Sep-2025 13:45	18-Sep-2025 09:38
Evans (filter)	25I0372-06	Water	16-Sep-2025 13:50	18-Sep-2025 09:38
Trip Blank	25I0372-07	Water	16-Sep-2025 11:00	18-Sep-2025 09:38



Mott MacDonald
1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Work Order Case Narrative

Client: Mott MacDonald
Project: Snipes MTN Landfill 2025
Work Order: 25I0372

Sample receipt

Samples as listed on the preceding page were received 18-Sep-2025 09:38 under ARI work order 25I0372. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Dioxin/Furans - EPA Method 1613

The sample(s) were extracted and analyzed within the recommended holding times. Analysis was performed using an application specific column developed by Restek. The RTX-Dioxin2 column has unique isomer separation for the 2378-TCDF, eliminating the need for confirmation analysis.

Initial and continuing calibrations were within method requirements.

Labeled internal standard areas were within limits.

The cleanup surrogate percent recoveries were within control limits.

The method blank(s) contained OCDD. Samples that contain OCDD have been flagged with a "B" qualifier.

The OPR (Ongoing Precision and Recovery) standard percent recoveries were within control limits.

Volatiles - EPA Method SW8260D

The sample(s) were analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements with the exception of all associated "Q" flagged analytes which are out of control low in the ICV. Samples that contain analyte have been flagged with a "Q" qualifier.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits with the exception of analytes flagged on the associated forms.

Volatiles - EPA Method 8260D-SIM (Selected Ion Monitoring)

The sample(s) were analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.



Mott MacDonald
1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

Polynuclear Aromatic Hydrocarbons (PAH) - EPA Method SW8270E-SIM

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

Semivolatiles - EPA Method SW8270E

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements with the exception of all associated "Q" flagged analytes which are out of control high in the ICV and 4-chloroaniline is out of control low. Samples that contain analyte have been flagged with a "Q" qualifier.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) contained Bis(2-Ethylhexyl)phthalate. Samples that contain analyte have been flagged with a "B" qualifier.

The blank spike (BS/LCS) percent recoveries were within control limits with the exception of analytes flagged on the associated forms.

Pesticides - EPA Method SW8081B

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.



Mott MacDonald
1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

Tech chlordane (cas#12789-03-6) is no longer available, so we purchase and report NOS chlordane (cas#57-74-9). Restek slyly calls their chlordane "chlordane mix" using same cas# as NOS. NOS Chlordane has been reported in place of Tech Chlordane.

Dissolved Metals - EPA Method 6010D, 6020B and 7470A

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times with the exception of nitrate and nitrite which were analyzed outside of the holding times and flagged with an "H" qualifier.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits with the exception of the TSS LCS which is out of control low.

The reference material (SRM) percent recoveries were within control limits.

1,4-Dioxane- EPA Method SW8270E-SIM (Isotope Dilution)

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Labeled internal standard areas were within limits.

The method blank(s) were clean at the reporting limits.



Mott MacDonald

1601 5th Avenue Suite 800

Seattle WA, 98101

Project: Snipes MTN Landfill 2025

Project Number: Snipes MTN Landfill 2025

Project Manager: Ashley Parkhurst

Reported:

31-Oct-2025 13:40

The blank spike (BS/LCS) percent recoveries were within control limits.



WORK ORDER

25I0372

Client: Mott MacDonald

Project Manager: Kelly Bottem

Project: Snipes MTN Landfill 2025

Project Number: Snipes MTN Landfill 2025

Preservation Confirmation

Container ID	Container Type	pH	pH Paper Lot#: <u>N000119</u>
25I0372-01 A	VOA Vial, Clear, 40 mL, HCL		
25I0372-01 B	VOA Vial, Clear, 40 mL, HCL		
25I0372-01 C	VOA Vial, Clear, 40 mL, HCL		
25I0372-01 D	VOA Vial, Clear, 40 mL, HCL		
25I0372-01 E	VOA Vial, Clear, 40 mL, HCL		
25I0372-01 F	HDPE NM, 500 mL		
25I0372-01 G	HDPE NM, 500 mL		
25I0372-01 H	HDPE NM, 500 mL		
25I0372-01 I	HDPE NM, 1000 mL		
25I0372-01 J	HDPE NM, 1000 mL		
25I0372-01 K	Glass NM, Amber, 250 mL, 9N H2SO4	<u>L2p</u>	
25I0372-01 L	Glass NM, Amber, 1000 mL		
25I0372-01 M	Glass NM, Amber, 1000 mL		
25I0372-01 N	Glass NM, Amber, 500 mL		
25I0372-01 O	Glass NM, Amber, 500 mL		
25I0372-01 P	Glass NM, Amber, 500 mL		
25I0372-01 Q	Glass NM, Amber, 500 mL		
25I0372-01 R	Glass NM, Amber, 1000 mL		
25I0372-01 S	HDPE NM, 250mL	<u>>2 FAIL</u>	
25I0372-02 A	VOA Vial, Clear, 40 mL, HCL		
25I0372-02 B	VOA Vial, Clear, 40 mL, HCL		
25I0372-02 C	VOA Vial, Clear, 40 mL, HCL		
25I0372-02 D	VOA Vial, Clear, 40 mL, HCL		
25I0372-02 E	VOA Vial, Clear, 40 mL, HCL		
25I0372-02 F	HDPE NM, 500 mL		
25I0372-02 G	HDPE NM, 500 mL		
25I0372-02 H	HDPE NM, 250mL		
25I0372-02 I	HDPE NM, 1000 mL		
25I0372-02 J	HDPE NM, 1000 mL		
25I0372-02 K	Glass NM, Amber, 250 mL, 9N H2SO4	<u>L2p</u>	
25I0372-02 L	Glass NM, Amber, 1000 mL		
25I0372-02 M	Glass NM, Amber, 1000 mL		



WORK ORDER

25I0372

Client: Mott MacDonald

Project Manager: Kelly Bottem

Project: Snipes MTN Landfill 2025

Project Number: Snipes MTN Landfill 2025

25I0372-02 N	Glass NM, Amber, 500 mL	
25I0372-02 O	Glass NM, Amber, 500 mL	
25I0372-02 P	Glass NM, Amber, 500 mL	
25I0372-02 Q	Glass NM, Amber, 500 mL	
25I0372-02 R	Glass NM, Amber, 500 mL	
25I0372-02 S	Glass NM, Amber, 500 mL	
25I0372-02 T	HDPE NM, 250mL	> 2 FAIL
25I0372-03 A	VOA Vial, Clear, 40 mL, HCL	
25I0372-03 B	VOA Vial, Clear, 40 mL, HCL	
25I0372-03 C	VOA Vial, Clear, 40 mL, HCL	
25I0372-03 D	VOA Vial, Clear, 40 mL, HCL	
25I0372-03 E	VOA Vial, Clear, 40 mL, HCL	
25I0372-03 F	HDPE NM, 500 mL	
25I0372-03 G	HDPE NM, 500 mL	
25I0372-03 H	HDPE NM, 250mL	
25I0372-03 I	HDPE NM, 1000 mL	
25I0372-03 J	HDPE NM, 1000 mL	
25I0372-03 K	Glass NM, Amber, 250 mL, 9N H2SO4	L2P
25I0372-03 L	Glass NM, Amber, 1000 mL	
25I0372-03 M	Glass NM, Amber, 1000 mL	
25I0372-03 N	Glass NM, Amber, 500 mL	
25I0372-03 O	Glass NM, Amber, 500 mL	
25I0372-03 P	Glass NM, Amber, 500 mL	
25I0372-03 Q	Glass NM, Amber, 500 mL	
25I0372-03 R	Glass NM, Amber, 500 mL	
25I0372-03 S	Glass NM, Amber, 500 mL	
25I0372-03 T	HDPE NM, 250mL HNO3 (FF)	L2P
25I0372-03 U	Glass NM, Amber, 500 mL	
25I0372-03 V	Glass NM, Amber, 500 mL	
25I0372-04 A	VOA Vial, Clear, 40 mL, HCL	
25I0372-04 B	VOA Vial, Clear, 40 mL, HCL	
25I0372-04 C	VOA Vial, Clear, 40 mL, HCL	
25I0372-04 D	VOA Vial, Clear, 40 mL, HCL	
25I0372-04 E	VOA Vial, Clear, 40 mL, HCL	



WORK ORDER

2510372

Client: Mott MacDonald

Project Manager: Kelly Bottem

Project: Snipes MTN Landfill 2025

Project Number: Snipes MTN Landfill 2025

2510372-04 F	HDPE NM, 250mL	
2510372-04 G	HDPE NM, 500 mL	
2510372-04 H	HDPE NM, 1000 mL	
2510372-04 I	HDPE NM, 250mL HNO3 (FF)	L2p
2510372-05 A	VOA Vial, Clear, 40 mL, HCL	
2510372-05 B	VOA Vial, Clear, 40 mL, HCL	
2510372-05 C	VOA Vial, Clear, 40 mL, HCL	
2510372-05 D	VOA Vial, Clear, 40 mL, HCL	
2510372-05 E	VOA Vial, Clear, 40 mL, HCL	
2510372-05 F	HDPE NM, 250mL	
2510372-05 G	HDPE NM, 500 mL	
2510372-05 H	HDPE NM, 1000 mL	
2510372-05 I	HDPE NM, 250mL HNO3 (FF)	L2p
2510372-06 A	VOA Vial, Clear, 40 mL, HCL	
2510372-06 B	VOA Vial, Clear, 40 mL, HCL	
2510372-06 C	VOA Vial, Clear, 40 mL, HCL	
2510372-06 D	VOA Vial, Clear, 40 mL, HCL	
2510372-06 E	VOA Vial, Clear, 40 mL, HCL	
2510372-07 A	VOA Vial, Clear, 40 mL, HCL	
2510372-07 B	VOA Vial, Clear, 40 mL, HCL	

SA

Preservation Confirmed By

9/18/25

Date



Cooler Receipt Form

ARI Client: Mott Mac

Project Name: Snipes MTN RI

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2510372

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) Time 0938 3.9 0.3 4.0 2.4 0.7 1.6 Temp Gun ID#: 8117
Was a temperature blank included in the cooler? YES (NO)
Were coolers received between 0° - 6° (°C) YES NO
Was sufficient ice used (if appropriate)? NA YES NO

Cooler Accepted by: SA Date: 9/18/25 Time: 0938

Complete custody forms and attach all shipping documents

Log-In Phase:

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block N/A Other: _____
Are any samples that were out of temperature compliance documented in LIMS? YES (NO)
How were bottles sealed in plastic bags? Individually Grouped (Not)
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: _____ NA 9/10/25
Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: SA Date: 9/18/25 Time: 1128 Labels checked by: SA

**** Notify Project Manager of discrepancies or concerns ****

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



WORK ORDER

25I0372

Client: Mott MacDonald

Project Manager: Kelly Bottem

Project: Snipes MTN Landfill 2025

Project Number: Snipes MTN Landfill 2025

Preservation Confirmation

Container ID	Container Type	pH	pH Paper Lot#: <u>N000119</u>
25I0372-01 A	VOA Vial, Clear, 40 mL, HCL		
25I0372-01 B	VOA Vial, Clear, 40 mL, HCL		
25I0372-01 C	VOA Vial, Clear, 40 mL, HCL		
25I0372-01 D	VOA Vial, Clear, 40 mL, HCL		
25I0372-01 E	VOA Vial, Clear, 40 mL, HCL		
25I0372-01 F	HDPE NM, 500 mL		
25I0372-01 G	HDPE NM, 500 mL		
25I0372-01 H	HDPE NM, 500 mL		
25I0372-01 I	HDPE NM, 1000 mL		
25I0372-01 J	HDPE NM, 1000 mL		
25I0372-01 K	Glass NM, Amber, 250 mL, 9N H2SO4	<u>L2p</u>	
25I0372-01 L	Glass NM, Amber, 1000 mL		
25I0372-01 M	Glass NM, Amber, 1000 mL		
25I0372-01 N	Glass NM, Amber, 500 mL		
25I0372-01 O	Glass NM, Amber, 500 mL		
25I0372-01 P	Glass NM, Amber, 500 mL		
25I0372-01 Q	Glass NM, Amber, 500 mL		
25I0372-01 R	Glass NM, Amber, 1000 mL		
25I0372-01 S	HDPE NM, 250mL	<u>>2 FAIL</u>	<u>(1)</u>
25I0372-02 A	VOA Vial, Clear, 40 mL, HCL		
25I0372-02 B	VOA Vial, Clear, 40 mL, HCL		
25I0372-02 C	VOA Vial, Clear, 40 mL, HCL		
25I0372-02 D	VOA Vial, Clear, 40 mL, HCL		
25I0372-02 E	VOA Vial, Clear, 40 mL, HCL		
25I0372-02 F	HDPE NM, 500 mL		
25I0372-02 G	HDPE NM, 500 mL		
25I0372-02 H	HDPE NM, 250mL		
25I0372-02 I	HDPE NM, 1000 mL		
25I0372-02 J	HDPE NM, 1000 mL		
25I0372-02 K	Glass NM, Amber, 250 mL, 9N H2SO4	<u>L2p</u>	
25I0372-02 L	Glass NM, Amber, 1000 mL		
25I0372-02 M	Glass NM, Amber, 1000 mL		



WORK ORDER

25I0372

Client: Mott MacDonald

Project Manager: Kelly Bottem

Project: Snipes MTN Landfill 2025

Project Number: Snipes MTN Landfill 2025

25I0372-02 N	Glass NM, Amber, 500 mL	
25I0372-02 O	Glass NM, Amber, 500 mL	
25I0372-02 P	Glass NM, Amber, 500 mL	
25I0372-02 Q	Glass NM, Amber, 500 mL	
25I0372-02 R	Glass NM, Amber, 500 mL	
25I0372-02 S	Glass NM, Amber, 500 mL	
25I0372-02 T	HDPE NM, 250mL	> 2 FAIL (1)
25I0372-03 A	VOA Vial, Clear, 40 mL, HCL	
25I0372-03 B	VOA Vial, Clear, 40 mL, HCL	
25I0372-03 C	VOA Vial, Clear, 40 mL, HCL	
25I0372-03 D	VOA Vial, Clear, 40 mL, HCL	
25I0372-03 E	VOA Vial, Clear, 40 mL, HCL	
25I0372-03 F	HDPE NM, 500 mL	
25I0372-03 G	HDPE NM, 500 mL	
25I0372-03 H	HDPE NM, 250mL	
25I0372-03 I	HDPE NM, 1000 mL	
25I0372-03 J	HDPE NM, 1000 mL	
25I0372-03 K	Glass NM, Amber, 250 mL, 9N H2SO4	L2P
25I0372-03 L	Glass NM, Amber, 1000 mL	
25I0372-03 M	Glass NM, Amber, 1000 mL	
25I0372-03 N	Glass NM, Amber, 500 mL	
25I0372-03 O	Glass NM, Amber, 500 mL	
25I0372-03 P	Glass NM, Amber, 500 mL	
25I0372-03 Q	Glass NM, Amber, 500 mL	
25I0372-03 R	Glass NM, Amber, 500 mL	
25I0372-03 S	Glass NM, Amber, 500 mL	
25I0372-03 T	HDPE NM, 250mL HNO3 (FF)	L2P
25I0372-03 U	Glass NM, Amber, 500 mL	
25I0372-03 V	Glass NM, Amber, 500 mL	
25I0372-04 A	VOA Vial, Clear, 40 mL, HCL	
25I0372-04 B	VOA Vial, Clear, 40 mL, HCL	
25I0372-04 C	VOA Vial, Clear, 40 mL, HCL	
25I0372-04 D	VOA Vial, Clear, 40 mL, HCL	
25I0372-04 E	VOA Vial, Clear, 40 mL, HCL	



WORK ORDER

2510372

Client: Mott MacDonald	Project Manager: Kelly Bottem
Project: Snipes MTN Landfill 2025	Project Number: Snipes MTN Landfill 2025
2510372-04 F	HDPE NM, 250mL
2510372-04 G	HDPE NM, 500 mL
2510372-04 H	HDPE NM, 1000 mL
2510372-04 I	HDPE NM, 250mL HNO ₃ (FF) L2P
2510372-05 A	VOA Vial, Clear, 40 mL, HCL
2510372-05 B	VOA Vial, Clear, 40 mL, HCL
2510372-05 C	VOA Vial, Clear, 40 mL, HCL
2510372-05 D	VOA Vial, Clear, 40 mL, HCL
2510372-05 E	VOA Vial, Clear, 40 mL, HCL
2510372-05 F	HDPE NM, 250mL
2510372-05 G	HDPE NM, 500 mL
2510372-05 H	HDPE NM, 1000 mL
2510372-05 I	HDPE NM, 250mL HNO ₃ (FF) L2P
2510372-06 A	VOA Vial, Clear, 40 mL, HCL
2510372-06 B	VOA Vial, Clear, 40 mL, HCL
2510372-06 C	VOA Vial, Clear, 40 mL, HCL
2510372-06 D	VOA Vial, Clear, 40 mL, HCL
2510372-06 E	VOA Vial, Clear, 40 mL, HCL
2510372-07 A	VOA Vial, Clear, 40 mL, HCL
2510372-07 B	VOA Vial, Clear, 40 mL, HCL

SA
Preservation Confirmed By

9/18/25
Date

① Filtered at 0.45 μ m
and preserved to pH 2.0
with 0.75ml conc. HNO₃ (N7372).
ML 09/18/25 1450

Reviewed By

Date

Page 2 of 2



Mott MacDonald
1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 09/16/2025 11:00

Instrument: NT20 Analyst: LTN

Analyzed: 09/22/2025 13:31

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25I0372-01 B

Preparation Batch: BNI0453

Sample Size: 10 mL

Prepared: 09/22/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloromethane	74-87-3	1	0.50	0.50	ND	ug/L	U
Vinyl Chloride	75-01-4	1	0.10	0.20	ND	ug/L	U
Bromomethane	74-83-9	1	1.00	1.00	ND	ug/L	U
Chloroethane	75-00-3	1	0.20	0.20	ND	ug/L	U
Trichlorofluoromethane	75-69-4	1	0.20	0.20	ND	ug/L	U
Acrolein	107-02-8	1	5.00	5.00	ND	ug/L	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	1	0.20	0.20	ND	ug/L	U
Acetone	67-64-1	1	5.00	5.00	ND	ug/L	U
1,1-Dichloroethene	75-35-4	1	0.10	0.20	ND	ug/L	U
Iodomethane	74-88-4	1	0.50	1.00	ND	ug/L	U
Methylene Chloride	75-09-2	1	1.00	1.00	ND	ug/L	U
Acrylonitrile	107-13-1	1	0.50	1.00	ND	ug/L	U
Carbon Disulfide	75-15-0	1	0.20	0.20	ND	ug/L	U
trans-1,2-Dichloroethene	156-60-5	1	0.10	0.20	ND	ug/L	U
Vinyl Acetate	108-05-4	1	0.20	0.20	ND	ug/L	U
1,1-Dichloroethane	75-34-3	1	0.10	0.20	ND	ug/L	U
2-Butanone	78-93-3	1	2.50	5.00	ND	ug/L	U
2,2-Dichloropropane	594-20-7	1	0.20	0.20	ND	ug/L	U
cis-1,2-Dichloroethene	156-59-2	1	0.10	0.20	ND	ug/L	U
Chloroform	67-66-3	1	0.10	0.20	ND	ug/L	U
Bromochloromethane	74-97-5	1	0.10	0.20	ND	ug/L	U
1,1,1-Trichloroethane	71-55-6	1	0.10	0.20	ND	ug/L	U
1,1-Dichloropropene	563-58-6	1	0.10	0.20	ND	ug/L	U
Carbon tetrachloride	56-23-5	1	0.10	0.20	ND	ug/L	U
1,2-Dichloroethane	107-06-2	1	0.10	0.20	ND	ug/L	U
Benzene	71-43-2	1	0.10	0.20	ND	ug/L	U
Trichloroethene	79-01-6	1	0.10	0.20	ND	ug/L	U
1,2-Dichloropropane	78-87-5	1	0.10	0.20	ND	ug/L	U
Bromodichloromethane	75-27-4	1	0.10	0.20	ND	ug/L	U
Dibromomethane	74-95-3	1	0.10	0.20	ND	ug/L	U
2-Chloroethyl vinyl ether	110-75-8	1	1.00	1.00	ND	ug/L	U
4-Methyl-2-Pentanone	108-10-1	1	2.50	5.00	ND	ug/L	U
cis-1,3-Dichloropropene	10061-01-5	1	0.10	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.10	0.20	ND	ug/L	U
trans-1,3-Dichloropropene	10061-02-6	1	0.10	0.20	ND	ug/L	U
2-Hexanone	591-78-6	1	2.50	5.00	ND	ug/L	U
1,1,2-Trichloroethane	79-00-5	1	0.20	0.20	ND	ug/L	U
1,3-Dichloropropane	142-28-9	1	0.10	0.20	ND	ug/L	U



Mott MacDonald
1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 09/16/2025 11:00

Instrument: NT20 Analyst: LTN

Analyzed: 09/22/2025 13:31

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Tetrachloroethene	127-18-4	1	0.10	0.20	0.31	ug/L	
Dibromochloromethane	124-48-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromoethane	106-93-4	1	0.10	0.20	ND	ug/L	U
Chlorobenzene	108-90-7	1	0.10	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.10	0.20	ND	ug/L	U
1,1,1,2-Tetrachloroethane	630-20-6	1	0.10	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.20	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.10	0.20	ND	ug/L	U
Xylenes, total	1330-20-7	1	0.30	0.60	ND	ug/L	U
Styrene	100-42-5	1	0.10	0.20	ND	ug/L	U
Bromoform	75-25-2	1	0.20	0.20	ND	ug/L	U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.20	0.20	ND	ug/L	U
1,2,3-Trichloropropane	96-18-4	1	0.25	0.50	ND	ug/L	U
trans-1,4-Dichloro 2-Butene	110-57-6	1	1.00	1.00	ND	ug/L	U
n-Propylbenzene	103-65-1	1	0.10	0.20	ND	ug/L	U
Bromobenzene	108-86-1	1	0.10	0.20	ND	ug/L	U
Isopropyl Benzene	98-82-8	1	0.10	0.20	ND	ug/L	U
2-Chlorotoluene	95-49-8	1	0.10	0.20	ND	ug/L	U
4-Chlorotoluene	106-43-4	1	0.10	0.20	ND	ug/L	U
t-Butylbenzene	98-06-6	1	0.10	0.20	ND	ug/L	U
1,3,5-Trimethylbenzene	108-67-8	1	0.10	0.20	ND	ug/L	U
1,2,4-Trimethylbenzene	95-63-6	1	0.10	0.20	ND	ug/L	U
s-Butylbenzene	135-98-8	1	0.10	0.20	ND	ug/L	U
4-Isopropyl Toluene	99-87-6	1	0.10	0.20	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	1	0.10	0.20	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	1	0.20	0.20	ND	ug/L	U
n-Butylbenzene	104-51-8	1	0.20	0.20	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromo-3-chloropropane	96-12-8	1	0.50	0.50	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	1	0.25	0.50	ND	ug/L	U
Hexachloro-1,3-Butadiene	87-68-3	1	0.50	0.50	ND	ug/L	U
Naphthalene	91-20-3	1	0.50	0.50	ND	ug/L	U
1,2,3-Trichlorobenzene	87-61-6	1	0.50	0.50	ND	ug/L	U
Dichlorodifluoromethane	75-71-8	1	0.20	0.20	ND	ug/L	U
Methyl tert-butyl Ether	1634-04-4	1	0.25	0.50	ND	ug/L	U
2-Pentanone	107-87-9	1	2.50	5.00	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4					80-129 %	96.3	%
Surrogate: Toluene-d8					80-120 %	98.9	%
Surrogate: 4-Bromofluorobenzene					80-120 %	97.8	%
Surrogate: 1,2-Dichlorobenzene-d4					80-120 %	101	%



Mott MacDonald
1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260D-SIM

Sampled: 09/16/2025 11:00

Instrument: NT16 Analyst: LTN

Analyzed: 09/24/2025 10:27

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25I0372-01 C

Preparation Batch: BNI0497

Sample Size: 10 mL

Prepared: 09/24/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl chloride	75-01-4	1	10.0	20.0	110	ng/L	
Surrogate: 1,2-Dichloroethane-d4				80-129 %	91.4	%	
Surrogate: Toluene-d8				80-120 %	98.5	%	
Surrogate: 4-Bromofluorobenzene				75-125 %	93.7	%	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E
Instrument: NT10 Analyst: RJL

Sampled: 09/16/2025 11:00

Analyzed: 09/25/2025 17:58

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BNI0442 Sample Size: 1000 mL
Prepared: 09/22/2025 Final Volume: 1 mL

Extract ID: 25I0372-01 N 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Phenol	108-95-2	5	0.5	1.0	ND	ug/L	U
bis(2-chloroethyl) ether	111-44-4	5	0.5	1.0	ND	ug/L	U
2-Chlorophenol	95-57-8	5	0.5	1.0	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	5	0.5	1.0	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	5	0.5	1.0	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	5	0.5	1.0	ND	ug/L	U
Benzyl Alcohol	100-51-6	5	0.5	1.0	ND	ug/L	U
2,2'-Oxybis(1-chloropropane)	108-60-1	5	0.5	1.0	ND	ug/L	U
2-Methylphenol	95-48-7	5	0.5	1.0	ND	ug/L	U
Hexachloroethane	67-72-1	5	0.5	1.0	ND	ug/L	U
N-Nitroso-di-n-Propylamine	621-64-7	5	0.5	1.0	ND	ug/L	U
4-Methylphenol	106-44-5	5	0.5	1.0	ND	ug/L	U
Nitrobenzene	98-95-3	5	0.5	1.0	ND	ug/L	U
Isophorone	78-59-1	5	0.5	1.0	ND	ug/L	U
2-Nitrophenol	88-75-5	5	2.5	5.0	ND	ug/L	U
2,4-Dimethylphenol	105-67-9	5	2.5	5.0	ND	ug/L	U
Bis(2-Chloroethoxy)methane	111-91-1	5	0.5	1.0	ND	ug/L	U
2,4-Dichlorophenol	120-83-2	5	2.5	5.0	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	5	0.5	1.0	ND	ug/L	U
Naphthalene	91-20-3	5	0.5	1.0	ND	ug/L	U
Benzoic acid	65-85-0	5	5.0	10.0	ND	ug/L	U
4-Chloroaniline	106-47-8	5	2.5	5.0	ND	ug/L	U
Hexachlorobutadiene	87-68-3	5	0.5	1.0	ND	ug/L	U
4-Chloro-3-Methylphenol	59-50-7	5	2.5	5.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	5	0.5	1.0	ND	ug/L	U
Hexachlorocyclopentadiene	77-47-4	5	2.5	5.0	ND	ug/L	U
2,4,6-Trichlorophenol	88-06-2	5	2.5	5.0	ND	ug/L	U
2,4,5-Trichlorophenol	95-95-4	5	2.5	5.0	ND	ug/L	U
2-Chloronaphthalene	91-58-7	5	0.5	1.0	ND	ug/L	U
2-Nitroaniline	88-74-4	5	2.5	5.0	ND	ug/L	U
Acenaphthylene	208-96-8	5	0.5	1.0	ND	ug/L	U
Dimethylphthalate	131-11-3	5	0.5	1.0	ND	ug/L	U
2,6-Dinitrotoluene	606-20-2	5	2.5	5.0	ND	ug/L	U
Acenaphthene	83-32-9	5	0.5	1.0	ND	ug/L	U
3-Nitroaniline	99-09-2	5	2.5	5.0	ND	ug/L	U
2,4-Dinitrophenol	51-28-5	5	5.0	10.0	ND	ug/L	U
Dibenzofuran	132-64-9	5	0.5	1.0	ND	ug/L	U
4-Nitrophenol	100-02-7	5	2.5	5.0	ND	ug/L	U
2,4-Dinitrotoluene	121-14-2	5	2.5	5.0	ND	ug/L	U



Mott MacDonald
1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 09/16/2025 11:00

Instrument: NT10 Analyst: RJL

Analyzed: 09/25/2025 17:58

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Fluorene	86-73-7	5	0.5	1.0	ND	ug/L	U
4-Chlorophenylphenyl ether	7005-72-3	5	0.5	1.0	ND	ug/L	U
Diethyl phthalate	84-66-2	5	0.5	1.0	ND	ug/L	U
4-Nitroaniline	100-01-6	5	2.5	5.0	ND	ug/L	U
4,6-Dinitro-2-methylphenol	534-52-1	5	5.0	10.0	ND	ug/L	U
N-Nitrosodiphenylamine	86-30-6	5	0.5	1.0	ND	ug/L	U
4-Bromophenyl phenyl ether	101-55-3	5	0.5	1.0	ND	ug/L	U
Hexachlorobenzene	118-74-1	5	0.5	1.0	ND	ug/L	U
Pentachlorophenol	87-86-5	5	2.5	5.0	ND	ug/L	U
Phenanthrene	85-01-8	5	0.5	1.0	ND	ug/L	U
Anthracene	120-12-7	5	0.5	1.0	ND	ug/L	U
Carbazole	86-74-8	5	0.5	1.0	ND	ug/L	U
Di-n-Butylphthalate	84-74-2	5	0.5	1.0	ND	ug/L	U
Fluoranthene	206-44-0	5	0.5	1.0	ND	ug/L	U
Pyrene	129-00-0	5	0.5	1.0	ND	ug/L	U
Butylbenzylphthalate	85-68-7	5	0.5	1.0	ND	ug/L	U
Benzo(a)anthracene	56-55-3	5	0.5	1.0	ND	ug/L	U
3,3'-Dichlorobenzidine	91-94-1	5	2.5	5.0	ND	ug/L	U
Chrysene	218-01-9	5	0.5	1.0	ND	ug/L	U
bis(2-Ethylhexyl)phthalate	117-81-7	5	1.0	1.0	ND	ug/L	U
Di-n-Octylphthalate	117-84-0	5	0.5	1.0	ND	ug/L	U
Benzo(a)fluoranthene, Total		5	1.0	2.0	ND	ug/L	U
Benzo(a)pyrene	50-32-8	5	0.5	1.0	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	5	1.0	1.0	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	5	0.5	1.0	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	5	0.5	1.0	ND	ug/L	U
1-Methylnaphthalene	90-12-0	5	0.5	1.0	ND	ug/L	U
2,3,4,6-Tetrachlorophenol	58-90-2	5	0.5	1.0	ND	ug/L	U
Surrogate: 2-Fluorophenol				30-160 %	76.9	%	
Surrogate: Phenol-d5				30-160 %	91.5	%	
Surrogate: 2-Chlorophenol-d4				30-160 %	87.3	%	
Surrogate: 1,2-Dichlorobenzene-d4				30-160 %	77.7	%	
Surrogate: Nitrobenzene-d5				30-160 %	84.6	%	
Surrogate: 2-Fluorobiphenyl				30-160 %	78.1	%	
Surrogate: 2,4,6-Tribromophenol				30-160 %	69.5	%	
Surrogate: p-Terphenyl-d14				30-160 %	93.3	%	



Mott MacDonald
1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM
Instrument: NT8 Analyst: JZ

Sampled: 09/16/2025 11:00

Analyzed: 09/22/2025 16:40

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BNI0407
Prepared: 09/19/2025

Sample Size: 1000 mL
Final Volume: 1 mL

Extract ID: 25I0372-01 L 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.010	0.010	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.010	0.010	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.010	0.010	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.010	0.010	ND	ug/L	U
Acenaphthene	83-32-9	1	0.010	0.010	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.010	0.010	ND	ug/L	U
Fluorene	86-73-7	1	0.005	0.010	ND	ug/L	U
Phenanthrene	85-01-8	1	0.010	0.010	ND	ug/L	U
Anthracene	120-12-7	1	0.010	0.010	ND	ug/L	U
Carbazole	86-74-8	1	0.010	0.010	ND	ug/L	U
Fluoranthene	206-44-0	1	0.010	0.010	ND	ug/L	U
Pyrene	129-00-0	1	0.010	0.010	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.010	0.010	ND	ug/L	U
Chrysene	218-01-9	1	0.010	0.010	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.010	0.010	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.010	0.010	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.010	0.010	ND	ug/L	U
# Benzofluoranthenes, Total		1	0.010	0.010	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.010	0.010	ND	ug/L	U
Perylene	198-55-0	1	0.005	0.010	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.010	0.010	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.010	0.010	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.010	0.010	ND	ug/L	U

Surrogate: 2-Methylnaphthalene-d10

42-120 % 94.7 %

Surrogate: Dibenzo[a,h]anthracene-d14

29-120 % 34.5 %

Surrogate: Fluoranthene-d10

57-120 % 89.6 %



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Chlorinated Pesticides

Method: EPA 8081B

Sampled: 09/16/2025 11:00

Instrument: ECD9 Analyst: RKT

Analyzed: 09/24/2025 12:47

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 25I0372-01 M 01

Preparation Batch: BNI0443

Sample Size: 1000 mL

Prepared: 09/22/2025

Final Volume: 1 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
alpha-BHC	319-84-6	1	0.0003	0.0006	ND	ug/L	U
beta-BHC	319-85-7	1	0.0003	0.0006	ND	ug/L	U
gamma-BHC (Lindane)	58-89-9	1	0.0003	0.0006	ND	ug/L	U
delta-BHC	319-86-8	1	0.0003	0.0006	ND	ug/L	U
Heptachlor	76-44-8	1	0.0003	0.0006	ND	ug/L	U
Aldrin	309-00-2	1	0.0003	0.0006	ND	ug/L	U
Heptachlor Epoxide	1024-57-3	1	0.0003	0.0006	ND	ug/L	U
trans-Chlordane (beta/gamma-Chlordane)	5103-74-2	1	0.0003	0.0006	ND	ug/L	U
cis-Chlordane (alpha-chlordane)	5103-71-9	1	0.0003	0.0006	ND	ug/L	U
Endosulfan I	959-98-8	1	0.0003	0.0006	ND	ug/L	U
4,4'-DDE	72-55-9	1	0.0006	0.0013	ND	ug/L	U
Endrin	72-20-8	1	0.0006	0.0013	ND	ug/L	U
Endosulfan II	33213-65-9	1	0.0006	0.0013	ND	ug/L	U
4,4'-DDD	72-54-8	1	0.0006	0.0013	ND	ug/L	U
Endrin Aldehyde	7421-93-4	1	0.0006	0.0013	ND	ug/L	U
4,4'-DDT	50-29-3	1	0.0006	0.0013	ND	ug/L	U
Endosulfan Sulfate	1031-07-8	1	0.0006	0.0013	ND	ug/L	U
Endrin Ketone	53494-70-5	1	0.0006	0.0013	ND	ug/L	U
Methoxychlor	72-43-5	1	0.0031	0.0063	ND	ug/L	U
Hexachlorobutadiene	87-68-3	1	0.0006	0.0013	ND	ug/L	U
Hexachlorobenzene	118-74-1	1	0.0006	0.0013	ND	ug/L	U
Oxychlordane	27304-13-8	1	0.0013	0.0013	ND	ug/L	U
# Chlordane (NOS)	57-74-9	1	0.0050	0.0050	ND	ug/L	U
Surrogate: Decachlorobiphenyl				30-160 %	30.9	%	P1
Surrogate: Decachlorobiphenyl [2C]				30-160 %	56.7	%	P1
Surrogate: Tetrachlorometaxylene				30-160 %	71.0	%	
Surrogate: Tetrachlorometaxylene [2C]				30-160 %	57.0	%	



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Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Dioxins/Furans

Method: EPA 1613B			Sampled: 09/16/2025 11:00		
Instrument: AUTOSPEC01 Analyst: jgr			Analyzed: 10/29/2025 21:51		
Sample Preparation:	Preparation Method: EPA 1613			Extract ID: 25I0372-01 R 01	
	Preparation Batch: BNJ0043	Sample Size: 1048 mL			
	Prepared: 10/03/2025	Final Volume: 20 uL			
Sample Cleanup:	Cleanup Method: Silica Gel			Extract ID: 25I0372-01 R 01	
	Cleanup Batch: CNJ0028	Initial Volume: 20 uL			
	Cleaned: 06-Oct-2025	Final Volume: 20 uL			
Sample Cleanup:	Cleanup Method: Florisil			Extract ID: 25I0372-01 R 01	
	Cleanup Batch: CNJ0027	Initial Volume: 20 uL			
	Cleaned: 06-Oct-2025	Final Volume: 20 uL			

Analyte	DF/Split	Ion Ratio	Ratio Limits	Reporting		Result	Units	Notes
				EDL	Limit			
2,3,7,8-TCDF			0.655-0.886	0.22	9.54	ND	pg/L	U
2,3,7,8-TCDD			0.655-0.886	1.23	9.54	ND	pg/L	U
1,2,3,7,8-PeCDF			1.318-1.783	0.10	9.54	ND	pg/L	U
2,3,4,7,8-PeCDF			1.318-1.783	0.99	9.54	ND	pg/L	U
1,2,3,7,8-PeCDD			1.318-1.783	1.09	9.54	ND	pg/L	U
1,2,3,4,7,8-HxCDF			1.054-1.426	0.14	9.54	ND	pg/L	U
1,2,3,6,7,8-HxCDF			1.054-1.426	0.15	9.54	ND	pg/L	U
2,3,4,6,7,8-HxCDF			1.054-1.426	0.14	9.54	ND	pg/L	U
1,2,3,7,8,9-HxCDF			1.054-1.426	0.20	9.54	ND	pg/L	U
1,2,3,4,7,8-HxCDD			1.054-1.426	0.14	9.54	ND	pg/L	U
1,2,3,6,7,8-HxCDD			1.054-1.426	0.14	9.54	ND	pg/L	U
1,2,3,7,8,9-HxCDD			1.054-1.426	0.15	9.54	ND	pg/L	U
1,2,3,4,6,7,8-HpCDF			0.893-1.208	0.02	19.1	ND	pg/L	U
1,2,3,4,7,8,9-HpCDF			0.893-1.208	0.02	9.54	ND	pg/L	U
1,2,3,4,6,7,8-HpCDD			0.893-1.208	0.02	9.54	ND	pg/L	U
OCDF			0.757-1.024	0.002	19.1	ND	pg/L	U
OCDD		1.104	0.757-1.024		47.7	5.66	pg/L	EMPC, J, B
Homologue groups								
Total TCDF					9.54	ND	pg/L	U
Total TCDD					9.54	ND	pg/L	U
Total PeCDF					9.54	ND	pg/L	U
Total PeCDD					9.54	ND	pg/L	U
Total HxCDF					9.54	ND	pg/L	U
Total HxCDD					9.54	ND	pg/L	U
Total HpCDF					9.54	ND	pg/L	U
Total HpCDD					9.54	ND	pg/L	U

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 1.38
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.00
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, EMPC = ND): 1.38
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, EMPC = ND): 0.00



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Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Dioxins/Furans

Method: EPA 1613B

Sampled: 09/16/2025 11:00

Instrument: AUTOSPEC01 Analyst: jgr

Analyzed: 10/29/2025 21:51

Analyte	DF/Split	Ion Ratio	Ratio Limits	Reporting Limit	Result	Units	Notes
Labeled compounds							
13C12-2,3,7,8-TCDF		0.780	0.655-0.886	24-169 %	61.7	%	
13C12-2,3,7,8-TCDD		0.742	0.655-0.886	25-164 %	90.2	%	
13C12-1,2,3,7,8-PeCDF		1.632	1.318-1.783	24-185 %	75.2	%	
13C12-2,3,4,7,8-PeCDF		1.621	1.318-1.783	21-178 %	69.8	%	
13C12-1,2,3,7,8-PeCDD		1.712	1.318-1.783	25-181 %	76.3	%	
13C12-1,2,3,4,7,8-HxCDF		0.530	0.434-0.587	26-152 %	64.4	%	
13C12-1,2,3,6,7,8-HxCDF		0.534	0.434-0.587	26-123 %	60.9	%	
13C12-2,3,4,6,7,8-HxCDF		0.529	0.434-0.587	28-136 %	58.3	%	
13C12-1,2,3,7,8,9-HxCDF		0.572	0.434-0.587	29-147 %	60.9	%	
13C12-1,2,3,4,7,8-HxCDD		1.273	1.054-1.426	32-141 %	77.7	%	
13C12-1,2,3,6,7,8-HxCDD		1.176	1.054-1.426	28-130 %	73.4	%	
13C12-1,2,3,4,6,7,8-HpCDF		0.453	0.374-0.506	28-143 %	56.6	%	
13C12-1,2,3,4,7,8,9-HpCDF		0.424	0.374-0.506	26-138 %	57.3	%	
13C12-1,2,3,4,6,7,8-HpCDD		0.986	0.893-1.208	23-140 %	76.8	%	
13C12-OCDD		0.887	0.757-1.024	17-157 %	74.0	%	
37Cl4-2,3,7,8-TCDD				35-197 %	83.7	%	



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Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Dioxins/Furans

Method: EPA 1613B
Instrument: AUTOSPEC01 Analyst: jgr

Sampled: 09/16/2025 11:00
Analyzed: 10/29/2025 21:51

SMW-5d
25I0372-01 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 09/16/2025 11:00
Analyzed: 09/30/2025 16:46

Sample Preparation: Preparation Method: WMN (No Prep)
Preparation Batch: BNI0556 Sample Size: 25 mL
Prepared: 09/25/2025 Final Volume: 25 mL

Extract ID: 25I0372-01 S 02

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Cobalt, Dissolved	7440-48-4	1	0.0025	0.0050	ND	mg/L	U
Iron, Dissolved	7439-89-6	1	0.0540	0.100	ND	mg/L	U
Magnesium, Dissolved	7439-95-4	1	0.0250	0.0500	6.98	mg/L	
Manganese, Dissolved	7439-96-5	1	0.0020	0.0040	0.0029	mg/L	J
Potassium, Dissolved	7440-09-7	1	0.250	0.500	5.16	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	19.9	mg/L	
Vanadium, Dissolved	7440-62-2	1	0.0015	0.0030	0.0198	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B
Instrument: ICPMS1 Analyst: HAL
Sample Preparation: Preparation Method: REN - EPA 3010A M
Preparation Batch: BNI0566
Prepared: 09/26/2025
Sample Size: 25 mL
Final Volume: 25 mL
Extract ID: 25I0372-01 S 02
Sampled: 09/16/2025 11:00
Analyzed: 09/26/2025 19:34

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Antimony, Dissolved	7440-36-0	1	0.150	0.200	0.197	ug/L	J
Arsenic UCT, Dissolved	7440-38-2	1	0.100	0.200	8.49	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	17.1	ug/L	
Beryllium, Dissolved	7440-41-7	1	0.100	0.200	ND	ug/L	U
Cadmium UCT, Dissolved	7440-43-9	1	0.0500	0.100	ND	ug/L	U
Copper UCT, Dissolved	7440-50-8	1	0.200	0.500	ND	ug/L	U
Lead, Dissolved	7439-92-1	1	0.100	0.200	ND	ug/L	U
Nickel UCT, Dissolved	7440-02-0	1	0.250	0.500	0.502	ug/L	
Selenium UCT, Dissolved	7782-49-2	1	0.500	1.00	ND	ug/L	U
Silver, Dissolved	7440-22-4	1	0.100	0.200	ND	ug/L	U
Thallium, Dissolved	7440-28-0	1	0.100	0.200	ND	ug/L	U
Zinc UCT, Dissolved	7440-66-6	1	3.00	6.00	ND	ug/L	U



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Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A	Sampled: 09/16/2025 11:00
Instrument: HYDRA Analyst: ML	Analyzed: 10/01/2025 15:19
Sample Preparation:	Preparation Method: TWM EPA 7470A
	Preparation Batch: BNI0557
	Prepared: 09/25/2025
	Sample Size: 20 mL
	Final Volume: 20 mL
	Extract ID: 25I0372-01 S 01
	Filtration Batch: BNI0391
	Filtration Date: 09/18/2025 14:35

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Mercury, Dissolved	7439-97-6	1	0.000013	0.000100	0.000024	mg/L	J



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Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 09/16/2025 11:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 09/18/2025 17:41

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-01 H

Preparation Batch: BNI0399

Sample Size: 10 mL

Prepared: 09/18/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
# Chloride	16887-00-6	1	1.00	1.00	4.09	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 09/16/2025 11:00

Instrument: [CALC] Analyst: CRB

Analyzed: 09/22/2025 16:49

Sample Preparation:

Preparation Method: [CALC]

Extract ID: 25I0372-01

Preparation Batch: [CALC]

Prepared: 09/22/2025

Final Volume: 1

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.0200	ND	mg/L	U, H



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Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 09/16/2025 11:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 09/18/2025 14:51

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-01 H

Preparation Batch: BNI0389

Sample Size: 10 mL

Prepared: 09/18/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrite-N	14797-65-0	1	0.010	0.010	ND	mg/L	H, U



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Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 09/16/2025 11:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 09/22/2025 16:49

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-01 K

Preparation Batch: BNI0460

Sample Size: 10 mL

Prepared: 09/22/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate + Nitrite as N		1	0.010	0.010	ND	mg/L	U



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Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 09/16/2025 11:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 10/06/2025 15:49

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-01 G

Preparation Batch: BNJ0027

Sample Size: 10 mL

Prepared: 10/01/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	1	2.00	2.00	23.2	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Wet Chemistry

Method: EPA 410.4

Sampled: 09/16/2025 11:00

Instrument: UV1800-1 Analyst: KOTT

Analyzed: 10/01/2025 11:59

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-01 K

Preparation Batch: BNI0642

Sample Size: 2 mL

Prepared: 09/30/2025

Final Volume: 2 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
COD		1	10.0	10.0	ND	mg/L	U



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Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Wet Chemistry

Method: EPA 9060A

Sampled: 09/16/2025 11:00

Instrument: TOC-LCSH Analyst: RMS

Analyzed: 10/05/2025 16:51

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-01 K

Preparation Batch: BNJ0001

Sample Size: 20 mL

Prepared: 10/05/2025

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	4.06	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Wet Chemistry

Method: SM 2320 B-11

Sampled: 09/16/2025 11:00

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 09/19/2025 12:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-01 F

Preparation Batch: BNI0401

Sample Size: 100 mL

Prepared: 09/18/2025

Final Volume: 100 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Bicarbonate		1	1.00	1.00	115	mg/L CaCO ₃	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Carbonate		1	1.00	1.00	ND	mg/L CaCO ₃	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Total		1	1.00	1.00	115	mg/L CaCO ₃	



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Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Wet Chemistry

Method: SM 2540 C-11

Sampled: 09/16/2025 11:00

Instrument: BAL2 Analyst: RAL

Analyzed: 09/19/2025 08:56

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-01

Preparation Batch: BNI0408

Sample Size: 200 mL

Prepared: 09/19/2025

Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	5	5	203	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Wet Chemistry

Method: SM 2540 D-11

Sampled: 09/16/2025 11:00

Instrument: BAL2 Analyst: RAL

Analyzed: 09/23/2025 10:09

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-01

Preparation Batch: BNI0475

Sample Size: 1000 mL

Prepared: 09/23/2025

Final Volume: 1000 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Suspended Solids		1	1	1	1	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01 (Water)

Wet Chemistry

Method: SM 4500-NH3 H-11
Instrument: LACHAT1 Analyst: GJD

Sampled: 09/16/2025 11:00

Analyzed: 10/02/2025 18:13

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BNJ0026 Sample Size: 10 mL
Prepared: 10/02/2025 Final Volume: 10 mL
Extract ID: 25I0372-01 K

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Ammonia-N	7664-41-7	1	0.040	0.040	ND	mg/L	U



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Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D	Sampled: 09/16/2025 11:00
Instrument: ICP3 Analyst: SH	Analyzed: 10/03/2025 21:47
Sample Preparation:	Preparation Method: WMN (No Prep)
	Preparation Batch: BNI0556
	Prepared: 09/25/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25I0372-01RE1 S 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	25.0	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-5d
25I0372-01RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B		Sampled: 09/16/2025 11:00
Instrument: ICPMS1 Analyst: HAL		Analyzed: 09/29/2025 19:21
Sample Preparation:	Preparation Method: REN - EPA 3010A M	Extract ID: 25I0372-01RE1 S 02
	Preparation Batch: BNI0566	Sample Size: 25 mL
	Prepared: 09/26/2025	Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chromium, Dissolved	7440-47-3	5	1.88	2.50	ND	ug/L	U



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT20 Analyst: LTN

Sampled: 09/16/2025 16:00

Analyzed: 09/22/2025 13:55

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNI0453 Sample Size: 10 mL
Prepared: 09/22/2025 Final Volume: 10 mL

Extract ID: 25I0372-02 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloromethane	74-87-3	1	0.50	0.50	ND	ug/L	U
Vinyl Chloride	75-01-4	1	0.10	0.20	ND	ug/L	U
Bromomethane	74-83-9	1	1.00	1.00	ND	ug/L	U
Chloroethane	75-00-3	1	0.20	0.20	ND	ug/L	U
Trichlorofluoromethane	75-69-4	1	0.20	0.20	ND	ug/L	U
Acrolein	107-02-8	1	5.00	5.00	ND	ug/L	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	1	0.20	0.20	0.67	ug/L	
Acetone	67-64-1	1	5.00	5.00	ND	ug/L	U
1,1-Dichloroethene	75-35-4	1	0.10	0.20	ND	ug/L	U
Iodomethane	74-88-4	1	0.50	1.00	ND	ug/L	U
Methylene Chloride	75-09-2	1	1.00	1.00	ND	ug/L	U
Acrylonitrile	107-13-1	1	0.50	1.00	ND	ug/L	U
Carbon Disulfide	75-15-0	1	0.20	0.20	ND	ug/L	U
trans-1,2-Dichloroethene	156-60-5	1	0.10	0.20	ND	ug/L	U
Vinyl Acetate	108-05-4	1	0.20	0.20	ND	ug/L	U
1,1-Dichloroethane	75-34-3	1	0.10	0.20	ND	ug/L	U
2-Butanone	78-93-3	1	2.50	5.00	ND	ug/L	U
2,2-Dichloropropane	594-20-7	1	0.20	0.20	ND	ug/L	U
cis-1,2-Dichloroethene	156-59-2	1	0.10	0.20	ND	ug/L	U
Chloroform	67-66-3	1	0.10	0.20	ND	ug/L	U
Bromochloromethane	74-97-5	1	0.10	0.20	ND	ug/L	U
1,1,1-Trichloroethane	71-55-6	1	0.10	0.20	ND	ug/L	U
1,1-Dichloropropene	563-58-6	1	0.10	0.20	ND	ug/L	U
Carbon tetrachloride	56-23-5	1	0.10	0.20	ND	ug/L	U
1,2-Dichloroethane	107-06-2	1	0.10	0.20	ND	ug/L	U
Benzene	71-43-2	1	0.10	0.20	ND	ug/L	U
Trichloroethene	79-01-6	1	0.10	0.20	ND	ug/L	U
1,2-Dichloropropane	78-87-5	1	0.10	0.20	ND	ug/L	U
Bromodichloromethane	75-27-4	1	0.10	0.20	ND	ug/L	U
Dibromomethane	74-95-3	1	0.10	0.20	ND	ug/L	U
2-Chloroethyl vinyl ether	110-75-8	1	1.00	1.00	ND	ug/L	U
4-Methyl-2-Pentanone	108-10-1	1	2.50	5.00	ND	ug/L	U
cis-1,3-Dichloropropene	10061-01-5	1	0.10	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.10	0.20	ND	ug/L	U
trans-1,3-Dichloropropene	10061-02-6	1	0.10	0.20	ND	ug/L	U
2-Hexanone	591-78-6	1	2.50	5.00	ND	ug/L	U
1,1,2-Trichloroethane	79-00-5	1	0.20	0.20	ND	ug/L	U
1,3-Dichloropropane	142-28-9	1	0.10	0.20	ND	ug/L	U
Tetrachloroethene	127-18-4	1	0.10	0.20	1.05	ug/L	



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Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 09/16/2025 16:00

Instrument: NT20 Analyst: LTN

Analyzed: 09/22/2025 13:55

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dibromochloromethane	124-48-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromoethane	106-93-4	1	0.10	0.20	ND	ug/L	U
Chlorobenzene	108-90-7	1	0.10	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.10	0.20	ND	ug/L	U
1,1,1,2-Tetrachloroethane	630-20-6	1	0.10	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.20	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.10	0.20	ND	ug/L	U
Xylenes, total	1330-20-7	1	0.30	0.60	ND	ug/L	U
Styrene	100-42-5	1	0.10	0.20	ND	ug/L	U
Bromoform	75-25-2	1	0.20	0.20	ND	ug/L	U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.20	0.20	ND	ug/L	U
1,2,3-Trichloropropane	96-18-4	1	0.25	0.50	ND	ug/L	U
trans-1,4-Dichloro 2-Butene	110-57-6	1	1.00	1.00	ND	ug/L	U
n-Propylbenzene	103-65-1	1	0.10	0.20	ND	ug/L	U
Bromobenzene	108-86-1	1	0.10	0.20	ND	ug/L	U
Isopropyl Benzene	98-82-8	1	0.10	0.20	ND	ug/L	U
2-Chlorotoluene	95-49-8	1	0.10	0.20	ND	ug/L	U
4-Chlorotoluene	106-43-4	1	0.10	0.20	ND	ug/L	U
t-Butylbenzene	98-06-6	1	0.10	0.20	ND	ug/L	U
1,3,5-Trimethylbenzene	108-67-8	1	0.10	0.20	ND	ug/L	U
1,2,4-Trimethylbenzene	95-63-6	1	0.10	0.20	ND	ug/L	U
s-Butylbenzene	135-98-8	1	0.10	0.20	ND	ug/L	U
4-Isopropyl Toluene	99-87-6	1	0.10	0.20	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	1	0.10	0.20	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	1	0.20	0.20	ND	ug/L	U
n-Butylbenzene	104-51-8	1	0.20	0.20	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromo-3-chloropropane	96-12-8	1	0.50	0.50	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	1	0.25	0.50	ND	ug/L	U
Hexachloro-1,3-Butadiene	87-68-3	1	0.50	0.50	ND	ug/L	U
Naphthalene	91-20-3	1	0.50	0.50	ND	ug/L	U
1,2,3-Trichlorobenzene	87-61-6	1	0.50	0.50	ND	ug/L	U
Dichlorodifluoromethane	75-71-8	1	0.20	0.20	ND	ug/L	U
Methyl tert-butyl Ether	1634-04-4	1	0.25	0.50	ND	ug/L	U
2-Pentanone	107-87-9	1	2.50	5.00	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	92.7	%	
Surrogate: Toluene-d8				80-120 %	98.5	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	99.2	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	99.7	%	



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Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260D-SIM

Sampled: 09/16/2025 16:00

Instrument: NT16 Analyst: LTN

Analyzed: 09/24/2025 10:48

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25I0372-02 B

Preparation Batch: BNI0497

Sample Size: 10 mL

Prepared: 09/24/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl chloride	75-01-4	1	10.0	20.0	ND	ng/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	93.3	%	
Surrogate: Toluene-d8				80-120 %	98.7	%	
Surrogate: 4-Bromofluorobenzene				75-125 %	94.7	%	



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E
Instrument: NT10 Analyst: RJL

Sampled: 09/16/2025 16:00

Analyzed: 09/25/2025 18:36

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BNI0442 Sample Size: 1000 mL
Prepared: 09/22/2025 Final Volume: 1 mL

Extract ID: 25I0372-02 N 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Phenol	108-95-2	5	0.5	1.0	ND	ug/L	U
bis(2-chloroethyl) ether	111-44-4	5	0.5	1.0	ND	ug/L	U
2-Chlorophenol	95-57-8	5	0.5	1.0	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	5	0.5	1.0	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	5	0.5	1.0	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	5	0.5	1.0	ND	ug/L	U
Benzyl Alcohol	100-51-6	5	0.5	1.0	ND	ug/L	U
2,2'-Oxybis(1-chloropropane)	108-60-1	5	0.5	1.0	ND	ug/L	U
2-Methylphenol	95-48-7	5	0.5	1.0	ND	ug/L	U
Hexachloroethane	67-72-1	5	0.5	1.0	ND	ug/L	U
N-Nitroso-di-n-Propylamine	621-64-7	5	0.5	1.0	ND	ug/L	U
4-Methylphenol	106-44-5	5	0.5	1.0	ND	ug/L	U
Nitrobenzene	98-95-3	5	0.5	1.0	ND	ug/L	U
Isophorone	78-59-1	5	0.5	1.0	ND	ug/L	U
2-Nitrophenol	88-75-5	5	2.5	5.0	ND	ug/L	U
2,4-Dimethylphenol	105-67-9	5	2.5	5.0	ND	ug/L	U
Bis(2-Chloroethoxy)methane	111-91-1	5	0.5	1.0	ND	ug/L	U
2,4-Dichlorophenol	120-83-2	5	2.5	5.0	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	5	0.5	1.0	ND	ug/L	U
Naphthalene	91-20-3	5	0.5	1.0	ND	ug/L	U
Benzoic acid	65-85-0	5	5.0	10.0	ND	ug/L	U
4-Chloroaniline	106-47-8	5	2.5	5.0	ND	ug/L	U
Hexachlorobutadiene	87-68-3	5	0.5	1.0	ND	ug/L	U
4-Chloro-3-Methylphenol	59-50-7	5	2.5	5.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	5	0.5	1.0	ND	ug/L	U
Hexachlorocyclopentadiene	77-47-4	5	2.5	5.0	ND	ug/L	U
2,4,6-Trichlorophenol	88-06-2	5	2.5	5.0	ND	ug/L	U
2,4,5-Trichlorophenol	95-95-4	5	2.5	5.0	ND	ug/L	U
2-Chloronaphthalene	91-58-7	5	0.5	1.0	ND	ug/L	U
2-Nitroaniline	88-74-4	5	2.5	5.0	ND	ug/L	U
Acenaphthylene	208-96-8	5	0.5	1.0	ND	ug/L	U
Dimethylphthalate	131-11-3	5	0.5	1.0	ND	ug/L	U
2,6-Dinitrotoluene	606-20-2	5	2.5	5.0	ND	ug/L	U
Acenaphthene	83-32-9	5	0.5	1.0	ND	ug/L	U
3-Nitroaniline	99-09-2	5	2.5	5.0	ND	ug/L	U
2,4-Dinitrophenol	51-28-5	5	5.0	10.0	ND	ug/L	U
Dibenzofuran	132-64-9	5	0.5	1.0	ND	ug/L	U
4-Nitrophenol	100-02-7	5	2.5	5.0	ND	ug/L	U
2,4-Dinitrotoluene	121-14-2	5	2.5	5.0	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 09/16/2025 16:00

Instrument: NT10 Analyst: RJL

Analyzed: 09/25/2025 18:36

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Fluorene	86-73-7	5	0.5	1.0	ND	ug/L	U
4-Chlorophenylphenyl ether	7005-72-3	5	0.5	1.0	ND	ug/L	U
Diethyl phthalate	84-66-2	5	0.5	1.0	ND	ug/L	U
4-Nitroaniline	100-01-6	5	2.5	5.0	ND	ug/L	U
4,6-Dinitro-2-methylphenol	534-52-1	5	5.0	10.0	ND	ug/L	U
N-Nitrosodiphenylamine	86-30-6	5	0.5	1.0	ND	ug/L	U
4-Bromophenyl phenyl ether	101-55-3	5	0.5	1.0	ND	ug/L	U
Hexachlorobenzene	118-74-1	5	0.5	1.0	ND	ug/L	U
Pentachlorophenol	87-86-5	5	2.5	5.0	ND	ug/L	U
Phenanthrene	85-01-8	5	0.5	1.0	ND	ug/L	U
Anthracene	120-12-7	5	0.5	1.0	ND	ug/L	U
Carbazole	86-74-8	5	0.5	1.0	ND	ug/L	U
Di-n-Butylphthalate	84-74-2	5	0.5	1.0	ND	ug/L	U
Fluoranthene	206-44-0	5	0.5	1.0	ND	ug/L	U
Pyrene	129-00-0	5	0.5	1.0	ND	ug/L	U
Butylbenzylphthalate	85-68-7	5	0.5	1.0	ND	ug/L	U
Benzo(a)anthracene	56-55-3	5	0.5	1.0	ND	ug/L	U
3,3'-Dichlorobenzidine	91-94-1	5	2.5	5.0	ND	ug/L	U
Chrysene	218-01-9	5	0.5	1.0	ND	ug/L	U
bis(2-Ethylhexyl)phthalate	117-81-7	5	1.0	1.0	ND	ug/L	U
Di-n-Octylphthalate	117-84-0	5	0.5	1.0	ND	ug/L	U
Benzo(a)fluoranthene, Total		5	1.0	2.0	ND	ug/L	U
Benzo(a)pyrene	50-32-8	5	0.5	1.0	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	5	1.0	1.0	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	5	0.5	1.0	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	5	0.5	1.0	ND	ug/L	U
1-Methylnaphthalene	90-12-0	5	0.5	1.0	ND	ug/L	U
2,3,4,6-Tetrachlorophenol	58-90-2	5	0.5	1.0	ND	ug/L	U
Surrogate: 2-Fluorophenol				30-160 %	74.8	%	
Surrogate: Phenol-d5				30-160 %	88.6	%	
Surrogate: 2-Chlorophenol-d4				30-160 %	85.0	%	
Surrogate: 1,2-Dichlorobenzene-d4				30-160 %	69.8	%	
Surrogate: Nitrobenzene-d5				30-160 %	88.9	%	
Surrogate: 2-Fluorobiphenyl				30-160 %	76.4	%	
Surrogate: 2,4,6-Tribromophenol				30-160 %	70.5	%	
Surrogate: p-Terphenyl-d14				30-160 %	85.8	%	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM
Instrument: NT8 Analyst: JZ

Sampled: 09/16/2025 16:00

Analyzed: 09/22/2025 17:12

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BNI0407
Prepared: 09/19/2025

Sample Size: 1000 mL
Final Volume: 1 mL

Extract ID: 25I0372-02 L 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.010	0.010	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.010	0.010	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.010	0.010	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.010	0.010	ND	ug/L	U
Acenaphthene	83-32-9	1	0.010	0.010	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.010	0.010	ND	ug/L	U
Fluorene	86-73-7	1	0.005	0.010	ND	ug/L	U
Phenanthrene	85-01-8	1	0.010	0.010	ND	ug/L	U
Anthracene	120-12-7	1	0.010	0.010	ND	ug/L	U
Carbazole	86-74-8	1	0.010	0.010	ND	ug/L	U
Fluoranthene	206-44-0	1	0.010	0.010	ND	ug/L	U
Pyrene	129-00-0	1	0.010	0.010	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.010	0.010	ND	ug/L	U
Chrysene	218-01-9	1	0.010	0.010	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.010	0.010	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.010	0.010	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.010	0.010	ND	ug/L	U
# Benzofluoranthenes, Total		1	0.010	0.010	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.010	0.010	ND	ug/L	U
Perylene	198-55-0	1	0.005	0.010	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.010	0.010	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.010	0.010	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.010	0.010	ND	ug/L	U

Surrogate: 2-Methylnaphthalene-d10

42-120 % 87.4 %

Surrogate: Dibenzo[a,h]anthracene-d14

29-120 % 73.3 %

Surrogate: Fluoranthene-d10

57-120 % 79.8 %



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Chlorinated Pesticides

Method: EPA 8081B
Instrument: ECD9 Analyst: RKT

Sampled: 09/16/2025 16:00

Analyzed: 09/24/2025 13:02

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BNI0443
Prepared: 09/22/2025

Sample Size: 1000 mL
Final Volume: 1 mL

Extract ID: 25I0372-02 M 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
alpha-BHC	319-84-6	1	0.0003	0.0006	ND	ug/L	U
beta-BHC	319-85-7	1	0.0003	0.0006	ND	ug/L	U
gamma-BHC (Lindane)	58-89-9	1	0.0003	0.0006	ND	ug/L	U
delta-BHC	319-86-8	1	0.0003	0.0006	ND	ug/L	U
Heptachlor	76-44-8	1	0.0003	0.0006	ND	ug/L	U
Aldrin	309-00-2	1	0.0003	0.0006	ND	ug/L	U
Heptachlor Epoxide	1024-57-3	1	0.0003	0.0006	ND	ug/L	U
trans-Chlordane (beta/gamma-Chlordane)	5103-74-2	1	0.0003	0.0006	ND	ug/L	U
cis-Chlordane (alpha-chlordane)	5103-71-9	1	0.0003	0.0006	ND	ug/L	U
Endosulfan I	959-98-8	1	0.0003	0.0006	ND	ug/L	U
4,4'-DDE	72-55-9	1	0.0006	0.0013	ND	ug/L	U
Endrin	72-20-8	1	0.0006	0.0013	ND	ug/L	U
Endosulfan II	33213-65-9	1	0.0006	0.0013	ND	ug/L	U
4,4'-DDD	72-54-8	1	0.0006	0.0013	ND	ug/L	U
Endrin Aldehyde	7421-93-4	1	0.0006	0.0013	ND	ug/L	U
4,4'-DDT	50-29-3	1	0.0006	0.0013	ND	ug/L	U
Endosulfan Sulfate	1031-07-8	1	0.0006	0.0013	ND	ug/L	U
Endrin Ketone	53494-70-5	1	0.0006	0.0013	ND	ug/L	U
Methoxychlor	72-43-5	1	0.0031	0.0063	ND	ug/L	U
Hexachlorobutadiene	87-68-3	1	0.0006	0.0013	ND	ug/L	U
Hexachlorobenzene	118-74-1	1	0.0006	0.0013	ND	ug/L	U
Oxychlordane	27304-13-8	1	0.0013	0.0013	ND	ug/L	U
# Chlordane (NOS)	57-74-9	1	0.0050	0.0050	ND	ug/L	U

Surrogate: Decachlorobiphenyl	30-160 %	55.2	%
Surrogate: Decachlorobiphenyl [2C]	30-160 %	71.0	%
Surrogate: Tetrachlorometaxylene	30-160 %	63.0	%
Surrogate: Tetrachlorometaxylene [2C]	30-160 %	54.4	%



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Dioxins/Furans

Method: EPA 1613B			Sampled: 09/16/2025 16:00		
Instrument: AUTOSPEC01 Analyst: jgr			Analyzed: 10/29/2025 22:41		
Sample Preparation:	Preparation Method: EPA 1613			Extract ID: 25I0372-02 O 01	
	Preparation Batch: BNJ0043	Sample Size: 1000 mL			
	Prepared: 10/03/2025	Final Volume: 20 uL			
Sample Cleanup:	Cleanup Method: Silica Gel			Extract ID: 25I0372-02 O 01	
	Cleanup Batch: CNJ0028	Initial Volume: 20 uL			
	Cleaned: 06-Oct-2025	Final Volume: 20 uL			
Sample Cleanup:	Cleanup Method: Florisil			Extract ID: 25I0372-02 O 01	
	Cleanup Batch: CNJ0027	Initial Volume: 20 uL			
	Cleaned: 06-Oct-2025	Final Volume: 20 uL			

Analyte	DF/Split	Ion Ratio	Ratio Limits	Reporting		Result	Units	Notes
				EDL	Limit			
2,3,7,8-TCDF			0.655-0.886	0.29	10.0	ND	pg/L	U
2,3,7,8-TCDD			0.655-0.886	1.30	10.0	ND	pg/L	U
1,2,3,7,8-PeCDF			1.318-1.783	0.12	10.0	ND	pg/L	U
2,3,4,7,8-PeCDF			1.318-1.783	1.31	10.0	ND	pg/L	U
1,2,3,7,8-PeCDD			1.318-1.783	0.93	10.0	ND	pg/L	U
1,2,3,4,7,8-HxCDF			1.054-1.426	0.11	10.0	ND	pg/L	U
1,2,3,6,7,8-HxCDF			1.054-1.426	0.11	10.0	ND	pg/L	U
2,3,4,6,7,8-HxCDF			1.054-1.426	0.12	10.0	ND	pg/L	U
1,2,3,7,8,9-HxCDF			1.054-1.426	0.15	10.0	ND	pg/L	U
1,2,3,4,7,8-HxCDD			1.054-1.426	0.13	10.0	ND	pg/L	U
1,2,3,6,7,8-HxCDD			1.054-1.426	0.14	10.0	ND	pg/L	U
1,2,3,7,8,9-HxCDD			1.054-1.426	0.15	10.0	ND	pg/L	U
1,2,3,4,6,7,8-HpCDF			0.893-1.208	0.01	20.0	ND	pg/L	U
1,2,3,4,7,8,9-HpCDF			0.893-1.208	0.02	10.0	ND	pg/L	U
1,2,3,4,6,7,8-HpCDD			0.893-1.208	0.02	10.0	ND	pg/L	U
OCDF			0.757-1.024	0.003	20.0	ND	pg/L	U
OCDD		0.798	0.757-1.024		50.0	13.3	pg/L	J, B

Homologue groups

Total TCDF					10.0	ND	pg/L	U
Total TCDD					10.0	ND	pg/L	U
Total PeCDF					10.0	ND	pg/L	U
Total PeCDD					10.0	ND	pg/L	U
Total HxCDF					10.0	ND	pg/L	U
Total HxCDD					10.0	ND	pg/L	U
Total HpCDF					10.0	ND	pg/L	U
Total HpCDD					10.0	ND	pg/L	U

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 1.38
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.00
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, EMPC = ND): 1.38
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, EMPC = ND): 0.00



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Dioxins/Furans

Method: EPA 1613B

Sampled: 09/16/2025 16:00

Instrument: AUTOSPEC01 Analyst: jgr

Analyzed: 10/29/2025 22:41

Analyte	DF/Split	Ion Ratio	Ratio Limits	Reporting Limit	Result	Units	Notes
Labeled compounds							
13C12-2,3,7,8-TCDF		0.789	0.655-0.886	24-169 %	42.2	%	
13C12-2,3,7,8-TCDD		0.761	0.655-0.886	25-164 %	64.0	%	
13C12-1,2,3,7,8-PeCDF		1.545	1.318-1.783	24-185 %	52.0	%	
13C12-2,3,4,7,8-PeCDF		1.559	1.318-1.783	21-178 %	48.6	%	
13C12-1,2,3,7,8-PeCDD		1.674	1.318-1.783	25-181 %	52.8	%	
13C12-1,2,3,4,7,8-HxCDF		0.530	0.434-0.587	26-152 %	51.9	%	
13C12-1,2,3,6,7,8-HxCDF		0.524	0.434-0.587	26-123 %	48.3	%	
13C12-2,3,4,6,7,8-HxCDF		0.548	0.434-0.587	28-136 %	43.9	%	
13C12-1,2,3,7,8,9-HxCDF		0.504	0.434-0.587	29-147 %	48.5	%	
13C12-1,2,3,4,7,8-HxCDD		1.234	1.054-1.426	32-141 %	54.8	%	
13C12-1,2,3,6,7,8-HxCDD		1.195	1.054-1.426	28-130 %	50.5	%	
13C12-1,2,3,4,6,7,8-HpCDF		0.403	0.374-0.506	28-143 %	42.2	%	
13C12-1,2,3,4,7,8,9-HpCDF		0.474	0.374-0.506	26-138 %	38.9	%	
13C12-1,2,3,4,6,7,8-HpCDD		1.037	0.893-1.208	23-140 %	51.3	%	
13C12-OCDD		0.890	0.757-1.024	17-157 %	58.8	%	
37Cl4-2,3,7,8-TCDD				35-197 %	60.1	%	



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Dioxins/Furans

Method: EPA 1613B
Instrument: AUTOSPEC01 Analyst: jgr

Sampled: 09/16/2025 16:00
Analyzed: 10/29/2025 22:41

SMW-5s
25I0372-02 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 09/16/2025 16:00
Analyzed: 09/30/2025 16:43

Sample Preparation: Preparation Method: WMN (No Prep)
Preparation Batch: BNI0556 Sample Size: 25 mL
Prepared: 09/25/2025 Final Volume: 25 mL

Extract ID: 25I0372-02 T 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Cobalt, Dissolved	7440-48-4	1	0.0025	0.0050	0.0159	mg/L	
Iron, Dissolved	7439-89-6	1	0.0540	0.100	ND	mg/L	U
Magnesium, Dissolved	7439-95-4	1	0.0250	0.0500	12.1	mg/L	
Manganese, Dissolved	7439-96-5	1	0.0020	0.0040	0.212	mg/L	
Potassium, Dissolved	7440-09-7	1	0.250	0.500	3.83	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	19.5	mg/L	
Vanadium, Dissolved	7440-62-2	1	0.0015	0.0030	0.0036	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 09/16/2025 16:00	
Instrument: ICPMS1 Analyst: HAL	Analyzed: 09/26/2025 19:39	
Sample Preparation:	Preparation Method: REN - EPA 3010A M	Extract ID: 25I0372-02 T 02
	Preparation Batch: BNI0566	Sample Size: 25 mL
	Prepared: 09/26/2025	Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony, Dissolved	7440-36-0	1	0.150	0.200	0.941	ug/L	
Arsenic UCT, Dissolved	7440-38-2	1	0.100	0.200	2.35	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	1.49	ug/L	
Beryllium, Dissolved	7440-41-7	1	0.100	0.200	ND	ug/L	U
Cadmium UCT, Dissolved	7440-43-9	1	0.0500	0.100	ND	ug/L	U
Copper UCT, Dissolved	7440-50-8	1	0.200	0.500	0.929	ug/L	
Lead, Dissolved	7439-92-1	1	0.100	0.200	ND	ug/L	U
Selenium UCT, Dissolved	7782-49-2	1	0.500	1.00	0.531	ug/L	J
Silver, Dissolved	7440-22-4	1	0.100	0.200	ND	ug/L	U
Thallium, Dissolved	7440-28-0	1	0.100	0.200	ND	ug/L	U
Zinc UCT, Dissolved	7440-66-6	1	3.00	6.00	5.53	ug/L	J



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A	Sampled: 09/16/2025 16:00
Instrument: HYDRA Analyst: ML	Analyzed: 10/01/2025 15:21
Sample Preparation:	Preparation Method: TWM EPA 7470A
	Preparation Batch: BNI0557
	Prepared: 09/25/2025
	Sample Size: 20 mL
	Final Volume: 20 mL
	Extract ID: 25I0372-02 T 01
	Filtration Batch: BNI0391
	Filtration Date: 09/18/2025 14:35

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Mercury, Dissolved	7439-97-6	1	0.000013	0.000100	0.000022	mg/L	J



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 09/16/2025 16:00

Instrument: [CALC] Analyst: CRB

Analyzed: 09/22/2025 16:50

Sample Preparation:

Preparation Method: [CALC]

Extract ID: 25I0372-02

Preparation Batch: [CALC]

Prepared: 09/22/2025

Final Volume: 1

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.0200	0.155	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 09/16/2025 16:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 09/18/2025 14:47

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-02 F

Preparation Batch: BNI0389

Sample Size: 10 mL

Prepared: 09/18/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrite-N	14797-65-0	1	0.010	0.010	ND	mg/L	U



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 09/16/2025 16:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 09/22/2025 16:50

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-02 K

Preparation Batch: BNI0460

Sample Size: 10 mL

Prepared: 09/22/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate + Nitrite as N		1	0.010	0.010	0.155	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 09/16/2025 16:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 10/06/2025 15:50

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-02 F

Preparation Batch: BNJ0027

Sample Size: 10 mL

Prepared: 10/01/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	5	10.0	10.0	75.0	mg/L	D



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Wet Chemistry

Method: EPA 410.4

Sampled: 09/16/2025 16:00

Instrument: UV1800-1 Analyst: KOTT

Analyzed: 10/01/2025 12:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-02 K

Preparation Batch: BNI0642

Sample Size: 2 mL

Prepared: 09/30/2025

Final Volume: 2 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
COD		1	10.0	10.0	25.4	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Wet Chemistry

Method: EPA 9060A

Sampled: 09/16/2025 16:00

Instrument: TOC-LCSH Analyst: RMS

Analyzed: 10/05/2025 17:09

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-02 K

Preparation Batch: BNJ0001

Sample Size: 20 mL

Prepared: 10/05/2025

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	11.57	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Wet Chemistry

Method: SM 2320 B-11

Sampled: 09/16/2025 16:00

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 09/19/2025 12:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-02 G

Preparation Batch: BNI0401

Sample Size: 100 mL

Prepared: 09/18/2025

Final Volume: 100 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Bicarbonate		1	1.00	1.00	167	mg/L CaCO ₃	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Carbonate		1	1.00	1.00	ND	mg/L CaCO ₃	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Total		1	1.00	1.00	167	mg/L CaCO ₃	



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Wet Chemistry

Method: SM 2540 C-11

Sampled: 09/16/2025 16:00

Instrument: BAL2 Analyst: RAL

Analyzed: 09/19/2025 08:56

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-02

Preparation Batch: BNI0408

Sample Size: 100 mL

Prepared: 09/19/2025

Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	343	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Wet Chemistry

Method: SM 2540 D-11

Sampled: 09/16/2025 16:00

Instrument: BAL2 Analyst: RAL

Analyzed: 09/23/2025 10:09

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-02

Preparation Batch: BNI0475

Sample Size: 50 mL

Prepared: 09/23/2025

Final Volume: 1000 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Suspended Solids		1	20	20	172	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02 (Water)

Wet Chemistry

Method: SM 4500-NH3 H-11
Instrument: LACHAT1 Analyst: GJD

Sampled: 09/16/2025 16:00

Analyzed: 10/02/2025 18:14

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BNJ0026 Sample Size: 10 mL
Prepared: 10/02/2025 Final Volume: 10 mL
Extract ID: 25I0372-02 K

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Ammonia-N	7664-41-7	1	0.040	0.040	0.115	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 09/16/2025 16:00

Analyzed: 10/03/2025 21:44

Sample Preparation: Preparation Method: WMN (No Prep) Sample Size: 25 mL
Preparation Batch: BNI0556 Final Volume: 25 mL
Prepared: 09/25/2025 Extract ID: 25I0372-02RE1 T 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	42.4	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 09/16/2025 16:00
Instrument: ICPMS1 Analyst: HAL	Analyzed: 09/29/2025 20:00
Sample Preparation:	Preparation Method: REN - EPA 3010A M
	Preparation Batch: BNI0566
	Prepared: 09/26/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25I0372-02RE1 T 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chromium, Dissolved	7440-47-3	10	3.75	5.00	8.33	ug/L	D
Nickel UCT, Dissolved	7440-02-0	10	2.50	5.00	572	ug/L	D



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Reported:
31-Oct-2025 13:40

SMW-5s
25I0372-02RE1 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 09/16/2025 16:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 09/18/2025 18:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-02RE1 H

Preparation Batch: BNI0399

Sample Size: 10 mL

Prepared: 09/18/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
# Chloride	16887-00-6	5	5.00	5.00	22.5	mg/L	D



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT20 Analyst: LTN

Sampled: 09/16/2025 13:30

Analyzed: 09/22/2025 14:19

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNI0453 Sample Size: 10 mL
Prepared: 09/22/2025 Final Volume: 10 mL

Extract ID: 25I0372-03 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloromethane	74-87-3	1	0.50	0.50	ND	ug/L	U
Vinyl Chloride	75-01-4	1	0.10	0.20	ND	ug/L	U
Bromomethane	74-83-9	1	1.00	1.00	ND	ug/L	U
Chloroethane	75-00-3	1	0.20	0.20	ND	ug/L	U
Trichlorofluoromethane	75-69-4	1	0.20	0.20	ND	ug/L	U
Acrolein	107-02-8	1	5.00	5.00	ND	ug/L	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	1	0.20	0.20	ND	ug/L	U
Acetone	67-64-1	1	5.00	5.00	ND	ug/L	U
1,1-Dichloroethene	75-35-4	1	0.10	0.20	ND	ug/L	U
Iodomethane	74-88-4	1	0.50	1.00	ND	ug/L	U
Methylene Chloride	75-09-2	1	1.00	1.00	ND	ug/L	U
Acrylonitrile	107-13-1	1	0.50	1.00	ND	ug/L	U
Carbon Disulfide	75-15-0	1	0.20	0.20	ND	ug/L	U
trans-1,2-Dichloroethene	156-60-5	1	0.10	0.20	ND	ug/L	U
Vinyl Acetate	108-05-4	1	0.20	0.20	ND	ug/L	U
1,1-Dichloroethane	75-34-3	1	0.10	0.20	ND	ug/L	U
2-Butanone	78-93-3	1	2.50	5.00	ND	ug/L	U
2,2-Dichloropropane	594-20-7	1	0.20	0.20	ND	ug/L	U
cis-1,2-Dichloroethene	156-59-2	1	0.10	0.20	0.51	ug/L	
Chloroform	67-66-3	1	0.10	0.20	ND	ug/L	U
Bromochloromethane	74-97-5	1	0.10	0.20	ND	ug/L	U
1,1,1-Trichloroethane	71-55-6	1	0.10	0.20	ND	ug/L	U
1,1-Dichloropropene	563-58-6	1	0.10	0.20	ND	ug/L	U
Carbon tetrachloride	56-23-5	1	0.10	0.20	ND	ug/L	U
1,2-Dichloroethane	107-06-2	1	0.10	0.20	ND	ug/L	U
Benzene	71-43-2	1	0.10	0.20	ND	ug/L	U
Trichloroethene	79-01-6	1	0.10	0.20	0.57	ug/L	
1,2-Dichloropropane	78-87-5	1	0.10	0.20	ND	ug/L	U
Bromodichloromethane	75-27-4	1	0.10	0.20	ND	ug/L	U
Dibromomethane	74-95-3	1	0.10	0.20	ND	ug/L	U
2-Chloroethyl vinyl ether	110-75-8	1	1.00	1.00	ND	ug/L	U
4-Methyl-2-Pentanone	108-10-1	1	2.50	5.00	ND	ug/L	U
cis-1,3-Dichloropropene	10061-01-5	1	0.10	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.10	0.20	ND	ug/L	U
trans-1,3-Dichloropropene	10061-02-6	1	0.10	0.20	ND	ug/L	U
2-Hexanone	591-78-6	1	2.50	5.00	ND	ug/L	U
1,1,2-Trichloroethane	79-00-5	1	0.20	0.20	ND	ug/L	U
1,3-Dichloropropane	142-28-9	1	0.10	0.20	ND	ug/L	U
Tetrachloroethene	127-18-4	1	0.10	0.20	6.46	ug/L	



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Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 09/16/2025 13:30

Instrument: NT20 Analyst: LTN

Analyzed: 09/22/2025 14:19

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dibromochloromethane	124-48-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromoethane	106-93-4	1	0.10	0.20	ND	ug/L	U
Chlorobenzene	108-90-7	1	0.10	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.10	0.20	ND	ug/L	U
1,1,1,2-Tetrachloroethane	630-20-6	1	0.10	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.20	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.10	0.20	ND	ug/L	U
Xylenes, total	1330-20-7	1	0.30	0.60	ND	ug/L	U
Styrene	100-42-5	1	0.10	0.20	ND	ug/L	U
Bromoform	75-25-2	1	0.20	0.20	ND	ug/L	U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.20	0.20	ND	ug/L	U
1,2,3-Trichloropropane	96-18-4	1	0.25	0.50	ND	ug/L	U
trans-1,4-Dichloro 2-Butene	110-57-6	1	1.00	1.00	ND	ug/L	U
n-Propylbenzene	103-65-1	1	0.10	0.20	ND	ug/L	U
Bromobenzene	108-86-1	1	0.10	0.20	ND	ug/L	U
Isopropyl Benzene	98-82-8	1	0.10	0.20	ND	ug/L	U
2-Chlorotoluene	95-49-8	1	0.10	0.20	ND	ug/L	U
4-Chlorotoluene	106-43-4	1	0.10	0.20	ND	ug/L	U
t-Butylbenzene	98-06-6	1	0.10	0.20	ND	ug/L	U
1,3,5-Trimethylbenzene	108-67-8	1	0.10	0.20	ND	ug/L	U
1,2,4-Trimethylbenzene	95-63-6	1	0.10	0.20	ND	ug/L	U
s-Butylbenzene	135-98-8	1	0.10	0.20	ND	ug/L	U
4-Isopropyl Toluene	99-87-6	1	0.10	0.20	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	1	0.10	0.20	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	1	0.20	0.20	ND	ug/L	U
n-Butylbenzene	104-51-8	1	0.20	0.20	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromo-3-chloropropane	96-12-8	1	0.50	0.50	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	1	0.25	0.50	ND	ug/L	U
Hexachloro-1,3-Butadiene	87-68-3	1	0.50	0.50	ND	ug/L	U
Naphthalene	91-20-3	1	0.50	0.50	ND	ug/L	U
1,2,3-Trichlorobenzene	87-61-6	1	0.50	0.50	ND	ug/L	U
Dichlorodifluoromethane	75-71-8	1	0.20	0.20	0.50	ug/L	Q
Methyl tert-butyl Ether	1634-04-4	1	0.25	0.50	ND	ug/L	U
2-Pentanone	107-87-9	1	2.50	5.00	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	94.1	%	
Surrogate: Toluene-d8				80-120 %	100	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	99.6	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	96.8	%	



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Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260D-SIM

Sampled: 09/16/2025 13:30

Instrument: NT16 Analyst: LTN

Analyzed: 09/24/2025 11:09

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25I0372-03 B

Preparation Batch: BNI0497

Sample Size: 10 mL

Prepared: 09/24/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl chloride	75-01-4	1	10.0	20.0	ND	ng/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	94.1	%	
Surrogate: Toluene-d8				80-120 %	100	%	
Surrogate: 4-Bromofluorobenzene				75-125 %	93.2	%	



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Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E
Instrument: NT10 Analyst: RJL

Sampled: 09/16/2025 13:30

Analyzed: 09/25/2025 19:15

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BNI0442
Prepared: 09/22/2025

Sample Size: 1000 mL
Final Volume: 1 mL

Extract ID: 25I0372-03 N 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Phenol	108-95-2	5	0.5	1.0	ND	ug/L	U
bis(2-chloroethyl) ether	111-44-4	5	0.5	1.0	ND	ug/L	U
2-Chlorophenol	95-57-8	5	0.5	1.0	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	5	0.5	1.0	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	5	0.5	1.0	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	5	0.5	1.0	ND	ug/L	U
Benzyl Alcohol	100-51-6	5	0.5	1.0	ND	ug/L	U
2,2'-Oxybis(1-chloropropane)	108-60-1	5	0.5	1.0	ND	ug/L	U
2-Methylphenol	95-48-7	5	0.5	1.0	ND	ug/L	U
Hexachloroethane	67-72-1	5	0.5	1.0	ND	ug/L	U
N-Nitroso-di-n-Propylamine	621-64-7	5	0.5	1.0	ND	ug/L	U
4-Methylphenol	106-44-5	5	0.5	1.0	ND	ug/L	U
Nitrobenzene	98-95-3	5	0.5	1.0	ND	ug/L	U
Isophorone	78-59-1	5	0.5	1.0	ND	ug/L	U
2-Nitrophenol	88-75-5	5	2.5	5.0	ND	ug/L	U
2,4-Dimethylphenol	105-67-9	5	2.5	5.0	ND	ug/L	U
Bis(2-Chloroethoxy)methane	111-91-1	5	0.5	1.0	ND	ug/L	U
2,4-Dichlorophenol	120-83-2	5	2.5	5.0	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	5	0.5	1.0	ND	ug/L	U
Naphthalene	91-20-3	5	0.5	1.0	ND	ug/L	U
Benzoic acid	65-85-0	5	5.0	10.0	ND	ug/L	U
4-Chloroaniline	106-47-8	5	2.5	5.0	ND	ug/L	U
Hexachlorobutadiene	87-68-3	5	0.5	1.0	ND	ug/L	U
4-Chloro-3-Methylphenol	59-50-7	5	2.5	5.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	5	0.5	1.0	ND	ug/L	U
Hexachlorocyclopentadiene	77-47-4	5	2.5	5.0	ND	ug/L	U
2,4,6-Trichlorophenol	88-06-2	5	2.5	5.0	ND	ug/L	U
2,4,5-Trichlorophenol	95-95-4	5	2.5	5.0	ND	ug/L	U
2-Chloronaphthalene	91-58-7	5	0.5	1.0	ND	ug/L	U
2-Nitroaniline	88-74-4	5	2.5	5.0	ND	ug/L	U
Acenaphthylene	208-96-8	5	0.5	1.0	ND	ug/L	U
Dimethylphthalate	131-11-3	5	0.5	1.0	ND	ug/L	U
2,6-Dinitrotoluene	606-20-2	5	2.5	5.0	ND	ug/L	U
Acenaphthene	83-32-9	5	0.5	1.0	ND	ug/L	U
3-Nitroaniline	99-09-2	5	2.5	5.0	ND	ug/L	U
2,4-Dinitrophenol	51-28-5	5	5.0	10.0	ND	ug/L	U
Dibenzofuran	132-64-9	5	0.5	1.0	ND	ug/L	U
4-Nitrophenol	100-02-7	5	2.5	5.0	ND	ug/L	U
2,4-Dinitrotoluene	121-14-2	5	2.5	5.0	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 09/16/2025 13:30

Instrument: NT10 Analyst: RJL

Analyzed: 09/25/2025 19:15

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Fluorene	86-73-7	5	0.5	1.0	ND	ug/L	U
4-Chlorophenylphenyl ether	7005-72-3	5	0.5	1.0	ND	ug/L	U
Diethyl phthalate	84-66-2	5	0.5	1.0	ND	ug/L	U
4-Nitroaniline	100-01-6	5	2.5	5.0	ND	ug/L	U
4,6-Dinitro-2-methylphenol	534-52-1	5	5.0	10.0	ND	ug/L	U
N-Nitrosodiphenylamine	86-30-6	5	0.5	1.0	ND	ug/L	U
4-Bromophenyl phenyl ether	101-55-3	5	0.5	1.0	ND	ug/L	U
Hexachlorobenzene	118-74-1	5	0.5	1.0	ND	ug/L	U
Pentachlorophenol	87-86-5	5	2.5	5.0	ND	ug/L	U
Phenanthrene	85-01-8	5	0.5	1.0	ND	ug/L	U
Anthracene	120-12-7	5	0.5	1.0	ND	ug/L	U
Carbazole	86-74-8	5	0.5	1.0	ND	ug/L	U
Di-n-Butylphthalate	84-74-2	5	0.5	1.0	ND	ug/L	U
Fluoranthene	206-44-0	5	0.5	1.0	ND	ug/L	U
Pyrene	129-00-0	5	0.5	1.0	ND	ug/L	U
Butylbenzylphthalate	85-68-7	5	0.5	1.0	ND	ug/L	U
Benzo(a)anthracene	56-55-3	5	0.5	1.0	ND	ug/L	U
3,3'-Dichlorobenzidine	91-94-1	5	2.5	5.0	ND	ug/L	U
Chrysene	218-01-9	5	0.5	1.0	ND	ug/L	U
bis(2-Ethylhexyl)phthalate	117-81-7	5	1.0	1.0	ND	ug/L	U
Di-n-Octylphthalate	117-84-0	5	0.5	1.0	ND	ug/L	U
Benzo(a)fluoranthene, Total		5	1.0	2.0	ND	ug/L	U
Benzo(a)pyrene	50-32-8	5	0.5	1.0	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	5	1.0	1.0	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	5	0.5	1.0	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	5	0.5	1.0	ND	ug/L	U
1-Methylnaphthalene	90-12-0	5	0.5	1.0	ND	ug/L	U
2,3,4,6-Tetrachlorophenol	58-90-2	5	0.5	1.0	ND	ug/L	U
Surrogate: 2-Fluorophenol				30-160 %	73.2	%	
Surrogate: Phenol-d5				30-160 %	88.8	%	
Surrogate: 2-Chlorophenol-d4				30-160 %	83.9	%	
Surrogate: 1,2-Dichlorobenzene-d4				30-160 %	69.5	%	
Surrogate: Nitrobenzene-d5				30-160 %	88.9	%	
Surrogate: 2-Fluorobiphenyl				30-160 %	75.2	%	
Surrogate: 2,4,6-Tribromophenol				30-160 %	54.6	%	
Surrogate: p-Terphenyl-d14				30-160 %	93.4	%	



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Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E
Instrument: NT6 Analyst: JZ

Sampled: 09/16/2025 13:30

Analyzed: 10/01/2025 12:55

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BNI0440
Prepared: 09/22/2025

Sample Size: 500 mL

Final Volume: 1 mL

Extract ID: 25I0372-03 M 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
1,4-Dioxane	123-91-1	1	0.2	0.4	ND	ug/L	U



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Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM
Instrument: NT8 Analyst: JZ

Sampled: 09/16/2025 13:30

Analyzed: 09/22/2025 17:43

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BNI0407
Prepared: 09/19/2025

Sample Size: 1000 mL
Final Volume: 1 mL

Extract ID: 25I0372-03 L 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.010	0.010	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.010	0.010	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.010	0.010	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.010	0.010	ND	ug/L	U
Acenaphthene	83-32-9	1	0.010	0.010	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.010	0.010	ND	ug/L	U
Fluorene	86-73-7	1	0.005	0.010	ND	ug/L	U
Phenanthrene	85-01-8	1	0.010	0.010	ND	ug/L	U
Anthracene	120-12-7	1	0.010	0.010	ND	ug/L	U
Carbazole	86-74-8	1	0.010	0.010	ND	ug/L	U
Fluoranthene	206-44-0	1	0.010	0.010	ND	ug/L	U
Pyrene	129-00-0	1	0.010	0.010	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.010	0.010	ND	ug/L	U
Chrysene	218-01-9	1	0.010	0.010	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.010	0.010	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.010	0.010	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.010	0.010	ND	ug/L	U
# Benzofluoranthenes, Total		1	0.010	0.010	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.010	0.010	ND	ug/L	U
Perylene	198-55-0	1	0.005	0.010	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.010	0.010	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.010	0.010	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.010	0.010	ND	ug/L	U

Surrogate: 2-Methylnaphthalene-d10

42-120 % 88.0 %

Surrogate: Dibenzo[a,h]anthracene-d14

29-120 % 73.4 %

Surrogate: Fluoranthene-d10

57-120 % 78.7 %



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Chlorinated Pesticides

Method: EPA 8081B
Instrument: ECD9 Analyst: RKT

Sampled: 09/16/2025 13:30

Analyzed: 09/24/2025 13:17

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BNI0443
Prepared: 09/22/2025

Sample Size: 1000 mL
Final Volume: 1 mL

Extract ID: 25I0372-03 O 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
alpha-BHC	319-84-6	1	0.0003	0.0006	ND	ug/L	U
beta-BHC	319-85-7	1	0.0003	0.0006	ND	ug/L	U
gamma-BHC (Lindane)	58-89-9	1	0.0003	0.0006	ND	ug/L	U
delta-BHC	319-86-8	1	0.0003	0.0006	ND	ug/L	U
Heptachlor	76-44-8	1	0.0003	0.0006	ND	ug/L	U
Aldrin	309-00-2	1	0.0003	0.0006	ND	ug/L	U
Heptachlor Epoxide	1024-57-3	1	0.0003	0.0006	ND	ug/L	U
trans-Chlordane (beta/gamma-Chlordane)	5103-74-2	1	0.0003	0.0006	ND	ug/L	U
cis-Chlordane (alpha-chlordane)	5103-71-9	1	0.0003	0.0006	ND	ug/L	U
Endosulfan I	959-98-8	1	0.0003	0.0006	ND	ug/L	U
4,4'-DDE	72-55-9	1	0.0006	0.0013	ND	ug/L	U
Endrin	72-20-8	1	0.0006	0.0013	ND	ug/L	U
Endosulfan II	33213-65-9	1	0.0006	0.0013	ND	ug/L	U
4,4'-DDD	72-54-8	1	0.0006	0.0013	ND	ug/L	U
Endrin Aldehyde	7421-93-4	1	0.0006	0.0013	ND	ug/L	U
4,4'-DDT	50-29-3	1	0.0006	0.0013	ND	ug/L	U
Endosulfan Sulfate	1031-07-8	1	0.0006	0.0013	ND	ug/L	U
Endrin Ketone	53494-70-5	1	0.0006	0.0013	ND	ug/L	U
Methoxychlor	72-43-5	1	0.0031	0.0063	ND	ug/L	U
Hexachlorobutadiene	87-68-3	1	0.0006	0.0013	ND	ug/L	U
Hexachlorobenzene	118-74-1	1	0.0006	0.0013	ND	ug/L	U
Oxychlordane	27304-13-8	1	0.0013	0.0013	ND	ug/L	U
# Chlordane (NOS)	57-74-9	1	0.0050	0.0050	ND	ug/L	U

Surrogate: Decachlorobiphenyl

30-160 % 79.7 %

Surrogate: Decachlorobiphenyl [2C]

30-160 % 92.8 %

Surrogate: Tetrachlorometaxylene

30-160 % 85.4 %

Surrogate: Tetrachlorometaxylene [2C]

30-160 % 68.0 %



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Dioxins/Furans

Method: EPA 1613B			Sampled: 09/16/2025 13:30
Instrument: AUTOSPEC01 Analyst: jgr			Analyzed: 10/29/2025 23:30
Sample Preparation:	Preparation Method: EPA 1613		Extract ID: 25I0372-03 P 01
	Preparation Batch: BNJ0043		
	Sample Size: 1000 mL		
	Prepared: 10/03/2025		Final Volume: 20 uL
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 25I0372-03 P 01
	Cleanup Batch: CNJ0028		
	Initial Volume: 20 uL		
	Cleaned: 06-Oct-2025		Final Volume: 20 uL
Sample Cleanup:	Cleanup Method: Florisil		Extract ID:25I0372-03 P 01
	Cleanup Batch: CNJ0027		
	Initial Volume: 20 uL		
	Cleaned: 06-Oct-2025		Final Volume: 20 uL

Analyte	DF/Split	Ion Ratio	Ratio Limits	Reporting		Result	Units	Notes
				EDL	Limit			
2,3,7,8-TCDF			0.655-0.886	0.19	10.0	ND	pg/L	U
2,3,7,8-TCDD			0.655-0.886	1.06	10.0	ND	pg/L	U
1,2,3,7,8-PeCDF			1.318-1.783	0.08	10.0	ND	pg/L	U
2,3,4,7,8-PeCDF			1.318-1.783	0.83	10.0	ND	pg/L	U
1,2,3,7,8-PeCDD			1.318-1.783	0.70	10.0	ND	pg/L	U
1,2,3,4,7,8-HxCDF			1.054-1.426	0.07	10.0	ND	pg/L	U
1,2,3,6,7,8-HxCDF			1.054-1.426	0.07	10.0	ND	pg/L	U
2,3,4,6,7,8-HxCDF			1.054-1.426	0.07	10.0	ND	pg/L	U
1,2,3,7,8,9-HxCDF			1.054-1.426	0.09	10.0	ND	pg/L	U
1,2,3,4,7,8-HxCDD			1.054-1.426	0.14	10.0	ND	pg/L	U
1,2,3,6,7,8-HxCDD			1.054-1.426	0.15	10.0	ND	pg/L	U
1,2,3,7,8,9-HxCDD			1.054-1.426	0.15	10.0	ND	pg/L	U
1,2,3,4,6,7,8-HpCDF			0.893-1.208	0.01	20.0	ND	pg/L	U
1,2,3,4,7,8,9-HpCDF			0.893-1.208	0.02	10.0	ND	pg/L	U
1,2,3,4,6,7,8-HpCDD			0.893-1.208	0.01	10.0	ND	pg/L	U
OCDF			0.757-1.024	0.002	20.0	ND	pg/L	U
OCDD		0.990	0.757-1.024		50.0	8.40	pg/L	J, B
Homologue groups								
Total TCDF					10.0	ND	pg/L	U
Total TCDD					10.0	ND	pg/L	U
Total PeCDF					10.0	ND	pg/L	U
Total PeCDD					10.0	ND	pg/L	U
Total HxCDF					10.0	ND	pg/L	U
Total HxCDD					10.0	ND	pg/L	U
Total HpCDF					10.0	ND	pg/L	U
Total HpCDD					10.0	ND	pg/L	U

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 1.05
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.00
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, EMPC = ND): 1.05
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, EMPC = ND): 0.00



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Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Dioxins/Furans

Method: EPA 1613B

Sampled: 09/16/2025 13:30

Instrument: AUTOSPEC01 Analyst: jgr

Analyzed: 10/29/2025 23:30

Analyte	DF/Split	Ion Ratio	Ratio Limits	Reporting Limit	Result	Units	Notes
Labeled compounds							
13C12-2,3,7,8-TCDF		0.793	0.655-0.886	24-169 %	67.6	%	
13C12-2,3,7,8-TCDD		0.769	0.655-0.886	25-164 %	103	%	
13C12-1,2,3,7,8-PeCDF		1.706	1.318-1.783	24-185 %	85.4	%	
13C12-2,3,4,7,8-PeCDF		1.603	1.318-1.783	21-178 %	80.2	%	
13C12-1,2,3,7,8-PeCDD		1.607	1.318-1.783	25-181 %	90.5	%	
13C12-1,2,3,4,7,8-HxCDF		0.528	0.434-0.587	26-152 %	72.9	%	
13C12-1,2,3,6,7,8-HxCDF		0.508	0.434-0.587	26-123 %	69.7	%	
13C12-2,3,4,6,7,8-HxCDF		0.531	0.434-0.587	28-136 %	68.9	%	
13C12-1,2,3,7,8,9-HxCDF		0.510	0.434-0.587	29-147 %	73.5	%	
13C12-1,2,3,4,7,8-HxCDD		1.232	1.054-1.426	32-141 %	88.8	%	
13C12-1,2,3,6,7,8-HxCDD		1.235	1.054-1.426	28-130 %	86.0	%	
13C12-1,2,3,4,6,7,8-HpCDF		0.408	0.374-0.506	28-143 %	69.0	%	
13C12-1,2,3,4,7,8,9-HpCDF		0.450	0.374-0.506	26-138 %	66.6	%	
13C12-1,2,3,4,6,7,8-HpCDD		1.066	0.893-1.208	23-140 %	86.5	%	
13C12-OCDD		0.962	0.757-1.024	17-157 %	85.2	%	
37Cl4-2,3,7,8-TCDD				35-197 %	91.5	%	



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Reported:
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SMW-4
25I0372-03 (Water)

Dioxins/Furans

Method: EPA 1613B
Instrument: AUTOSPEC01 Analyst: jgr

Sampled: 09/16/2025 13:30
Analyzed: 10/29/2025 23:30

SMW-4
25I0372-03 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 09/16/2025 13:30
Analyzed: 09/30/2025 17:15

Sample Preparation: Preparation Method: WMN (No Prep)
Preparation Batch: BNI0555 Sample Size: 25 mL
Prepared: 09/25/2025 Final Volume: 25 mL

Extract ID: 25I0372-03 T 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Cobalt, Dissolved	7440-48-4	1	0.0025	0.0050	ND	mg/L	U
Iron, Dissolved	7439-89-6	1	0.0540	0.100	ND	mg/L	U
Magnesium, Dissolved	7439-95-4	1	0.0250	0.0500	12.3	mg/L	
Manganese, Dissolved	7439-96-5	1	0.0020	0.0040	ND	mg/L	U
Potassium, Dissolved	7440-09-7	1	0.250	0.500	7.01	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	21.3	mg/L	
Vanadium, Dissolved	7440-62-2	1	0.0015	0.0030	0.0095	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 09/16/2025 13:30
Instrument: ICPMS1 Analyst: HAL	Analyzed: 09/25/2025 18:43
Sample Preparation:	Preparation Method: REN - EPA 3010A M
	Preparation Batch: BNI0535
	Prepared: 09/25/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25I0372-03 T 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic UCT, Dissolved	7440-38-2	1	0.100	0.200	4.75	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	9.56	ug/L	
Cadmium UCT, Dissolved	7440-43-9	1	0.0500	0.100	ND	ug/L	U
Copper UCT, Dissolved	7440-50-8	1	0.200	0.500	0.376	ug/L	J
Lead, Dissolved	7439-92-1	1	0.100	0.200	ND	ug/L	U
Nickel UCT, Dissolved	7440-02-0	1	0.250	0.500	ND	ug/L	U
Selenium UCT, Dissolved	7782-49-2	1	0.500	1.00	0.544	ug/L	J
Silver, Dissolved	7440-22-4	1	0.100	0.200	ND	ug/L	U
Thallium, Dissolved	7440-28-0	1	0.100	0.200	ND	ug/L	U
Zinc UCT, Dissolved	7440-66-6	1	3.00	6.00	ND	ug/L	U



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Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A	Sampled: 09/16/2025 13:30
Instrument: HYDRA Analyst: ML	Analyzed: 10/01/2025 14:49
Sample Preparation:	Preparation Method: TWM EPA 7470A
	Preparation Batch: BNI0533
	Prepared: 09/25/2025
	Sample Size: 20 mL
	Final Volume: 20 mL
	Extract ID: 25I0372-03 T

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Mercury, Dissolved	7439-97-6	1	0.000013	0.000100	0.000014	mg/L	J



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Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 09/16/2025 13:30

Instrument: LACHAT2 Analyst: CRB

Analyzed: 09/18/2025 17:44

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-03 H

Preparation Batch: BNI0399

Sample Size: 10 mL

Prepared: 09/18/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
# Chloride	16887-00-6	1	1.00	1.00	7.83	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 09/16/2025 13:30

Instrument: [CALC] Analyst: CRB

Analyzed: 09/22/2025 16:51

Sample Preparation:

Preparation Method: [CALC]

Extract ID: 25I0372-03

Preparation Batch: [CALC]

Prepared: 09/22/2025

Final Volume: 1

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.0200	0.269	mg/L	H



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Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 09/16/2025 13:30

Instrument: LACHAT2 Analyst: CRB

Analyzed: 09/18/2025 14:52

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-03 F

Preparation Batch: BNI0389

Sample Size: 10 mL

Prepared: 09/18/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrite-N	14797-65-0	1	0.010	0.010	ND	mg/L	H, U



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Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 09/16/2025 13:30

Instrument: LACHAT2 Analyst: CRB

Analyzed: 09/22/2025 16:51

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-03 K

Preparation Batch: BNI0460

Sample Size: 10 mL

Prepared: 09/22/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate + Nitrite as N		1	0.010	0.010	0.269	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 09/16/2025 13:30

Instrument: LACHAT2 Analyst: CRB

Analyzed: 10/06/2025 15:51

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-03 F

Preparation Batch: BNJ0027

Sample Size: 10 mL

Prepared: 10/01/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	2	4.00	4.00	35.0	mg/L	D



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Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Wet Chemistry

Method: EPA 410.4

Sampled: 09/16/2025 13:30

Instrument: UV1800-1 Analyst: KOTT

Analyzed: 10/01/2025 12:05

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-03 K

Preparation Batch: BNI0642

Sample Size: 2 mL

Prepared: 09/30/2025

Final Volume: 2 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
COD		1	10.0	10.0	ND	mg/L	U



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Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Wet Chemistry

Method: EPA 9060A

Sampled: 09/16/2025 13:30

Instrument: TOC-LCSH Analyst: RMS

Analyzed: 10/05/2025 17:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-03 K

Preparation Batch: BNJ0001

Sample Size: 20 mL

Prepared: 10/05/2025

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	4.61	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Wet Chemistry

Method: SM 2320 B-11

Sampled: 09/16/2025 13:30

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 09/19/2025 12:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-03 G

Preparation Batch: BNI0401

Sample Size: 100 mL

Prepared: 09/18/2025

Final Volume: 100 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Bicarbonate		1	1.00	1.00	157	mg/L CaCO ₃	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Carbonate		1	1.00	1.00	ND	mg/L CaCO ₃	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Total		1	1.00	1.00	157	mg/L CaCO ₃	



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Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Wet Chemistry

Method: SM 2540 C-11

Sampled: 09/16/2025 13:30

Instrument: BAL2 Analyst: RAL

Analyzed: 09/19/2025 08:56

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-03

Preparation Batch: BNI0408

Sample Size: 200 mL

Prepared: 09/19/2025

Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	5	5	252	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Wet Chemistry

Method: SM 2540 D-11

Sampled: 09/16/2025 13:30

Instrument: BAL2 Analyst: RAL

Analyzed: 09/23/2025 10:09

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-03

Preparation Batch: BNI0475

Sample Size: 500 mL

Prepared: 09/23/2025

Final Volume: 1000 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Suspended Solids		1	2	2	ND	mg/L	U



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Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03 (Water)

Wet Chemistry

Method: SM 4500-NH3 H-11
Instrument: LACHAT1 Analyst: GJD

Sampled: 09/16/2025 13:30

Analyzed: 10/02/2025 18:15

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BNJ0026 Sample Size: 10 mL
Prepared: 10/02/2025 Final Volume: 10 mL
Extract ID: 25I0372-03 K

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Ammonia-N	7664-41-7	1	0.040	0.040	ND	mg/L	U



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Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D	Sampled: 09/16/2025 13:30
Instrument: ICP3 Analyst: SH	Analyzed: 10/03/2025 21:04
Sample Preparation:	Preparation Method: WMN (No Prep)
	Preparation Batch: BNI0555
	Prepared: 09/25/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25I0372-03RE1 T 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	38.3	mg/L	



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Reported:
31-Oct-2025 13:40

SMW-4
25I0372-03RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B
Instrument: ICPMS1 Analyst: HAL

Sampled: 09/16/2025 13:30

Analyzed: 09/26/2025 17:35

Sample Preparation: Preparation Method: REN - EPA 3010A M
Preparation Batch: BNI0535 Sample Size: 25 mL
Prepared: 09/25/2025 Final Volume: 25 mL
Extract ID: 25I0372-03RE1 T 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chromium, Dissolved	7440-47-3	5	1.88	2.50	ND	ug/L	U



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Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT20 Analyst: LTN

Sampled: 09/16/2025 14:00

Analyzed: 09/22/2025 14:44

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNI0453 Sample Size: 10 mL
Prepared: 09/22/2025 Final Volume: 10 mL

Extract ID: 25I0372-04 D

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloromethane	74-87-3	1	0.50	0.50	ND	ug/L	U
Vinyl Chloride	75-01-4	1	0.10	0.20	ND	ug/L	U
Bromomethane	74-83-9	1	1.00	1.00	ND	ug/L	U
Chloroethane	75-00-3	1	0.20	0.20	ND	ug/L	U
Trichlorofluoromethane	75-69-4	1	0.20	0.20	ND	ug/L	U
Acrolein	107-02-8	1	5.00	5.00	ND	ug/L	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	1	0.20	0.20	ND	ug/L	U
Acetone	67-64-1	1	5.00	5.00	ND	ug/L	U
1,1-Dichloroethene	75-35-4	1	0.10	0.20	ND	ug/L	U
Iodomethane	74-88-4	1	0.50	1.00	ND	ug/L	U
Methylene Chloride	75-09-2	1	1.00	1.00	ND	ug/L	U
Acrylonitrile	107-13-1	1	0.50	1.00	ND	ug/L	U
Carbon Disulfide	75-15-0	1	0.20	0.20	ND	ug/L	U
trans-1,2-Dichloroethene	156-60-5	1	0.10	0.20	ND	ug/L	U
Vinyl Acetate	108-05-4	1	0.20	0.20	ND	ug/L	U
1,1-Dichloroethane	75-34-3	1	0.10	0.20	ND	ug/L	U
2-Butanone	78-93-3	1	2.50	5.00	ND	ug/L	U
2,2-Dichloropropane	594-20-7	1	0.20	0.20	ND	ug/L	U
cis-1,2-Dichloroethene	156-59-2	1	0.10	0.20	ND	ug/L	U
Chloroform	67-66-3	1	0.10	0.20	ND	ug/L	U
Bromochloromethane	74-97-5	1	0.10	0.20	ND	ug/L	U
1,1,1-Trichloroethane	71-55-6	1	0.10	0.20	ND	ug/L	U
1,1-Dichloropropene	563-58-6	1	0.10	0.20	ND	ug/L	U
Carbon tetrachloride	56-23-5	1	0.10	0.20	ND	ug/L	U
1,2-Dichloroethane	107-06-2	1	0.10	0.20	ND	ug/L	U
Benzene	71-43-2	1	0.10	0.20	ND	ug/L	U
Trichloroethene	79-01-6	1	0.10	0.20	0.27	ug/L	
1,2-Dichloropropane	78-87-5	1	0.10	0.20	ND	ug/L	U
Bromodichloromethane	75-27-4	1	0.10	0.20	ND	ug/L	U
Dibromomethane	74-95-3	1	0.10	0.20	ND	ug/L	U
2-Chloroethyl vinyl ether	110-75-8	1	1.00	1.00	ND	ug/L	U
4-Methyl-2-Pentanone	108-10-1	1	2.50	5.00	ND	ug/L	U
cis-1,3-Dichloropropene	10061-01-5	1	0.10	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.10	0.20	ND	ug/L	U
trans-1,3-Dichloropropene	10061-02-6	1	0.10	0.20	ND	ug/L	U
2-Hexanone	591-78-6	1	2.50	5.00	ND	ug/L	U
1,1,2-Trichloroethane	79-00-5	1	0.20	0.20	ND	ug/L	U
1,3-Dichloropropane	142-28-9	1	0.10	0.20	ND	ug/L	U
Tetrachloroethene	127-18-4	1	0.10	0.20	4.84	ug/L	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 09/16/2025 14:00

Instrument: NT20 Analyst: LTN

Analyzed: 09/22/2025 14:44

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dibromochloromethane	124-48-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromoethane	106-93-4	1	0.10	0.20	ND	ug/L	U
Chlorobenzene	108-90-7	1	0.10	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.10	0.20	ND	ug/L	U
1,1,1,2-Tetrachloroethane	630-20-6	1	0.10	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.20	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.10	0.20	ND	ug/L	U
Xylenes, total	1330-20-7	1	0.30	0.60	ND	ug/L	U
Styrene	100-42-5	1	0.10	0.20	ND	ug/L	U
Bromoform	75-25-2	1	0.20	0.20	ND	ug/L	U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.20	0.20	ND	ug/L	U
1,2,3-Trichloropropane	96-18-4	1	0.25	0.50	ND	ug/L	U
trans-1,4-Dichloro 2-Butene	110-57-6	1	1.00	1.00	ND	ug/L	U
n-Propylbenzene	103-65-1	1	0.10	0.20	ND	ug/L	U
Bromobenzene	108-86-1	1	0.10	0.20	ND	ug/L	U
Isopropyl Benzene	98-82-8	1	0.10	0.20	ND	ug/L	U
2-Chlorotoluene	95-49-8	1	0.10	0.20	ND	ug/L	U
4-Chlorotoluene	106-43-4	1	0.10	0.20	ND	ug/L	U
t-Butylbenzene	98-06-6	1	0.10	0.20	ND	ug/L	U
1,3,5-Trimethylbenzene	108-67-8	1	0.10	0.20	ND	ug/L	U
1,2,4-Trimethylbenzene	95-63-6	1	0.10	0.20	ND	ug/L	U
s-Butylbenzene	135-98-8	1	0.10	0.20	ND	ug/L	U
4-Isopropyl Toluene	99-87-6	1	0.10	0.20	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	1	0.10	0.20	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	1	0.20	0.20	ND	ug/L	U
n-Butylbenzene	104-51-8	1	0.20	0.20	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromo-3-chloropropane	96-12-8	1	0.50	0.50	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	1	0.25	0.50	ND	ug/L	U
Hexachloro-1,3-Butadiene	87-68-3	1	0.50	0.50	ND	ug/L	U
Naphthalene	91-20-3	1	0.50	0.50	ND	ug/L	U
1,2,3-Trichlorobenzene	87-61-6	1	0.50	0.50	ND	ug/L	U
Dichlorodifluoromethane	75-71-8	1	0.20	0.20	0.25	ug/L	Q
Methyl tert-butyl Ether	1634-04-4	1	0.25	0.50	ND	ug/L	U
2-Pentanone	107-87-9	1	2.50	5.00	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	94.9	%	
Surrogate: Toluene-d8				80-120 %	98.3	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	95.5	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	99.9	%	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260D-SIM
Instrument: NT16 Analyst: LTN

Sampled: 09/16/2025 14:00

Analyzed: 09/24/2025 11:31

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNI0497 Sample Size: 10 mL
Prepared: 09/24/2025 Final Volume: 10 mL

Extract ID: 25I0372-04 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl chloride	75-01-4	1	10.0	20.0	ND	ng/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	95.8	%	
Surrogate: Toluene-d8				80-120 %	99.7	%	
Surrogate: 4-Bromofluorobenzene				75-125 %	92.4	%	



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Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 09/16/2025 14:00

Analyzed: 09/30/2025 16:37

Sample Preparation: Preparation Method: WMN (No Prep)
Preparation Batch: BNI0555
Prepared: 09/25/2025

Sample Size: 25 mL
Final Volume: 25 mL

Extract ID: 25I0372-04 I 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Cobalt, Dissolved	7440-48-4	1	0.0025	0.0050	ND	mg/L	U
Iron, Dissolved	7439-89-6	1	0.0540	0.100	ND	mg/L	U
Magnesium, Dissolved	7439-95-4	1	0.0250	0.0500	27.0	mg/L	
Manganese, Dissolved	7439-96-5	1	0.0020	0.0040	ND	mg/L	U
Potassium, Dissolved	7440-09-7	1	0.250	0.500	7.03	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	27.7	mg/L	
Vanadium, Dissolved	7440-62-2	1	0.0015	0.0030	0.0140	mg/L	



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Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B
Instrument: ICPMS1 Analyst: HAL
Sample Preparation: Preparation Method: REN - EPA 3010A M
Preparation Batch: BNI0535
Prepared: 09/25/2025
Sample Size: 25 mL
Final Volume: 25 mL
Extract ID: 25I0372-04 I 02
Sampled: 09/16/2025 14:00
Analyzed: 09/25/2025 18:48

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony, Dissolved	7440-36-0	1	0.150	0.200	ND	ug/L	U
Arsenic UCT, Dissolved	7440-38-2	1	0.100	0.200	3.22	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	31.9	ug/L	
Cadmium UCT, Dissolved	7440-43-9	1	0.0500	0.100	ND	ug/L	U
Copper UCT, Dissolved	7440-50-8	1	0.200	0.500	1.06	ug/L	
Lead, Dissolved	7439-92-1	1	0.100	0.200	ND	ug/L	U
Nickel UCT, Dissolved	7440-02-0	1	0.250	0.500	ND	ug/L	U
Selenium UCT, Dissolved	7782-49-2	1	0.500	1.00	2.07	ug/L	
Silver, Dissolved	7440-22-4	1	0.100	0.200	ND	ug/L	U
Thallium, Dissolved	7440-28-0	1	0.100	0.200	ND	ug/L	U
Zinc UCT, Dissolved	7440-66-6	1	3.00	6.00	8.42	ug/L	



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Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A
Instrument: HYDRA Analyst: ML

Sampled: 09/16/2025 14:00

Analyzed: 10/01/2025 14:51

Sample Preparation: Preparation Method: TWM EPA 7470A
Preparation Batch: BNI0533
Prepared: 09/25/2025

Sample Size: 20 mL
Final Volume: 20 mL

Extract ID: 25I0372-04 I

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Mercury, Dissolved	7439-97-6	1	0.000013	0.000100	0.000019	mg/L	J



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Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 09/16/2025 14:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 10/06/2025 15:53

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-04 F

Preparation Batch: BNJ0027

Sample Size: 10 mL

Prepared: 10/01/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	1	2.00	2.00	12.3	mg/L	



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Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Wet Chemistry

Method: SM 2320 B-11

Sampled: 09/16/2025 14:00

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 09/19/2025 12:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-04 G

Preparation Batch: BNI0401

Sample Size: 100 mL

Prepared: 09/18/2025

Final Volume: 100 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Bicarbonate		1	1.00	1.00	214	mg/L CaCO ₃	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Carbonate		1	1.00	1.00	ND	mg/L CaCO ₃	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Total		1	1.00	1.00	214	mg/L CaCO ₃	



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Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Wet Chemistry

Method: SM 2540 D-11
Instrument: BAL2 Analyst: RAL

Sampled: 09/16/2025 14:00

Analyzed: 09/23/2025 10:09

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BNI0475
Prepared: 09/23/2025

Sample Size: 1000 mL

Final Volume: 1000 mL

Extract ID: 25I0372-04

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Suspended Solids		1	1	1	ND	mg/L	U



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D	Sampled: 09/16/2025 14:00
Instrument: ICP3 Analyst: SH	Analyzed: 10/03/2025 21:07
Sample Preparation:	Preparation Method: WMN (No Prep)
	Preparation Batch: BNI0555
	Prepared: 09/25/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25I0372-04RE1 I 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	80.0	mg/L	



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Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 09/16/2025 14:00
Instrument: ICPMS1 Analyst: HAL	Analyzed: 09/26/2025 17:40
Sample Preparation:	Preparation Method: REN - EPA 3010A M
	Preparation Batch: BNI0535
	Prepared: 09/25/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25I0372-04RE1 I 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chromium, Dissolved	7440-47-3	5	1.88	2.50	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04RE1 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 09/16/2025 14:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 09/18/2025 18:04

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-04RE1 F

Preparation Batch: BNI0399

Sample Size: 10 mL

Prepared: 09/18/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
# Chloride	16887-00-6	5	5.00	5.00	36.0	mg/L	D



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Project: Snipes MTN Landfill 2025
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Reported:
31-Oct-2025 13:40

Evans
25I0372-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT20 Analyst: LTN

Sampled: 09/16/2025 13:45

Analyzed: 09/22/2025 15:08

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNI0453 Sample Size: 10 mL
Prepared: 09/22/2025 Final Volume: 10 mL

Extract ID: 25I0372-05 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloromethane	74-87-3	1	0.50	0.50	ND	ug/L	U
Vinyl Chloride	75-01-4	1	0.10	0.20	ND	ug/L	U
Bromomethane	74-83-9	1	1.00	1.00	ND	ug/L	U
Chloroethane	75-00-3	1	0.20	0.20	ND	ug/L	U
Trichlorofluoromethane	75-69-4	1	0.20	0.20	ND	ug/L	U
Acrolein	107-02-8	1	5.00	5.00	ND	ug/L	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	1	0.20	0.20	ND	ug/L	U
Acetone	67-64-1	1	5.00	5.00	ND	ug/L	U
1,1-Dichloroethene	75-35-4	1	0.10	0.20	ND	ug/L	U
Iodomethane	74-88-4	1	0.50	1.00	ND	ug/L	U
Methylene Chloride	75-09-2	1	1.00	1.00	ND	ug/L	U
Acrylonitrile	107-13-1	1	0.50	1.00	ND	ug/L	U
Carbon Disulfide	75-15-0	1	0.20	0.20	ND	ug/L	U
trans-1,2-Dichloroethene	156-60-5	1	0.10	0.20	ND	ug/L	U
Vinyl Acetate	108-05-4	1	0.20	0.20	ND	ug/L	U
1,1-Dichloroethane	75-34-3	1	0.10	0.20	ND	ug/L	U
2-Butanone	78-93-3	1	2.50	5.00	ND	ug/L	U
2,2-Dichloropropane	594-20-7	1	0.20	0.20	ND	ug/L	U
cis-1,2-Dichloroethene	156-59-2	1	0.10	0.20	ND	ug/L	U
Chloroform	67-66-3	1	0.10	0.20	ND	ug/L	U
Bromochloromethane	74-97-5	1	0.10	0.20	ND	ug/L	U
1,1,1-Trichloroethane	71-55-6	1	0.10	0.20	ND	ug/L	U
1,1-Dichloropropene	563-58-6	1	0.10	0.20	ND	ug/L	U
Carbon tetrachloride	56-23-5	1	0.10	0.20	ND	ug/L	U
1,2-Dichloroethane	107-06-2	1	0.10	0.20	ND	ug/L	U
Benzene	71-43-2	1	0.10	0.20	ND	ug/L	U
Trichloroethene	79-01-6	1	0.10	0.20	0.26	ug/L	
1,2-Dichloropropane	78-87-5	1	0.10	0.20	ND	ug/L	U
Bromodichloromethane	75-27-4	1	0.10	0.20	ND	ug/L	U
Dibromomethane	74-95-3	1	0.10	0.20	ND	ug/L	U
2-Chloroethyl vinyl ether	110-75-8	1	1.00	1.00	ND	ug/L	U
4-Methyl-2-Pentanone	108-10-1	1	2.50	5.00	ND	ug/L	U
cis-1,3-Dichloropropene	10061-01-5	1	0.10	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.10	0.20	ND	ug/L	U
trans-1,3-Dichloropropene	10061-02-6	1	0.10	0.20	ND	ug/L	U
2-Hexanone	591-78-6	1	2.50	5.00	ND	ug/L	U
1,1,2-Trichloroethane	79-00-5	1	0.20	0.20	ND	ug/L	U
1,3-Dichloropropane	142-28-9	1	0.10	0.20	ND	ug/L	U
Tetrachloroethene	127-18-4	1	0.10	0.20	4.84	ug/L	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 09/16/2025 13:45

Instrument: NT20 Analyst: LTN

Analyzed: 09/22/2025 15:08

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dibromochloromethane	124-48-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromoethane	106-93-4	1	0.10	0.20	ND	ug/L	U
Chlorobenzene	108-90-7	1	0.10	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.10	0.20	ND	ug/L	U
1,1,1,2-Tetrachloroethane	630-20-6	1	0.10	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.20	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.10	0.20	ND	ug/L	U
Xylenes, total	1330-20-7	1	0.30	0.60	ND	ug/L	U
Styrene	100-42-5	1	0.10	0.20	ND	ug/L	U
Bromoform	75-25-2	1	0.20	0.20	ND	ug/L	U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.20	0.20	ND	ug/L	U
1,2,3-Trichloropropane	96-18-4	1	0.25	0.50	ND	ug/L	U
trans-1,4-Dichloro 2-Butene	110-57-6	1	1.00	1.00	ND	ug/L	U
n-Propylbenzene	103-65-1	1	0.10	0.20	ND	ug/L	U
Bromobenzene	108-86-1	1	0.10	0.20	ND	ug/L	U
Isopropyl Benzene	98-82-8	1	0.10	0.20	ND	ug/L	U
2-Chlorotoluene	95-49-8	1	0.10	0.20	ND	ug/L	U
4-Chlorotoluene	106-43-4	1	0.10	0.20	ND	ug/L	U
t-Butylbenzene	98-06-6	1	0.10	0.20	ND	ug/L	U
1,3,5-Trimethylbenzene	108-67-8	1	0.10	0.20	ND	ug/L	U
1,2,4-Trimethylbenzene	95-63-6	1	0.10	0.20	ND	ug/L	U
s-Butylbenzene	135-98-8	1	0.10	0.20	ND	ug/L	U
4-Isopropyl Toluene	99-87-6	1	0.10	0.20	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	1	0.10	0.20	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	1	0.20	0.20	ND	ug/L	U
n-Butylbenzene	104-51-8	1	0.20	0.20	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromo-3-chloropropane	96-12-8	1	0.50	0.50	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	1	0.25	0.50	ND	ug/L	U
Hexachloro-1,3-Butadiene	87-68-3	1	0.50	0.50	ND	ug/L	U
Naphthalene	91-20-3	1	0.50	0.50	ND	ug/L	U
1,2,3-Trichlorobenzene	87-61-6	1	0.50	0.50	ND	ug/L	U
Dichlorodifluoromethane	75-71-8	1	0.20	0.20	0.25	ug/L	Q
Methyl tert-butyl Ether	1634-04-4	1	0.25	0.50	ND	ug/L	U
2-Pentanone	107-87-9	1	2.50	5.00	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	95.1	%	
Surrogate: Toluene-d8				80-120 %	100	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	99.2	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	96.8	%	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260D-SIM

Sampled: 09/16/2025 13:45

Instrument: NT16 Analyst: LTN

Analyzed: 09/24/2025 11:52

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25I0372-05 B

Preparation Batch: BNI0497

Sample Size: 10 mL

Prepared: 09/24/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl chloride	75-01-4	1	10.0	20.0	ND	ng/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	94.4	%	
Surrogate: Toluene-d8				80-120 %	100	%	
Surrogate: 4-Bromofluorobenzene				75-125 %	93.3	%	



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Project: Snipes MTN Landfill 2025
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Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 09/16/2025 13:45

Analyzed: 09/30/2025 16:40

Sample Preparation: Preparation Method: WMN (No Prep)
Preparation Batch: BNI0555
Prepared: 09/25/2025

Sample Size: 25 mL
Final Volume: 25 mL

Extract ID: 25I0372-05 I 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Cobalt, Dissolved	7440-48-4	1	0.0025	0.0050	ND	mg/L	U
Iron, Dissolved	7439-89-6	1	0.0540	0.100	ND	mg/L	U
Magnesium, Dissolved	7439-95-4	1	0.0250	0.0500	26.4	mg/L	
Manganese, Dissolved	7439-96-5	1	0.0020	0.0040	ND	mg/L	U
Potassium, Dissolved	7440-09-7	1	0.250	0.500	6.84	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	26.9	mg/L	
Vanadium, Dissolved	7440-62-2	1	0.0015	0.0030	0.0118	mg/L	



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Project: Snipes MTN Landfill 2025
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Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B
Instrument: ICPMS1 Analyst: HAL
Sample Preparation: Preparation Method: REN - EPA 3010A M
Preparation Batch: BNI0535
Prepared: 09/25/2025
Sample Size: 25 mL
Final Volume: 25 mL
Extract ID: 25I0372-05 I 02
Sampled: 09/16/2025 13:45
Analyzed: 09/25/2025 18:53

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony, Dissolved	7440-36-0	1	0.150	0.200	ND	ug/L	U
Arsenic UCT, Dissolved	7440-38-2	1	0.100	0.200	3.13	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	29.7	ug/L	
Cadmium UCT, Dissolved	7440-43-9	1	0.0500	0.100	ND	ug/L	U
Copper UCT, Dissolved	7440-50-8	1	0.200	0.500	3.41	ug/L	
Lead, Dissolved	7439-92-1	1	0.100	0.200	ND	ug/L	U
Nickel UCT, Dissolved	7440-02-0	1	0.250	0.500	ND	ug/L	U
Selenium UCT, Dissolved	7782-49-2	1	0.500	1.00	1.96	ug/L	
Silver, Dissolved	7440-22-4	1	0.100	0.200	ND	ug/L	U
Thallium, Dissolved	7440-28-0	1	0.100	0.200	ND	ug/L	U
Zinc UCT, Dissolved	7440-66-6	1	3.00	6.00	18.0	ug/L	



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Project: Snipes MTN Landfill 2025
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Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A	Sampled: 09/16/2025 13:45
Instrument: HYDRA Analyst: ML	Analyzed: 10/01/2025 14:53
Sample Preparation:	Preparation Method: TWM EPA 7470A
	Preparation Batch: BNI0533
	Prepared: 09/25/2025
	Sample Size: 20 mL
	Final Volume: 20 mL
	Extract ID: 25I0372-05 I

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Mercury, Dissolved	7439-97-6	1	0.000013	0.000100	0.000015	mg/L	J



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Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 09/16/2025 13:45

Instrument: LACHAT2 Analyst: CRB

Analyzed: 10/06/2025 15:54

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-05 F

Preparation Batch: BNJ0027

Sample Size: 10 mL

Prepared: 10/01/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	1	2.00	2.00	10.8	mg/L	



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Reported:
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Evans
25I0372-05 (Water)

Wet Chemistry

Method: SM 2320 B-11

Sampled: 09/16/2025 13:45

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 09/19/2025 12:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-05 G

Preparation Batch: BNI0401

Sample Size: 100 mL

Prepared: 09/18/2025

Final Volume: 100 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Bicarbonate		1	1.00	1.00	215	mg/L CaCO ₃	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Carbonate		1	1.00	1.00	ND	mg/L CaCO ₃	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Total		1	1.00	1.00	215	mg/L CaCO ₃	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05 (Water)

Wet Chemistry

Method: SM 2540 D-11

Sampled: 09/16/2025 13:45

Instrument: BAL2 Analyst: RAL

Analyzed: 09/23/2025 10:09

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-05

Preparation Batch: BNI0475

Sample Size: 1000 mL

Prepared: 09/23/2025

Final Volume: 1000 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Suspended Solids		1	1	1	ND	mg/L	U



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D	Sampled: 09/16/2025 13:45
Instrument: ICP3 Analyst: SH	Analyzed: 10/03/2025 21:27
Sample Preparation:	Preparation Method: WMN (No Prep)
	Preparation Batch: BNI0555
	Prepared: 09/25/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25I0372-05RE1 I 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	76.5	mg/L	



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Project Number: Snipes MTN Landfill 2025
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Reported:
31-Oct-2025 13:40

Evans
25I0372-05RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B
Instrument: ICPMS1 Analyst: HAL

Sampled: 09/16/2025 13:45

Analyzed: 09/26/2025 17:45

Sample Preparation: Preparation Method: REN - EPA 3010A M
Preparation Batch: BNI0535 Sample Size: 25 mL
Prepared: 09/25/2025 Final Volume: 25 mL

Extract ID: 25I0372-05RE1 I 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chromium, Dissolved	7440-47-3	5	1.88	2.50	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05RE1 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 09/16/2025 13:45

Instrument: LACHAT2 Analyst: CRB

Analyzed: 09/18/2025 18:05

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-05RE1 F

Preparation Batch: BNI0399

Sample Size: 10 mL

Prepared: 09/18/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
# Chloride	16887-00-6	5	5.00	5.00	36.1	mg/L	D



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans (filter)
25I0372-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT20 Analyst: LTN

Sampled: 09/16/2025 13:50

Analyzed: 09/22/2025 16:46

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNI0453 Sample Size: 10 mL
Prepared: 09/22/2025 Final Volume: 10 mL

Extract ID: 25I0372-06 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloromethane	74-87-3	1	0.50	0.50	ND	ug/L	U
Vinyl Chloride	75-01-4	1	0.10	0.20	ND	ug/L	U
Bromomethane	74-83-9	1	1.00	1.00	ND	ug/L	U
Chloroethane	75-00-3	1	0.20	0.20	ND	ug/L	U
Trichlorofluoromethane	75-69-4	1	0.20	0.20	ND	ug/L	U
Acrolein	107-02-8	1	5.00	5.00	ND	ug/L	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	1	0.20	0.20	ND	ug/L	U
Acetone	67-64-1	1	5.00	5.00	ND	ug/L	U
1,1-Dichloroethene	75-35-4	1	0.10	0.20	ND	ug/L	U
Iodomethane	74-88-4	1	0.50	1.00	ND	ug/L	U
Methylene Chloride	75-09-2	1	1.00	1.00	ND	ug/L	U
Acrylonitrile	107-13-1	1	0.50	1.00	ND	ug/L	U
Carbon Disulfide	75-15-0	1	0.20	0.20	ND	ug/L	U
trans-1,2-Dichloroethene	156-60-5	1	0.10	0.20	ND	ug/L	U
Vinyl Acetate	108-05-4	1	0.20	0.20	ND	ug/L	U
1,1-Dichloroethane	75-34-3	1	0.10	0.20	ND	ug/L	U
2-Butanone	78-93-3	1	2.50	5.00	ND	ug/L	U
2,2-Dichloropropane	594-20-7	1	0.20	0.20	ND	ug/L	U
cis-1,2-Dichloroethene	156-59-2	1	0.10	0.20	ND	ug/L	U
Chloroform	67-66-3	1	0.10	0.20	ND	ug/L	U
Bromochloromethane	74-97-5	1	0.10	0.20	ND	ug/L	U
1,1,1-Trichloroethane	71-55-6	1	0.10	0.20	ND	ug/L	U
1,1-Dichloropropene	563-58-6	1	0.10	0.20	ND	ug/L	U
Carbon tetrachloride	56-23-5	1	0.10	0.20	ND	ug/L	U
1,2-Dichloroethane	107-06-2	1	0.10	0.20	ND	ug/L	U
Benzene	71-43-2	1	0.10	0.20	ND	ug/L	U
Trichloroethene	79-01-6	1	0.10	0.20	0.13	ug/L	J
1,2-Dichloropropane	78-87-5	1	0.10	0.20	ND	ug/L	U
Bromodichloromethane	75-27-4	1	0.10	0.20	ND	ug/L	U
Dibromomethane	74-95-3	1	0.10	0.20	ND	ug/L	U
2-Chloroethyl vinyl ether	110-75-8	1	1.00	1.00	ND	ug/L	U
4-Methyl-2-Pentanone	108-10-1	1	2.50	5.00	ND	ug/L	U
cis-1,3-Dichloropropene	10061-01-5	1	0.10	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.10	0.20	ND	ug/L	U
trans-1,3-Dichloropropene	10061-02-6	1	0.10	0.20	ND	ug/L	U
2-Hexanone	591-78-6	1	2.50	5.00	ND	ug/L	U
1,1,2-Trichloroethane	79-00-5	1	0.20	0.20	ND	ug/L	U
1,3-Dichloropropane	142-28-9	1	0.10	0.20	ND	ug/L	U
Tetrachloroethene	127-18-4	1	0.10	0.20	2.31	ug/L	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans (filter)
25I0372-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 09/16/2025 13:50

Instrument: NT20 Analyst: LTN

Analyzed: 09/22/2025 16:46

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dibromochloromethane	124-48-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromoethane	106-93-4	1	0.10	0.20	ND	ug/L	U
Chlorobenzene	108-90-7	1	0.10	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.10	0.20	ND	ug/L	U
1,1,1,2-Tetrachloroethane	630-20-6	1	0.10	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.20	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.10	0.20	ND	ug/L	U
Xylenes, total	1330-20-7	1	0.30	0.60	ND	ug/L	U
Styrene	100-42-5	1	0.10	0.20	ND	ug/L	U
Bromoform	75-25-2	1	0.20	0.20	ND	ug/L	U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.20	0.20	ND	ug/L	U
1,2,3-Trichloropropane	96-18-4	1	0.25	0.50	ND	ug/L	U
trans-1,4-Dichloro 2-Butene	110-57-6	1	1.00	1.00	ND	ug/L	U
n-Propylbenzene	103-65-1	1	0.10	0.20	ND	ug/L	U
Bromobenzene	108-86-1	1	0.10	0.20	ND	ug/L	U
Isopropyl Benzene	98-82-8	1	0.10	0.20	ND	ug/L	U
2-Chlorotoluene	95-49-8	1	0.10	0.20	ND	ug/L	U
4-Chlorotoluene	106-43-4	1	0.10	0.20	ND	ug/L	U
t-Butylbenzene	98-06-6	1	0.10	0.20	ND	ug/L	U
1,3,5-Trimethylbenzene	108-67-8	1	0.10	0.20	ND	ug/L	U
1,2,4-Trimethylbenzene	95-63-6	1	0.10	0.20	ND	ug/L	U
s-Butylbenzene	135-98-8	1	0.10	0.20	ND	ug/L	U
4-Isopropyl Toluene	99-87-6	1	0.10	0.20	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	1	0.10	0.20	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	1	0.20	0.20	ND	ug/L	U
n-Butylbenzene	104-51-8	1	0.20	0.20	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromo-3-chloropropane	96-12-8	1	0.50	0.50	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	1	0.25	0.50	ND	ug/L	U
Hexachloro-1,3-Butadiene	87-68-3	1	0.50	0.50	ND	ug/L	U
Naphthalene	91-20-3	1	0.50	0.50	ND	ug/L	U
1,2,3-Trichlorobenzene	87-61-6	1	0.50	0.50	ND	ug/L	U
Dichlorodifluoromethane	75-71-8	1	0.20	0.20	0.21	ug/L	Q
Methyl tert-butyl Ether	1634-04-4	1	0.25	0.50	ND	ug/L	U
2-Pentanone	107-87-9	1	2.50	5.00	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	95.6	%	
Surrogate: Toluene-d8				80-120 %	97.8	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	98.7	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	99.6	%	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans (filter)
25I0372-06 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260D-SIM

Sampled: 09/16/2025 13:50

Instrument: NT16 Analyst: LTN

Analyzed: 09/24/2025 12:13

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25I0372-06 B

Preparation Batch: BNI0497

Sample Size: 10 mL

Prepared: 09/24/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl chloride	75-01-4	1	10.0	20.0	ND	ng/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	95.0	%	
Surrogate: Toluene-d8				80-120 %	99.4	%	
Surrogate: 4-Bromofluorobenzene				75-125 %	92.4	%	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Trip Blank
25I0372-07 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT20 Analyst: LTN

Sampled: 09/16/2025 11:00

Analyzed: 09/22/2025 12:18

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNI0453 Sample Size: 10 mL
Prepared: 09/22/2025 Final Volume: 10 mL

Extract ID: 25I0372-07 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloromethane	74-87-3	1	0.50	0.50	ND	ug/L	U
Vinyl Chloride	75-01-4	1	0.10	0.20	ND	ug/L	U
Bromomethane	74-83-9	1	1.00	1.00	ND	ug/L	U
Chloroethane	75-00-3	1	0.20	0.20	ND	ug/L	U
Trichlorofluoromethane	75-69-4	1	0.20	0.20	ND	ug/L	U
Acrolein	107-02-8	1	5.00	5.00	ND	ug/L	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	1	0.20	0.20	ND	ug/L	U
Acetone	67-64-1	1	5.00	5.00	ND	ug/L	U
1,1-Dichloroethene	75-35-4	1	0.10	0.20	ND	ug/L	U
Iodomethane	74-88-4	1	0.50	1.00	ND	ug/L	U
Methylene Chloride	75-09-2	1	1.00	1.00	ND	ug/L	U
Acrylonitrile	107-13-1	1	0.50	1.00	ND	ug/L	U
Carbon Disulfide	75-15-0	1	0.20	0.20	ND	ug/L	U
trans-1,2-Dichloroethene	156-60-5	1	0.10	0.20	ND	ug/L	U
Vinyl Acetate	108-05-4	1	0.20	0.20	ND	ug/L	U
1,1-Dichloroethane	75-34-3	1	0.10	0.20	ND	ug/L	U
2-Butanone	78-93-3	1	2.50	5.00	ND	ug/L	U
2,2-Dichloropropane	594-20-7	1	0.20	0.20	ND	ug/L	U
cis-1,2-Dichloroethene	156-59-2	1	0.10	0.20	ND	ug/L	U
Chloroform	67-66-3	1	0.10	0.20	ND	ug/L	U
Bromochloromethane	74-97-5	1	0.10	0.20	ND	ug/L	U
1,1,1-Trichloroethane	71-55-6	1	0.10	0.20	ND	ug/L	U
1,1-Dichloropropene	563-58-6	1	0.10	0.20	ND	ug/L	U
Carbon tetrachloride	56-23-5	1	0.10	0.20	ND	ug/L	U
1,2-Dichloroethane	107-06-2	1	0.10	0.20	ND	ug/L	U
Benzene	71-43-2	1	0.10	0.20	ND	ug/L	U
Trichloroethene	79-01-6	1	0.10	0.20	ND	ug/L	U
1,2-Dichloropropane	78-87-5	1	0.10	0.20	ND	ug/L	U
Bromodichloromethane	75-27-4	1	0.10	0.20	ND	ug/L	U
Dibromomethane	74-95-3	1	0.10	0.20	ND	ug/L	U
2-Chloroethyl vinyl ether	110-75-8	1	1.00	1.00	ND	ug/L	U
4-Methyl-2-Pentanone	108-10-1	1	2.50	5.00	ND	ug/L	U
cis-1,3-Dichloropropene	10061-01-5	1	0.10	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.10	0.20	ND	ug/L	U
trans-1,3-Dichloropropene	10061-02-6	1	0.10	0.20	ND	ug/L	U
2-Hexanone	591-78-6	1	2.50	5.00	ND	ug/L	U
1,1,2-Trichloroethane	79-00-5	1	0.20	0.20	ND	ug/L	U
1,3-Dichloropropane	142-28-9	1	0.10	0.20	ND	ug/L	U
Tetrachloroethene	127-18-4	1	0.10	0.20	ND	ug/L	U



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1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Trip Blank
25I0372-07 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 09/16/2025 11:00

Instrument: NT20 Analyst: LTN

Analyzed: 09/22/2025 12:18

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dibromochloromethane	124-48-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromoethane	106-93-4	1	0.10	0.20	ND	ug/L	U
Chlorobenzene	108-90-7	1	0.10	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.10	0.20	ND	ug/L	U
1,1,1,2-Tetrachloroethane	630-20-6	1	0.10	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.20	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.10	0.20	ND	ug/L	U
Xylenes, total	1330-20-7	1	0.30	0.60	ND	ug/L	U
Styrene	100-42-5	1	0.10	0.20	ND	ug/L	U
Bromoform	75-25-2	1	0.20	0.20	ND	ug/L	U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.20	0.20	ND	ug/L	U
1,2,3-Trichloropropane	96-18-4	1	0.25	0.50	ND	ug/L	U
trans-1,4-Dichloro 2-Butene	110-57-6	1	1.00	1.00	ND	ug/L	U
n-Propylbenzene	103-65-1	1	0.10	0.20	ND	ug/L	U
Bromobenzene	108-86-1	1	0.10	0.20	ND	ug/L	U
Isopropyl Benzene	98-82-8	1	0.10	0.20	ND	ug/L	U
2-Chlorotoluene	95-49-8	1	0.10	0.20	ND	ug/L	U
4-Chlorotoluene	106-43-4	1	0.10	0.20	ND	ug/L	U
t-Butylbenzene	98-06-6	1	0.10	0.20	ND	ug/L	U
1,3,5-Trimethylbenzene	108-67-8	1	0.10	0.20	ND	ug/L	U
1,2,4-Trimethylbenzene	95-63-6	1	0.10	0.20	ND	ug/L	U
s-Butylbenzene	135-98-8	1	0.10	0.20	ND	ug/L	U
4-Isopropyl Toluene	99-87-6	1	0.10	0.20	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	1	0.10	0.20	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	1	0.20	0.20	ND	ug/L	U
n-Butylbenzene	104-51-8	1	0.20	0.20	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromo-3-chloropropane	96-12-8	1	0.50	0.50	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	1	0.25	0.50	ND	ug/L	U
Hexachloro-1,3-Butadiene	87-68-3	1	0.50	0.50	ND	ug/L	U
Naphthalene	91-20-3	1	0.50	0.50	ND	ug/L	U
1,2,3-Trichlorobenzene	87-61-6	1	0.50	0.50	ND	ug/L	U
Dichlorodifluoromethane	75-71-8	1	0.20	0.20	ND	ug/L	U
Methyl tert-butyl Ether	1634-04-4	1	0.25	0.50	ND	ug/L	U
2-Pentanone	107-87-9	1	2.50	5.00	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	92.8	%	
Surrogate: Toluene-d8				80-120 %	100	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	99.3	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	98.2	%	



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Project: Snipes MTN Landfill 2025
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Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Trip Blank
25I0372-07 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260D-SIM

Sampled: 09/16/2025 11:00

Instrument: NT16 Analyst: LTN

Analyzed: 09/24/2025 09:26

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25I0372-07 B

Preparation Batch: BNI0497

Sample Size: 10 mL

Prepared: 09/24/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl chloride	75-01-4	1	10.0	20.0	ND	ng/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	89.1	%	
Surrogate: Toluene-d8				80-120 %	96.3	%	
Surrogate: 4-Bromofluorobenzene				75-125 %	93.4	%	



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Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNI0453 - EPA 8260D in Water

Instrument: NT20 Analyst: LTN

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0453-BLK1)						Prepared: 22-Sep-2025 Analyzed: 22-Sep-2025 09:53					
Chloromethane	ND	0.50	0.50	ug/L							U
Vinyl Chloride	ND	0.10	0.20	ug/L							U
Bromomethane	ND	1.00	1.00	ug/L							U
Chloroethane	ND	0.20	0.20	ug/L							U
Trichlorofluoromethane	ND	0.20	0.20	ug/L							U
Acrolein	ND	5.00	5.00	ug/L							U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.20	0.20	ug/L							U
Acetone	ND	5.00	5.00	ug/L							U
1,1-Dichloroethene	ND	0.10	0.20	ug/L							U
Iodomethane	ND	0.50	1.00	ug/L							U
Methylene Chloride	ND	1.00	1.00	ug/L							U
Acrylonitrile	ND	0.50	1.00	ug/L							U
Carbon Disulfide	ND	0.20	0.20	ug/L							U
trans-1,2-Dichloroethene	ND	0.10	0.20	ug/L							U
Vinyl Acetate	ND	0.20	0.20	ug/L							U
1,1-Dichloroethane	ND	0.10	0.20	ug/L							U
2-Butanone	ND	2.50	5.00	ug/L							U
2,2-Dichloropropane	ND	0.20	0.20	ug/L							U
cis-1,2-Dichloroethene	ND	0.10	0.20	ug/L							U
Chloroform	ND	0.10	0.20	ug/L							U
Bromochloromethane	ND	0.10	0.20	ug/L							U
1,1,1-Trichloroethane	ND	0.10	0.20	ug/L							U
1,1-Dichloropropene	ND	0.10	0.20	ug/L							U
Carbon tetrachloride	ND	0.10	0.20	ug/L							U
1,2-Dichloroethane	ND	0.10	0.20	ug/L							U
Benzene	ND	0.10	0.20	ug/L							U
Trichloroethene	ND	0.10	0.20	ug/L							U
1,2-Dichloropropane	ND	0.10	0.20	ug/L							U
Bromodichloromethane	ND	0.10	0.20	ug/L							U
Dibromomethane	ND	0.10	0.20	ug/L							U
2-Chloroethyl vinyl ether	ND	1.00	1.00	ug/L							U
4-Methyl-2-Pentanone	ND	2.50	5.00	ug/L							U
cis-1,3-Dichloropropene	ND	0.10	0.20	ug/L							U
Toluene	ND	0.10	0.20	ug/L							U
trans-1,3-Dichloropropene	ND	0.10	0.20	ug/L							U
2-Hexanone	ND	2.50	5.00	ug/L							U
1,1,2-Trichloroethane	ND	0.20	0.20	ug/L							U
1,3-Dichloropropane	ND	0.10	0.20	ug/L							U
Tetrachloroethene	ND	0.10	0.20	ug/L							U
Dibromochloromethane	ND	0.10	0.20	ug/L							U
1,2-Dibromoethane	ND	0.10	0.20	ug/L							U



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Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNI0453 - EPA 8260D in Water

Instrument: NT20 Analyst: LTN

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0453-BLK1)						Prepared: 22-Sep-2025 Analyzed: 22-Sep-2025 09:53					
Chlorobenzene	ND	0.10	0.20	ug/L							U
Ethylbenzene	ND	0.10	0.20	ug/L							U
1,1,1,2-Tetrachloroethane	ND	0.10	0.20	ug/L							U
m,p-Xylene	ND	0.20	0.40	ug/L							U
o-Xylene	ND	0.10	0.20	ug/L							U
Xylenes, total	ND	0.30	0.60	ug/L							U
Styrene	ND	0.10	0.20	ug/L							U
Bromoform	ND	0.20	0.20	ug/L							U
1,1,2,2-Tetrachloroethane	ND	0.20	0.20	ug/L							U
1,2,3-Trichloropropane	ND	0.25	0.50	ug/L							U
trans-1,4-Dichloro 2-Butene	ND	1.00	1.00	ug/L							U
n-Propylbenzene	ND	0.10	0.20	ug/L							U
Bromobenzene	ND	0.10	0.20	ug/L							U
Isopropyl Benzene	ND	0.10	0.20	ug/L							U
2-Chlorotoluene	ND	0.10	0.20	ug/L							U
4-Chlorotoluene	ND	0.10	0.20	ug/L							U
t-Butylbenzene	ND	0.10	0.20	ug/L							U
1,3,5-Trimethylbenzene	ND	0.10	0.20	ug/L							U
1,2,4-Trimethylbenzene	ND	0.10	0.20	ug/L							U
s-Butylbenzene	ND	0.10	0.20	ug/L							U
4-Isopropyl Toluene	ND	0.10	0.20	ug/L							U
1,3-Dichlorobenzene	ND	0.10	0.20	ug/L							U
1,4-Dichlorobenzene	ND	0.20	0.20	ug/L							U
n-Butylbenzene	ND	0.20	0.20	ug/L							U
1,2-Dichlorobenzene	ND	0.10	0.20	ug/L							U
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L							U
1,2,4-Trichlorobenzene	ND	0.25	0.50	ug/L							U
Hexachloro-1,3-Butadiene	ND	0.50	0.50	ug/L							U
Naphthalene	ND	0.50	0.50	ug/L							U
1,2,3-Trichlorobenzene	ND	0.50	0.50	ug/L							U
Dichlorodifluoromethane	ND	0.20	0.20	ug/L							U
Methyl tert-butyl Ether	ND	0.25	0.50	ug/L							U
2-Pentanone	ND	2.50	5.00	ug/L							U
Surrogate: 1,2-Dichloroethane-d4	5.84			ug/L	6.25		93.5	80-129			
Surrogate: Toluene-d8	6.24			ug/L	6.25		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	6.16			ug/L	6.25		98.6	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.83			ug/L	5.00		96.7	80-120			
LCS (BNI0453-BS1)						Prepared: 22-Sep-2025 Analyzed: 22-Sep-2025 08:43					
Chloromethane	8.15	0.50	0.50	ug/L	10.0		81.5	60-138			
Vinyl Chloride	8.65	0.10	0.20	ug/L	10.0		86.5	66-133			
Bromomethane	8.47	1.00	1.00	ug/L	10.0		84.7	72-131			



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Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNI0453 - EPA 8260D in Water

Instrument: NT20 Analyst: LTN

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNI0453-BS1)						Prepared: 22-Sep-2025 Analyzed: 22-Sep-2025 08:43					
Chloroethane	9.00	0.20	0.20	ug/L	10.0		90.0	60-155			
Trichlorofluoromethane	9.07	0.20	0.20	ug/L	10.0		90.7	62-141			
Acrolein	45.7	5.00	5.00	ug/L	50.0		91.4	52-190			
1,1,2-Trichloro-1,2,2-Trifluoroethane	9.31	0.20	0.20	ug/L	10.0		93.1	76-129			
Acetone	40.6	5.00	5.00	ug/L	50.0		81.2	58-142			
1,1-Dichloroethene	8.70	0.10	0.20	ug/L	10.0		87.0	69-135			
Iodomethane	9.02	0.50	1.00	ug/L	10.0		90.2	56-147			
Methylene Chloride	7.97	1.00	1.00	ug/L	10.0		79.7	65-135			Q
Acrylonitrile	7.82	0.50	1.00	ug/L	10.0		78.2	64-134			Q
Carbon Disulfide	8.24	0.20	0.20	ug/L	10.0		82.4	78-125			
trans-1,2-Dichloroethene	9.22	0.10	0.20	ug/L	10.0		92.2	78-128			
Vinyl Acetate	8.61	0.20	0.20	ug/L	10.0		86.1	55-138			
1,1-Dichloroethane	8.77	0.10	0.20	ug/L	10.0		87.7	76-124			
2-Butanone	40.6	2.50	5.00	ug/L	50.0		81.1	61-140			
2,2-Dichloropropane	8.65	0.20	0.20	ug/L	10.0		86.5	66-147			
cis-1,2-Dichloroethene	8.52	0.10	0.20	ug/L	10.0		85.2	80-121			
Chloroform	8.60	0.10	0.20	ug/L	10.0		86.0	80-122			
Bromochloromethane	9.21	0.10	0.20	ug/L	10.0		92.1	80-121			
1,1,1-Trichloroethane	8.62	0.10	0.20	ug/L	10.0		86.2	79-123			
1,1-Dichloropropene	9.21	0.10	0.20	ug/L	10.0		92.1	80-127			
Carbon tetrachloride	9.25	0.10	0.20	ug/L	10.0		92.5	53-137			
1,2-Dichloroethane	8.91	0.10	0.20	ug/L	10.0		89.1	75-123			
Benzene	9.22	0.10	0.20	ug/L	10.0		92.2	80-120			
Trichloroethene	9.78	0.10	0.20	ug/L	10.0		97.8	80-120			
1,2-Dichloropropane	9.20	0.10	0.20	ug/L	10.0		92.0	80-120			
Bromodichloromethane	8.98	0.10	0.20	ug/L	10.0		89.8	80-121			
Dibromomethane	9.15	0.10	0.20	ug/L	10.0		91.5	80-120			
2-Chloroethyl vinyl ether	8.49	1.00	1.00	ug/L	10.0		84.9	64-120			
4-Methyl-2-Pentanone	43.1	2.50	5.00	ug/L	50.0		86.1	67-133			
cis-1,3-Dichloropropene	9.11	0.10	0.20	ug/L	10.0		91.1	80-124			
Toluene	9.21	0.10	0.20	ug/L	10.0		92.1	80-120			
trans-1,3-Dichloropropene	9.08	0.10	0.20	ug/L	10.0		90.8	71-127			
2-Hexanone	39.4	2.50	5.00	ug/L	50.0		78.7	69-133			Q
1,1,2-Trichloroethane	9.03	0.20	0.20	ug/L	10.0		90.3	80-121			
1,3-Dichloropropane	8.14	0.10	0.20	ug/L	10.0		81.4	80-120			
Tetrachloroethene	9.37	0.10	0.20	ug/L	10.0		93.7	80-120			
Dibromochloromethane	8.82	0.10	0.20	ug/L	10.0		88.2	65-135			
1,2-Dibromoethane	9.14	0.10	0.20	ug/L	10.0		91.4	80-121			
Chlorobenzene	8.86	0.10	0.20	ug/L	10.0		88.6	80-120			
Ethylbenzene	8.74	0.10	0.20	ug/L	10.0		87.4	80-120			
1,1,1,2-Tetrachloroethane	8.87	0.10	0.20	ug/L	10.0		88.7	80-120			



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Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNI0453 - EPA 8260D in Water

Instrument: NT20 Analyst: LTN

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNI0453-BS1)						Prepared: 22-Sep-2025 Analyzed: 22-Sep-2025 08:43					
m,p-Xylene	17.6	0.20	0.40	ug/L	20.0		87.8	80-121			
o-Xylene	8.85	0.10	0.20	ug/L	10.0		88.5	80-121			
Xylenes, total	26.4	0.30	0.60	ug/L	30.0		88.1	76-127			
Styrene	9.12	0.10	0.20	ug/L	10.0		91.2	80-124			
Bromoform	8.41	0.20	0.20	ug/L	10.0		84.1	51-134			
1,1,2,2-Tetrachloroethane	7.41	0.20	0.20	ug/L	10.0		74.1	77-123			*, Q
1,2,3-Trichloropropane	7.77	0.25	0.50	ug/L	10.0		77.7	76-125			Q
trans-1,4-Dichloro 2-Butene	8.26	1.00	1.00	ug/L	10.0		82.6	55-129			
n-Propylbenzene	8.27	0.10	0.20	ug/L	10.0		82.7	78-130			
Bromobenzene	8.44	0.10	0.20	ug/L	10.0		84.4	80-120			
Isopropyl Benzene	8.26	0.10	0.20	ug/L	10.0		82.6	80-128			
2-Chlorotoluene	8.40	0.10	0.20	ug/L	10.0		84.0	78-122			
4-Chlorotoluene	8.49	0.10	0.20	ug/L	10.0		84.9	80-121			
t-Butylbenzene	8.35	0.10	0.20	ug/L	10.0		83.5	78-125			
1,3,5-Trimethylbenzene	8.18	0.10	0.20	ug/L	10.0		81.8	80-129			
1,2,4-Trimethylbenzene	8.45	0.10	0.20	ug/L	10.0		84.5	80-127			
s-Butylbenzene	8.56	0.10	0.20	ug/L	10.0		85.6	78-129			
4-Isopropyl Toluene	8.56	0.10	0.20	ug/L	10.0		85.6	79-130			
1,3-Dichlorobenzene	8.54	0.10	0.20	ug/L	10.0		85.4	80-120			
1,4-Dichlorobenzene	8.43	0.20	0.20	ug/L	10.0		84.3	80-120			
n-Butylbenzene	8.58	0.20	0.20	ug/L	10.0		85.8	74-129			
1,2-Dichlorobenzene	8.57	0.10	0.20	ug/L	10.0		85.7	80-120			
1,2-Dibromo-3-chloropropane	7.74	0.50	0.50	ug/L	10.0		77.4	62-123			Q
1,2,4-Trichlorobenzene	8.68	0.25	0.50	ug/L	10.0		86.8	64-124			
Hexachloro-1,3-Butadiene	8.94	0.50	0.50	ug/L	10.0		89.4	65-145			
Naphthalene	8.49	0.50	0.50	ug/L	10.0		84.9	50-134			
1,2,3-Trichlorobenzene	8.71	0.50	0.50	ug/L	10.0		87.1	49-133			
Dichlorodifluoromethane	7.48	0.20	0.20	ug/L	10.0		74.8	48-147			Q
Methyl tert-butyl Ether	8.35	0.25	0.50	ug/L	10.0		83.5	71-132			
2-Pentanone	43.1	2.50	5.00	ug/L	50.0		86.2	69-134			
Surrogate: 1,2-Dichloroethane-d4	5.69			ug/L	6.25		91.1	80-129			
Surrogate: Toluene-d8	6.45			ug/L	6.25		103	80-120			
Surrogate: 4-Bromofluorobenzene	6.31			ug/L	6.25		101	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.85			ug/L	5.00		97.0	80-120			
LCS Dup (BNI0453-BSD1)						Prepared: 22-Sep-2025 Analyzed: 22-Sep-2025 09:06					
Chloromethane	8.31	0.50	0.50	ug/L	10.0		83.1	60-138	1.95	30	
Vinyl Chloride	8.70	0.10	0.20	ug/L	10.0		87.0	66-133	0.67	30	
Bromomethane	8.69	1.00	1.00	ug/L	10.0		86.9	72-131	2.65	30	
Chloroethane	8.97	0.20	0.20	ug/L	10.0		89.7	60-155	0.28	30	
Trichlorofluoromethane	9.18	0.20	0.20	ug/L	10.0		91.8	62-141	1.21	30	
Acrolein	42.0	5.00	5.00	ug/L	50.0		83.9	52-190	8.55	30	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNI0453 - EPA 8260D in Water

Instrument: NT20 Analyst: LTN

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BNI0453-BSD1)						Prepared: 22-Sep-2025 Analyzed: 22-Sep-2025 09:06					
1,1,2-Trichloro-1,2,2-Trifluoroethane	9.55	0.20	0.20	ug/L	10.0		95.5	76-129	2.53	30	
Acetone	36.0	5.00	5.00	ug/L	50.0		72.0	58-142	12.00	30	
1,1-Dichloroethene	8.72	0.10	0.20	ug/L	10.0		87.2	69-135	0.20	30	
Iodomethane	9.03	0.50	1.00	ug/L	10.0		90.3	56-147	0.12	30	
Methylene Chloride	8.00	1.00	1.00	ug/L	10.0		80.0	65-135	0.43	30	Q
Acrylonitrile	7.11	0.50	1.00	ug/L	10.0		71.1	64-134	9.43	30	Q
Carbon Disulfide	8.40	0.20	0.20	ug/L	10.0		84.0	78-125	1.97	30	
trans-1,2-Dichloroethene	9.17	0.10	0.20	ug/L	10.0		91.7	78-128	0.59	30	
Vinyl Acetate	8.16	0.20	0.20	ug/L	10.0		81.6	55-138	5.31	30	
1,1-Dichloroethane	8.74	0.10	0.20	ug/L	10.0		87.4	76-124	0.35	30	
2-Butanone	37.9	2.50	5.00	ug/L	50.0		75.8	61-140	6.75	30	
2,2-Dichloropropane	9.08	0.20	0.20	ug/L	10.0		90.8	66-147	4.93	30	
cis-1,2-Dichloroethene	8.61	0.10	0.20	ug/L	10.0		86.1	80-121	1.11	30	
Chloroform	8.65	0.10	0.20	ug/L	10.0		86.5	80-122	0.61	30	
Bromochloromethane	8.99	0.10	0.20	ug/L	10.0		89.9	80-121	2.42	30	
1,1,1-Trichloroethane	8.59	0.10	0.20	ug/L	10.0		85.9	79-123	0.31	30	
1,1-Dichloropropene	9.01	0.10	0.20	ug/L	10.0		90.1	80-127	2.14	30	
Carbon tetrachloride	9.00	0.10	0.20	ug/L	10.0		90.0	53-137	2.79	30	
1,2-Dichloroethane	8.40	0.10	0.20	ug/L	10.0		84.0	75-123	5.95	30	
Benzene	9.04	0.10	0.20	ug/L	10.0		90.4	80-120	1.98	30	
Trichloroethene	9.55	0.10	0.20	ug/L	10.0		95.5	80-120	2.41	30	
1,2-Dichloropropane	8.84	0.10	0.20	ug/L	10.0		88.4	80-120	3.99	30	
Bromodichloromethane	8.68	0.10	0.20	ug/L	10.0		86.8	80-121	3.38	30	
Dibromomethane	8.73	0.10	0.20	ug/L	10.0		87.3	80-120	4.75	30	
2-Chloroethyl vinyl ether	8.03	1.00	1.00	ug/L	10.0		80.3	64-120	5.58	30	
4-Methyl-2-Pentanone	39.9	2.50	5.00	ug/L	50.0		79.9	67-133	7.58	30	
cis-1,3-Dichloropropene	8.76	0.10	0.20	ug/L	10.0		87.6	80-124	3.82	30	
Toluene	8.90	0.10	0.20	ug/L	10.0		89.0	80-120	3.48	30	
trans-1,3-Dichloropropene	8.63	0.10	0.20	ug/L	10.0		86.3	71-127	5.12	30	
2-Hexanone	36.5	2.50	5.00	ug/L	50.0		73.0	69-133	7.57	30	Q
1,1,2-Trichloroethane	8.49	0.20	0.20	ug/L	10.0		84.9	80-121	6.10	30	
1,3-Dichloropropane	7.86	0.10	0.20	ug/L	10.0		78.6	80-120	3.56	30	*
Tetrachloroethene	9.31	0.10	0.20	ug/L	10.0		93.1	80-120	0.70	30	
Dibromochloromethane	8.47	0.10	0.20	ug/L	10.0		84.7	65-135	4.03	30	
1,2-Dibromoethane	8.63	0.10	0.20	ug/L	10.0		86.3	80-121	5.73	30	
Chlorobenzene	8.60	0.10	0.20	ug/L	10.0		86.0	80-120	3.01	30	
Ethylbenzene	8.63	0.10	0.20	ug/L	10.0		86.3	80-120	1.32	30	
1,1,1,2-Tetrachloroethane	8.58	0.10	0.20	ug/L	10.0		85.8	80-120	3.31	30	
m,p-Xylene	17.4	0.20	0.40	ug/L	20.0		86.9	80-121	1.02	30	
o-Xylene	8.70	0.10	0.20	ug/L	10.0		87.0	80-121	1.78	30	
Xylenes, total	26.1	0.30	0.60	ug/L	30.0		86.9	76-127	1.27	30	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNI0453 - EPA 8260D in Water

Instrument: NT20 Analyst: LTN

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BNI0453-BSD1)						Prepared: 22-Sep-2025 Analyzed: 22-Sep-2025 09:06					
Styrene	8.93	0.10	0.20	ug/L	10.0		89.3	80-124	2.09	30	
Bromoform	8.14	0.20	0.20	ug/L	10.0		81.4	51-134	3.19	30	
1,1,2,2-Tetrachloroethane	7.24	0.20	0.20	ug/L	10.0		72.4	77-123	2.30	30	*, Q
1,2,3-Trichloropropane	7.36	0.25	0.50	ug/L	10.0		73.6	76-125	5.31	30	*, Q
trans-1,4-Dichloro 2-Butene	7.89	1.00	1.00	ug/L	10.0		78.9	55-129	4.67	30	
n-Propylbenzene	8.16	0.10	0.20	ug/L	10.0		81.6	78-130	1.29	30	
Bromobenzene	8.40	0.10	0.20	ug/L	10.0		84.0	80-120	0.48	30	
Isopropyl Benzene	8.22	0.10	0.20	ug/L	10.0		82.2	80-128	0.49	30	
2-Chlorotoluene	8.38	0.10	0.20	ug/L	10.0		83.8	78-122	0.19	30	
4-Chlorotoluene	8.43	0.10	0.20	ug/L	10.0		84.3	80-121	0.70	30	
t-Butylbenzene	8.34	0.10	0.20	ug/L	10.0		83.4	78-125	0.20	30	
1,3,5-Trimethylbenzene	8.18	0.10	0.20	ug/L	10.0		81.8	80-129	0.04	30	
1,2,4-Trimethylbenzene	8.36	0.10	0.20	ug/L	10.0		83.6	80-127	1.10	30	
s-Butylbenzene	8.59	0.10	0.20	ug/L	10.0		85.9	78-129	0.30	30	
4-Isopropyl Toluene	8.60	0.10	0.20	ug/L	10.0		86.0	79-130	0.47	30	
1,3-Dichlorobenzene	8.51	0.10	0.20	ug/L	10.0		85.1	80-120	0.30	30	
1,4-Dichlorobenzene	8.53	0.20	0.20	ug/L	10.0		85.3	80-120	1.12	30	
n-Butylbenzene	8.59	0.20	0.20	ug/L	10.0		85.9	74-129	0.12	30	
1,2-Dichlorobenzene	8.36	0.10	0.20	ug/L	10.0		83.6	80-120	2.51	30	
1,2-Dibromo-3-chloropropane	7.28	0.50	0.50	ug/L	10.0		72.8	62-123	6.07	30	Q
1,2,4-Trichlorobenzene	8.58	0.25	0.50	ug/L	10.0		85.8	64-124	1.14	30	
Hexachloro-1,3-Butadiene	9.01	0.50	0.50	ug/L	10.0		90.1	65-145	0.82	30	
Naphthalene	8.06	0.50	0.50	ug/L	10.0		80.6	50-134	5.28	30	
1,2,3-Trichlorobenzene	8.43	0.50	0.50	ug/L	10.0		84.3	49-133	3.29	30	
Dichlorodifluoromethane	8.01	0.20	0.20	ug/L	10.0		80.1	48-147	6.87	30	Q
Methyl tert-butyl Ether	8.12	0.25	0.50	ug/L	10.0		81.2	71-132	2.84	30	
2-Pentanone	39.0	2.50	5.00	ug/L	50.0		77.9	69-134	10.10	30	
Surrogate: 1,2-Dichloroethane-d4	5.55			ug/L	6.25		88.7	80-129			
Surrogate: Toluene-d8	6.34			ug/L	6.25		101	80-120			
Surrogate: 4-Bromofluorobenzene	6.33			ug/L	6.25		101	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.85			ug/L	5.00		97.0	80-120			



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - SIM - Quality Control

Batch BNI0497 - EPA 8260D-SIM in Water

Instrument: NT16 Analyst: LTN

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0497-BLK1)						Prepared: 24-Sep-2025 Analyzed: 24-Sep-2025 08:52					
Vinyl chloride	ND	10.0	20.0	ng/L							U
Surrogate: 1,2-Dichloroethane-d4	4620			ng/L	5000		92.5	80-129			
Surrogate: Toluene-d8	4690			ng/L	5000		93.9	80-120			
Surrogate: 4-Bromofluorobenzene	4450			ng/L	5000		89.1	75-125			
LCS (BNI0497-BS1)						Prepared: 24-Sep-2025 Analyzed: 24-Sep-2025 08:11					
Vinyl chloride	2310	10.0	20.0	ng/L	2000		115	62-141			
Surrogate: 1,2-Dichloroethane-d4	4750			ng/L	5000		94.9	80-129			
Surrogate: Toluene-d8	5090			ng/L	5000		102	80-120			
Surrogate: 4-Bromofluorobenzene	4960			ng/L	5000		99.3	75-125			
LCS Dup (BNI0497-BSD1)						Prepared: 24-Sep-2025 Analyzed: 24-Sep-2025 08:32					
Vinyl chloride	2070	10.0	20.0	ng/L	2000		103	62-141	10.90	30	
Surrogate: 1,2-Dichloroethane-d4	4700			ng/L	5000		94.1	80-129			
Surrogate: Toluene-d8	4940			ng/L	5000		98.8	80-120			
Surrogate: 4-Bromofluorobenzene	5020			ng/L	5000		100	75-125			



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNI0440 - EPA 8270E in Water

Instrument: NT6 Analyst: JZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0440-BLK1)					Prepared: 22-Sep-2025 Analyzed: 01-Oct-2025 11:23					
1,4-Dioxane	ND	0.2	0.4	ug/L						U
LCS (BNI0440-BS1)					Prepared: 22-Sep-2025 Analyzed: 01-Oct-2025 12:05					
1,4-Dioxane	11.5	0.2	0.4	ug/L	20.0	57.4	30-160			
LCS Dup (BNI0440-BSD1)					Prepared: 22-Sep-2025 Analyzed: 01-Oct-2025 12:30					
1,4-Dioxane	11.5	0.2	0.4	ug/L	20.0	57.7	30-160	0.40	30	



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Project: Snipes MTN Landfill 2025
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Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNI0442 - EPA 8270E in Water

Instrument: NT10 Analyst: RJL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0442-BLK1)						Prepared: 22-Sep-2025 Analyzed: 25-Sep-2025 12:48					
Phenol	ND	0.1	0.2	ug/L							U
bis(2-chloroethyl) ether	ND	0.1	0.2	ug/L							U
2-Chlorophenol	ND	0.1	0.2	ug/L							U
1,3-Dichlorobenzene	ND	0.1	0.2	ug/L							U
1,4-Dichlorobenzene	ND	0.1	0.2	ug/L							U
1,2-Dichlorobenzene	ND	0.1	0.2	ug/L							U
Benzyl Alcohol	ND	0.1	0.2	ug/L							U
2,2'-Oxybis(1-chloropropane)	ND	0.1	0.2	ug/L							U
2-Methylphenol	ND	0.1	0.2	ug/L							U
Hexachloroethane	ND	0.1	0.2	ug/L							U
N-Nitroso-di-n-Propylamine	ND	0.1	0.2	ug/L							U
4-Methylphenol	ND	0.1	0.2	ug/L							U
Nitrobenzene	ND	0.1	0.2	ug/L							U
Isophorone	ND	0.1	0.2	ug/L							U
2-Nitrophenol	ND	0.5	1.0	ug/L							U
2,4-Dimethylphenol	ND	0.5	1.0	ug/L							U
Bis(2-Chloroethoxy)methane	ND	0.1	0.2	ug/L							U
2,4-Dichlorophenol	ND	0.5	1.0	ug/L							U
1,2,4-Trichlorobenzene	ND	0.1	0.2	ug/L							U
Naphthalene	ND	0.1	0.2	ug/L							U
Benzoic acid	ND	1.0	2.0	ug/L							U
4-Chloroaniline	ND	0.5	1.0	ug/L							U
Hexachlorobutadiene	ND	0.1	0.2	ug/L							U
4-Chloro-3-Methylphenol	ND	0.5	1.0	ug/L							U
2-Methylnaphthalene	ND	0.1	0.2	ug/L							U
Hexachlorocyclopentadiene	ND	0.5	1.0	ug/L							U
2,4,6-Trichlorophenol	ND	0.5	1.0	ug/L							U
2,4,5-Trichlorophenol	ND	0.5	1.0	ug/L							U
2-Chloronaphthalene	ND	0.1	0.2	ug/L							U
2-Nitroaniline	ND	0.5	1.0	ug/L							U
Acenaphthylene	ND	0.1	0.2	ug/L							U
Dimethylphthalate	ND	0.1	0.2	ug/L							U
2,6-Dinitrotoluene	ND	0.5	1.0	ug/L							U
Acenaphthene	ND	0.1	0.2	ug/L							U
3-Nitroaniline	ND	0.5	1.0	ug/L							U
2,4-Dinitrophenol	ND	1.0	2.0	ug/L							U
Dibenzofuran	ND	0.1	0.2	ug/L							U
4-Nitrophenol	ND	0.5	1.0	ug/L							U
2,4-Dinitrotoluene	ND	0.5	1.0	ug/L							U
Fluorene	ND	0.1	0.2	ug/L							U
4-Chlorophenylphenyl ether	ND	0.1	0.2	ug/L							U



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Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNI0442 - EPA 8270E in Water

Instrument: NT10 Analyst: RJL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0442-BLK1)											
Prepared: 22-Sep-2025						Analyzed: 25-Sep-2025 12:48					
Diethyl phthalate	ND	0.1	0.2	ug/L							U
4-Nitroaniline	ND	0.5	1.0	ug/L							U
4,6-Dinitro-2-methylphenol	ND	1.0	2.0	ug/L							U
N-Nitrosodiphenylamine	ND	0.1	0.2	ug/L							U
4-Bromophenyl phenyl ether	ND	0.1	0.2	ug/L							U
Hexachlorobenzene	ND	0.1	0.2	ug/L							U
Pentachlorophenol	ND	0.5	1.0	ug/L							U
Phenanthrene	ND	0.1	0.2	ug/L							U
Anthracene	ND	0.1	0.2	ug/L							U
Carbazole	ND	0.1	0.2	ug/L							U
Di-n-Butylphthalate	ND	0.1	0.2	ug/L							U
Fluoranthene	ND	0.1	0.2	ug/L							U
Pyrene	ND	0.1	0.2	ug/L							U
Butylbenzylphthalate	ND	0.1	0.2	ug/L							U
Benzo(a)anthracene	ND	0.1	0.2	ug/L							U
3,3'-Dichlorobenzidine	ND	0.5	1.0	ug/L							U
Chrysene	ND	0.1	0.2	ug/L							U
bis(2-Ethylhexyl)phthalate	5.4	0.2	0.2	ug/L							
Di-n-Octylphthalate	ND	0.1	0.2	ug/L							U
Benzofluoranthenes, Total	ND	0.2	0.4	ug/L							U
Benzo(a)pyrene	ND	0.1	0.2	ug/L							U
Indeno(1,2,3-cd)pyrene	ND	0.2	0.2	ug/L							U
Dibenzo(a,h)anthracene	ND	0.1	0.2	ug/L							U
Benzo(g,h,i)perylene	ND	0.1	0.2	ug/L							U
1-Methylnaphthalene	ND	0.1	0.2	ug/L							U
2,3,4,6-Tetrachlorophenol	ND	0.1	0.2	ug/L							U
Surrogate: 2-Fluorophenol	16.4			ug/L	20.0		82.2	30-160			
Surrogate: Phenol-d5	19.3			ug/L	20.0		96.6	30-160			
Surrogate: 2-Chlorophenol-d4	18.2			ug/L	20.0		91.2	30-160			
Surrogate: 1,2-Dichlorobenzene-d4	14.9			ug/L	20.0		74.5	30-160			
Surrogate: Nitrobenzene-d5	19.6			ug/L	20.0		98.0	30-160			
Surrogate: 2-Fluorobiphenyl	15.9			ug/L	20.0		79.4	30-160			
Surrogate: 2,4,6-Tribromophenol	16.9			ug/L	20.0		84.4	30-160			
Surrogate: p-Terphenyl-d14	18.4			ug/L	20.0		91.9	30-160			
LCS (BNI0442-BS1)											
Prepared: 22-Sep-2025						Analyzed: 25-Sep-2025 13:27					
Phenol	18.2	0.1	0.2	ug/L	20.0		91.2	30-160			
bis(2-chloroethyl) ether	8.8	0.1	0.2	ug/L	10.0		87.8	30-160			
2-Chlorophenol	17.2	0.1	0.2	ug/L	20.0		86.1	30-160			
1,3-Dichlorobenzene	5.8	0.1	0.2	ug/L	10.0		58.0	30-160			
1,4-Dichlorobenzene	5.8	0.1	0.2	ug/L	10.0		58.5	30-160			
1,2-Dichlorobenzene	6.4	0.1	0.2	ug/L	10.0		63.5	30-160			



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNI0442 - EPA 8270E in Water

Instrument: NT10 Analyst: RJL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNI0442-BS1)						Prepared: 22-Sep-2025 Analyzed: 25-Sep-2025 13:27					
Benzyl Alcohol	10.1	0.1	0.2	ug/L	10.0		101	30-160			
2,2'-Oxybis(1-chloropropane)	8.2	0.1	0.2	ug/L	10.0		82.1	30-160			
2-Methylphenol	18.6	0.1	0.2	ug/L	20.0		93.1	30-160			
Hexachloroethane	5.6	0.1	0.2	ug/L	10.0		56.0	30-160			
N-Nitroso-di-n-Propylamine	10.3	0.1	0.2	ug/L	10.0		103	30-160			
4-Methylphenol	19.8	0.1	0.2	ug/L	20.0		98.9	30-160			
Nitrobenzene	8.9	0.1	0.2	ug/L	10.0		89.2	30-160			
Isophorone	9.8	0.1	0.2	ug/L	10.0		97.9	30-160			
2-Nitrophenol	18.3	0.5	1.0	ug/L	20.0		91.5	30-160			
2,4-Dimethylphenol	17.0	0.5	1.0	ug/L	20.0		85.1	30-160			
Bis(2-Chloroethoxy)methane	8.8	0.1	0.2	ug/L	10.0		88.0	30-160			
2,4-Dichlorophenol	17.1	0.5	1.0	ug/L	20.0		85.7	30-160			
1,2,4-Trichlorobenzene	6.0	0.1	0.2	ug/L	10.0		60.5	30-160			
Naphthalene	7.2	0.1	0.2	ug/L	10.0		71.8	30-160			
Benzoic acid	33.3	1.0	2.0	ug/L	50.0		66.6	30-160			
4-Chloroaniline	2.1	0.5	1.0	ug/L	10.0		21.3	30-160			*, Q
Hexachlorobutadiene	5.1	0.1	0.2	ug/L	10.0		50.9	30-160			
4-Chloro-3-Methylphenol	18.7	0.5	1.0	ug/L	20.0		93.5	30-160			
2-Methylnaphthalene	7.6	0.1	0.2	ug/L	10.0		76.1	30-160			
Hexachlorocyclopentadiene	4.7	0.5	1.0	ug/L	10.0		46.7	30-160			
2,4,6-Trichlorophenol	17.6	0.5	1.0	ug/L	20.0		88.0	30-160			
2,4,5-Trichlorophenol	17.8	0.5	1.0	ug/L	20.0		88.8	30-160			
2-Chloronaphthalene	7.6	0.1	0.2	ug/L	10.0		75.8	30-160			
2-Nitroaniline	10.1	0.5	1.0	ug/L	10.0		101	30-160			
Acenaphthylene	8.6	0.1	0.2	ug/L	10.0		86.1	30-160			
Dimethylphthalate	9.2	0.1	0.2	ug/L	10.0		91.7	30-160			
2,6-Dinitrotoluene	9.6	0.5	1.0	ug/L	10.0		96.3	30-160			
Acenaphthene	8.4	0.1	0.2	ug/L	10.0		83.8	30-160			
3-Nitroaniline	4.5	0.5	1.0	ug/L	10.0		44.6	30-160			
2,4-Dinitrophenol	17.7	1.0	2.0	ug/L	20.0		88.5	30-160			
Dibenzofuran	8.5	0.1	0.2	ug/L	10.0		85.5	30-160			
4-Nitrophenol	22.5	0.5	1.0	ug/L	20.0		112	30-160			Q
2,4-Dinitrotoluene	10.0	0.5	1.0	ug/L	10.0		99.8	30-160			
Fluorene	9.1	0.1	0.2	ug/L	10.0		90.7	30-160			
4-Chlorophenylphenyl ether	8.8	0.1	0.2	ug/L	10.0		88.2	30-160			
Diethyl phthalate	9.7	0.1	0.2	ug/L	10.0		97.3	30-160			
4-Nitroaniline	5.6	0.5	1.0	ug/L	10.0		55.8	30-160			
4,6-Dinitro-2-methylphenol	18.4	1.0	2.0	ug/L	20.0		92.1	30-160			
N-Nitrosodiphenylamine	8.8	0.1	0.2	ug/L	10.0		88.3	30-160			
4-Bromophenyl phenyl ether	8.7	0.1	0.2	ug/L	10.0		86.9	30-160			
Hexachlorobenzene	8.0	0.1	0.2	ug/L	10.0		80.4	30-160			



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNI0442 - EPA 8270E in Water

Instrument: NT10 Analyst: RJL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNI0442-BS1)						Prepared: 22-Sep-2025 Analyzed: 25-Sep-2025 13:27					
Pentachlorophenol	20.4	0.5	1.0	ug/L	20.0		102	30-160			
Phenanthrene	8.6	0.1	0.2	ug/L	10.0		86.5	30-160			
Anthracene	9.2	0.1	0.2	ug/L	10.0		92.1	30-160			
Carbazole	8.5	0.1	0.2	ug/L	10.0		85.2	30-160			
Di-n-Butylphthalate	9.2	0.1	0.2	ug/L	10.0		92.3	30-160			
Fluoranthene	8.8	0.1	0.2	ug/L	10.0		88.4	30-160			
Pyrene	8.7	0.1	0.2	ug/L	10.0		86.6	30-160			
Butylbenzylphthalate	8.4	0.1	0.2	ug/L	10.0		84.4	30-160			
Benzo(a)anthracene	8.9	0.1	0.2	ug/L	10.0		89.2	30-160			
3,3'-Dichlorobenzidine	4.1	0.5	1.0	ug/L	10.0		41.4	30-160			
Chrysene	8.7	0.1	0.2	ug/L	10.0		87.0	30-160			
bis(2-Ethylhexyl)phthalate	9.2	0.2	0.2	ug/L	10.0		92.0	30-160			B
Di-n-Octylphthalate	8.4	0.1	0.2	ug/L	10.0		84.0	30-160			
Benzo(a)fluoranthene, Total	17.1	0.2	0.4	ug/L	20.0		85.3	30-160			
Benzo(a)pyrene	9.0	0.1	0.2	ug/L	10.0		89.6	30-160			
Indeno(1,2,3-cd)pyrene	11.4	0.2	0.2	ug/L	10.0		114	30-160			Q
Dibenzo(a,h)anthracene	11.6	0.1	0.2	ug/L	10.0		116	30-160			Q
Benzo(g,h,i)perylene	11.8	0.1	0.2	ug/L	10.0		118	30-160			Q
1-Methylnaphthalene	7.7	0.1	0.2	ug/L	10.0		77.1	30-160			
2,3,4,6-Tetrachlorophenol	9.4	0.1	0.2	ug/L	10.0		94.4	60.9-120			
Surrogate: 2-Fluorophenol	16.6			ug/L	20.0		82.8	30-160			
Surrogate: Phenol-d5	19.1			ug/L	20.0		95.7	30-160			
Surrogate: 2-Chlorophenol-d4	18.1			ug/L	20.0		90.3	30-160			
Surrogate: 1,2-Dichlorobenzene-d4	14.6			ug/L	20.0		73.2	30-160			
Surrogate: Nitrobenzene-d5	18.7			ug/L	20.0		93.3	30-160			
Surrogate: 2-Fluorobiphenyl	15.8			ug/L	20.0		78.8	30-160			
Surrogate: 2,4,6-Tribromophenol	18.2			ug/L	20.0		90.8	30-160			
Surrogate: p-Terphenyl-d14	17.5			ug/L	20.0		87.7	30-160			



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Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - SIM - Quality Control

Batch BNI0407 - EPA 8270E-SIM in Water

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0407-BLK1)						Prepared: 19-Sep-2025 Analyzed: 22-Sep-2025 15:37					
Naphthalene	ND	0.010	0.010	ug/L							U
2-Methylnaphthalene	ND	0.010	0.010	ug/L							U
1-Methylnaphthalene	ND	0.010	0.010	ug/L							U
Acenaphthylene	ND	0.010	0.010	ug/L							U
Acenaphthene	ND	0.010	0.010	ug/L							U
Dibenzofuran	ND	0.010	0.010	ug/L							U
Fluorene	ND	0.005	0.010	ug/L							U
Phenanthrene	ND	0.010	0.010	ug/L							U
Anthracene	ND	0.010	0.010	ug/L							U
Carbazole	ND	0.010	0.010	ug/L							U
Fluoranthene	ND	0.010	0.010	ug/L							U
Pyrene	ND	0.010	0.010	ug/L							U
Benzo(a)anthracene	ND	0.010	0.010	ug/L							U
Chrysene	ND	0.010	0.010	ug/L							U
Benzo(b)fluoranthene	ND	0.010	0.010	ug/L							U
Benzo(k)fluoranthene	ND	0.010	0.010	ug/L							U
Benzo(j)fluoranthene	ND	0.010	0.010	ug/L							U
# Benzofluoranthenes, Total	ND	0.010	0.010	ug/L							U
Benzo(a)pyrene	ND	0.010	0.010	ug/L							U
Perylene	ND	0.005	0.010	ug/L							U
Indeno(1,2,3-cd)pyrene	ND	0.010	0.010	ug/L							U
Dibenzo(a,h)anthracene	ND	0.010	0.010	ug/L							U
Benzo(g,h,i)perylene	ND	0.010	0.010	ug/L							U
Surrogate: 2-Methylnaphthalene-d10	0.283			ug/L	0.300		94.3	42-120			
Surrogate: Dibenzo[a,h]anthracene-d14	0.239			ug/L	0.308		77.7	29-120			
Surrogate: Fluoranthene-d10	0.258			ug/L	0.300		86.0	57-120			
LCS (BNI0407-BS1)						Prepared: 19-Sep-2025 Analyzed: 22-Sep-2025 16:09					
Naphthalene	0.242	0.010	0.010	ug/L	0.300		80.5	37-120			
2-Methylnaphthalene	0.260	0.010	0.010	ug/L	0.300		86.8	37-120			
1-Methylnaphthalene	0.262	0.010	0.010	ug/L	0.300		87.2	29-120			
Acenaphthylene	0.270	0.010	0.010	ug/L	0.300		90.0	41-120			
Acenaphthene	0.267	0.010	0.010	ug/L	0.300		88.9	41-120			
Dibenzofuran	0.278	0.010	0.010	ug/L	0.300		92.8	38-120			
Fluorene	0.258	0.005	0.010	ug/L	0.300		86.1	43-120			
Phenanthrene	0.249	0.010	0.010	ug/L	0.300		82.9	41-120			
Anthracene	0.274	0.010	0.010	ug/L	0.300		91.2	40-120			
Carbazole	0.255	0.010	0.010	ug/L	0.300		85.0	30-160			
Fluoranthene	0.250	0.010	0.010	ug/L	0.300		83.2	45-120			
Pyrene	0.277	0.010	0.010	ug/L	0.300		92.3	41-120			
Benzo(a)anthracene	0.253	0.010	0.010	ug/L	0.300		84.4	42-120			
Chrysene	0.234	0.010	0.010	ug/L	0.300		78.1	44-120			



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - SIM - Quality Control

Batch BNI0407 - EPA 8270E-SIM in Water

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BNI0407-BS1)					Prepared: 19-Sep-2025 Analyzed: 22-Sep-2025 16:09					
Benzo(b)fluoranthene	0.226	0.010	0.010	ug/L	0.300		75.4	44-120		
Benzo(k)fluoranthene	0.277	0.010	0.010	ug/L	0.300		92.4	50-120		
Benzo(j)fluoranthene	0.216	0.010	0.010	ug/L	0.300		71.9	39-160		
# Benzofluoranthenes, Total	0.716	0.010	0.010	ug/L	0.900		79.6	46-120		
Benzo(a)pyrene	0.237	0.010	0.010	ug/L	0.300		79.1	35-120		
Perylene	0.225	0.005	0.010	ug/L	0.300		74.8	30-160		
Indeno(1,2,3-cd)pyrene	0.265	0.010	0.010	ug/L	0.300		88.2	37-120		
Dibenzo(a,h)anthracene	0.253	0.010	0.010	ug/L	0.300		84.3	34-120		
Benzo(g,h,i)perylene	0.273	0.010	0.010	ug/L	0.300		91.0	38-120		
Surrogate: 2-Methylnaphthalene-d10	0.289			ug/L	0.300		96.5	42-120		
Surrogate: Dibenzo[a,h]anthracene-d14	0.259			ug/L	0.308		84.1	29-120		
Surrogate: Fluoranthene-d10	0.256			ug/L	0.300		85.3	57-120		

Indicates that ARL is NOT ACCREDITED for this parameter in this analysis and matrix.



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Chlorinated Pesticides - Quality Control

Batch BNI0443 - EPA 8081B in Water

Instrument: ECD9 Analyst: RKT

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0443-BLK1)											
						Prepared: 22-Sep-2025 Analyzed: 24-Sep-2025 09:29					
alpha-BHC	ND	0.0003	0.0006	ug/L							U
beta-BHC	ND	0.0003	0.0006	ug/L							U
gamma-BHC (Lindane)	ND	0.0003	0.0006	ug/L							U
delta-BHC	ND	0.0003	0.0006	ug/L							U
Heptachlor	ND	0.0003	0.0006	ug/L							U
Aldrin	ND	0.0003	0.0006	ug/L							U
Heptachlor Epoxide	ND	0.0003	0.0006	ug/L							U
trans-Chlordane (beta/gamma-Chlordane)	ND	0.0003	0.0006	ug/L							U
cis-Chlordane (alpha-chlordane)	ND	0.0003	0.0006	ug/L							U
Endosulfan I	ND	0.0003	0.0006	ug/L							U
4,4'-DDE	ND	0.0006	0.0013	ug/L							U
Endrin	ND	0.0006	0.0013	ug/L							U
Endosulfan II	ND	0.0006	0.0013	ug/L							U
4,4'-DDD	ND	0.0006	0.0013	ug/L							U
Endrin Aldehyde	ND	0.0006	0.0013	ug/L							U
4,4'-DDT	ND	0.0006	0.0013	ug/L							U
Endosulfan Sulfate	ND	0.0006	0.0013	ug/L							U
Endrin Ketone	ND	0.0006	0.0013	ug/L							U
Methoxychlor	ND	0.0031	0.0063	ug/L							U
Hexachlorobutadiene	ND	0.0006	0.0013	ug/L							U
Hexachlorobenzene	ND	0.0006	0.0013	ug/L							U
Oxychlordane	ND	0.0013	0.0013	ug/L							U
# Chlordane (NOS)	ND	0.0050	0.0050	ug/L							U
Surrogate: Decachlorobiphenyl	0.0573			ug/L	0.0800		71.6	30-160			
Surrogate: Decachlorobiphenyl [2C]	0.0676			ug/L	0.0800		84.5	30-160			
Surrogate: Tetrachlorometaxylene	0.0445			ug/L	0.0800		55.6	30-160			
Surrogate: Tetrachlorometaxylene [2C]	0.0421			ug/L	0.0800		52.7	30-160			
LCS (BNI0443-BS1)											
						Prepared: 22-Sep-2025 Analyzed: 24-Sep-2025 09:44					
alpha-BHC [2C]	0.0300	0.0003	0.0006	ug/L	0.0400		75.1	30-160			
beta-BHC [2C]	0.0267	0.0003	0.0006	ug/L	0.0400		66.6	30-160			
gamma-BHC (Lindane) [2C]	0.0308	0.0003	0.0006	ug/L	0.0400		77.1	30-160			
delta-BHC	0.0341	0.0003	0.0006	ug/L	0.0400		85.2	30-160			
Heptachlor	0.0347	0.0003	0.0006	ug/L	0.0400		86.8	30-160			
Aldrin	0.0269	0.0003	0.0006	ug/L	0.0400		67.2	30-160			
Heptachlor Epoxide	0.0290	0.0003	0.0006	ug/L	0.0400		72.6	30-160			
trans-Chlordane (beta/gamma-Chlordane) [2C]	0.0281	0.0003	0.0006	ug/L	0.0400		70.2	30-160			
cis-Chlordane (alpha-chlordane)	0.0274	0.0003	0.0006	ug/L	0.0400		68.6	30-160			
Endosulfan I	0.0305	0.0003	0.0006	ug/L	0.0400		76.3	30-160			
4,4'-DDE	0.0626	0.0006	0.0013	ug/L	0.0800		78.2	30-160			
Endrin [2C]	0.0838	0.0006	0.0013	ug/L	0.0800		105	30-160			
Endosulfan II [2C]	0.0689	0.0006	0.0013	ug/L	0.0800		86.1	30-160			



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Chlorinated Pesticides - Quality Control

Batch BNI0443 - EPA 8081B in Water

Instrument: ECD9 Analyst: RKT

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNI0443-BS1)						Prepared: 22-Sep-2025 Analyzed: 24-Sep-2025 09:44					
4,4'-DDD [2C]	0.0749	0.0006	0.0013	ug/L	0.0800		93.6	30-160			
Endrin Aldehyde [2C]	0.0662	0.0006	0.0013	ug/L	0.0800		82.8	30-160			
4,4'-DDT [2C]	0.0822	0.0006	0.0013	ug/L	0.0800		103	30-160			
Endosulfan Sulfate [2C]	0.0754	0.0006	0.0013	ug/L	0.0800		94.2	30-160			
Endrin Ketone [2C]	0.0778	0.0006	0.0013	ug/L	0.0800		97.2	30-160			
Methoxychlor [2C]	0.405	0.0031	0.0063	ug/L	0.400		101	30-160			
Hexachlorobutadiene	0.0276	0.0006	0.0013	ug/L	0.0400		69.0	30-160			
Hexachlorobenzene	0.0297	0.0006	0.0013	ug/L	0.0400		74.2	30-160			
Surrogate: Decachlorobiphenyl	0.0573			ug/L	0.0800		71.7	30-160			
Surrogate: Decachlorobiphenyl [2C]	0.0672			ug/L	0.0800		83.9	30-160			
Surrogate: Tetrachlorometaxylene	0.0531			ug/L	0.0800		66.4	30-160			
Surrogate: Tetrachlorometaxylene [2C]	0.0494			ug/L	0.0800		61.7	30-160			
LCS (BNI0443-BS2)						Prepared: 22-Sep-2025 Analyzed: 24-Sep-2025 09:59					
Oxychlordan [2C]	0.0596	0.0013	0.0013	ug/L	0.0800		74.5	30-160			
Surrogate: Decachlorobiphenyl	0.0604			ug/L	0.0800		75.5	30-160			
Surrogate: Decachlorobiphenyl [2C]	0.0711			ug/L	0.0800		88.8	30-160			
Surrogate: Tetrachlorometaxylene	0.0601			ug/L	0.0800		75.1	30-160			
Surrogate: Tetrachlorometaxylene [2C]	0.0544			ug/L	0.0800		68.0	30-160			
LCS (BNI0443-BS3)						Prepared: 22-Sep-2025 Analyzed: 24-Sep-2025 10:15					
# Chlordane (NOS)	0.271	0.0050	0.0050	ug/L	0.400		67.8	30-160			
Surrogate: Decachlorobiphenyl	0.0599			ug/L	0.0800		74.8	30-160			
Surrogate: Decachlorobiphenyl [2C]	0.0722			ug/L	0.0800		90.3	30-160			
Surrogate: Tetrachlorometaxylene	0.0578			ug/L	0.0800		72.3	30-160			
Surrogate: Tetrachlorometaxylene [2C]	0.0534			ug/L	0.0800		66.8	30-160			

Indicates that ARL is NOT ACCREDITED for this parameter in this analysis and matrix.



Mott MacDonald
1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Dioxins/Furans - Quality Control

Batch BNJ0043 - EPA 1613B in Water

Instrument: AUTOSPEC01 Analyst: jg

QC Sample/Analyte	Ion Ratio	Ratio Limits	EDL	Reporting Limit	Result	Units	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNJ0043-BLK1)				Prepared: 03-Oct-2025		Analyzed: 29-Oct-2025 19:23					
2,3,7,8-TCDF		0.655-0.886	0.21	10.0	ND	pg/L					U
2,3,7,8-TCDD		0.655-0.886	1.32	10.0	ND	pg/L					U
1,2,3,7,8-PeCDF		1.318-1.783	0.09	10.0	ND	pg/L					U
2,3,4,7,8-PeCDF		1.318-1.783	0.98	10.0	ND	pg/L					U
1,2,3,7,8-PeCDD		1.318-1.783	1.01	10.0	ND	pg/L					U
1,2,3,4,7,8-HxCDF		1.054-1.426	0.11	10.0	ND	pg/L					U
1,2,3,6,7,8-HxCDF		1.054-1.426	0.11	10.0	ND	pg/L					U
2,3,4,6,7,8-HxCDF		1.054-1.426	0.11	10.0	ND	pg/L					U
1,2,3,7,8,9-HxCDF		1.054-1.426	0.16	10.0	ND	pg/L					U
1,2,3,4,7,8-HxCDD		1.054-1.426	0.24	10.0	ND	pg/L					U
1,2,3,6,7,8-HxCDD		1.054-1.426	0.26	10.0	ND	pg/L					U
1,2,3,7,8,9-HxCDD		1.054-1.426	0.27	10.0	ND	pg/L					U
1,2,3,4,6,7,8-HpCDF		0.893-1.208	0.02	20.0	ND	pg/L					U
1,2,3,4,7,8,9-HpCDF		0.893-1.208	0.03	10.0	ND	pg/L					U
1,2,3,4,6,7,8-HpCDD		0.893-1.208	0.02	10.0	ND	pg/L					U
OCDF		0.757-1.024	0.004	20.0	ND	pg/L					U
OCDD	0.866	0.757-1.024		50.0	24.8	pg/L					*, J
Homologue group											
Total TCDF				10.0	ND	pg/L					U
Total TCDD				10.0	ND	pg/L					U
Total PeCDF				10.0	ND	pg/L					U
Total PeCDD				10.0	ND	pg/L					U
Total HxCDF				10.0	ND	pg/L					U
Total HxCDD				10.0	ND	pg/L					U
Total HpCDF				10.0	ND	pg/L					U
Total HpCDD				10.0	ND	pg/L					U
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC):					1.39						
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC):					0.01						
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, EMPC=ND):					1.39						
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0 EDL, EMPC=ND):					0.00						

Labeled compounds

13C12-2,3,7,8-TCDF	0.778	0.655-0.886			68.5		24-169 %
13C12-2,3,7,8-TCDD	0.780	0.655-0.886			104		25-164 %
13C12-1,2,3,7,8-PeCDF	1.572	1.318-1.783			83.9		24-185 %
13C12-2,3,4,7,8-PeCDF	1.549	1.318-1.783			76.9		21-178 %
13C12-1,2,3,7,8-PeCDD	1.558	1.318-1.783			85.2		25-181 %
13C12-1,2,3,4,7,8-HxCDF	0.541	0.434-0.587			78.8		26-152 %
13C12-1,2,3,6,7,8-HxCDF	0.533	0.434-0.587			74.7		26-123 %
13C12-2,3,4,6,7,8-HxCDF	0.528	0.434-0.587			71.9		28-136 %
13C12-1,2,3,7,8,9-HxCDF	0.540	0.434-0.587			69.7		29-147 %
13C12-1,2,3,4,7,8-HxCDD	1.224	1.054-1.426			86.9		32-141 %



Mott MacDonald
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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Dioxins/Furans - Quality Control

Batch BNJ0043 - EPA 1613B in Water

Instrument: AUTOSPEC01 Analyst: jg

QC Sample/Analyte	Ion Ratio	Ratio Limits	EDL	Reporting Limit	Result	Units	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNJ0043-BLK1)				Prepared: 03-Oct-2025		Analyzed: 29-Oct-2025 19:23					
13C12-1,2,3,6,7,8-HxCDD	1.224	1.054-1.426			84.9				28-130 %		
13C12-1,2,3,4,6,7,8-HpCDF	0.454	0.374-0.506			62.1				28-143 %		
13C12-1,2,3,4,7,8,9-HpCDF	0.437	0.374-0.506			63.8				26-138 %		
13C12-1,2,3,4,6,7,8-HpCDD	1.136	0.893-1.208			78.8				23-140 %		
13C12-OCDD	0.987	0.757-1.024			85.4				17-157 %		
37Cl4-2,3,7,8-TCDD					93.1				35-197 %		
LCS (BNJ0043-BS1)				Prepared: 03-Oct-2025		Analyzed: 29-Oct-2025 20:13					
2,3,7,8-TCDF	0.813	0.655-0.886		10.0	177	pg/L	88.7	75-158 %			
2,3,7,8-TCDD	0.761	0.655-0.886		10.0	147	pg/L	73.6	67-158 %			
1,2,3,7,8-PeCDF	1.628	1.318-1.783		10.0	814	pg/L	81.4	80-134 %			
2,3,4,7,8-PeCDF	1.583	1.318-1.783		10.0	839	pg/L	83.9	68-160 %			
1,2,3,7,8-PeCDD	1.541	1.318-1.783		10.0	934	pg/L	93.4	70-142 %			
1,2,3,4,7,8-HxCDF	1.222	1.054-1.426		10.0	912	pg/L	91.2	72-134 %			
1,2,3,6,7,8-HxCDF	1.214	1.054-1.426		10.0	1010	pg/L	101	84-130 %			
2,3,4,6,7,8-HxCDF	1.241	1.054-1.426		10.0	945	pg/L	94.5	70-156 %			
1,2,3,7,8,9-HxCDF	1.226	1.054-1.426		10.0	953	pg/L	95.3	78-130 %			
1,2,3,4,7,8-HxCDD	1.226	1.054-1.426		10.0	885	pg/L	88.5	70-164 %			
1,2,3,6,7,8-HxCDD	1.262	1.054-1.426		10.0	1010	pg/L	101	76-134 %			
1,2,3,7,8,9-HxCDD	1.269	1.054-1.426		10.0	917	pg/L	91.7	64-162 %			
1,2,3,4,6,7,8-HpCDF	1.007	0.893-1.208		20.0	952	pg/L	95.2	82-122 %			
1,2,3,4,7,8,9-HpCDF	1.064	0.893-1.208		10.0	945	pg/L	94.5	78-138 %			
1,2,3,4,6,7,8-HpCDD	1.025	0.893-1.208		10.0	961	pg/L	96.1	70-140 %			
OCDF	0.952	0.757-1.024		20.0	1380	pg/L	68.8	63-170 %			
OCDD	0.948	0.757-1.024		50.0	1780	pg/L	89.2	78-144 %			B
Labeled compounds											
13C12-2,3,7,8-TCDF	0.769	0.655-0.886			63.3				24-169 %		
13C12-2,3,7,8-TCDD	0.776	0.655-0.886			91.9				25-164 %		
13C12-1,2,3,7,8-PeCDF	1.565	1.318-1.783			83.2				24-185 %		
13C12-2,3,4,7,8-PeCDF	1.581	1.318-1.783			75.1				21-178 %		
13C12-1,2,3,7,8-PeCDD	1.543	1.318-1.783			82.2				25-181 %		
13C12-1,2,3,4,7,8-HxCDF	0.525	0.434-0.587			69.8				26-152 %		
13C12-1,2,3,6,7,8-HxCDF	0.515	0.434-0.587			65.3				26-123 %		
13C12-2,3,4,6,7,8-HxCDF	0.511	0.434-0.587			63.9				28-136 %		
13C12-1,2,3,7,8,9-HxCDF	0.566	0.434-0.587			68.9				29-147 %		
13C12-1,2,3,4,7,8-HxCDD	1.236	1.054-1.426			82.0				32-141 %		
13C12-1,2,3,6,7,8-HxCDD	1.322	1.054-1.426			75.0				28-130 %		
13C12-1,2,3,4,6,7,8-HpCDF	0.452	0.374-0.506			58.6				28-143 %		
13C12-1,2,3,4,7,8,9-HpCDF	0.452	0.374-0.506			64.0				26-138 %		
13C12-1,2,3,4,6,7,8-HpCDD	1.064	0.893-1.208			78.2				23-140 %		
13C12-OCDD	0.904	0.757-1.024			77.7				17-157 %		
37Cl4-2,3,7,8-TCDD					79.7				35-197 %		



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Dioxins/Furans - Quality Control

Batch BNJ0043 - EPA 1613B in Water

Instrument: AUTOSPEC01 Analyst: jg

QC Sample/Analyte	Ion Ratio	Ratio Limits	EDL	Reporting Limit	Result	Units	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BNJ0043-BSD1)				Prepared: 03-Oct-2025 Analyzed: 29-Oct-2025 21:02							
2,3,7,8-TCDF	0.864	0.655-0.886		10.0	197	pg/L	98.6	75-158 %	10.60	25	
2,3,7,8-TCDD	0.885	0.655-0.886		10.0	147	pg/L	73.3	67-158 %	0.35	25	
1,2,3,7,8-PeCDF	1.575	1.318-1.783		10.0	801	pg/L	80.1	80-134 %	1.69	25	
2,3,4,7,8-PeCDF	1.653	1.318-1.783		10.0	823	pg/L	82.3	68-160 %	2.01	25	
1,2,3,7,8-PeCDD	1.506	1.318-1.783		10.0	944	pg/L	94.4	70-142 %	1.07	25	
1,2,3,4,7,8-HxCDF	1.290	1.054-1.426		10.0	898	pg/L	89.8	72-134 %	1.55	25	
1,2,3,6,7,8-HxCDF	1.241	1.054-1.426		10.0	993	pg/L	99.3	84-130 %	2.09	25	
2,3,4,6,7,8-HxCDF	1.247	1.054-1.426		10.0	895	pg/L	89.5	70-156 %	5.49	25	
1,2,3,7,8,9-HxCDF	1.228	1.054-1.426		10.0	948	pg/L	94.8	78-130 %	0.60	25	
1,2,3,4,7,8-HxCDD	1.328	1.054-1.426		10.0	869	pg/L	86.9	70-164 %	1.83	25	
1,2,3,6,7,8-HxCDD	1.385	1.054-1.426		10.0	930	pg/L	93.0	76-134 %	8.18	25	
1,2,3,7,8,9-HxCDD	1.239	1.054-1.426		10.0	916	pg/L	91.6	64-162 %	0.15	25	
1,2,3,4,6,7,8-HpCDF	0.974	0.893-1.208		20.0	916	pg/L	91.6	82-122 %	3.94	25	
1,2,3,4,7,8,9-HpCDF	0.955	0.893-1.208		10.0	978	pg/L	97.8	78-138 %	3.41	25	
1,2,3,4,6,7,8-HpCDD	1.068	0.893-1.208		10.0	906	pg/L	90.6	70-140 %	5.97	25	
OCDF	0.953	0.757-1.024		20.0	1450	pg/L	72.5	63-170 %	5.18	25	
OCDD	0.933	0.757-1.024		50.0	1780	pg/L	88.9	78-144 %	0.25	25	B
Labeled compounds											
13C12-2,3,7,8-TCDF	0.767	0.655-0.886			61.9				24-169 %		
13C12-2,3,7,8-TCDD	0.783	0.655-0.886			93.3				25-164 %		
13C12-1,2,3,7,8-PeCDF	1.543	1.318-1.783			73.7				24-185 %		
13C12-2,3,4,7,8-PeCDF	1.616	1.318-1.783			74.6				21-178 %		
13C12-1,2,3,7,8-PeCDD	1.588	1.318-1.783			77.1				25-181 %		
13C12-1,2,3,4,7,8-HxCDF	0.518	0.434-0.587			73.8				26-152 %		
13C12-1,2,3,6,7,8-HxCDF	0.553	0.434-0.587			69.4				26-123 %		
13C12-2,3,4,6,7,8-HxCDF	0.469	0.434-0.587			72.5				28-136 %		
13C12-1,2,3,7,8,9-HxCDF	0.580	0.434-0.587			69.7				29-147 %		
13C12-1,2,3,4,7,8-HxCDD	1.299	1.054-1.426			85.2				32-141 %		
13C12-1,2,3,6,7,8-HxCDD	1.173	1.054-1.426			78.6				28-130 %		
13C12-1,2,3,4,6,7,8-HpCDF	0.446	0.374-0.506			57.4				28-143 %		
13C12-1,2,3,4,7,8,9-HpCDF	0.429	0.374-0.506			58.2				26-138 %		
13C12-1,2,3,4,6,7,8-HpCDD	1.030	0.893-1.208			75.0				23-140 %		
13C12-OCDD	0.914	0.757-1.024			84.0				17-157 %		
37Cl4-2,3,7,8-TCDD					82.3				35-197 %		



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1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNI0533 - EPA 7470A in Water

Instrument: HYDRA Analyst: ML

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0533-BLK1)					Prepared: 25-Sep-2025 Analyzed: 01-Oct-2025 14:35					
Mercury, Dissolved	0.000022	0.000013	0.000100	mg/L						J
LCS (BNI0533-BS1)					Prepared: 25-Sep-2025 Analyzed: 01-Oct-2025 14:37					
Mercury, Dissolved	0.00192	0.000013	0.000100	mg/L	0.00200	95.9	80-120			



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNI0535 - EPA 6020B in Water

Instrument: ICPMS1 Analyst: HAL

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0535-BLK1)						Prepared: 25-Sep-2025 Analyzed: 25-Sep-2025 18:28						
Antimony, Dissolved	121	ND	0.150	0.200	ug/L							U
Arsenic UCT, Dissolved	75a UCT	ND	0.100	0.200	ug/L							U
Barium, Dissolved	135	ND	0.250	0.500	ug/L							U
Cadmium UCT, Dissolved	111 UCT	ND	0.0500	0.100	ug/L							U
Chromium, Dissolved	52	ND	0.375	0.500	ug/L							U
Copper UCT, Dissolved	63 UCT	ND	0.200	0.500	ug/L							U
Nickel UCT, Dissolved	60 UCT	ND	0.250	0.500	ug/L							U
Selenium UCT, Dissolved	78 UCT	ND	0.500	1.00	ug/L							U
Silver, Dissolved	107	ND	0.100	0.200	ug/L							U
Thallium, Dissolved	205	ND	0.100	0.200	ug/L							U
Zinc UCT, Dissolved	66 UCT	ND	3.00	6.00	ug/L							U
Blank (BNI0535-BLK2)						Prepared: 25-Sep-2025 Analyzed: 26-Sep-2025 18:20						
Lead, Dissolved	208	ND	0.100	0.200	ug/L							U
LCS (BNI0535-BS1)						Prepared: 25-Sep-2025 Analyzed: 25-Sep-2025 18:38						
Antimony, Dissolved	121	27.8	0.150	0.200	ug/L	25.0		111	80-120			
Arsenic UCT, Dissolved	75a UCT	25.5	0.100	0.200	ug/L	25.0		102	80-120			
Barium, Dissolved	135	26.4	0.250	0.500	ug/L	25.0		106	80-120			
Cadmium UCT, Dissolved	111 UCT	27.0	0.0500	0.100	ug/L	25.0		108	80-120			
Chromium, Dissolved	52	26.8	0.375	0.500	ug/L	25.0		107	80-120			
Copper UCT, Dissolved	63 UCT	25.8	0.200	0.500	ug/L	25.0		103	80-120			
Lead, Dissolved	208	25.7	0.100	0.200	ug/L	25.0		103	80-120			
Nickel UCT, Dissolved	60 UCT	26.2	0.250	0.500	ug/L	25.0		105	80-120			
Selenium UCT, Dissolved	78 UCT	84.0	0.500	1.00	ug/L	80.0		105	80-120			
Silver, Dissolved	107	23.4	0.100	0.200	ug/L	25.0		93.7	80-120			
Thallium, Dissolved	205	25.7	0.100	0.200	ug/L	25.0		103	80-120			
Zinc UCT, Dissolved	66 UCT	84.5	3.00	6.00	ug/L	80.0		106	80-120			



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNI0555 - EPA 6010D in Water

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0555-BLK1) Prepared: 25-Sep-2025 Analyzed: 30-Sep-2025 16:29											
Calcium, Dissolved	ND	0.0300	0.0500	mg/L							U
Cobalt, Dissolved	ND	0.0025	0.0050	mg/L							U
Iron, Dissolved	ND	0.0540	0.100	mg/L							U
Magnesium, Dissolved	ND	0.0250	0.0500	mg/L							U
Manganese, Dissolved	ND	0.0020	0.0040	mg/L							U
Potassium, Dissolved	ND	0.250	0.500	mg/L							U
Sodium, Dissolved	ND	0.250	0.500	mg/L							U
Vanadium, Dissolved	ND	0.0015	0.0030	mg/L							U
Blank (BNI0555-BLK2) Prepared: 25-Sep-2025 Analyzed: 03-Oct-2025 20:53											
Calcium, Dissolved	ND	0.0300	0.0500	mg/L							U
Cobalt, Dissolved	ND	0.0025	0.0050	mg/L							U
Iron, Dissolved	ND	0.0540	0.100	mg/L							U
Magnesium, Dissolved	ND	0.0250	0.0500	mg/L							U
Manganese, Dissolved	ND	0.0020	0.0040	mg/L							U
Potassium, Dissolved	ND	0.250	0.500	mg/L							U
Sodium, Dissolved	ND	0.250	0.500	mg/L							U
Vanadium, Dissolved	ND	0.0015	0.0030	mg/L							U
LCS (BNI0555-BS1) Prepared: 25-Sep-2025 Analyzed: 30-Sep-2025 16:32											
Calcium, Dissolved	11.3	0.0306	0.0510	mg/L	10.0		113	80-120			
Cobalt, Dissolved	0.564	0.0026	0.0051	mg/L	0.500		113	80-120			
Iron, Dissolved	2.19	0.0551	0.102	mg/L	2.00		109	80-120			
Magnesium, Dissolved	11.0	0.0255	0.0510	mg/L	10.0		110	80-120			
Manganese, Dissolved	0.592	0.0020	0.0041	mg/L	0.500		118	80-120			
Potassium, Dissolved	11.6	0.255	0.510	mg/L	10.0		116	80-120			
Sodium, Dissolved	11.9	0.255	0.510	mg/L	10.0		119	80-120			
Vanadium, Dissolved	0.576	0.0015	0.0031	mg/L	0.500		115	80-120			
LCS (BNI0555-BS2) Prepared: 25-Sep-2025 Analyzed: 03-Oct-2025 20:55											
Calcium, Dissolved	11.3	0.0306	0.0510	mg/L	10.0		113	80-120			
Cobalt, Dissolved	0.567	0.0026	0.0051	mg/L	0.500		113	80-120			
Iron, Dissolved	2.26	0.0551	0.102	mg/L	2.00		113	80-120			
Magnesium, Dissolved	11.3	0.0255	0.0510	mg/L	10.0		113	80-120			
Manganese, Dissolved	0.586	0.0020	0.0041	mg/L	0.500		117	80-120			
Potassium, Dissolved	11.7	0.255	0.510	mg/L	10.0		117	80-120			
Sodium, Dissolved	12.3	0.255	0.510	mg/L	10.0		123	80-120			
Vanadium, Dissolved	0.571	0.0015	0.0031	mg/L	0.500		114	80-120			
LCS (BNI0555-BS3) Prepared: 25-Sep-2025 Analyzed: 10-Oct-2025 20:42											
Calcium, Dissolved	11.1	0.0306	0.0510	mg/L	10.0		111	80-120			
Cobalt, Dissolved	0.559	0.0026	0.0051	mg/L	0.500		112	80-120			
Iron, Dissolved	2.31	0.0551	0.102	mg/L	2.00		115	80-120			



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNI0555 - EPA 6010D in Water

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BNI0555-BS3)										
Prepared: 25-Sep-2025 Analyzed: 10-Oct-2025 20:42										
Magnesium, Dissolved	11.4	0.0255	0.0510	mg/L	10.0	114	80-120			
Manganese, Dissolved	0.542	0.0020	0.0041	mg/L	0.500	108	80-120			
Potassium, Dissolved	11.3	0.255	0.510	mg/L	10.0	113	80-120			
Sodium, Dissolved	11.4	0.255	0.510	mg/L	10.0	114	80-120			
Vanadium, Dissolved	0.565	0.0015	0.0031	mg/L	0.500	113	80-120			



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Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNI0556 - EPA 6010D in Water

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0556-BLK1) Prepared: 25-Sep-2025 Analyzed: 30-Sep-2025 16:23											
Calcium, Dissolved	ND	0.0300	0.0500	mg/L							U
Cobalt, Dissolved	ND	0.0025	0.0050	mg/L							U
Iron, Dissolved	ND	0.0540	0.100	mg/L							U
Magnesium, Dissolved	ND	0.0250	0.0500	mg/L							U
Manganese, Dissolved	ND	0.0020	0.0040	mg/L							U
Potassium, Dissolved	ND	0.250	0.500	mg/L							U
Sodium, Dissolved	ND	0.250	0.500	mg/L							U
Vanadium, Dissolved	ND	0.0015	0.0030	mg/L							U
Blank (BNI0556-BLK2) Prepared: 25-Sep-2025 Analyzed: 03-Oct-2025 20:58											
Calcium, Dissolved	ND	0.0300	0.0500	mg/L							U
Cobalt, Dissolved	ND	0.0025	0.0050	mg/L							U
Iron, Dissolved	ND	0.0540	0.100	mg/L							U
Magnesium, Dissolved	ND	0.0250	0.0500	mg/L							U
Manganese, Dissolved	ND	0.0020	0.0040	mg/L							U
Potassium, Dissolved	ND	0.250	0.500	mg/L							U
Sodium, Dissolved	ND	0.250	0.500	mg/L							U
Vanadium, Dissolved	ND	0.0015	0.0030	mg/L							U
LCS (BNI0556-BS1) Prepared: 25-Sep-2025 Analyzed: 30-Sep-2025 16:26											
Calcium, Dissolved	12.2	0.0303	0.0505	mg/L	10.0		122	80-120			
Cobalt, Dissolved	0.591	0.0025	0.0051	mg/L	0.500		118	80-120			
Iron, Dissolved	2.32	0.0545	0.101	mg/L	2.00		116	80-120			
Magnesium, Dissolved	11.4	0.0253	0.0505	mg/L	10.0		114	80-120			
Manganese, Dissolved	0.635	0.0020	0.0040	mg/L	0.500		127	80-120			
Potassium, Dissolved	12.5	0.253	0.505	mg/L	10.0		125	80-120			
Sodium, Dissolved	12.9	0.253	0.505	mg/L	10.0		129	80-120			
Vanadium, Dissolved	0.603	0.0015	0.0030	mg/L	0.500		121	80-120			
LCS (BNI0556-BS2) Prepared: 25-Sep-2025 Analyzed: 03-Oct-2025 21:01											
Calcium, Dissolved	11.0	0.0303	0.0505	mg/L	10.0		110	80-120			
Cobalt, Dissolved	0.550	0.0025	0.0051	mg/L	0.500		110	80-120			
Iron, Dissolved	2.21	0.0545	0.101	mg/L	2.00		111	80-120			
Magnesium, Dissolved	10.9	0.0253	0.0505	mg/L	10.0		109	80-120			
Manganese, Dissolved	0.569	0.0020	0.0040	mg/L	0.500		114	80-120			
Potassium, Dissolved	11.1	0.253	0.505	mg/L	10.0		111	80-120			
Sodium, Dissolved	11.6	0.253	0.505	mg/L	10.0		116	80-120			
Vanadium, Dissolved	0.553	0.0015	0.0030	mg/L	0.500		111	80-120			
Duplicate (BNI0556-DUP1) Source: 25I0372-01 Prepared: 25-Sep-2025 Analyzed: 30-Sep-2025 16:49											
Cobalt, Dissolved	ND	0.0025	0.0050	mg/L		ND			20		U
Iron, Dissolved	ND	0.0540	0.100	mg/L		ND			20		U
Magnesium, Dissolved	6.94	0.0250	0.0500	mg/L		6.98		0.56	20		



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Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNI0556 - EPA 6010D in Water

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Duplicate (BNI0556-DUP1) Source: 25I0372-01 Prepared: 25-Sep-2025 Analyzed: 30-Sep-2025 16:49											
Manganese, Dissolved	0.0023	0.0020	0.0040	mg/L		0.0029			23.10	20	L, J
Potassium, Dissolved	5.32	0.250	0.500	mg/L		5.16			2.95	20	
Sodium, Dissolved	20.3	0.250	0.500	mg/L		19.9			2.09	20	
Vanadium, Dissolved	0.0202	0.0015	0.0030	mg/L		0.0198			2.00	20	
Duplicate (BNI0556-DUP2) Source: 25I0372-01 Prepared: 25-Sep-2025 Analyzed: 03-Oct-2025 21:50											
Cobalt, Dissolved	ND	0.0025	0.0050	mg/L		ND				20	U
Iron, Dissolved	ND	0.0540	0.100	mg/L		ND				20	U
Magnesium, Dissolved	6.89	0.0250	0.0500	mg/L		6.98			1.19	20	
Manganese, Dissolved	ND	0.0020	0.0040	mg/L		0.0029				20	U
Potassium, Dissolved	5.04	0.250	0.500	mg/L		5.16			2.40	20	
Sodium, Dissolved	20.0	0.250	0.500	mg/L		19.9			0.78	20	
Vanadium, Dissolved	0.0182	0.0015	0.0030	mg/L		0.0198			8.42	20	
Matrix Spike (BNI0556-MS1) Source: 25I0372-01 Prepared: 25-Sep-2025 Analyzed: 30-Sep-2025 16:52											
Cobalt, Dissolved	0.522	0.0025	0.0051	mg/L	0.500	ND	104	75-125			
Iron, Dissolved	2.07	0.0545	0.101	mg/L	2.00	ND	103	75-125			
Magnesium, Dissolved	16.9	0.0253	0.0505	mg/L	10.0	6.98	99.4	75-125			
Manganese, Dissolved	0.578	0.0020	0.0040	mg/L	0.500	0.0029	115	75-125			
Potassium, Dissolved	16.0	0.253	0.505	mg/L	10.0	5.16	109	75-125			
Sodium, Dissolved	30.7	0.253	0.505	mg/L	10.0	19.9	108	75-125			
Vanadium, Dissolved	0.556	0.0015	0.0030	mg/L	0.500	0.0198	107	75-125			
Matrix Spike (BNI0556-MS2) Source: 25I0372-01 Prepared: 25-Sep-2025 Analyzed: 03-Oct-2025 21:53											
Cobalt, Dissolved	0.558	0.0025	0.0051	mg/L	0.500	ND	112	75-125			
Iron, Dissolved	2.28	0.0545	0.101	mg/L	2.00	ND	114	75-125			
Magnesium, Dissolved	18.2	0.0253	0.0505	mg/L	10.0	6.98	112	75-125			
Manganese, Dissolved	0.616	0.0020	0.0040	mg/L	0.500	0.0029	123	75-125			
Potassium, Dissolved	17.1	0.253	0.505	mg/L	10.0	5.16	119	75-125			
Sodium, Dissolved	32.3	0.253	0.505	mg/L	10.0	19.9	124	75-125			
Vanadium, Dissolved	0.584	0.0015	0.0030	mg/L	0.500	0.0198	113	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNI0557 - EPA 7470A in Water

Instrument: HYDRA Analyst: ML

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0557-BLK1)						Prepared: 25-Sep-2025 Analyzed: 01-Oct-2025 15:12					
Mercury, Dissolved	0.000017	0.000013	0.000100	mg/L							J
LCS (BNI0557-BS1)						Prepared: 25-Sep-2025 Analyzed: 01-Oct-2025 15:14					
Mercury, Dissolved	0.00208	0.000013	0.000100	mg/L	0.00200		104	80-120			



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Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNI0566 - EPA 6020B in Water

Instrument: ICPMS1 Analyst: HAL

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0566-BLK1)						Prepared: 26-Sep-2025 Analyzed: 26-Sep-2025 19:14						
Antimony, Dissolved	121	ND	0.150	0.200	ug/L							U
Arsenic UCT, Dissolved	75a UCT	ND	0.100	0.200	ug/L							U
Barium, Dissolved	135	ND	0.250	0.500	ug/L							U
Beryllium, Dissolved	9	ND	0.100	0.200	ug/L							U
Cadmium UCT, Dissolved	111 UCT	ND	0.0500	0.100	ug/L							U
Chromium, Dissolved	52	ND	0.375	0.500	ug/L							U
Copper UCT, Dissolved	63 UCT	ND	0.200	0.500	ug/L							U
Lead, Dissolved	208	ND	0.100	0.200	ug/L							U
Nickel UCT, Dissolved	60 UCT	ND	0.250	0.500	ug/L							U
Selenium UCT, Dissolved	78 UCT	ND	0.500	1.00	ug/L							U
Silver, Dissolved	107	ND	0.100	0.200	ug/L							U
Thallium, Dissolved	205	ND	0.100	0.200	ug/L							U
Zinc UCT, Dissolved	66 UCT	ND	3.00	6.00	ug/L							U
LCS (BNI0566-BS1)						Prepared: 26-Sep-2025 Analyzed: 26-Sep-2025 19:19						
Antimony, Dissolved	121	25.9	0.150	0.200	ug/L	25.0		104	80-120			
Arsenic UCT, Dissolved	75a UCT	24.9	0.100	0.200	ug/L	25.0		99.7	80-120			
Barium, Dissolved	135	25.9	0.250	0.500	ug/L	25.0		104	80-120			
Beryllium, Dissolved	9	24.7	0.100	0.200	ug/L	25.0		98.8	80-120			
Cadmium UCT, Dissolved	111 UCT	26.7	0.0500	0.100	ug/L	25.0		107	80-120			
Chromium, Dissolved	52	25.8	0.375	0.500	ug/L	25.0		103	80-120			
Copper UCT, Dissolved	63 UCT	27.0	0.200	0.500	ug/L	25.0		108	80-120			
Lead, Dissolved	208	25.9	0.100	0.200	ug/L	25.0		104	80-120			
Nickel UCT, Dissolved	60 UCT	26.5	0.250	0.500	ug/L	25.0		106	80-120			
Selenium UCT, Dissolved	78 UCT	81.3	0.500	1.00	ug/L	80.0		102	80-120			
Silver, Dissolved	107	25.4	0.100	0.200	ug/L	25.0		102	80-120			
Thallium, Dissolved	205	25.8	0.100	0.200	ug/L	25.0		103	80-120			
Zinc UCT, Dissolved	66 UCT	83.7	3.00	6.00	ug/L	80.0		105	80-120			



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Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNI0389 - EPA 353.2 in Water

Instrument: LACHAT2 Analyst: CRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0389-BLK1)					Prepared: 18-Sep-2025 Analyzed: 18-Sep-2025 14:45					
Nitrite-N	ND	0.010	0.010	mg/L						U
LCS (BNI0389-BS1)					Prepared: 18-Sep-2025 Analyzed: 18-Sep-2025 14:46					
Nitrite-N	0.494	0.010	0.010	mg/L	0.500		98.8 90-110			



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31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNI0399 - EPA 325.2 in Water

Instrument: LACHAT2 Analyst: CRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0399-BLK1)					Prepared: 18-Sep-2025 Analyzed: 18-Sep-2025 17:22					
# Chloride	ND	1.00	1.00	mg/L						U
LCS (BNI0399-BS1)					Prepared: 18-Sep-2025 Analyzed: 18-Sep-2025 17:24					
# Chloride	5.03	1.00	1.00	mg/L	5.00	101	90-110			

Indicates that ARL is NOT ACCREDITED for this parameter in this analysis and matrix.



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31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNI0401 - SM 2320 B-11 in Water

Instrument: Accumet AB150 Analyst: LERB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0401-BLK1) Prepared: 18-Sep-2025 Analyzed: 19-Sep-2025 10:17										
Alkalinity, Bicarbonate	ND	1.00	1.00	mg/L CaCO3						U
Alkalinity, Carbonate	ND	1.00	1.00	mg/L CaCO3						U
Alkalinity, Total	ND	1.00	1.00	mg/L CaCO3						U
Reference (BNI0401-SRM1) Prepared: 18-Sep-2025 Analyzed: 19-Sep-2025 10:17										
Alkalinity, Total	90.6	1.00	1.00	mg/L CaCO3	87.8		103 34.97-115.03			



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Reported:
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Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNI0408 - SM 2540 C-11 in Water

Instrument: BAL2 Analyst: RAL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BNI0408-BLK1)					Prepared: 19-Sep-2025 Analyzed: 19-Sep-2025 08:56				
Dissolved Solids	ND	5	5	mg/L					U
LCS (BNI0408-BS1)					Prepared: 19-Sep-2025 Analyzed: 19-Sep-2025 08:56				
Dissolved Solids	450	10	10	mg/L	500	90.0	90-110		



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Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNI0460 - EPA 353.2 in Water

Instrument: LACHAT2 Analyst: CRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0460-BLK1)					Prepared: 22-Sep-2025 Analyzed: 22-Sep-2025 16:30					
Nitrate + Nitrite as N	ND	0.010	0.010	mg/L						U
LCS (BNI0460-BS1)					Prepared: 22-Sep-2025 Analyzed: 22-Sep-2025 16:31					
Nitrate + Nitrite as N	0.509	0.010	0.010	mg/L	0.500	102	90-110			



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Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNI0475 - SM 2540 D-11 in Water

Instrument: BAL2 Analyst: RAL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0475-BLK1)					Prepared: 23-Sep-2025 Analyzed: 23-Sep-2025 10:09					
Suspended Solids	ND	1	1	mg/L						U
LCS (BNI0475-BS1)					Prepared: 23-Sep-2025 Analyzed: 23-Sep-2025 10:09					
Suspended Solids	49	1	1	mg/L	55.20		88.8 90-110			*



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Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNI0642 - EPA 410.4 in Water

Instrument: UV1800-1 Analyst: KOTT

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNI0642-BLK1)					Prepared: 30-Sep-2025 Analyzed: 01-Oct-2025 11:54						
COD	ND	10.0	10.0	mg/L							U
DL (BNI0642-BLK2)					Prepared: 30-Sep-2025 Analyzed: 01-Oct-2025 12:06						
COD	ND	10.0	10.0	mg/L							U
Blank (BNI0642-BLK3)					Prepared: 30-Sep-2025 Analyzed: 01-Oct-2025 12:32						
COD	ND	10.0	10.0	mg/L							U
LCS (BNI0642-BS1)					Prepared: 30-Sep-2025 Analyzed: 01-Oct-2025 11:54						
COD	100	10.0	10.0	mg/L	100		100	90-110			
DL (BNI0642-BS2)					Prepared: 30-Sep-2025 Analyzed: 01-Oct-2025 12:07						
COD	100	10.0	10.0	mg/L	100		100	90-110			
LCS (BNI0642-BS3)					Prepared: 30-Sep-2025 Analyzed: 01-Oct-2025 12:32						
COD	101	10.0	10.0	mg/L	100		101	90-110			



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Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNJ0001 - EPA 9060A in Water

Instrument: TOC-LCSH Analyst: RMS

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNJ0001-BLK1)										
Prepared: 05-Oct-2025 Analyzed: 05-Oct-2025 09:49										
Total Organic Carbon	ND	0.50	0.50	mg/L						U
LCS (BNJ0001-BS1)										
Prepared: 05-Oct-2025 Analyzed: 05-Oct-2025 10:07										
Total Organic Carbon	19.01	0.50	0.50	mg/L	20.00		95.1 90-110			



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Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNJ0026 - SM 4500-NH3 H-11 in Water

Instrument: LACHAT1 Analyst: GJD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNJ0026-BLK1)					Prepared: 02-Oct-2025 Analyzed: 02-Oct-2025 17:35					
Ammonia-N	ND	0.040	0.040	mg/L						U
LCS (BNJ0026-BS1)					Prepared: 02-Oct-2025 Analyzed: 02-Oct-2025 17:36					
Ammonia-N	0.451	0.040	0.040	mg/L	0.500		90.2 90-110			



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Project: Snipes MTN Landfill 2025
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Reported:
31-Oct-2025 13:40

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNJ0027 - EPA 375.2 in Water

Instrument: LACHAT2 Analyst: CRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNJ0027-BLK1)										
Prepared: 01-Oct-2025 Analyzed: 06-Oct-2025 15:22										
Sulfate	ND	2.00	2.00	mg/L						U
LCS (BNJ0027-BS1)										
Prepared: 01-Oct-2025 Analyzed: 06-Oct-2025 15:24										
Sulfate	14.9	2.00	2.00	mg/L	15.0		99.3 90-110			



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Reported:
31-Oct-2025 13:40

Uncertified Analytes included in this Report

Analysis Matrix & Analyte

EPA 325.2 in Water

Chloride

EPA 8081B in Water

Chlordane (NOS) [2C]

Chlordane (NOS)

EPA 8270E-SIM in Water

Benzofluoranthenes, Total

Indicates that ARL is NOT ACCREDITED for this parameter in this matrix.



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Reported:
31-Oct-2025 13:40

Certified Analyses included in this Report

Analysis Matrix & Analyte

Certification Codes

EPA 1613B in Water

2,3,7,8-TCDF	DoD-ELAP,NELAP,WADOE
2,3,7,8-TCDD	DoD-ELAP,NELAP,WADOE
1,2,3,7,8-PeCDF	DoD-ELAP,NELAP,WADOE
2,3,4,7,8-PeCDF	DoD-ELAP,NELAP,WADOE
1,2,3,7,8-PeCDD	DoD-ELAP,NELAP,WADOE
1,2,3,4,7,8-HxCDF	DoD-ELAP,NELAP,WADOE
1,2,3,6,7,8-HxCDF	DoD-ELAP,NELAP,WADOE
2,3,4,6,7,8-HxCDF	DoD-ELAP,NELAP,WADOE
1,2,3,7,8,9-HxCDF	DoD-ELAP,NELAP,WADOE
1,2,3,4,7,8-HxCDD	DoD-ELAP,NELAP,WADOE
1,2,3,6,7,8-HxCDD	DoD-ELAP,NELAP,WADOE
1,2,3,7,8,9-HxCDD	DoD-ELAP,NELAP,WADOE
1,2,3,4,6,7,8-HpCDF	DoD-ELAP,NELAP,WADOE
1,2,3,4,7,8,9-HpCDF	DoD-ELAP,NELAP,WADOE
1,2,3,4,6,7,8-HpCDD	DoD-ELAP,NELAP,WADOE
OCDF	DoD-ELAP,NELAP,WADOE
OCDD	DoD-ELAP,NELAP,WADOE
Total TCDF	DoD-ELAP,NELAP
Total TCDD	DoD-ELAP,NELAP
Total PeCDF	DoD-ELAP,NELAP
Total PeCDD	DoD-ELAP,NELAP
Total HxCDF	DoD-ELAP,NELAP
Total HxCDD	DoD-ELAP,NELAP
Total HpCDF	DoD-ELAP,NELAP
Total HpCDD	DoD-ELAP,NELAP
13C12-2,3,7,8-TCDF	DoD-ELAP
13C12-2,3,7,8-TCDD	DoD-ELAP
13C12-1,2,3,7,8-PeCDF	DoD-ELAP
13C12-2,3,4,7,8-PeCDF	DoD-ELAP
13C12-1,2,3,7,8-PeCDD	DoD-ELAP
13C12-1,2,3,4,7,8-HxCDF	DoD-ELAP
13C12-1,2,3,6,7,8-HxCDF	DoD-ELAP
13C12-2,3,4,6,7,8-HxCDF	DoD-ELAP
13C12-1,2,3,7,8,9-HxCDF	DoD-ELAP
13C12-1,2,3,4,7,8-HxCDD	DoD-ELAP
13C12-1,2,3,6,7,8-HxCDD	DoD-ELAP
13C12-1,2,3,4,6,7,8-HpCDF	DoD-ELAP



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Reported:
31-Oct-2025 13:40

13C12-1,2,3,4,7,8,9-HpCDF

DoD-ELAP

13C12-1,2,3,4,6,7,8-HpCDD

DoD-ELAP

13C12-OCDD

DoD-ELAP

37Cl4-2,3,7,8-TCDD

DoD-ELAP

EPA 353.2 in Water

Nitrate + Nitrite as N

DoD-ELAP,NELAP,WADOE

Nitrate-N

DoD-ELAP,NELAP,WADOE

Nitrite-N

DoD-ELAP,NELAP,WADOE

EPA 375.2 in Water

Sulfate

WADOE,NELAP

EPA 410.4 in Water

COD

DoD-ELAP,NELAP,WADOE

EPA 6010D in Water

Calcium

DoD-ELAP,NELAP,WADOE

Cobalt

DoD-ELAP,NELAP,WADOE

Iron

DoD-ELAP,NELAP,WADOE

Magnesium

DoD-ELAP,NELAP,WADOE

Manganese

DoD-ELAP,NELAP,WADOE

Potassium

DoD-ELAP,NELAP,WADOE

Sodium

DoD-ELAP,NELAP,WADOE

Vanadium

DoD-ELAP,NELAP,WADOE

EPA 6020B in Water

Antimony-121

DoD-ELAP,NELAP,WADOE

Arsenic-75a UCT

DoD-ELAP,WADOE

Barium-135

DoD-ELAP,NELAP,WADOE,ADEC

Beryllium-9

DoD-ELAP,NELAP,WADOE

Cadmium-111 UCT

DoD-ELAP,WADOE

Chromium-52

DoD-ELAP,NELAP,WADOE,ADEC

Copper-63 UCT

DoD-ELAP,WADOE

Lead-208

DoD-ELAP,NELAP,WADOE,ADEC

Nickel-60 UCT

DoD-ELAP,WADOE

Selenium-78 UCT

DoD-ELAP,WADOE

Silver-107

DoD-ELAP,NELAP,WADOE

Thallium-205

DoD-ELAP,NELAP,WADOE

Zinc-66 UCT

DoD-ELAP,WADOE

EPA 7470A in Water

Mercury

WADOE,NELAP,DoD-ELAP

EPA 8081B in Water

alpha-BHC

DoD-ELAP,NELAP,WADOE



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Project: Snipes MTN Landfill 2025
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Reported:
31-Oct-2025 13:40

alpha-BHC [2C]	DoD-ELAP,NELAP,WADOE
beta-BHC	DoD-ELAP,NELAP,WADOE
beta-BHC [2C]	DoD-ELAP,NELAP,WADOE
gamma-BHC (Lindane)	DoD-ELAP,NELAP,WADOE
gamma-BHC (Lindane) [2C]	DoD-ELAP,NELAP,WADOE
delta-BHC	DoD-ELAP,NELAP,WADOE
delta-BHC [2C]	DoD-ELAP,NELAP,WADOE
Heptachlor	DoD-ELAP,NELAP,WADOE
Heptachlor [2C]	DoD-ELAP,NELAP,WADOE
Aldrin	DoD-ELAP,NELAP,WADOE
Aldrin [2C]	DoD-ELAP,NELAP,WADOE
Heptachlor Epoxide	DoD-ELAP,NELAP,WADOE
Heptachlor Epoxide [2C]	DoD-ELAP,NELAP,WADOE
trans-Chlordane (beta/gamma-C	DoD-ELAP,NELAP,WADOE
trans-Chlordane (beta/gamma-C	DoD-ELAP,NELAP,WADOE
cis-Chlordane (alpha-chlordane)	DoD-ELAP,NELAP,WADOE
cis-Chlordane (alpha-chlordane)	DoD-ELAP,NELAP,WADOE
Endosulfan I	DoD-ELAP,NELAP,WADOE
Endosulfan I [2C]	DoD-ELAP,NELAP,WADOE
4,4'-DDE	DoD-ELAP,NELAP,WADOE
4,4'-DDE [2C]	DoD-ELAP,NELAP,WADOE
Endrin	DoD-ELAP,NELAP,WADOE
Endrin [2C]	DoD-ELAP,NELAP,WADOE
Endosulfan II	DoD-ELAP,NELAP,WADOE
Endosulfan II [2C]	DoD-ELAP,NELAP,WADOE
4,4'-DDD	DoD-ELAP,NELAP,WADOE
4,4'-DDD [2C]	DoD-ELAP,NELAP,WADOE
Endrin Aldehyde	DoD-ELAP,NELAP,WADOE
Endrin Aldehyde [2C]	DoD-ELAP,NELAP,WADOE
4,4'-DDT	DoD-ELAP,NELAP,WADOE
4,4'-DDT [2C]	DoD-ELAP,NELAP,WADOE
Endosulfan Sulfate	DoD-ELAP,NELAP,WADOE
Endosulfan Sulfate [2C]	DoD-ELAP,NELAP,WADOE
Endrin Ketone	DoD-ELAP,NELAP,WADOE
Endrin Ketone [2C]	DoD-ELAP,NELAP,WADOE
Methoxychlor	DoD-ELAP,NELAP,WADOE
Methoxychlor [2C]	DoD-ELAP,NELAP,WADOE
Hexachlorobutadiene	DoD-ELAP,NELAP,WADOE
Hexachlorobutadiene [2C]	DoD-ELAP,NELAP,WADOE
Hexachlorobenzene	DoD-ELAP,NELAP,WADOE
Hexachlorobenzene [2C]	DoD-ELAP,NELAP,WADOE



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Reported:
31-Oct-2025 13:40

Oxychlordane	DoD-ELAP,NELAP,WADOE
Oxychlordane [2C]	DoD-ELAP,NELAP,WADOE
EPA 8260D in Water	
Chloromethane	ADEC,NELAP,WADOE,DoD-ELAP
Vinyl Chloride	ADEC,NELAP,WADOE,DoD-ELAP
Bromomethane	ADEC,NELAP,WADOE,DoD-ELAP
Chloroethane	ADEC,NELAP,WADOE,DoD-ELAP
Trichlorofluoromethane	ADEC,NELAP,WADOE,DoD-ELAP
Acrolein	NELAP,WADOE,DoD-ELAP
1,1,2-Trichloro-1,2,2-Trifluoroeth	ADEC,NELAP,WADOE,DoD-ELAP
Acetone	ADEC,NELAP,WADOE,DoD-ELAP
1,1-Dichloroethene	ADEC,NELAP,WADOE,DoD-ELAP
Iodomethane	NELAP,WADOE,DoD-ELAP
Methylene Chloride	ADEC,NELAP,WADOE,DoD-ELAP
Acrylonitrile	NELAP,WADOE,DoD-ELAP
Carbon Disulfide	NELAP,WADOE,DoD-ELAP
trans-1,2-Dichloroethene	ADEC,NELAP,WADOE,DoD-ELAP
Vinyl Acetate	NELAP,WADOE,DoD-ELAP
1,1-Dichloroethane	ADEC,NELAP,WADOE,DoD-ELAP
2-Butanone	NELAP,WADOE,DoD-ELAP
2,2-Dichloropropane	ADEC,NELAP,WADOE,DoD-ELAP
cis-1,2-Dichloroethene	ADEC,NELAP,WADOE,DoD-ELAP
Chloroform	ADEC,NELAP,WADOE,DoD-ELAP
Bromochloromethane	ADEC,NELAP,WADOE,DoD-ELAP
1,1,1-Trichloroethane	ADEC,NELAP,WADOE,DoD-ELAP
1,1-Dichloropropene	ADEC,NELAP,WADOE,DoD-ELAP
Carbon tetrachloride	ADEC,NELAP,WADOE,DoD-ELAP
1,2-Dichloroethane	ADEC,NELAP,WADOE,DoD-ELAP
Benzene	ADEC,NELAP,WADOE,DoD-ELAP
Trichloroethene	ADEC,NELAP,WADOE,DoD-ELAP
1,2-Dichloropropane	ADEC,NELAP,WADOE,DoD-ELAP
Bromodichloromethane	ADEC,NELAP,WADOE,DoD-ELAP
Dibromomethane	ADEC,NELAP,WADOE,DoD-ELAP
2-Chloroethyl vinyl ether	ADEC,NELAP,WADOE,DoD-ELAP
4-Methyl-2-Pentanone	NELAP,WADOE,DoD-ELAP
cis-1,3-Dichloropropene	ADEC,NELAP,WADOE,DoD-ELAP
Toluene	ADEC,NELAP,WADOE,DoD-ELAP
trans-1,3-Dichloropropene	ADEC,NELAP,WADOE,DoD-ELAP
2-Hexanone	NELAP,WADOE,DoD-ELAP
1,1,2-Trichloroethane	ADEC,NELAP,WADOE,DoD-ELAP
1,3-Dichloropropane	ADEC,NELAP,WADOE,DoD-ELAP



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Reported:
31-Oct-2025 13:40

Tetrachloroethene	ADEC,NELAP,WADOE,DoD-ELAP
Dibromochloromethane	ADEC,NELAP,WADOE,DoD-ELAP
1,2-Dibromoethane	NELAP,WADOE,DoD-ELAP
Chlorobenzene	ADEC,NELAP,WADOE,DoD-ELAP
Ethylbenzene	ADEC,NELAP,WADOE,DoD-ELAP
1,1,1,2-Tetrachloroethane	ADEC,NELAP,WADOE,DoD-ELAP
m,p-Xylene	ADEC,NELAP,WADOE,DoD-ELAP
o-Xylene	ADEC,NELAP,WADOE,DoD-ELAP
Xylenes, total	ADEC,NELAP,WADOE,DoD-ELAP
Styrene	NELAP,WADOE,DoD-ELAP
Bromoform	NELAP,WADOE,DoD-ELAP
1,1,2,2-Tetrachloroethane	ADEC,NELAP,WADOE,DoD-ELAP
1,2,3-Trichloropropane	ADEC,NELAP,WADOE,DoD-ELAP
trans-1,4-Dichloro 2-Butene	ADEC,NELAP,WADOE,DoD-ELAP
n-Propylbenzene	NELAP,WADOE,DoD-ELAP
Bromobenzene	NELAP,WADOE,DoD-ELAP
Isopropyl Benzene	NELAP,WADOE,DoD-ELAP
2-Chlorotoluene	ADEC,NELAP,WADOE,DoD-ELAP
4-Chlorotoluene	ADEC,NELAP,WADOE,DoD-ELAP
t-Butylbenzene	NELAP,WADOE,DoD-ELAP
1,3,5-Trimethylbenzene	NELAP,WADOE,DoD-ELAP
1,2,4-Trimethylbenzene	NELAP,WADOE,DoD-ELAP
s-Butylbenzene	NELAP,WADOE,DoD-ELAP
4-Isopropyl Toluene	NELAP,WADOE,DoD-ELAP
1,3-Dichlorobenzene	ADEC,NELAP,WADOE,DoD-ELAP
1,4-Dichlorobenzene	ADEC,NELAP,WADOE,DoD-ELAP
n-Butylbenzene	NELAP,WADOE,DoD-ELAP
1,2-Dichlorobenzene	ADEC,NELAP,WADOE,DoD-ELAP
1,2-Dibromo-3-chloropropane	ADEC,NELAP,WADOE,DoD-ELAP
1,2,4-Trichlorobenzene	ADEC,NELAP,WADOE,DoD-ELAP
Hexachloro-1,3-Butadiene	ADEC,NELAP,WADOE,DoD-ELAP
Naphthalene	ADEC,NELAP,WADOE,DoD-ELAP
1,2,3-Trichlorobenzene	ADEC,NELAP,WADOE,DoD-ELAP
Dichlorodifluoromethane	ADEC,NELAP,WADOE,DoD-ELAP
Methyl tert-butyl Ether	ADEC,NELAP,WADOE,DoD-ELAP
2-Pentanone	WADOE
EPA 8260D-SIM in Water	
Vinyl chloride	NELAP,WADOE
EPA 8270E in Water	
1,4-Dioxane	WADOE,NELAP,DoD-ELAP



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
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Reported:
31-Oct-2025 13:40

Phenol	WADOE,DoD-ELAP,NELAP
bis(2-chloroethyl) ether	WADOE,DoD-ELAP,NELAP
2-Chlorophenol	WADOE,DoD-ELAP,NELAP
1,3-Dichlorobenzene	WADOE,DoD-ELAP,NELAP
1,4-Dichlorobenzene	WADOE,DoD-ELAP,NELAP
1,2-Dichlorobenzene	WADOE,DoD-ELAP,NELAP
Benzyl Alcohol	WADOE,DoD-ELAP,NELAP
2,2'-Oxybis(1-chloropropane)	WADOE,DoD-ELAP,NELAP
2-Methylphenol	WADOE,DoD-ELAP,NELAP
Hexachloroethane	WADOE,DoD-ELAP,NELAP
N-Nitroso-di-n-Propylamine	WADOE,DoD-ELAP,NELAP
4-Methylphenol	WADOE,DoD-ELAP,NELAP
Nitrobenzene	WADOE,DoD-ELAP,NELAP
Isophorone	WADOE,DoD-ELAP,NELAP
2-Nitrophenol	WADOE,DoD-ELAP,NELAP
2,4-Dimethylphenol	WADOE,DoD-ELAP,NELAP
Bis(2-Chloroethoxy)methane	WADOE,DoD-ELAP,NELAP
2,4-Dichlorophenol	WADOE,DoD-ELAP,NELAP
1,2,4-Trichlorobenzene	WADOE,DoD-ELAP,NELAP
Naphthalene	WADOE,DoD-ELAP,NELAP,ADEC
Benzoic acid	WADOE,DoD-ELAP,NELAP
4-Chloroaniline	WADOE,DoD-ELAP,NELAP
Hexachlorobutadiene	WADOE,DoD-ELAP,NELAP
4-Chloro-3-Methylphenol	WADOE,DoD-ELAP,NELAP
2-Methylnaphthalene	WADOE,DoD-ELAP,NELAP,ADEC
Hexachlorocyclopentadiene	WADOE,DoD-ELAP,NELAP
2,4,6-Trichlorophenol	WADOE,DoD-ELAP,NELAP
2,4,5-Trichlorophenol	WADOE,DoD-ELAP,NELAP
2-Chloronaphthalene	WADOE,DoD-ELAP,NELAP
2-Nitroaniline	WADOE,DoD-ELAP,NELAP
Acenaphthylene	WADOE,DoD-ELAP,NELAP,ADEC
Dimethylphthalate	WADOE,DoD-ELAP,NELAP
2,6-Dinitrotoluene	WADOE,DoD-ELAP,NELAP
Acenaphthene	WADOE,DoD-ELAP,NELAP,ADEC
3-Nitroaniline	WADOE,DoD-ELAP,NELAP
2,4-Dinitrophenol	WADOE,DoD-ELAP,NELAP
Dibenzofuran	WADOE,DoD-ELAP,NELAP
4-Nitrophenol	WADOE,DoD-ELAP,NELAP
2,4-Dinitrotoluene	WADOE,DoD-ELAP,NELAP
Fluorene	WADOE,DoD-ELAP,NELAP,ADEC
4-Chlorophenylphenyl ether	WADOE,DoD-ELAP,NELAP



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Project: Snipes MTN Landfill 2025
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Reported:
31-Oct-2025 13:40

Diethyl phthalate	WADOE,DoD-ELAP,NELAP
4-Nitroaniline	WADOE,DoD-ELAP,NELAP
4,6-Dinitro-2-methylphenol	WADOE,DoD-ELAP,NELAP
N-Nitrosodiphenylamine	WADOE,DoD-ELAP,NELAP
4-Bromophenyl phenyl ether	WADOE,DoD-ELAP,NELAP
Hexachlorobenzene	WADOE,DoD-ELAP,NELAP
Pentachlorophenol	WADOE,DoD-ELAP,NELAP
Phenanthrene	WADOE,DoD-ELAP,NELAP,ADEC
Anthracene	WADOE,DoD-ELAP,NELAP,ADEC
Carbazole	WADOE,DoD-ELAP,NELAP,ADEC
Di-n-Butylphthalate	WADOE,DoD-ELAP,NELAP
Fluoranthene	WADOE,DoD-ELAP,NELAP,ADEC
Pyrene	WADOE,DoD-ELAP,NELAP,ADEC
Butylbenzylphthalate	WADOE,DoD-ELAP,NELAP
Benzo(a)anthracene	WADOE,DoD-ELAP,NELAP,ADEC
3,3'-Dichlorobenzidine	WADOE,DoD-ELAP,NELAP
Chrysene	WADOE,DoD-ELAP,NELAP,ADEC
bis(2-Ethylhexyl)phthalate	WADOE,DoD-ELAP,NELAP
Di-n-Octylphthalate	WADOE,DoD-ELAP,NELAP
Benzo(a)fluoranthene, Total	WADOE,DoD-ELAP,NELAP,ADEC
Benzo(a)pyrene	WADOE,DoD-ELAP,NELAP,ADEC
Indeno(1,2,3-cd)pyrene	WADOE,DoD-ELAP,NELAP,ADEC
Dibenzo(a,h)anthracene	WADOE,DoD-ELAP,NELAP,ADEC
Benzo(g,h,i)perylene	WADOE,DoD-ELAP,NELAP,ADEC
1-Methylnaphthalene	WADOE,DoD-ELAP,NELAP,ADEC
2,3,4,6-Tetrachlorophenol	WADOE,DoD-ELAP

EPA 8270E-SIM in Water

Naphthalene	ADEC,DoD-ELAP,NELAP,WADOE
2-Methylnaphthalene	ADEC,DoD-ELAP,NELAP,WADOE
1-Methylnaphthalene	ADEC,DoD-ELAP,NELAP,WADOE
Acenaphthylene	ADEC,DoD-ELAP,NELAP,WADOE
Acenaphthene	ADEC,DoD-ELAP,NELAP,WADOE
Dibenzofuran	ADEC,DoD-ELAP,NELAP,WADOE
Fluorene	ADEC,DoD-ELAP,NELAP,WADOE
Phenanthrene	ADEC,DoD-ELAP,NELAP,WADOE
Anthracene	ADEC,DoD-ELAP,NELAP,WADOE
Carbazole	NELAP,WADOE
Fluoranthene	ADEC,DoD-ELAP,NELAP,WADOE
Pyrene	ADEC,DoD-ELAP,NELAP,WADOE
Benzo(a)anthracene	ADEC,DoD-ELAP,NELAP,WADOE
Chrysene	ADEC,DoD-ELAP,NELAP,WADOE



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Project: Snipes MTN Landfill 2025
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Reported:
31-Oct-2025 13:40

Benzo(b)fluoranthene	ADEC,DoD-ELAP,NELAP,WADOE
Benzo(k)fluoranthene	ADEC,DoD-ELAP,NELAP,WADOE
Benzo(j)fluoranthene	ADEC,NELAP,WADOE
Benzo(a)pyrene	ADEC,DoD-ELAP,NELAP,WADOE
Perylene	ADEC,DoD-ELAP,NELAP
Indeno(1,2,3-cd)pyrene	ADEC,DoD-ELAP,WADOE
Dibenzo(a,h)anthracene	ADEC,DoD-ELAP,NELAP,WADOE
Benzo(g,h,i)perylene	ADEC,DoD-ELAP,NELAP,WADOE
EPA 9060A in Water	
Total Organic Carbon	DoD-ELAP,WADOE,NELAP
SM 2320 B-11 in Water	
Alkalinity, Bicarbonate	NELAP,WADOE,DoD-ELAP
Alkalinity, Carbonate	WADOE,DoD-ELAP,NELAP
Alkalinity, Total	DoD-ELAP,WADOE,NELAP
SM 2540 C-11 in Water	
Dissolved Solids	DoD-ELAP,WADOE,NELAP,WA-DW
SM 2540 D-11 in Water	
Suspended Solids	DoD-ELAP,WADOE,NELAP
SM 4500-NH3 H-11 in Water	
Ammonia-N	WADOE,DoD-ELAP,NELAP

Certifications

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/28/2026
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	01/31/2026
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-018	05/12/2026
WADOE	WA Dept of Ecology	C558	06/30/2026
WA-DW	Ecology - Drinking Water	C558	06/30/2026



Mott MacDonald
1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
EMPC	Estimated Maximum Possible Concentration
H	Hold time violation - Hold time was exceeded.
HC	The natural concentration of the spiked analyte is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
J	Estimated concentration value detected below the reporting limit.
J1	Initial calibration for this analyte met all QC requirements, except the low point of the curve has exceeded the Relative Standard Error(%RSE) limit. Associated results are estimated values below the next higher point in the calibration.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
P1	The reported value is greater than 40% difference between the concentrations determined on two GC columns where applicable.
Q	Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($<20\%$ RSD, $<20\%$ drift or minimum RRF)
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.
!	Indicates that ARL is NOT ACCREDITED for this parameter in samples logged as 'Drinking Water'
#	Indicates that ARL is NOT ACCREDITED for this parameter in this analysis and matrix.



ANALYTICAL REPORT

PREPARED FOR

Attn: Ashley Parkhurst
Mott MacDonald Consultants, Inc.
1601 5th Avenue
Suite 800
Seattle, Washington 98101

Generated 12/11/2025 2:20:36 PM

JOB DESCRIPTION

Snipes LF RIFS

JOB NUMBER

320-127603-1

Eurofins Sacramento

Job Notes

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

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

Authorization



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(916)374-4362

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	15
Isotope Dilution Summary	16
QC Sample Results	18
QC Association Summary	26
Lab Chronicle	27
Certification Summary	28
Method Summary	30
Sample Summary	31
Chain of Custody	32
Receipt Checklists	35



Definitions/Glossary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Mott MacDonald Consultants, Inc.
Project: Snipes LF RIFS

Job ID: 320-127603-1

Job ID: 320-127603-1

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Job Narrative 320-127603-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 11/24/2025 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. However, FedEx delayed delivery and the ice had melted during transit and the temperature of the cooler at receipt was 12.3° C, which is above the required temperature criteria.

Receipt Exceptions

The collection time listed on the 1L container labels as 12:00 does not match the time of 13:00 listed on the Chain-of-Custody (COC): SMW-4 (320-127603-1). All containers for the sample were logged in according to COC.

Herbicides

Method 8151A: Insufficient volume was provided to prepare a matrix spike/matrix spike duplicate (MS/MSD) with preparation batch 570-661556.

Method 8151A: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-661556 and analytical batch 570-663164 recovered outside control limits for the following analytes: Dinoseb.

Method 8151A: The closing continuing calibration verification (CCVC) associated with batch 570-663164 recovered above the upper control limit for Dinoseb. The sample associated with this CCV was non-detect for the affected analyte; therefore, the data have been reported.

Method 8151A: The continuing calibration verification (CCV) associated with 570-663164 recovered outside the control limits on one column. Results are confirmed on both columns and reported from the passing column.

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

PFAS

Method 1633_Final: The "I" qualifier means the transition mass ratio for the indicated analyte was outside the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. The associated analytes have been flagged.

Method 1633_Final: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the Method Blank (MB 320-890786/1-A). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

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

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Detection Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Client Sample ID: SMW-4

Lab Sample ID: 320-127603-1

No Detections.

Client Sample ID: SMW-5d

Lab Sample ID: 320-127603-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	9.1		3.5	0.87	ng/L		1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	7.4		1.7	0.43	ng/L		1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	0.47	J	1.7	0.43	ng/L		1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	1.5	J	1.7	0.43	ng/L		1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	0.44	J	1.7	0.43	ng/L		1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.50	J	1.7	0.47	ng/L		1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.47	J I	1.7	0.43	ng/L		1		1633	Total/NA

Client Sample ID: SMW-5s

Lab Sample ID: 320-127603-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	240		3.5	0.88	ng/L		1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	65		1.8	0.44	ng/L		1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	0.75	J	1.8	0.44	ng/L		1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	2.2		1.8	0.44	ng/L		1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.3	J	1.8	0.44	ng/L		1		1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	0.87	J	1.8	0.44	ng/L		1		1633	Total/NA
NMeFOSAA	0.69	J	1.8	0.44	ng/L		1		1633	Total/NA
3:3 FTCA	5.9		3.5	0.88	ng/L		1		1633	Total/NA

Client Sample ID: SMW-5d-DUP

Lab Sample ID: 320-127603-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	9.8		3.4	0.85	ng/L		1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	7.0		1.7	0.43	ng/L		1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	0.64	J	1.7	0.43	ng/L		1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	1.5	J	1.7	0.43	ng/L		1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.53	J	1.7	0.46	ng/L		1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.44	J I	1.7	0.43	ng/L		1		1633	Total/NA
7:3 FTCA	2.2	J	8.5	2.1	ng/L		1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Client Sample ID: SMW-4

Lab Sample ID: 320-127603-1

Date Collected: 11/19/25 13:00

Matrix: Water

Date Received: 11/24/25 09:20

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	ND	*1	2.4	2.1	ug/L		11/25/25 12:31	12/01/25 15:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	92		20 - 161				11/25/25 12:31	12/01/25 15:57	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.4	0.85	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.47	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.7	0.49	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.69	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.46	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.45	ng/L		12/08/25 05:02	12/09/25 17:54	1
4:2 FTS	ND		3.4	0.85	ng/L		12/08/25 05:02	12/09/25 17:54	1
6:2 FTS	ND		3.4	0.85	ng/L		12/08/25 05:02	12/09/25 17:54	1
8:2 FTS	ND		3.4	0.85	ng/L		12/08/25 05:02	12/09/25 17:54	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
NMeFOSA	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
NEtFOSA	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
NMeFOSAA	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
NEtFOSAA	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
NMeFOSE	ND		8.5	2.1	ng/L		12/08/25 05:02	12/09/25 17:54	1
NEtFOSE	ND		8.5	2.1	ng/L		12/08/25 05:02	12/09/25 17:54	1
HFPO-DA (GenX)	ND		1.3	0.33	ng/L		12/08/25 05:02	12/09/25 17:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
PFMPA	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
PFMBA	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
NFDHA	ND		1.7	0.61	ng/L		12/08/25 05:02	12/09/25 17:54	1
9CI-PF3ONS	ND		1.7	0.49	ng/L		12/08/25 05:02	12/09/25 17:54	1
11CI-PF3OUdS	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
PFEESA	ND		1.7	0.42	ng/L		12/08/25 05:02	12/09/25 17:54	1
3:3 FTCA	ND		3.4	0.85	ng/L		12/08/25 05:02	12/09/25 17:54	1
5:3 FTCA	ND		8.5	2.1	ng/L		12/08/25 05:02	12/09/25 17:54	1
7:3 FTCA	ND		8.5	2.1	ng/L		12/08/25 05:02	12/09/25 17:54	1

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Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Client Sample ID: SMW-4

Lab Sample ID: 320-127603-1

Date Collected: 11/19/25 13:00

Matrix: Water

Date Received: 11/24/25 09:20

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	107		5 - 130	12/08/25 05:02	12/09/25 17:54	1
13C5 PFPeA	104		40 - 130	12/08/25 05:02	12/09/25 17:54	1
13C5 PFHxA	113		40 - 130	12/08/25 05:02	12/09/25 17:54	1
13C4 PFHpA	98.4		40 - 130	12/08/25 05:02	12/09/25 17:54	1
13C8 PFOA	108		40 - 130	12/08/25 05:02	12/09/25 17:54	1
13C9 PFNA	106		40 - 130	12/08/25 05:02	12/09/25 17:54	1
13C6 PFDA	105		40 - 130	12/08/25 05:02	12/09/25 17:54	1
13C7 PFUnA	108		30 - 130	12/08/25 05:02	12/09/25 17:54	1
13C2 PFDoA	107		10 - 130	12/08/25 05:02	12/09/25 17:54	1
13C2 PFTeDA	78.6		10 - 130	12/08/25 05:02	12/09/25 17:54	1
13C3 PFBS	118		40 - 135	12/08/25 05:02	12/09/25 17:54	1
13C3 PFHxS	109		40 - 130	12/08/25 05:02	12/09/25 17:54	1
13C8 PFOS	111		40 - 130	12/08/25 05:02	12/09/25 17:54	1
13C8 FOSA	98.7		40 - 130	12/08/25 05:02	12/09/25 17:54	1
d3-NMeFOSAA	104		40 - 170	12/08/25 05:02	12/09/25 17:54	1
d5-NEtFOSAA	99.4		25 - 135	12/08/25 05:02	12/09/25 17:54	1
13C2 4:2 FTS	129		40 - 200	12/08/25 05:02	12/09/25 17:54	1
13C2 6:2 FTS	112		40 - 200	12/08/25 05:02	12/09/25 17:54	1
13C2 8:2 FTS	103		40 - 300	12/08/25 05:02	12/09/25 17:54	1
13C3 HFPO-DA	85.7		40 - 130	12/08/25 05:02	12/09/25 17:54	1
d7-N-MeFOSE-M	83.5		10 - 130	12/08/25 05:02	12/09/25 17:54	1
d9-N-EtFOSE-M	84.4		10 - 130	12/08/25 05:02	12/09/25 17:54	1
d5-NEtPFOSA	74.9		10 - 130	12/08/25 05:02	12/09/25 17:54	1
d3-NMePFOSA	85.6		10 - 130	12/08/25 05:02	12/09/25 17:54	1

Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Client Sample ID: SMW-5d

Lab Sample ID: 320-127603-2

Date Collected: 11/19/25 11:00

Matrix: Water

Date Received: 11/24/25 09:20

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	9.1		3.5	0.87	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluoropentanoic acid (PFPeA)	7.4		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluorohexanoic acid (PFHxA)	0.47	J	1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluorooctanoic acid (PFOA)	1.5	J	1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluorodecanoic acid (PFDA)	0.44	J	1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.48	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.7	0.50	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.70	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluorobutanesulfonic acid (PFBS)	0.50	J	1.7	0.47	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluorooctanesulfonic acid (PFOS)	0.47	J I	1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.46	ng/L		12/08/25 05:02	12/09/25 18:10	1
4:2 FTS	ND		3.5	0.87	ng/L		12/08/25 05:02	12/09/25 18:10	1
6:2 FTS	ND		3.5	0.87	ng/L		12/08/25 05:02	12/09/25 18:10	1
8:2 FTS	ND		3.5	0.87	ng/L		12/08/25 05:02	12/09/25 18:10	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
NMeFOSA	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
NEtFOSA	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
NMeFOSAA	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
NEtFOSAA	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
NMeFOSE	ND		8.7	2.2	ng/L		12/08/25 05:02	12/09/25 18:10	1
NEtFOSE	ND		8.7	2.2	ng/L		12/08/25 05:02	12/09/25 18:10	1
HFPO-DA (GenX)	ND		1.3	0.34	ng/L		12/08/25 05:02	12/09/25 18:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
PFMPA	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
PFMBA	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
NFDHA	ND		1.7	0.62	ng/L		12/08/25 05:02	12/09/25 18:10	1
9CI-PF3ONS	ND		1.7	0.50	ng/L		12/08/25 05:02	12/09/25 18:10	1
11CI-PF3OUdS	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
PFEESA	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:10	1
3:3 FTCA	ND		3.5	0.87	ng/L		12/08/25 05:02	12/09/25 18:10	1
5:3 FTCA	ND		8.7	2.2	ng/L		12/08/25 05:02	12/09/25 18:10	1
7:3 FTCA	ND		8.7	2.2	ng/L		12/08/25 05:02	12/09/25 18:10	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	93.8		5 - 130				12/08/25 05:02	12/09/25 18:10	1
13C5 PFPeA	120		40 - 130				12/08/25 05:02	12/09/25 18:10	1
13C5 PFHxA	109		40 - 130				12/08/25 05:02	12/09/25 18:10	1
13C4 PFHpA	93.9		40 - 130				12/08/25 05:02	12/09/25 18:10	1

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Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Client Sample ID: SMW-5d

Lab Sample ID: 320-127603-2

Date Collected: 11/19/25 11:00

Matrix: Water

Date Received: 11/24/25 09:20

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	107		40 - 130	12/08/25 05:02	12/09/25 18:10	1
13C9 PFNA	112		40 - 130	12/08/25 05:02	12/09/25 18:10	1
13C6 PFDA	105		40 - 130	12/08/25 05:02	12/09/25 18:10	1
13C7 PFUnA	104		30 - 130	12/08/25 05:02	12/09/25 18:10	1
13C2 PFDoA	104		10 - 130	12/08/25 05:02	12/09/25 18:10	1
13C2 PFTeDA	91.3		10 - 130	12/08/25 05:02	12/09/25 18:10	1
13C3 PFBS	118		40 - 135	12/08/25 05:02	12/09/25 18:10	1
13C3 PFHxS	103		40 - 130	12/08/25 05:02	12/09/25 18:10	1
13C8 PFOS	120		40 - 130	12/08/25 05:02	12/09/25 18:10	1
13C8 FOSA	97.4		40 - 130	12/08/25 05:02	12/09/25 18:10	1
d3-NMeFOSAA	116		40 - 170	12/08/25 05:02	12/09/25 18:10	1
d5-NEtFOSAA	108		25 - 135	12/08/25 05:02	12/09/25 18:10	1
13C2 4:2 FTS	157		40 - 200	12/08/25 05:02	12/09/25 18:10	1
13C2 6:2 FTS	135		40 - 200	12/08/25 05:02	12/09/25 18:10	1
13C2 8:2 FTS	116		40 - 300	12/08/25 05:02	12/09/25 18:10	1
13C3 HFPO-DA	85.9		40 - 130	12/08/25 05:02	12/09/25 18:10	1
d7-N-MeFOSE-M	90.6		10 - 130	12/08/25 05:02	12/09/25 18:10	1
d9-N-EtFOSE-M	89.1		10 - 130	12/08/25 05:02	12/09/25 18:10	1
d5-NEtPFOSA	85.9		10 - 130	12/08/25 05:02	12/09/25 18:10	1
d3-NMePFOSA	87.2		10 - 130	12/08/25 05:02	12/09/25 18:10	1

Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Client Sample ID: SMW-5s

Lab Sample ID: 320-127603-3

Date Collected: 11/19/25 15:00

Matrix: Water

Date Received: 11/24/25 09:20

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	240		3.5	0.88	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluoropentanoic acid (PFPeA)	65		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluorohexanoic acid (PFHxA)	0.75	J	1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluorooctanoic acid (PFOA)	2.2		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.48	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.8	0.51	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.71	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.48	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluorooctanesulfonic acid (PFOS)	1.3	J	1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.47	ng/L		12/08/25 05:02	12/09/25 18:26	1
4:2 FTS	ND		3.5	0.88	ng/L		12/08/25 05:02	12/09/25 18:26	1
6:2 FTS	ND		3.5	0.88	ng/L		12/08/25 05:02	12/09/25 18:26	1
8:2 FTS	ND		3.5	0.88	ng/L		12/08/25 05:02	12/09/25 18:26	1
Perfluorooctanesulfonamide (PFOSA)	0.87	J	1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
NMeFOSA	ND		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
NEtFOSA	ND		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
NMeFOSAA	0.69	J	1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
NEtFOSAA	ND		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
NMeFOSE	ND		8.8	2.2	ng/L		12/08/25 05:02	12/09/25 18:26	1
NEtFOSE	ND		8.8	2.2	ng/L		12/08/25 05:02	12/09/25 18:26	1
HFPO-DA (GenX)	ND		1.3	0.34	ng/L		12/08/25 05:02	12/09/25 18:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
PFMPA	ND		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
PFMBA	ND		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
NFDHA	ND		1.8	0.63	ng/L		12/08/25 05:02	12/09/25 18:26	1
9CI-PF3ONS	ND		1.8	0.51	ng/L		12/08/25 05:02	12/09/25 18:26	1
11CI-PF3OUdS	ND		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
PFEESA	ND		1.8	0.44	ng/L		12/08/25 05:02	12/09/25 18:26	1
3:3 FTCA	5.9		3.5	0.88	ng/L		12/08/25 05:02	12/09/25 18:26	1
5:3 FTCA	ND		8.8	2.2	ng/L		12/08/25 05:02	12/09/25 18:26	1
7:3 FTCA	ND		8.8	2.2	ng/L		12/08/25 05:02	12/09/25 18:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	94.4		5 - 130				12/08/25 05:02	12/09/25 18:26	1
13C5 PFPeA	125		40 - 130				12/08/25 05:02	12/09/25 18:26	1
13C5 PFHxA	104		40 - 130				12/08/25 05:02	12/09/25 18:26	1
13C4 PFHpA	105		40 - 130				12/08/25 05:02	12/09/25 18:26	1

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Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Client Sample ID: SMW-5s

Lab Sample ID: 320-127603-3

Date Collected: 11/19/25 15:00

Matrix: Water

Date Received: 11/24/25 09:20

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	106		40 - 130	12/08/25 05:02	12/09/25 18:26	1
13C9 PFNA	113		40 - 130	12/08/25 05:02	12/09/25 18:26	1
13C6 PFDA	96.3		40 - 130	12/08/25 05:02	12/09/25 18:26	1
13C7 PFUnA	99.1		30 - 130	12/08/25 05:02	12/09/25 18:26	1
13C2 PFDoA	102		10 - 130	12/08/25 05:02	12/09/25 18:26	1
13C2 PFTeDA	89.4		10 - 130	12/08/25 05:02	12/09/25 18:26	1
13C3 PFBS	116		40 - 135	12/08/25 05:02	12/09/25 18:26	1
13C3 PFHxS	104		40 - 130	12/08/25 05:02	12/09/25 18:26	1
13C8 PFOS	110		40 - 130	12/08/25 05:02	12/09/25 18:26	1
13C8 FOSA	94.0		40 - 130	12/08/25 05:02	12/09/25 18:26	1
d3-NMeFOSAA	105		40 - 170	12/08/25 05:02	12/09/25 18:26	1
d5-NEtFOSAA	96.4		25 - 135	12/08/25 05:02	12/09/25 18:26	1
13C2 4:2 FTS	127		40 - 200	12/08/25 05:02	12/09/25 18:26	1
13C2 6:2 FTS	129		40 - 200	12/08/25 05:02	12/09/25 18:26	1
13C2 8:2 FTS	105		40 - 300	12/08/25 05:02	12/09/25 18:26	1
13C3 HFPO-DA	96.0		40 - 130	12/08/25 05:02	12/09/25 18:26	1
d7-N-MeFOSE-M	73.1		10 - 130	12/08/25 05:02	12/09/25 18:26	1
d9-N-EtFOSE-M	68.7		10 - 130	12/08/25 05:02	12/09/25 18:26	1
d5-NEtPFOSA	72.8		10 - 130	12/08/25 05:02	12/09/25 18:26	1
d3-NMePFOSA	79.1		10 - 130	12/08/25 05:02	12/09/25 18:26	1

Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Client Sample ID: SMW-5d-DUP

Lab Sample ID: 320-127603-4

Date Collected: 11/19/25 11:00

Matrix: Water

Date Received: 11/24/25 09:20

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	9.8		3.4	0.85	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluoropentanoic acid (PFPeA)	7.0		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluorohexanoic acid (PFHxA)	0.64	J	1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluorooctanoic acid (PFOA)	1.5	J	1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.47	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.7	0.50	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.69	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluorobutanesulfonic acid (PFBS)	0.53	J	1.7	0.46	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluorooctanesulfonic acid (PFOS)	0.44	J I	1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.45	ng/L		12/08/25 05:02	12/09/25 18:43	1
4:2 FTS	ND		3.4	0.85	ng/L		12/08/25 05:02	12/09/25 18:43	1
6:2 FTS	ND		3.4	0.85	ng/L		12/08/25 05:02	12/09/25 18:43	1
8:2 FTS	ND		3.4	0.85	ng/L		12/08/25 05:02	12/09/25 18:43	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
NMeFOSA	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
NEtFOSA	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
NMeFOSAA	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
NEtFOSAA	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
NMeFOSE	ND		8.5	2.1	ng/L		12/08/25 05:02	12/09/25 18:43	1
NEtFOSE	ND		8.5	2.1	ng/L		12/08/25 05:02	12/09/25 18:43	1
HFPO-DA (GenX)	ND		1.3	0.33	ng/L		12/08/25 05:02	12/09/25 18:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
PFMPA	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
PFMBA	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
NFDHA	ND		1.7	0.62	ng/L		12/08/25 05:02	12/09/25 18:43	1
9CI-PF3ONS	ND		1.7	0.50	ng/L		12/08/25 05:02	12/09/25 18:43	1
11CI-PF3OUdS	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
PFEESA	ND		1.7	0.43	ng/L		12/08/25 05:02	12/09/25 18:43	1
3:3 FTCA	ND		3.4	0.85	ng/L		12/08/25 05:02	12/09/25 18:43	1
5:3 FTCA	ND		8.5	2.1	ng/L		12/08/25 05:02	12/09/25 18:43	1
7:3 FTCA	2.2	J	8.5	2.1	ng/L		12/08/25 05:02	12/09/25 18:43	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	96.4		5 - 130				12/08/25 05:02	12/09/25 18:43	1
13C5 PFPeA	117		40 - 130				12/08/25 05:02	12/09/25 18:43	1
13C5 PFHxA	96.9		40 - 130				12/08/25 05:02	12/09/25 18:43	1
13C4 PFHpA	94.0		40 - 130				12/08/25 05:02	12/09/25 18:43	1

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Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Client Sample ID: SMW-5d-DUP

Lab Sample ID: 320-127603-4

Date Collected: 11/19/25 11:00

Matrix: Water

Date Received: 11/24/25 09:20

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	107		40 - 130	12/08/25 05:02	12/09/25 18:43	1
13C9 PFNA	110		40 - 130	12/08/25 05:02	12/09/25 18:43	1
13C6 PFDA	102		40 - 130	12/08/25 05:02	12/09/25 18:43	1
13C7 PFUnA	98.5		30 - 130	12/08/25 05:02	12/09/25 18:43	1
13C2 PFDoA	88.7		10 - 130	12/08/25 05:02	12/09/25 18:43	1
13C2 PFTeDA	83.4		10 - 130	12/08/25 05:02	12/09/25 18:43	1
13C3 PFBS	115		40 - 135	12/08/25 05:02	12/09/25 18:43	1
13C3 PFHxS	110		40 - 130	12/08/25 05:02	12/09/25 18:43	1
13C8 PFOS	124		40 - 130	12/08/25 05:02	12/09/25 18:43	1
13C8 FOSA	104		40 - 130	12/08/25 05:02	12/09/25 18:43	1
d3-NMeFOSAA	112		40 - 170	12/08/25 05:02	12/09/25 18:43	1
d5-NEtFOSAA	110		25 - 135	12/08/25 05:02	12/09/25 18:43	1
13C2 4:2 FTS	166		40 - 200	12/08/25 05:02	12/09/25 18:43	1
13C2 6:2 FTS	153		40 - 200	12/08/25 05:02	12/09/25 18:43	1
13C2 8:2 FTS	102		40 - 300	12/08/25 05:02	12/09/25 18:43	1
13C3 HFPO-DA	80.6		40 - 130	12/08/25 05:02	12/09/25 18:43	1
d7-N-MeFOSE-M	83.8		10 - 130	12/08/25 05:02	12/09/25 18:43	1
d9-N-EtFOSE-M	86.5		10 - 130	12/08/25 05:02	12/09/25 18:43	1
d5-NEtPFOSA	88.1		10 - 130	12/08/25 05:02	12/09/25 18:43	1
d3-NMePFOSA	86.1		10 - 130	12/08/25 05:02	12/09/25 18:43	1

Surrogate Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Method: 8151A - Herbicides (GC)
Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	DCPAA1 (20-161)
320-127603-1	SMW-4	92
LCS 570-661556/2-A	Lab Control Sample	80
LCSD 570-661556/3-A	Lab Control Sample Dup	87
MB 570-661556/1-A	Method Blank	78
Surrogate Legend		
DCPAA = 2,4-Dichlorophenylacetic acid (Surr)		

Isotope Dilution Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
320-127603-1	SMW-4	107	104	113	98.4	108	106	105	108
320-127603-2	SMW-5d	93.8	120	109	93.9	107	112	105	104
320-127603-3	SMW-5s	94.4	125	104	105	106	113	96.3	99.1
320-127603-4	SMW-5d-DUP	96.4	117	96.9	94.0	107	110	102	98.5
LCS 320-890786/3-A	Lab Control Sample	97.3	108	98.6	86.9	97.6	105	99.0	102
LCSD 320-890786/4-A	Lab Control Sample Dup	97.0	97.4	96.4	82.6	107	103	109	110
LLCS 320-890786/2-A - RA	Lab Control Sample						99.6		
LLCS 320-890786/2-A	Lab Control Sample	99.2	98.3	93.0	82.2	106		102	96.5
MB 320-890786/1-A	Method Blank	108	133 *5+	106	102	120	117	109	109

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (10-130)	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)
320-127603-1	SMW-4	107	78.6	118	109	111	98.7	104	99.4
320-127603-2	SMW-5d	104	91.3	118	103	120	97.4	116	108
320-127603-3	SMW-5s	102	89.4	116	104	110	94.0	105	96.4
320-127603-4	SMW-5d-DUP	88.7	83.4	115	110	124	104	112	110
LCS 320-890786/3-A	Lab Control Sample	100	69.5	108	105	111	92.5	107	99.2
LCSD 320-890786/4-A	Lab Control Sample Dup	101	80.7	116	108	112	95.1	112	102
LLCS 320-890786/2-A - RA	Lab Control Sample					98.5			
LLCS 320-890786/2-A	Lab Control Sample	93.9	80.9	114	102	111	98.6	114	102
MB 320-890786/1-A	Method Blank	105	80.9	124	116	129	104	122	106

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (40-200)	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)
320-127603-1	SMW-4	129	112	103	85.7	83.5	84.4	74.9	85.6
320-127603-2	SMW-5d	157	135	116	85.9	90.6	89.1	85.9	87.2
320-127603-3	SMW-5s	127	129	105	96.0	73.1	68.7	72.8	79.1
320-127603-4	SMW-5d-DUP	166	153	102	80.6	83.8	86.5	88.1	86.1
LCS 320-890786/3-A	Lab Control Sample	121	107	99.0	82.9	82.0	72.1	74.2	79.1
LCSD 320-890786/4-A	Lab Control Sample Dup	115	102	90.3	76.1	77.7	71.8	76.1	79.8
LLCS 320-890786/2-A - RA	Lab Control Sample								
LLCS 320-890786/2-A	Lab Control Sample	115	107	93.8	78.3	81.6	80.3	77.2	79.4
MB 320-890786/1-A	Method Blank	134	118	109	95.9	87.7	84.6	80.4	86.3

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA

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Isotope Dilution Summary

Client: Mott MacDonald Consultants, Inc.

Job ID: 320-127603-1

Project/Site: Snipes LF RIFS

d3NMFOS = d3-NMeFOSAA

d5NEFOS = d5-NEtFOSAA

M242FTS = 13C2 4:2 FTS

M262FTS = 13C2 6:2 FTS

M282FTS = 13C2 8:2 FTS

HFPODA = 13C3 HFPO-DA

NMFM = d7-N-MeFOSE-M

NEFM = d9-N-EtFOSE-M

d5NPFSA = d5-NEtPFOSA

d3NMFSA = d3-NMePFOSA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 570-661556/1-A

Matrix: Water

Analysis Batch: 663164

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 661556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	ND		2.5	2.2	ug/L		11/25/25 12:30	12/01/25 14:05	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	78		20 - 161				11/25/25 12:30	12/01/25 14:05	1

Lab Sample ID: LCS 570-661556/2-A

Matrix: Water

Analysis Batch: 663164

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 661556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dinoseb	5.00	5.92	p	ug/L		118	10 - 180
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2,4-Dichlorophenylacetic acid (Surr)	80		20 - 161				

Lab Sample ID: LCSD 570-661556/3-A

Matrix: Water

Analysis Batch: 663164

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 661556

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Dinoseb	5.00	4.18	p *1	ug/L		84	10 - 180	34	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
2,4-Dichlorophenylacetic acid (Surr)	87		20 - 161						

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 320-890786/1-A

Matrix: Water

Analysis Batch: 891114

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 890786

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.0	1.0	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluorotridecanoic acid (PFTTrDA)	ND		2.0	0.58	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.81	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.54	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1

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QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 320-890786/1-A

Matrix: Water

Analysis Batch: 891114

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 890786

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.53	ng/L		12/08/25 05:02	12/09/25 12:26	1
4:2 FTS	ND		4.0	1.0	ng/L		12/08/25 05:02	12/09/25 12:26	1
6:2 FTS	ND		4.0	1.0	ng/L		12/08/25 05:02	12/09/25 12:26	1
8:2 FTS	ND		4.0	1.0	ng/L		12/08/25 05:02	12/09/25 12:26	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
NMeFOSA	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
NEtFOSA	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
NMeFOSAA	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
NEtFOSAA	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
NMeFOSE	ND		10	2.5	ng/L		12/08/25 05:02	12/09/25 12:26	1
NEtFOSE	ND		10	2.5	ng/L		12/08/25 05:02	12/09/25 12:26	1
HFPO-DA (GenX)	ND		1.5	0.39	ng/L		12/08/25 05:02	12/09/25 12:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
PFMPA	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
PFMBA	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
NFDHA	ND		2.0	0.72	ng/L		12/08/25 05:02	12/09/25 12:26	1
9CI-PF3ONS	ND		2.0	0.58	ng/L		12/08/25 05:02	12/09/25 12:26	1
11CI-PF3OUdS	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
PFEESA	ND		2.0	0.50	ng/L		12/08/25 05:02	12/09/25 12:26	1
3:3 FTCA	ND		4.0	1.0	ng/L		12/08/25 05:02	12/09/25 12:26	1
5:3 FTCA	ND		10	2.5	ng/L		12/08/25 05:02	12/09/25 12:26	1
7:3 FTCA	ND		10	2.5	ng/L		12/08/25 05:02	12/09/25 12:26	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	108		5 - 130	12/08/25 05:02	12/09/25 12:26	1
13C5 PFPeA	133	*5+	40 - 130	12/08/25 05:02	12/09/25 12:26	1
13C5 PFHxA	106		40 - 130	12/08/25 05:02	12/09/25 12:26	1
13C4 PFHpA	102		40 - 130	12/08/25 05:02	12/09/25 12:26	1
13C8 PFOA	120		40 - 130	12/08/25 05:02	12/09/25 12:26	1
13C9 PFNA	117		40 - 130	12/08/25 05:02	12/09/25 12:26	1
13C6 PFDA	109		40 - 130	12/08/25 05:02	12/09/25 12:26	1
13C7 PFUnA	109		30 - 130	12/08/25 05:02	12/09/25 12:26	1
13C2 PFDoA	105		10 - 130	12/08/25 05:02	12/09/25 12:26	1
13C2 PFTeDA	80.9		10 - 130	12/08/25 05:02	12/09/25 12:26	1
13C3 PFBS	124		40 - 135	12/08/25 05:02	12/09/25 12:26	1
13C3 PFHxS	116		40 - 130	12/08/25 05:02	12/09/25 12:26	1
13C8 PFOS	129		40 - 130	12/08/25 05:02	12/09/25 12:26	1
13C8 FOSA	104		40 - 130	12/08/25 05:02	12/09/25 12:26	1
d3-NMeFOSAA	122		40 - 170	12/08/25 05:02	12/09/25 12:26	1
d5-NEtFOSAA	106		25 - 135	12/08/25 05:02	12/09/25 12:26	1
13C2 4:2 FTS	134		40 - 200	12/08/25 05:02	12/09/25 12:26	1
13C2 6:2 FTS	118		40 - 200	12/08/25 05:02	12/09/25 12:26	1

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QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 320-890786/1-A

Matrix: Water

Analysis Batch: 891114

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 890786

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 8:2 FTS	109		40 - 300	12/08/25 05:02	12/09/25 12:26	1
13C3 HFPO-DA	95.9		40 - 130	12/08/25 05:02	12/09/25 12:26	1
d7-N-MeFOSE-M	87.7		10 - 130	12/08/25 05:02	12/09/25 12:26	1
d9-N-EtFOSE-M	84.6		10 - 130	12/08/25 05:02	12/09/25 12:26	1
d5-NEtPFOSA	80.4		10 - 130	12/08/25 05:02	12/09/25 12:26	1
d3-NMePFOSA	86.3		10 - 130	12/08/25 05:02	12/09/25 12:26	1

Lab Sample ID: LCS 320-890786/3-A

Matrix: Water

Analysis Batch: 891114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 890786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	80.4		ng/L		100	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	35.2		ng/L		88	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	40.9		ng/L		102	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	38.3		ng/L		96	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	35.4		ng/L		89	70 - 150
Perfluorononanoic acid (PFNA)	40.0	32.7		ng/L		82	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	37.6		ng/L		94	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	34.1		ng/L		85	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	36.5		ng/L		91	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	40.0	38.9		ng/L		97	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	43.2		ng/L		108	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	26.6		ng/L		75	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	34.7		ng/L		92	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	29.9		ng/L		82	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	33.4		ng/L		88	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	30.6		ng/L		82	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	29.9		ng/L		78	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	28.3		ng/L		73	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	29.8		ng/L		77	50 - 145
4:2 FTS	75.0	60.7		ng/L		81	70 - 145
6:2 FTS	76.2	65.5		ng/L		86	65 - 155
8:2 FTS	76.8	64.8		ng/L		84	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	34.3		ng/L		86	70 - 145
NMeFOSA	40.0	35.5		ng/L		89	60 - 150
NEtFOSA	40.0	36.8		ng/L		92	65 - 145
NMeFOSAA	40.0	35.0		ng/L		88	50 - 140
NEtFOSAA	40.0	38.6		ng/L		96	70 - 145

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QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 320-890786/3-A

Matrix: Water

Analysis Batch: 891114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 890786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSE	200	172		ng/L		86	70 - 145
NEtFOSE	200	183		ng/L		91	70 - 135
HFPO-DA (GenX)	30.0	24.9		ng/L		83	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	35.9		ng/L		95	65 - 145
PFMPA	40.0	33.2		ng/L		83	55 - 140
PFMBA	40.0	32.2		ng/L		81	60 - 150
NFDHA	40.0	28.7		ng/L		72	50 - 150
9Cl-PF3ONS	37.4	29.1		ng/L		78	70 - 155
11Cl-PF3OUdS	37.8	29.3		ng/L		78	55 - 160
PFEESA	35.7	30.8		ng/L		86	70 - 140
3:3 FTCA	80.0	61.7		ng/L		77	65 - 130
5:3 FTCA	200	148		ng/L		74	70 - 135
7:3 FTCA	200	142		ng/L		71	50 - 145

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	97.3		5 - 130
13C5 PFPeA	108		40 - 130
13C5 PFHxA	98.6		40 - 130
13C4 PFHpA	86.9		40 - 130
13C8 PFOA	97.6		40 - 130
13C9 PFNA	105		40 - 130
13C6 PFDA	99.0		40 - 130
13C7 PFUnA	102		30 - 130
13C2 PFDoA	100		10 - 130
13C2 PFTeDA	69.5		10 - 130
13C3 PFBS	108		40 - 135
13C3 PFHxS	105		40 - 130
13C8 PFOS	111		40 - 130
13C8 FOSA	92.5		40 - 130
d3-NMeFOSAA	107		40 - 170
d5-NEtFOSAA	99.2		25 - 135
13C2 4:2 FTS	121		40 - 200
13C2 6:2 FTS	107		40 - 200
13C2 8:2 FTS	99.0		40 - 300
13C3 HFPO-DA	82.9		40 - 130
d7-N-MeFOSE-M	82.0		10 - 130
d9-N-EtFOSE-M	72.1		10 - 130
d5-NEtPFOSA	74.2		10 - 130
d3-NMePFOSA	79.1		10 - 130

Lab Sample ID: LCSD 320-890786/4-A

Matrix: Water

Analysis Batch: 891114

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 890786

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	80.0	77.6		ng/L		97	70 - 140	3	30
Perfluoropentanoic acid (PFPeA)	40.0	38.4		ng/L		96	65 - 135	9	30
Perfluorohexanoic acid (PFHxA)	40.0	42.5		ng/L		106	70 - 145	4	30

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QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 320-890786/4-A

Matrix: Water

Analysis Batch: 891114

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 890786

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroheptanoic acid (PFHpA)	40.0	39.3		ng/L		98	70 - 150	3	30
Perfluorooctanoic acid (PFOA)	40.0	36.0		ng/L		90	70 - 150	2	30
Perfluorononanoic acid (PFNA)	40.0	34.6		ng/L		86	70 - 150	6	30
Perfluorodecanoic acid (PFDA)	40.0	39.9		ng/L		100	70 - 140	6	30
Perfluoroundecanoic acid (PFUnA)	40.0	37.0		ng/L		93	70 - 145	8	30
Perfluorododecanoic acid (PFDoA)	40.0	36.8		ng/L		92	70 - 140	1	30
Perfluorotridecanoic acid (PFTrDA)	40.0	38.4		ng/L		96	65 - 140	1	30
Perfluorotetradecanoic acid (PFTeDA)	40.0	40.9		ng/L		102	60 - 140	5	30
Perfluorobutanesulfonic acid (PFBS)	35.5	26.9		ng/L		76	60 - 145	1	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	30.6		ng/L		81	65 - 140	12	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	29.7		ng/L		81	65 - 145	1	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	34.9		ng/L		92	70 - 150	4	30
Perfluorooctanesulfonic acid (PFOS)	37.2	30.9		ng/L		83	55 - 150	1	30
Perfluorononanesulfonic acid (PFNS)	38.5	30.7		ng/L		80	65 - 145	2	30
Perfluorodecanesulfonic acid (PFDS)	38.6	30.3		ng/L		78	60 - 145	7	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	31.1		ng/L		80	50 - 145	4	30
4:2 FTS	75.0	70.0		ng/L		93	70 - 145	14	30
6:2 FTS	76.2	69.6		ng/L		91	65 - 155	6	30
8:2 FTS	76.8	71.8		ng/L		93	60 - 150	10	30
Perfluorooctanesulfonamide (PFOSA)	40.0	35.7		ng/L		89	70 - 145	4	30
NMeFOSA	40.0	35.6		ng/L		89	60 - 150	0	30
NEtFOSA	40.0	37.0		ng/L		93	65 - 145	1	30
NMeFOSAA	40.0	35.4		ng/L		88	50 - 140	1	30
NEtFOSAA	40.0	40.5		ng/L		101	70 - 145	5	30
NMeFOSE	200	187		ng/L		93	70 - 145	8	30
NEtFOSE	200	192		ng/L		96	70 - 135	5	30
HFPO-DA (GenX)	30.0	27.8		ng/L		93	70 - 140	11	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	38.2		ng/L		101	65 - 145	6	30
PFMPA	40.0	34.6		ng/L		86	55 - 140	4	30
PFMBA	40.0	36.1		ng/L		90	60 - 150	11	30
NFDHA	40.0	25.5		ng/L		64	50 - 150	12	30
9Cl-PF3ONS	37.4	29.0		ng/L		78	70 - 155	0	30
11Cl-PF3OUdS	37.8	28.8		ng/L		76	55 - 160	2	30
PFEESA	35.7	32.4		ng/L		91	70 - 140	5	30
3:3 FTCA	80.0	69.7		ng/L		87	65 - 130	12	30
5:3 FTCA	200	163		ng/L		81	70 - 135	9	30
7:3 FTCA	200	141		ng/L		70	50 - 145	1	30

Eurofins Sacramento

QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	97.0		5 - 130
13C5 PFPeA	97.4		40 - 130
13C5 PFHxA	96.4		40 - 130
13C4 PFHpA	82.6		40 - 130
13C8 PFOA	107		40 - 130
13C9 PFNA	103		40 - 130
13C6 PFDA	109		40 - 130
13C7 PFUnA	110		30 - 130
13C2 PFDoA	101		10 - 130
13C2 PFTeDA	80.7		10 - 130
13C3 PFBS	116		40 - 135
13C3 PFHxS	108		40 - 130
13C8 PFOS	112		40 - 130
13C8 FOSA	95.1		40 - 130
d3-NMeFOSAA	112		40 - 170
d5-NEtFOSAA	102		25 - 135
13C2 4:2 FTS	115		40 - 200
13C2 6:2 FTS	102		40 - 200
13C2 8:2 FTS	90.3		40 - 300
13C3 HFPO-DA	76.1		40 - 130
d7-N-MeFOSE-M	77.7		10 - 130
d9-N-EtFOSE-M	71.8		10 - 130
d5-NEtPFOSA	76.1		10 - 130
d3-NMePFOSA	79.8		10 - 130

Lab Sample ID: LLCS 320-890786/2-A
Matrix: Water
Analysis Batch: 891114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 890786

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Perfluorobutanoic acid (PFBA)	8.00	5.87		ng/L		73	70 - 140	
Perfluoropentanoic acid (PFPeA)	4.00	3.16		ng/L		79	65 - 135	
Perfluorohexanoic acid (PFHxA)	4.00	3.72		ng/L		93	70 - 145	
Perfluoroheptanoic acid (PFHpA)	4.00	3.24		ng/L		81	70 - 150	
Perfluorooctanoic acid (PFOA)	4.00	3.31		ng/L		83	70 - 150	
Perfluorodecanoic acid (PFDA)	4.00	3.37		ng/L		84	70 - 140	
Perfluoroundecanoic acid (PFUnA)	4.00	3.09		ng/L		77	70 - 145	
Perfluorododecanoic acid (PFDoA)	4.00	3.17		ng/L		79	70 - 140	
Perfluorotridecanoic acid (PFTTrDA)	4.00	2.98		ng/L		74	65 - 140	
Perfluorotetradecanoic acid (PFTeDA)	4.00	3.28		ng/L		82	60 - 140	
Perfluorobutanesulfonic acid (PFBS)	3.55	2.14		ng/L		60	60 - 145	
Perfluoropentanesulfonic acid (PFPeS)	3.76	2.63		ng/L		70	65 - 140	
Perfluorohexanesulfonic acid (PFHxS)	3.65	2.62		ng/L		72	65 - 145	
Perfluoroheptanesulfonic acid (PFHpS)	3.82	3.00		ng/L		79	70 - 150	
Perfluorooctanesulfonic acid (PFOS)	3.72	2.82		ng/L		76	55 - 150	

Eurofins Sacramento

QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 320-890786/2-A

Matrix: Water

Analysis Batch: 891114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 890786

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorononanesulfonic acid (PFNS)	3.85	2.55		ng/L		66	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	2.74		ng/L		71	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	2.92		ng/L		75	50 - 145
4:2 FTS	7.50	5.92		ng/L		79	70 - 145
6:2 FTS	7.62	6.11		ng/L		80	65 - 155
8:2 FTS	7.68	6.01		ng/L		78	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	2.88		ng/L		72	70 - 145
NMeFOSA	4.00	3.05		ng/L		76	60 - 150
NEtFOSA	4.00	3.05		ng/L		76	65 - 145
NMeFOSAA	4.00	3.50		ng/L		87	50 - 140
NEtFOSAA	4.00	3.68		ng/L		92	70 - 145
NMeFOSE	20.0	15.0		ng/L		75	70 - 145
NEtFOSE	20.0	14.7		ng/L		74	70 - 135
HFPO-DA (GenX)	3.00	2.17		ng/L		72	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.93		ng/L		104	65 - 145
PFMPA	4.00	3.01		ng/L		75	55 - 140
PFMBA	4.00	2.92		ng/L		73	60 - 150
NFDHA	4.00	3.63		ng/L		91	50 - 150
11Cl-PF3OUdS	3.78	2.53		ng/L		67	55 - 160
PFEESA	3.57	2.84		ng/L		79	70 - 140
3:3 FTCA	8.00	5.76		ng/L		72	65 - 130
5:3 FTCA	20.0	14.1		ng/L		70	70 - 135
7:3 FTCA	20.0	12.8		ng/L		64	50 - 145

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	LLCS Limits
13C4 PFBA	99.2		5 - 130
13C5 PFPeA	98.3		40 - 130
13C5 PFHxA	93.0		40 - 130
13C4 PFHpA	82.2		40 - 130
13C8 PFOA	106		40 - 130
13C6 PFDA	102		40 - 130
13C7 PFUnA	96.5		30 - 130
13C2 PFDoA	93.9		10 - 130
13C2 PFTeDA	80.9		10 - 130
13C3 PFBS	114		40 - 135
13C3 PFHxS	102		40 - 130
13C8 PFOS	111		40 - 130
13C8 FOSA	98.6		40 - 130
d3-NMeFOSAA	114		40 - 170
d5-NEtFOSAA	102		25 - 135
13C2 4:2 FTS	115		40 - 200
13C2 6:2 FTS	107		40 - 200
13C2 8:2 FTS	93.8		40 - 300
13C3 HFPO-DA	78.3		40 - 130
d7-N-MeFOSE-M	81.6		10 - 130

Eurofins Sacramento

QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCs 320-890786/2-A

Matrix: Water

Analysis Batch: 891114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 890786

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
d9-N-EtFOSE-M	80.3		10 - 130
d5-NEtPFOSA	77.2		10 - 130
d3-NMePFOSA	79.4		10 - 130

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Lab Sample ID: LLCs 320-890786/2-A

Matrix: Water

Analysis Batch: 890956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 890786

Analyte	Spike Added	LLCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorononanoic acid (PFNA) - RA	4.00	3.19		ng/L		80	70 - 150
9CI-PF3ONS - RA	3.74	3.32		ng/L		89	70 - 155

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C9 PFNA - RA	99.6		40 - 130
13C8 PFOS - RA	98.5		40 - 130

QC Association Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

GC Semi VOA

Prep Batch: 661556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-127603-1	SMW-4	Total/NA	Water	8151A	
MB 570-661556/1-A	Method Blank	Total/NA	Water	8151A	
LCS 570-661556/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 570-661556/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 663164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-127603-1	SMW-4	Total/NA	Water	8151A	661556
MB 570-661556/1-A	Method Blank	Total/NA	Water	8151A	661556
LCS 570-661556/2-A	Lab Control Sample	Total/NA	Water	8151A	661556
LCSD 570-661556/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	661556

LCMS

Prep Batch: 890786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-127603-1	SMW-4	Total/NA	Water	1633	
320-127603-2	SMW-5d	Total/NA	Water	1633	
320-127603-3	SMW-5s	Total/NA	Water	1633	
320-127603-4	SMW-5d-DUP	Total/NA	Water	1633	
MB 320-890786/1-A	Method Blank	Total/NA	Water	1633	
LCS 320-890786/3-A	Lab Control Sample	Total/NA	Water	1633	
LCSD 320-890786/4-A	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 320-890786/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 320-890786/2-A - RA	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 890956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 320-890786/2-A - RA	Lab Control Sample	Total/NA	Water	1633	890786

Analysis Batch: 891114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-127603-1	SMW-4	Total/NA	Water	1633	890786
320-127603-2	SMW-5d	Total/NA	Water	1633	890786
320-127603-3	SMW-5s	Total/NA	Water	1633	890786
320-127603-4	SMW-5d-DUP	Total/NA	Water	1633	890786
MB 320-890786/1-A	Method Blank	Total/NA	Water	1633	890786
LCS 320-890786/3-A	Lab Control Sample	Total/NA	Water	1633	890786
LCSD 320-890786/4-A	Lab Control Sample Dup	Total/NA	Water	1633	890786
LLCS 320-890786/2-A	Lab Control Sample	Total/NA	Water	1633	890786

Lab Chronicle

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Client Sample ID: SMW-4

Date Collected: 11/19/25 13:00

Date Received: 11/24/25 09:20

Lab Sample ID: 320-127603-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			1040.4 mL	5 mL	661556	11/25/25 12:31	WAZ8	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	663164	12/01/25 15:57	ZE2W	EET CAL 4
Total/NA	Prep	1633			147.6 mL	5.0 mL	890786	12/08/25 05:02	BMS	EET SAC
Total/NA	Analysis	1633		1			891114	12/09/25 17:54	K1D	EET SAC

Client Sample ID: SMW-5d

Date Collected: 11/19/25 11:00

Date Received: 11/24/25 09:20

Lab Sample ID: 320-127603-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633			144.2 mL	5.0 mL	890786	12/08/25 05:02	BMS	EET SAC
Total/NA	Analysis	1633		1			891114	12/09/25 18:10	K1D	EET SAC

Client Sample ID: SMW-5s

Date Collected: 11/19/25 15:00

Date Received: 11/24/25 09:20

Lab Sample ID: 320-127603-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633			141.8 mL	5.0 mL	890786	12/08/25 05:02	BMS	EET SAC
Total/NA	Analysis	1633		1			891114	12/09/25 18:26	K1D	EET SAC

Client Sample ID: SMW-5d-DUP

Date Collected: 11/19/25 11:00

Date Received: 11/24/25 09:20

Lab Sample ID: 320-127603-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633			146.3 mL	5.0 mL	890786	12/08/25 05:02	BMS	EET SAC
Total/NA	Analysis	1633		1			891114	12/09/25 18:43	K1D	EET SAC

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C581	05-05-26

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
1633	1633	Water	11CI-PF3OUdS
1633	1633	Water	3:3 FTCA
1633	1633	Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
1633	1633	Water	4:2 FTS
1633	1633	Water	5:3 FTCA
1633	1633	Water	6:2 FTS
1633	1633	Water	7:3 FTCA
1633	1633	Water	8:2 FTS
1633	1633	Water	9CI-PF3ONS
1633	1633	Water	HFPO-DA (GenX)
1633	1633	Water	NEtFOSA
1633	1633	Water	NEtFOSAA
1633	1633	Water	NEtFOSE
1633	1633	Water	NFDHA
1633	1633	Water	NMeFOSA
1633	1633	Water	NMeFOSAA
1633	1633	Water	NMeFOSE
1633	1633	Water	Perfluorobutanesulfonic acid (PFBS)
1633	1633	Water	Perfluorobutanoic acid (PFBA)
1633	1633	Water	Perfluorodecanesulfonic acid (PFDS)
1633	1633	Water	Perfluorodecanoic acid (PFDA)
1633	1633	Water	Perfluorododecanesulfonic acid (PFDoS)
1633	1633	Water	Perfluorododecanoic acid (PFDoA)
1633	1633	Water	Perfluoroheptanesulfonic acid (PFHpS)
1633	1633	Water	Perfluoroheptanoic acid (PFHpA)
1633	1633	Water	Perfluorohexanesulfonic acid (PFHxS)
1633	1633	Water	Perfluorohexanoic acid (PFHxA)
1633	1633	Water	Perfluorononanesulfonic acid (PFNS)
1633	1633	Water	Perfluorononanoic acid (PFNA)
1633	1633	Water	Perfluorooctanesulfonamide (PFOSA)
1633	1633	Water	Perfluorooctanesulfonic acid (PFOS)
1633	1633	Water	Perfluorooctanoic acid (PFOA)
1633	1633	Water	Perfluoropentanesulfonic acid (PFPeS)
1633	1633	Water	Perfluoropentanoic acid (PFPeA)
1633	1633	Water	Perfluorotetradecanoic acid (PFTeDA)
1633	1633	Water	Perfluorotridecanoic acid (PFTTrDA)
1633	1633	Water	Perfluoroundecanoic acid (PFUnA)
1633	1633	Water	PFEESA
1633	1633	Water	PFMBA
1633	1633	Water	PFMPA

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
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Eurofins Sacramento

Accreditation/Certification Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C916	10-11-26

1
2
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16

Method Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Method	Method Description	Protocol	Laboratory
8151A	Herbicides (GC)	SW846	EET CAL 4
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET SAC
1633	Solid-Phase Extraction (SPE)	EPA	EET SAC
8151A	Extraction (Herbicides)	SW846	EET CAL 4

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 CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Snipes LF RIFS

Job ID: 320-127603-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
320-127603-1	SMW-4	Water	11/19/25 13:00	11/24/25 09:20	Washington
320-127603-2	SMW-5d	Water	11/19/25 11:00	11/24/25 09:20	Washington
320-127603-3	SMW-5s	Water	11/19/25 15:00	11/24/25 09:20	Washington
320-127603-4	SMW-5d-DUP	Water	11/19/25 11:00	11/24/25 09:20	Washington

[illegible]

Envy

127603



320-127603 Chain of Custody

12/11/2025

Login Sample Receipt Checklist

Client: Mott MacDonald Consultants, Inc.

Job Number: 320-127603-1

Login Number: 127603

List Number: 2

Creator: Ferreira, Bruno

List Source: Eurofins Calscience

List Creation: 11/25/25 12:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are 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	2.2
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?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

November 14, 2025

Barb Evans
Sage Orchards
Outlook, WA

Re: Results of September 16, 2025, O.L. Luther well and Department of Natural Resources (DNR) Residence spigot drinking water sampling

Dear Barb Evans,

This letter describes results from the O.L. Luther well located northwest of the closed Snipes Mountain Landfill in Granger, Washington, and the DNR Residence drinking water spigot (reported to be served by the O.L. Luther well) located on Luther Road in Outlook, Washington. There were no exceedances of drinking water standards.

Sampling and Results

The O.L. Luther well sample was collected on September 16, 2025 from a hose bib in piping located near the wellhead. Two samples were collected from the DNR Residence drinking water spigot sample (served by the O.L. Luther well) on September 16, 2025 from a blue spigot nearest to the residence with and without the point-of-use filtration attachment. Both locations were purged for 10 gallons and field parameters (pH, specific conductance, temperature, oxidation reduction potential, and dissolved oxygen) were recorded prior to sampling. Sample bottles were placed into a cooler with ice and delivered to Analytical Resources Inc. in Tukwila, Washington for analysis. The samples were analyzed for volatile organic constituents (VOCs), dissolved metals, chloride, and sulfate.

O.L. Luther Well

The O.L. Luther well was non-detect for all VOCs, except for dichlorodifluoromethane (CFC-12) (0.25Q ug/L [micrograms per liter]), tetrachloroethene (PCE) (4.84 ug/L), and trichloroethene (TCE) (0.27 ug/L). The “Q” after the numerical result for CFC-12 indicates that the initial or continuing calibrations were below established method requirements. Results for the September 2025 sampling and an excerpt of the laboratory analytical report are provided in the attached summary.

The O.L. Luther well has been sampled 13 times since 2014 based on its proximity to the Snipes Mountain Landfill (see Background Section below). PCE has been detected during all events, and above the MCL (5 ug/L) in December 2018 (7.27 ug/L), November 2024 (5.02 ug/L), and February 2025 (5.94 ug/L). CFC-12 was previously detected above the lab reporting limit in November 2024 (0.30 ug/L) and does not have an applicable MCL. TCE has been regularly historically detected

below the MCL (4 ug/L) at the O.L. Luther well. No other VOCs have been regularly detected historically at the O.L. Luther well¹.

DNR Residence Drinking Water (O.L. Luther Well)

The DNR Residence drinking water spigot sample collected without the point-of-use filter was non-detect for all VOCs, except for CFC-12 (0.25Q ug/L), PCE (4.84 ug/L), and TCE (0.26 ug/L). The “Q” after the numerical result for CFC-12 indicates that the initial or continuing calibrations were below established method requirements. The DNR Residence drinking water spigot sample collected with the point-of-use filter was non-detect for all VOCs, except for CFC-12 (0.21Q ug/L), PCE (2.31 ug/L), and TCE (0.13J ug/L). The “J” after the numerical result indicates an estimated concentration value detected below the reporting limit. Results for the September 2025 sampling are provided in the attached summary and excerpt of the laboratory analytical report.

The DNR Residence drinking water spigot was first sampled in June 2012 and was non-detect for VOCs, and has been sampled six additional times since June 2024 due to the ongoing Remedial Investigation at Snipes Landfill (see Background Section below). PCE has been detected during all events since June 2024 and was detected above the MCL (5 ug/L) in February 2025 (5.77 ug/L) and June 2025 (6.01 ug/L). TCE has been regularly historically detected below the MCL (4 ug/L) at the DNR Residence drinking water spigot. No other VOCs have been regularly detected historically at the DNR Residence drinking water spigot².

Background

Yakima County Public Services monitors groundwater with a dedicated network of monitoring wells at the closed Snipes Mountain Landfill. VOCs are routinely detected in groundwater at the north side of the facility near the entrance gate. Some of the concentrations in these wells exceed state cleanup levels for groundwater, with the most frequent exceedances for the chemical PCE. Yakima County Public Services is coordinating with the Yakima Health District and Washington Department of Ecology regarding the contamination. A Remedial Investigation (RI) Work Plan has been approved by Washington Department of Ecology and will include additional sampling during 2025 and into 2026 to determine the nature and extent of contamination. Following the RI, a feasibility study (FS) will be performed to determine the most effective remedial alternative for the site. Yakima County also collects periodic groundwater samples at offsite wells in the surrounding area to augment the dedicated monitoring network at the closed Snipes Mountain Landfill.

¹ Three VOCs, 2-Butanone (15B ug/L), Acetone (13.9B ug/L), and Toluene (0.86B ug/L), were detected at low concentrations in April 2019. The “B” after the numerical result indicates those results were impacted by laboratory contamination in a “Blank” or clean sample and are not confirmed detections. Dichlorodifluoromethane (CFC-12) (0.30 ug/L) was detected in November 2024. Cis-1,2-dichloroethene (cis-1,2-DCE) was estimated above the laboratory detection limit and below the reporting limit (0.14J ug/L) in February 2025. Acetone (6.48 ug/L) was detected in June 2025.

² Cis-1,2-dichloroethene (cis-1,2-DCE) was estimated above the laboratory detection limit and below the reporting limit in February 2025 (0.11J ug/L) and June 2025 (0.11J ug/L). Dichlorodifluoromethane (CFC-12) was detected in June 2025 (0.39 ug/L).

Response Actions and Future Sampling

Based on the results, Yakima County will continue to supply bottled water for drinking at the DNR Residence. We would appreciate the opportunity to collect drinking water samples at the Luther Road property again in November 2025. We will coordinate sampling approximately one week in advance.

We trust that this letter provides the information you need regarding the September 2025 sampling. Please feel free to contact us if you have any questions, concerns, or comments.

Sincerely,

Mott MacDonald

Travis Klaas, LHG

Principal Hydrogeologist

travis.klaas@mottmac.com

(206) 329-7587

Attachments:

Table 1. Summary of September 2025 Analytical Results, Volatile Organic Compounds
Excerpt of ARI Laboratory Data Report 25I0372 October 31, 2025

Table 1. Summary of September 2025 Analytical Results, Volatile Organic Compounds

Closed Snipes Mountain Landfill, Yakima County, Washington

Constituent	Units	MCL	DNR Residence (source from O.L. Luther well)	DNR Residence, Post-Filtration (source from O.L. Luther well)	O.L. Luther Well
			9/16/2025	9/16/2025	9/16/2025
1,1,1,2-Tetrachloroethane	ug/L		0.2U	0.2U	0.2U
1,1,1-Trichloroethane (TCA)	ug/L	200	0.2U	0.2U	0.2U
1,1,2,2-Tetrachloroethane	ug/L		0.2U	0.2U	0.2U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l		0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	5	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	1	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	7	0.2U	0.2U	0.2U
1,1-Dichloropropene	ug/L		0.2U	0.2U	0.2U
1,2,3-Trichlorobenzene	ug/L		0.5U	0.5U	0.5U
1,2,3-Trichloropropane	ug/L		0.5U	0.5U	0.5U
1,2,4-Trichlorobenzene	ug/L	70	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L		0.2U	0.2U	0.2U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L		0.5U	0.5U	0.5U
1,2-Dibromoethane (EDB)	ug/L		0.2U	0.2U	0.2U
1,2-Dichlorobenzene	ug/L		0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	5	0.2U	0.2U	0.2U
1,2-Dichloropropane	ug/L	5	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L		0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L		0.2U	0.2U	0.2U
1,3-Dichloropropane	ug/L		0.2U	0.2U	0.2U
1,4-Dichlorobenzene	ug/L	75	0.2U	0.2U	0.2U
2,2-Dichloropropane	ug/L		0.2U	0.2U	0.2U
2-Butanone (MEK)	ug/L		5U	5U	5U
2-Chloroethyl Vinyl Ether	ug/L		1U	1U	1U
2-Chlorotoluene	ug/L		0.2U	0.2U	0.2U
2-Hexanone	ug/L		5U	5U	5U
2-Pentanone	ug/L		5U	5U	5U
4-Chlorotoluene	ug/L		0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L		0.2U	0.2U	0.2U
4-Methyl-2-Pentanone (MIBK)	ug/L		5U	5U	5U
Acetone	ug/L		5U	5U	5U
Acrolein	ug/L		5U	5U	5U
Acrylonitrile	ug/L		1U	1U	1U
Benzene	ug/L	5	0.2U	0.2U	0.2U
Bromobenzene	ug/L		0.2U	0.2U	0.2U
Bromochloromethane	ug/L		0.2U	0.2U	0.2U
Bromodichloromethane	ug/L	80	0.2U	0.2U	0.2U
Bromoform	ug/L	80	0.2U	0.2U	0.2U
Bromomethane	ug/L		1U	1U	1U
Carbon Disulfide	ug/L		0.2U	0.2U	0.2U
Carbon Tetrachloride	ug/L	5	0.2U	0.2U	0.2U
Chlorobenzene	ug/L	100	0.2U	0.2U	0.2U
Chloroethane	ug/L		0.2U	0.2U	0.2U
Chloroform	ug/L	80	0.2U	0.2U	0.2U
Chloromethane	ug/L		0.5U	0.5U	0.5U
cis-1,2-Dichloroethene (cis-1,2-DCE)	ug/L	70	0.2U	0.2U	0.2U
cis-1,3-Dichloropropene	ug/L		0.2U	0.2U	0.2U
Dibromochloromethane	ug/L		0.2U	0.2U	0.2U
Dibromomethane	ug/L		0.2U	0.2U	0.2U
Dichlorodifluoromethane (CFC 12)	ug/L		0.25Q	0.21Q	0.25Q
Dichloromethane (Methylene Chloride)	ug/L	5	1U	1U	1U
Ethylbenzene	ug/L	700	0.2U	0.2U	0.2U
Hexachlorobutadiene	ug/L		0.5U	0.5U	0.5U
Iodomethane	ug/L		1U	1U	1U
Isopropylbenzene (Cumene)	ug/L		0.2U	0.2U	0.2U

Table 1. Summary of September 2025 Analytical Results, Volatile Organic Compounds

Closed Snipes Mountain Landfill, Yakima County, Washington

Constituent	Units	MCL	DNR Residence (source from O.L. Luther well)	DNR Residence, Post-Filtration (source from O.L. Luther well)	O.L. Luther Well
			9/16/2025	9/16/2025	9/16/2025
m,p-Xylene	ug/L		0.4U	0.4U	0.4U
Methyl tert-Butyl Ether	ug/L		0.5U	0.5U	0.5U
Naphthalene	ug/L		0.5U	0.5U	0.5U
n-Butylbenzene	ug/L		0.2U	0.2U	0.2U
n-Propylbenzene	ug/L		0.2U	0.2U	0.2U
o-Xylene	ug/L		0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L		0.2U	0.2U	0.2U
Styrene	ug/L	100	0.2U	0.2U	0.2U
tert-Butylbenzene	ug/L		0.2U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	5	4.84	2.31	4.84
Toluene	ug/L	1000	0.2U	0.2U	0.2U
Total Xylenes	ug/L	10000	0.6U	0.6U	0.6U
trans-1,2-Dichloroethene	ug/L	100	0.2U	0.2U	0.2U
trans-1,3-Dichloropropene	ug/L		0.2U	0.2U	0.2U
trans-1,4-Dichloro-2-butene	ug/L		1U	1U	1U
Trichloroethene (TCE)	ug/L	5	0.26	0.13J	0.27
Trichlorofluoromethane (CFC 11)	ug/L		0.2U	0.2U	0.2U
Vinyl Acetate	ug/L		0.2U	0.2U	0.2U
Vinyl Chloride	ug/L	2	0.02U	0.02U	0.02U

Notes:

MCL: Groundwater Maximum Contaminant Level as referenced in WAC 346-290 and 40 CFR 141 Drinking Water Standards

Bold values indicate detection above the reporting limit

U indicates that the constituent was not detected at the indicated reporting limit

J indicates that the constituent is estimated detected below the reporting limit value

Q indicates that the initial or continuing calibrations were below established method requirements



Mott MacDonald
1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT20 Analyst: LTN

Sampled: 09/16/2025 14:00

Analyzed: 09/22/2025 14:44

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNI0453 Sample Size: 10 mL
Prepared: 09/22/2025 Final Volume: 10 mL

Extract ID: 25I0372-04 D

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloromethane	74-87-3	1	0.50	0.50	ND	ug/L	U
Vinyl Chloride	75-01-4	1	0.10	0.20	ND	ug/L	U
Bromomethane	74-83-9	1	1.00	1.00	ND	ug/L	U
Chloroethane	75-00-3	1	0.20	0.20	ND	ug/L	U
Trichlorofluoromethane	75-69-4	1	0.20	0.20	ND	ug/L	U
Acrolein	107-02-8	1	5.00	5.00	ND	ug/L	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	1	0.20	0.20	ND	ug/L	U
Acetone	67-64-1	1	5.00	5.00	ND	ug/L	U
1,1-Dichloroethene	75-35-4	1	0.10	0.20	ND	ug/L	U
Iodomethane	74-88-4	1	0.50	1.00	ND	ug/L	U
Methylene Chloride	75-09-2	1	1.00	1.00	ND	ug/L	U
Acrylonitrile	107-13-1	1	0.50	1.00	ND	ug/L	U
Carbon Disulfide	75-15-0	1	0.20	0.20	ND	ug/L	U
trans-1,2-Dichloroethene	156-60-5	1	0.10	0.20	ND	ug/L	U
Vinyl Acetate	108-05-4	1	0.20	0.20	ND	ug/L	U
1,1-Dichloroethane	75-34-3	1	0.10	0.20	ND	ug/L	U
2-Butanone	78-93-3	1	2.50	5.00	ND	ug/L	U
2,2-Dichloropropane	594-20-7	1	0.20	0.20	ND	ug/L	U
cis-1,2-Dichloroethene	156-59-2	1	0.10	0.20	ND	ug/L	U
Chloroform	67-66-3	1	0.10	0.20	ND	ug/L	U
Bromochloromethane	74-97-5	1	0.10	0.20	ND	ug/L	U
1,1,1-Trichloroethane	71-55-6	1	0.10	0.20	ND	ug/L	U
1,1-Dichloropropene	563-58-6	1	0.10	0.20	ND	ug/L	U
Carbon tetrachloride	56-23-5	1	0.10	0.20	ND	ug/L	U
1,2-Dichloroethane	107-06-2	1	0.10	0.20	ND	ug/L	U
Benzene	71-43-2	1	0.10	0.20	ND	ug/L	U
Trichloroethene	79-01-6	1	0.10	0.20	0.27	ug/L	
1,2-Dichloropropane	78-87-5	1	0.10	0.20	ND	ug/L	U
Bromodichloromethane	75-27-4	1	0.10	0.20	ND	ug/L	U
Dibromomethane	74-95-3	1	0.10	0.20	ND	ug/L	U
2-Chloroethyl vinyl ether	110-75-8	1	1.00	1.00	ND	ug/L	U
4-Methyl-2-Pentanone	108-10-1	1	2.50	5.00	ND	ug/L	U
cis-1,3-Dichloropropene	10061-01-5	1	0.10	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.10	0.20	ND	ug/L	U
trans-1,3-Dichloropropene	10061-02-6	1	0.10	0.20	ND	ug/L	U
2-Hexanone	591-78-6	1	2.50	5.00	ND	ug/L	U
1,1,2-Trichloroethane	79-00-5	1	0.20	0.20	ND	ug/L	U
1,3-Dichloropropane	142-28-9	1	0.10	0.20	ND	ug/L	U
Tetrachloroethene	127-18-4	1	0.10	0.20	4.84	ug/L	



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1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 09/16/2025 14:00

Instrument: NT20 Analyst: LTN

Analyzed: 09/22/2025 14:44

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dibromochloromethane	124-48-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromoethane	106-93-4	1	0.10	0.20	ND	ug/L	U
Chlorobenzene	108-90-7	1	0.10	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.10	0.20	ND	ug/L	U
1,1,1,2-Tetrachloroethane	630-20-6	1	0.10	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.20	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.10	0.20	ND	ug/L	U
Xylenes, total	1330-20-7	1	0.30	0.60	ND	ug/L	U
Styrene	100-42-5	1	0.10	0.20	ND	ug/L	U
Bromoform	75-25-2	1	0.20	0.20	ND	ug/L	U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.20	0.20	ND	ug/L	U
1,2,3-Trichloropropane	96-18-4	1	0.25	0.50	ND	ug/L	U
trans-1,4-Dichloro 2-Butene	110-57-6	1	1.00	1.00	ND	ug/L	U
n-Propylbenzene	103-65-1	1	0.10	0.20	ND	ug/L	U
Bromobenzene	108-86-1	1	0.10	0.20	ND	ug/L	U
Isopropyl Benzene	98-82-8	1	0.10	0.20	ND	ug/L	U
2-Chlorotoluene	95-49-8	1	0.10	0.20	ND	ug/L	U
4-Chlorotoluene	106-43-4	1	0.10	0.20	ND	ug/L	U
t-Butylbenzene	98-06-6	1	0.10	0.20	ND	ug/L	U
1,3,5-Trimethylbenzene	108-67-8	1	0.10	0.20	ND	ug/L	U
1,2,4-Trimethylbenzene	95-63-6	1	0.10	0.20	ND	ug/L	U
s-Butylbenzene	135-98-8	1	0.10	0.20	ND	ug/L	U
4-Isopropyl Toluene	99-87-6	1	0.10	0.20	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	1	0.10	0.20	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	1	0.20	0.20	ND	ug/L	U
n-Butylbenzene	104-51-8	1	0.20	0.20	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromo-3-chloropropane	96-12-8	1	0.50	0.50	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	1	0.25	0.50	ND	ug/L	U
Hexachloro-1,3-Butadiene	87-68-3	1	0.50	0.50	ND	ug/L	U
Naphthalene	91-20-3	1	0.50	0.50	ND	ug/L	U
1,2,3-Trichlorobenzene	87-61-6	1	0.50	0.50	ND	ug/L	U
Dichlorodifluoromethane	75-71-8	1	0.20	0.20	0.25	ug/L	Q
Methyl tert-butyl Ether	1634-04-4	1	0.25	0.50	ND	ug/L	U
2-Pentanone	107-87-9	1	2.50	5.00	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	94.9	%	
Surrogate: Toluene-d8				80-120 %	98.3	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	95.5	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	99.9	%	



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Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260D-SIM

Sampled: 09/16/2025 14:00

Instrument: NT16 Analyst: LTN

Analyzed: 09/24/2025 11:31

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25I0372-04 A

Preparation Batch: BNI0497

Sample Size: 10 mL

Prepared: 09/24/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl chloride	75-01-4	1	10.0	20.0	ND	ng/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	95.8	%	
Surrogate: Toluene-d8				80-120 %	99.7	%	
Surrogate: 4-Bromofluorobenzene				75-125 %	92.4	%	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 09/16/2025 14:00

Analyzed: 09/30/2025 16:37

Sample Preparation: Preparation Method: WMN (No Prep)
Preparation Batch: BNI0555
Prepared: 09/25/2025

Sample Size: 25 mL
Final Volume: 25 mL

Extract ID: 25I0372-04 I 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Cobalt, Dissolved	7440-48-4	1	0.0025	0.0050	ND	mg/L	U
Iron, Dissolved	7439-89-6	1	0.0540	0.100	ND	mg/L	U
Magnesium, Dissolved	7439-95-4	1	0.0250	0.0500	27.0	mg/L	
Manganese, Dissolved	7439-96-5	1	0.0020	0.0040	ND	mg/L	U
Potassium, Dissolved	7440-09-7	1	0.250	0.500	7.03	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	27.7	mg/L	
Vanadium, Dissolved	7440-62-2	1	0.0015	0.0030	0.0140	mg/L	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B
Instrument: ICPMS1 Analyst: HAL
Sample Preparation: Preparation Method: REN - EPA 3010A M
Preparation Batch: BNI0535
Prepared: 09/25/2025
Sample Size: 25 mL
Final Volume: 25 mL
Extract ID: 25I0372-04 I 02
Sampled: 09/16/2025 14:00
Analyzed: 09/25/2025 18:48

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony, Dissolved	7440-36-0	1	0.150	0.200	ND	ug/L	U
Arsenic UCT, Dissolved	7440-38-2	1	0.100	0.200	3.22	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	31.9	ug/L	
Cadmium UCT, Dissolved	7440-43-9	1	0.0500	0.100	ND	ug/L	U
Copper UCT, Dissolved	7440-50-8	1	0.200	0.500	1.06	ug/L	
Lead, Dissolved	7439-92-1	1	0.100	0.200	ND	ug/L	U
Nickel UCT, Dissolved	7440-02-0	1	0.250	0.500	ND	ug/L	U
Selenium UCT, Dissolved	7782-49-2	1	0.500	1.00	2.07	ug/L	
Silver, Dissolved	7440-22-4	1	0.100	0.200	ND	ug/L	U
Thallium, Dissolved	7440-28-0	1	0.100	0.200	ND	ug/L	U
Zinc UCT, Dissolved	7440-66-6	1	3.00	6.00	8.42	ug/L	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A	Sampled: 09/16/2025 14:00
Instrument: HYDRA Analyst: ML	Analyzed: 10/01/2025 14:51
Sample Preparation:	Preparation Method: TWM EPA 7470A
	Preparation Batch: BNI0533
	Prepared: 09/25/2025
	Sample Size: 20 mL
	Final Volume: 20 mL
	Extract ID: 25I0372-04 I

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Mercury, Dissolved	7439-97-6	1	0.000013	0.000100	0.000019	mg/L	J



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Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 09/16/2025 14:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 10/06/2025 15:53

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-04 F

Preparation Batch: BNJ0027

Sample Size: 10 mL

Prepared: 10/01/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	1	2.00	2.00	12.3	mg/L	



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Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Wet Chemistry

Method: SM 2320 B-11

Sampled: 09/16/2025 14:00

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 09/19/2025 12:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-04 G

Preparation Batch: BNI0401

Sample Size: 100 mL

Prepared: 09/18/2025

Final Volume: 100 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Bicarbonate		1	1.00	1.00	214	mg/L CaCO ₃	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Carbonate		1	1.00	1.00	ND	mg/L CaCO ₃	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Total		1	1.00	1.00	214	mg/L CaCO ₃	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Wet Chemistry

Method: SM 2540 D-11
Instrument: BAL2 Analyst: RAL

Sampled: 09/16/2025 14:00

Analyzed: 09/23/2025 10:09

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BNI0475 Sample Size: 1000 mL
Prepared: 09/23/2025 Final Volume: 1000 mL

Extract ID: 25I0372-04

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Suspended Solids		1	1	1	ND	mg/L	U



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D	Sampled: 09/16/2025 14:00	
Instrument: ICP3 Analyst: SH	Analyzed: 10/03/2025 21:07	
Sample Preparation:	Preparation Method: WMN (No Prep)	Extract ID: 25I0372-04RE1 I 02
	Preparation Batch: BNI0555	Sample Size: 25 mL
	Prepared: 09/25/2025	Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	80.0	mg/L	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 09/16/2025 14:00
Instrument: ICPMS1 Analyst: HAL	Analyzed: 09/26/2025 17:40
Sample Preparation:	Preparation Method: REN - EPA 3010A M
	Preparation Batch: BNI0535
	Prepared: 09/25/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25I0372-04RE1 I 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chromium, Dissolved	7440-47-3	5	1.88	2.50	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04RE1 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 09/16/2025 14:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 09/18/2025 18:04

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-04RE1 F

Preparation Batch: BNI0399

Sample Size: 10 mL

Prepared: 09/18/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
# Chloride	16887-00-6	5	5.00	5.00	36.0	mg/L	D



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Project: Snipes MTN Landfill 2025
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Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT20 Analyst: LTN

Sampled: 09/16/2025 13:45

Analyzed: 09/22/2025 15:08

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) Sample Size: 10 mL
Preparation Batch: BNI0453 Final Volume: 10 mL
Prepared: 09/22/2025 Extract ID: 25I0372-05 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloromethane	74-87-3	1	0.50	0.50	ND	ug/L	U
Vinyl Chloride	75-01-4	1	0.10	0.20	ND	ug/L	U
Bromomethane	74-83-9	1	1.00	1.00	ND	ug/L	U
Chloroethane	75-00-3	1	0.20	0.20	ND	ug/L	U
Trichlorofluoromethane	75-69-4	1	0.20	0.20	ND	ug/L	U
Acrolein	107-02-8	1	5.00	5.00	ND	ug/L	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	1	0.20	0.20	ND	ug/L	U
Acetone	67-64-1	1	5.00	5.00	ND	ug/L	U
1,1-Dichloroethene	75-35-4	1	0.10	0.20	ND	ug/L	U
Iodomethane	74-88-4	1	0.50	1.00	ND	ug/L	U
Methylene Chloride	75-09-2	1	1.00	1.00	ND	ug/L	U
Acrylonitrile	107-13-1	1	0.50	1.00	ND	ug/L	U
Carbon Disulfide	75-15-0	1	0.20	0.20	ND	ug/L	U
trans-1,2-Dichloroethene	156-60-5	1	0.10	0.20	ND	ug/L	U
Vinyl Acetate	108-05-4	1	0.20	0.20	ND	ug/L	U
1,1-Dichloroethane	75-34-3	1	0.10	0.20	ND	ug/L	U
2-Butanone	78-93-3	1	2.50	5.00	ND	ug/L	U
2,2-Dichloropropane	594-20-7	1	0.20	0.20	ND	ug/L	U
cis-1,2-Dichloroethene	156-59-2	1	0.10	0.20	ND	ug/L	U
Chloroform	67-66-3	1	0.10	0.20	ND	ug/L	U
Bromochloromethane	74-97-5	1	0.10	0.20	ND	ug/L	U
1,1,1-Trichloroethane	71-55-6	1	0.10	0.20	ND	ug/L	U
1,1-Dichloropropene	563-58-6	1	0.10	0.20	ND	ug/L	U
Carbon tetrachloride	56-23-5	1	0.10	0.20	ND	ug/L	U
1,2-Dichloroethane	107-06-2	1	0.10	0.20	ND	ug/L	U
Benzene	71-43-2	1	0.10	0.20	ND	ug/L	U
Trichloroethene	79-01-6	1	0.10	0.20	0.26	ug/L	
1,2-Dichloropropane	78-87-5	1	0.10	0.20	ND	ug/L	U
Bromodichloromethane	75-27-4	1	0.10	0.20	ND	ug/L	U
Dibromomethane	74-95-3	1	0.10	0.20	ND	ug/L	U
2-Chloroethyl vinyl ether	110-75-8	1	1.00	1.00	ND	ug/L	U
4-Methyl-2-Pentanone	108-10-1	1	2.50	5.00	ND	ug/L	U
cis-1,3-Dichloropropene	10061-01-5	1	0.10	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.10	0.20	ND	ug/L	U
trans-1,3-Dichloropropene	10061-02-6	1	0.10	0.20	ND	ug/L	U
2-Hexanone	591-78-6	1	2.50	5.00	ND	ug/L	U
1,1,2-Trichloroethane	79-00-5	1	0.20	0.20	ND	ug/L	U
1,3-Dichloropropane	142-28-9	1	0.10	0.20	ND	ug/L	U
Tetrachloroethene	127-18-4	1	0.10	0.20	4.84	ug/L	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 09/16/2025 13:45

Instrument: NT20 Analyst: LTN

Analyzed: 09/22/2025 15:08

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dibromochloromethane	124-48-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromoethane	106-93-4	1	0.10	0.20	ND	ug/L	U
Chlorobenzene	108-90-7	1	0.10	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.10	0.20	ND	ug/L	U
1,1,1,2-Tetrachloroethane	630-20-6	1	0.10	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.20	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.10	0.20	ND	ug/L	U
Xylenes, total	1330-20-7	1	0.30	0.60	ND	ug/L	U
Styrene	100-42-5	1	0.10	0.20	ND	ug/L	U
Bromoform	75-25-2	1	0.20	0.20	ND	ug/L	U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.20	0.20	ND	ug/L	U
1,2,3-Trichloropropane	96-18-4	1	0.25	0.50	ND	ug/L	U
trans-1,4-Dichloro 2-Butene	110-57-6	1	1.00	1.00	ND	ug/L	U
n-Propylbenzene	103-65-1	1	0.10	0.20	ND	ug/L	U
Bromobenzene	108-86-1	1	0.10	0.20	ND	ug/L	U
Isopropyl Benzene	98-82-8	1	0.10	0.20	ND	ug/L	U
2-Chlorotoluene	95-49-8	1	0.10	0.20	ND	ug/L	U
4-Chlorotoluene	106-43-4	1	0.10	0.20	ND	ug/L	U
t-Butylbenzene	98-06-6	1	0.10	0.20	ND	ug/L	U
1,3,5-Trimethylbenzene	108-67-8	1	0.10	0.20	ND	ug/L	U
1,2,4-Trimethylbenzene	95-63-6	1	0.10	0.20	ND	ug/L	U
s-Butylbenzene	135-98-8	1	0.10	0.20	ND	ug/L	U
4-Isopropyl Toluene	99-87-6	1	0.10	0.20	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	1	0.10	0.20	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	1	0.20	0.20	ND	ug/L	U
n-Butylbenzene	104-51-8	1	0.20	0.20	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromo-3-chloropropane	96-12-8	1	0.50	0.50	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	1	0.25	0.50	ND	ug/L	U
Hexachloro-1,3-Butadiene	87-68-3	1	0.50	0.50	ND	ug/L	U
Naphthalene	91-20-3	1	0.50	0.50	ND	ug/L	U
1,2,3-Trichlorobenzene	87-61-6	1	0.50	0.50	ND	ug/L	U
Dichlorodifluoromethane	75-71-8	1	0.20	0.20	0.25	ug/L	Q
Methyl tert-butyl Ether	1634-04-4	1	0.25	0.50	ND	ug/L	U
2-Pentanone	107-87-9	1	2.50	5.00	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	95.1	%	
Surrogate: Toluene-d8				80-120 %	100	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	99.2	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	96.8	%	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260D-SIM

Sampled: 09/16/2025 13:45

Instrument: NT16 Analyst: LTN

Analyzed: 09/24/2025 11:52

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25I0372-05 B

Preparation Batch: BNI0497

Sample Size: 10 mL

Prepared: 09/24/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl chloride	75-01-4	1	10.0	20.0	ND	ng/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	94.4	%	
Surrogate: Toluene-d8				80-120 %	100	%	
Surrogate: 4-Bromofluorobenzene				75-125 %	93.3	%	



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Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 09/16/2025 13:45

Analyzed: 09/30/2025 16:40

Sample Preparation: Preparation Method: WMN (No Prep)
Preparation Batch: BNI0555
Prepared: 09/25/2025

Sample Size: 25 mL
Final Volume: 25 mL

Extract ID: 25I0372-05 I 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Cobalt, Dissolved	7440-48-4	1	0.0025	0.0050	ND	mg/L	U
Iron, Dissolved	7439-89-6	1	0.0540	0.100	ND	mg/L	U
Magnesium, Dissolved	7439-95-4	1	0.0250	0.0500	26.4	mg/L	
Manganese, Dissolved	7439-96-5	1	0.0020	0.0040	ND	mg/L	U
Potassium, Dissolved	7440-09-7	1	0.250	0.500	6.84	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	26.9	mg/L	
Vanadium, Dissolved	7440-62-2	1	0.0015	0.0030	0.0118	mg/L	



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Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B
Instrument: ICPMS1 Analyst: HAL
Sample Preparation: Preparation Method: REN - EPA 3010A M
Preparation Batch: BNI0535
Prepared: 09/25/2025
Sample Size: 25 mL
Final Volume: 25 mL
Extract ID: 25I0372-05 I 02
Sampled: 09/16/2025 13:45
Analyzed: 09/25/2025 18:53

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony, Dissolved	7440-36-0	1	0.150	0.200	ND	ug/L	U
Arsenic UCT, Dissolved	7440-38-2	1	0.100	0.200	3.13	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	29.7	ug/L	
Cadmium UCT, Dissolved	7440-43-9	1	0.0500	0.100	ND	ug/L	U
Copper UCT, Dissolved	7440-50-8	1	0.200	0.500	3.41	ug/L	
Lead, Dissolved	7439-92-1	1	0.100	0.200	ND	ug/L	U
Nickel UCT, Dissolved	7440-02-0	1	0.250	0.500	ND	ug/L	U
Selenium UCT, Dissolved	7782-49-2	1	0.500	1.00	1.96	ug/L	
Silver, Dissolved	7440-22-4	1	0.100	0.200	ND	ug/L	U
Thallium, Dissolved	7440-28-0	1	0.100	0.200	ND	ug/L	U
Zinc UCT, Dissolved	7440-66-6	1	3.00	6.00	18.0	ug/L	



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Reported:
31-Oct-2025 13:40

Evans
25I0372-05 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A	Sampled: 09/16/2025 13:45
Instrument: HYDRA Analyst: ML	Analyzed: 10/01/2025 14:53
Sample Preparation:	Preparation Method: TWM EPA 7470A
	Preparation Batch: BNI0533
	Prepared: 09/25/2025
	Sample Size: 20 mL
	Final Volume: 20 mL
	Extract ID: 25I0372-05 I

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Mercury, Dissolved	7439-97-6	1	0.000013	0.000100	0.000015	mg/L	J



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Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 09/16/2025 13:45

Instrument: LACHAT2 Analyst: CRB

Analyzed: 10/06/2025 15:54

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-05 F

Preparation Batch: BNJ0027

Sample Size: 10 mL

Prepared: 10/01/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	1	2.00	2.00	10.8	mg/L	



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Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05 (Water)

Wet Chemistry

Method: SM 2320 B-11

Sampled: 09/16/2025 13:45

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 09/19/2025 12:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-05 G

Preparation Batch: BNI0401

Sample Size: 100 mL

Prepared: 09/18/2025

Final Volume: 100 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Bicarbonate		1	1.00	1.00	215	mg/L CaCO ₃	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Carbonate		1	1.00	1.00	ND	mg/L CaCO ₃	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Total		1	1.00	1.00	215	mg/L CaCO ₃	



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Project: Snipes MTN Landfill 2025
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Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05 (Water)

Wet Chemistry

Method: SM 2540 D-11

Sampled: 09/16/2025 13:45

Instrument: BAL2 Analyst: RAL

Analyzed: 09/23/2025 10:09

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-05

Preparation Batch: BNI0475

Sample Size: 1000 mL

Prepared: 09/23/2025

Final Volume: 1000 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Suspended Solids		1	1	1	ND	mg/L	U



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D	Sampled: 09/16/2025 13:45
Instrument: ICP3 Analyst: SH	Analyzed: 10/03/2025 21:27
Sample Preparation:	Preparation Method: WMN (No Prep)
	Preparation Batch: BNI0555
	Prepared: 09/25/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25I0372-05RE1 I 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	76.5	mg/L	



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Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 09/16/2025 13:45
Instrument: ICPMS1 Analyst: HAL	Analyzed: 09/26/2025 17:45
Sample Preparation:	Preparation Method: REN - EPA 3010A M
	Preparation Batch: BNI0535
	Prepared: 09/25/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25I0372-05RE1 I 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chromium, Dissolved	7440-47-3	5	1.88	2.50	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans
25I0372-05RE1 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 09/16/2025 13:45

Instrument: LACHAT2 Analyst: CRB

Analyzed: 09/18/2025 18:05

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-05RE1 F

Preparation Batch: BNI0399

Sample Size: 10 mL

Prepared: 09/18/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
# Chloride	16887-00-6	5	5.00	5.00	36.1	mg/L	D



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans (filter)
25I0372-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT20 Analyst: LTN

Sampled: 09/16/2025 13:50

Analyzed: 09/22/2025 16:46

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNI0453 Sample Size: 10 mL
Prepared: 09/22/2025 Final Volume: 10 mL

Extract ID: 25I0372-06 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloromethane	74-87-3	1	0.50	0.50	ND	ug/L	U
Vinyl Chloride	75-01-4	1	0.10	0.20	ND	ug/L	U
Bromomethane	74-83-9	1	1.00	1.00	ND	ug/L	U
Chloroethane	75-00-3	1	0.20	0.20	ND	ug/L	U
Trichlorofluoromethane	75-69-4	1	0.20	0.20	ND	ug/L	U
Acrolein	107-02-8	1	5.00	5.00	ND	ug/L	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	1	0.20	0.20	ND	ug/L	U
Acetone	67-64-1	1	5.00	5.00	ND	ug/L	U
1,1-Dichloroethene	75-35-4	1	0.10	0.20	ND	ug/L	U
Iodomethane	74-88-4	1	0.50	1.00	ND	ug/L	U
Methylene Chloride	75-09-2	1	1.00	1.00	ND	ug/L	U
Acrylonitrile	107-13-1	1	0.50	1.00	ND	ug/L	U
Carbon Disulfide	75-15-0	1	0.20	0.20	ND	ug/L	U
trans-1,2-Dichloroethene	156-60-5	1	0.10	0.20	ND	ug/L	U
Vinyl Acetate	108-05-4	1	0.20	0.20	ND	ug/L	U
1,1-Dichloroethane	75-34-3	1	0.10	0.20	ND	ug/L	U
2-Butanone	78-93-3	1	2.50	5.00	ND	ug/L	U
2,2-Dichloropropane	594-20-7	1	0.20	0.20	ND	ug/L	U
cis-1,2-Dichloroethene	156-59-2	1	0.10	0.20	ND	ug/L	U
Chloroform	67-66-3	1	0.10	0.20	ND	ug/L	U
Bromochloromethane	74-97-5	1	0.10	0.20	ND	ug/L	U
1,1,1-Trichloroethane	71-55-6	1	0.10	0.20	ND	ug/L	U
1,1-Dichloropropene	563-58-6	1	0.10	0.20	ND	ug/L	U
Carbon tetrachloride	56-23-5	1	0.10	0.20	ND	ug/L	U
1,2-Dichloroethane	107-06-2	1	0.10	0.20	ND	ug/L	U
Benzene	71-43-2	1	0.10	0.20	ND	ug/L	U
Trichloroethene	79-01-6	1	0.10	0.20	0.13	ug/L	J
1,2-Dichloropropane	78-87-5	1	0.10	0.20	ND	ug/L	U
Bromodichloromethane	75-27-4	1	0.10	0.20	ND	ug/L	U
Dibromomethane	74-95-3	1	0.10	0.20	ND	ug/L	U
2-Chloroethyl vinyl ether	110-75-8	1	1.00	1.00	ND	ug/L	U
4-Methyl-2-Pentanone	108-10-1	1	2.50	5.00	ND	ug/L	U
cis-1,3-Dichloropropene	10061-01-5	1	0.10	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.10	0.20	ND	ug/L	U
trans-1,3-Dichloropropene	10061-02-6	1	0.10	0.20	ND	ug/L	U
2-Hexanone	591-78-6	1	2.50	5.00	ND	ug/L	U
1,1,2-Trichloroethane	79-00-5	1	0.20	0.20	ND	ug/L	U
1,3-Dichloropropane	142-28-9	1	0.10	0.20	ND	ug/L	U
Tetrachloroethene	127-18-4	1	0.10	0.20	2.31	ug/L	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans (filter)
25I0372-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 09/16/2025 13:50

Instrument: NT20 Analyst: LTN

Analyzed: 09/22/2025 16:46

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dibromochloromethane	124-48-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromoethane	106-93-4	1	0.10	0.20	ND	ug/L	U
Chlorobenzene	108-90-7	1	0.10	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.10	0.20	ND	ug/L	U
1,1,1,2-Tetrachloroethane	630-20-6	1	0.10	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.20	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.10	0.20	ND	ug/L	U
Xylenes, total	1330-20-7	1	0.30	0.60	ND	ug/L	U
Styrene	100-42-5	1	0.10	0.20	ND	ug/L	U
Bromoform	75-25-2	1	0.20	0.20	ND	ug/L	U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.20	0.20	ND	ug/L	U
1,2,3-Trichloropropane	96-18-4	1	0.25	0.50	ND	ug/L	U
trans-1,4-Dichloro 2-Butene	110-57-6	1	1.00	1.00	ND	ug/L	U
n-Propylbenzene	103-65-1	1	0.10	0.20	ND	ug/L	U
Bromobenzene	108-86-1	1	0.10	0.20	ND	ug/L	U
Isopropyl Benzene	98-82-8	1	0.10	0.20	ND	ug/L	U
2-Chlorotoluene	95-49-8	1	0.10	0.20	ND	ug/L	U
4-Chlorotoluene	106-43-4	1	0.10	0.20	ND	ug/L	U
t-Butylbenzene	98-06-6	1	0.10	0.20	ND	ug/L	U
1,3,5-Trimethylbenzene	108-67-8	1	0.10	0.20	ND	ug/L	U
1,2,4-Trimethylbenzene	95-63-6	1	0.10	0.20	ND	ug/L	U
s-Butylbenzene	135-98-8	1	0.10	0.20	ND	ug/L	U
4-Isopropyl Toluene	99-87-6	1	0.10	0.20	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	1	0.10	0.20	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	1	0.20	0.20	ND	ug/L	U
n-Butylbenzene	104-51-8	1	0.20	0.20	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromo-3-chloropropane	96-12-8	1	0.50	0.50	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	1	0.25	0.50	ND	ug/L	U
Hexachloro-1,3-Butadiene	87-68-3	1	0.50	0.50	ND	ug/L	U
Naphthalene	91-20-3	1	0.50	0.50	ND	ug/L	U
1,2,3-Trichlorobenzene	87-61-6	1	0.50	0.50	ND	ug/L	U
Dichlorodifluoromethane	75-71-8	1	0.20	0.20	0.21	ug/L	Q
Methyl tert-butyl Ether	1634-04-4	1	0.25	0.50	ND	ug/L	U
2-Pentanone	107-87-9	1	2.50	5.00	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	95.6	%	
Surrogate: Toluene-d8				80-120 %	97.8	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	98.7	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	99.6	%	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Evans (filter)
25I0372-06 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260D-SIM

Sampled: 09/16/2025 13:50

Instrument: NT16 Analyst: LTN

Analyzed: 09/24/2025 12:13

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25I0372-06 B

Preparation Batch: BNI0497

Sample Size: 10 mL

Prepared: 09/24/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl chloride	75-01-4	1	10.0	20.0	ND	ng/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	95.0	%	
Surrogate: Toluene-d8				80-120 %	99.4	%	
Surrogate: 4-Bromofluorobenzene				75-125 %	92.4	%	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
EMPC	Estimated Maximum Possible Concentration
H	Hold time violation - Hold time was exceeded.
HC	The natural concentration of the spiked analyte is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
J	Estimated concentration value detected below the reporting limit.
J1	Initial calibration for this analyte met all QC requirements, except the low point of the curve has exceeded the Relative Standard Error(%RSE) limit. Associated results are estimated values below the next higher point in the calibration.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
P1	The reported value is greater than 40% difference between the concentrations determined on two GC columns where applicable.
Q	Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($<20\%$ RSD, $<20\%$ drift or minimum RRF)
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.
!	Indicates that ARL is NOT ACCREDITED for this parameter in samples logged as 'Drinking Water'
#	Indicates that ARL is NOT ACCREDITED for this parameter in this analysis and matrix.

November 14, 2025

O.L. Luther Co., Inc.
710 Luther Road
Granger, WA 98944

Re: Results of September 16, 2025 Sampling of O.L. Luther Well

Dear O.L. Luther Co., Inc.,

This letter describes results from O.L. Luther well located northwest of the closed Snipes Mountain Landfill in Granger, Washington.

Sampling and Results

The O.L. Luther well sample was collected on September 16, 2025 from a hose bib in piping located near the wellhead. The location was purged for 10 gallons and field parameters (pH, specific conductance, temperature, oxidation reduction potential, and dissolved oxygen) were recorded prior to sampling. Sample bottles were placed into a cooler with ice and delivered to Analytical Resources Inc. in Tukwila, Washington for analysis. The sample was analyzed for volatile organic constituents (VOCs), dissolved metals, chloride, and sulfate.

O.L. Luther Well

The O.L. Luther well was non-detect for all VOCs, except for dichlorodifluoromethane (CFC-12) (0.25Q ug/L [micrograms per liter]), tetrachloroethene (PCE) (4.84 ug/L), and trichloroethene (TCE) (0.27 ug/L). The “Q” after the numerical result for CFC-12 indicates that the initial or continuing calibrations were below established method requirements. Results for the September 2025 sampling and an excerpt of the laboratory analytical report are provided in the attached summary.

The O.L. Luther well has been sampled 13 times since 2014 based on its proximity to the Snipes Mountain Landfill (see Background Section below). PCE has been detected during all events, and above the MCL (5 ug/L) in December 2018 (7.27 ug/L), November 2024 (5.02 ug/L), and February 2025 (5.94 ug/L). CFC-12 was previously detected above the lab reporting limit in November 2024 (0.30 ug/L) and does not have an applicable MCL. TCE has been regularly historically detected below the MCL (4 ug/L) at the O.L. Luther well. No other VOCs have been regularly detected historically at the O.L. Luther well¹.

¹ Three VOCs, 2-Butanone (15B ug/L), Acetone (13.9B ug/L), and Toluene (0.86B ug/L), were detected at low concentrations in April 2019. The “B” after the numerical result indicates those results were impacted by laboratory contamination in a “Blank” or clean sample and are not confirmed detections. Dichlorodifluoromethane (CFC-12) (0.30 ug/L) was detected in November 2024. Cis-1,2-dichloroethene (cis-1,2-DCE) was estimated above the

Background

Yakima County Public Services monitors groundwater with a dedicated network of monitoring wells at the closed Snipes Mountain Landfill. VOCs are routinely detected in groundwater at the north side of the facility near the entrance gate. Some of the concentrations in these wells exceed state cleanup levels for groundwater, with the most frequent exceedances for the chemical Tetrachloroethene (PCE). Yakima County Public Services is coordinating with the Yakima Health District and Washington Department of Ecology regarding the contamination. A Remedial Investigation (RI) Work Plan has been approved by Washington Department of Ecology and will include additional sampling during 2025 and into 2026 to determine the nature and extent of contamination. Following the RI, a feasibility study (FS) will be performed to determine the most effective remedial alternative for the site. Yakima County also collects periodic groundwater samples at offsite wells in the surrounding area to augment the dedicated monitoring network at the closed Snipes Mountain Landfill.

Response Actions and Future Sampling

Based on the results, there are no response actions needed at this time. However, based on previous detections of VOCs in the O.L. Luther well, which reportedly supplies the DNR Residence and other buildings on Luther Road, Yakima County continues to supply bottled water for drinking at the DNR Residence. We would appreciate the opportunity to collect drinking water samples at the O.L. Luther facility again in November 2025. We will coordinate sampling approximately one week in advance.

We trust that this letter provides the information you need regarding the September 2025 sampling. Please feel free to contact us if you have any questions, concerns, or comments.

Sincerely,

Mott MacDonald

Travis Klaas, LHG

Principal Hydrogeologist

travis.klaas@mottmac.com

(206) 329-7587

Attachments:

Table 1. Summary of September 2025 Analytical Results, Volatile Organic Compounds
Excerpt of ARI Laboratory Data Report 25I0372 October 31, 2025

laboratory detection limit and below the reporting limit (0.14J ug/L) in February 2025. Acetone (6.48 ug/L) was detected in June 2025.

Table 1. Summary of September 2025 Analytical Results, Volatile Organic Compounds

Closed Snipes Mountain Landfill, Yakima County, Washington

Constituent	Units	MCL	O.L. Luther Well
			9/16/2025
1,1,1,2-Tetrachloroethane	ug/L		0.2U
1,1,1-Trichloroethane (TCA)	ug/L	200	0.2U
1,1,2,2-Tetrachloroethane	ug/L		0.2U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l		0.2U
1,1,2-Trichloroethane	ug/L	5	0.2U
1,1-Dichloroethane	ug/L	1	0.2U
1,1-Dichloroethene	ug/L	7	0.2U
1,1-Dichloropropene	ug/L		0.2U
1,2,3-Trichlorobenzene	ug/L		0.5U
1,2,3-Trichloropropane	ug/L		0.5U
1,2,4-Trichlorobenzene	ug/L	70	0.5U
1,2,4-Trimethylbenzene	ug/L		0.2U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L		0.5U
1,2-Dibromoethane (EDB)	ug/L		0.2U
1,2-Dichlorobenzene	ug/L		0.2U
1,2-Dichloroethane (EDC)	ug/L	5	0.2U
1,2-Dichloropropane	ug/L	5	0.2U
1,3,5-Trimethylbenzene	ug/L		0.2U
1,3-Dichlorobenzene	ug/L		0.2U
1,3-Dichloropropane	ug/L		0.2U
1,4-Dichlorobenzene	ug/L	75	0.2U
2,2-Dichloropropane	ug/L		0.2U
2-Butanone (MEK)	ug/L		5U
2-Chloroethyl Vinyl Ether	ug/L		1U
2-Chlorotoluene	ug/L		0.2U
2-Hexanone	ug/L		5U
2-Pentanone	ug/L		5U
4-Chlorotoluene	ug/L		0.2U
4-Isopropyltoluene	ug/L		0.2U
4-Methyl-2-Pentanone (MIBK)	ug/L		5U
Acetone	ug/L		5U
Acrolein	ug/L		5U
Acrylonitrile	ug/L		1U
Benzene	ug/L	5	0.2U
Bromobenzene	ug/L		0.2U
Bromochloromethane	ug/L		0.2U
Bromodichloromethane	ug/L	80	0.2U
Bromoform	ug/L	80	0.2U
Bromomethane	ug/L		1U
Carbon Disulfide	ug/L		0.2U
Carbon Tetrachloride	ug/L	5	0.2U
Chlorobenzene	ug/L	100	0.2U
Chloroethane	ug/L		0.2U
Chloroform	ug/L	80	0.2U

Table 1. Summary of September 2025 Analytical Results, Volatile Organic Compounds

Closed Snipes Mountain Landfill, Yakima County, Washington

Constituent	Units	MCL	O.L. Luther Well
			9/16/2025
Chloromethane	ug/L		0.5U
cis-1,2-Dichloroethene (cis-1,2-DCE)	ug/L	70	0.2U
cis-1,3-Dichloropropene	ug/L		0.2U
Dibromochloromethane	ug/L		0.2U
Dibromomethane	ug/L		0.2U
Dichlorodifluoromethane (CFC 12)	ug/L		0.25Q
Dichloromethane (Methylene Chloride)	ug/L	5	1U
Ethylbenzene	ug/L	700	0.2U
Hexachlorobutadiene	ug/L		0.5U
Iodomethane	ug/L		1U
Isopropylbenzene (Cumene)	ug/L		0.2U
m,p-Xylene	ug/L		0.4U
Methyl tert-Butyl Ether	ug/L		0.5U
Naphthalene	ug/L		0.5U
n-Butylbenzene	ug/L		0.2U
n-Propylbenzene	ug/L		0.2U
o-Xylene	ug/L		0.2U
sec-Butylbenzene	ug/L		0.2U
Styrene	ug/L	100	0.2U
tert-Butylbenzene	ug/L		0.2U
Tetrachloroethene (PCE)	ug/L	5	4.84
Toluene	ug/L	1000	0.2U
Total Xylenes	ug/L	10000	0.6U
trans-1,2-Dichloroethene	ug/L	100	0.2U
trans-1,3-Dichloropropene	ug/L		0.2U
trans-1,4-Dichloro-2-butene	ug/L		1U
Trichloroethene (TCE)	ug/L	5	0.27
Trichlorofluoromethane (CFC 11)	ug/L		0.2U
Vinyl Acetate	ug/L		0.2U
Vinyl Chloride	ug/L	2	0.02U

Notes:

MCL: Groundwater Maximum Contaminant Level as referenced in WAC 346-290 and 40 CFR 141 Drinking Water Standards

Bold values indicate detection above the reporting limit

U indicates that the constituent was not detected at the indicated reporting limit

J indicates that the constituent is estimated detected below the reporting limit value

Q indicates that the initial or continuing calibrations were below established method requirements



Mott MacDonald
1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT20 Analyst: LTN

Sampled: 09/16/2025 14:00

Analyzed: 09/22/2025 14:44

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNI0453 Sample Size: 10 mL
Prepared: 09/22/2025 Final Volume: 10 mL

Extract ID: 25I0372-04 D

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloromethane	74-87-3	1	0.50	0.50	ND	ug/L	U
Vinyl Chloride	75-01-4	1	0.10	0.20	ND	ug/L	U
Bromomethane	74-83-9	1	1.00	1.00	ND	ug/L	U
Chloroethane	75-00-3	1	0.20	0.20	ND	ug/L	U
Trichlorofluoromethane	75-69-4	1	0.20	0.20	ND	ug/L	U
Acrolein	107-02-8	1	5.00	5.00	ND	ug/L	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	1	0.20	0.20	ND	ug/L	U
Acetone	67-64-1	1	5.00	5.00	ND	ug/L	U
1,1-Dichloroethene	75-35-4	1	0.10	0.20	ND	ug/L	U
Iodomethane	74-88-4	1	0.50	1.00	ND	ug/L	U
Methylene Chloride	75-09-2	1	1.00	1.00	ND	ug/L	U
Acrylonitrile	107-13-1	1	0.50	1.00	ND	ug/L	U
Carbon Disulfide	75-15-0	1	0.20	0.20	ND	ug/L	U
trans-1,2-Dichloroethene	156-60-5	1	0.10	0.20	ND	ug/L	U
Vinyl Acetate	108-05-4	1	0.20	0.20	ND	ug/L	U
1,1-Dichloroethane	75-34-3	1	0.10	0.20	ND	ug/L	U
2-Butanone	78-93-3	1	2.50	5.00	ND	ug/L	U
2,2-Dichloropropane	594-20-7	1	0.20	0.20	ND	ug/L	U
cis-1,2-Dichloroethene	156-59-2	1	0.10	0.20	ND	ug/L	U
Chloroform	67-66-3	1	0.10	0.20	ND	ug/L	U
Bromochloromethane	74-97-5	1	0.10	0.20	ND	ug/L	U
1,1,1-Trichloroethane	71-55-6	1	0.10	0.20	ND	ug/L	U
1,1-Dichloropropene	563-58-6	1	0.10	0.20	ND	ug/L	U
Carbon tetrachloride	56-23-5	1	0.10	0.20	ND	ug/L	U
1,2-Dichloroethane	107-06-2	1	0.10	0.20	ND	ug/L	U
Benzene	71-43-2	1	0.10	0.20	ND	ug/L	U
Trichloroethene	79-01-6	1	0.10	0.20	0.27	ug/L	
1,2-Dichloropropane	78-87-5	1	0.10	0.20	ND	ug/L	U
Bromodichloromethane	75-27-4	1	0.10	0.20	ND	ug/L	U
Dibromomethane	74-95-3	1	0.10	0.20	ND	ug/L	U
2-Chloroethyl vinyl ether	110-75-8	1	1.00	1.00	ND	ug/L	U
4-Methyl-2-Pentanone	108-10-1	1	2.50	5.00	ND	ug/L	U
cis-1,3-Dichloropropene	10061-01-5	1	0.10	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.10	0.20	ND	ug/L	U
trans-1,3-Dichloropropene	10061-02-6	1	0.10	0.20	ND	ug/L	U
2-Hexanone	591-78-6	1	2.50	5.00	ND	ug/L	U
1,1,2-Trichloroethane	79-00-5	1	0.20	0.20	ND	ug/L	U
1,3-Dichloropropane	142-28-9	1	0.10	0.20	ND	ug/L	U
Tetrachloroethene	127-18-4	1	0.10	0.20	4.84	ug/L	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 09/16/2025 14:00

Instrument: NT20 Analyst: LTN

Analyzed: 09/22/2025 14:44

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dibromochloromethane	124-48-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromoethane	106-93-4	1	0.10	0.20	ND	ug/L	U
Chlorobenzene	108-90-7	1	0.10	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.10	0.20	ND	ug/L	U
1,1,1,2-Tetrachloroethane	630-20-6	1	0.10	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.20	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.10	0.20	ND	ug/L	U
Xylenes, total	1330-20-7	1	0.30	0.60	ND	ug/L	U
Styrene	100-42-5	1	0.10	0.20	ND	ug/L	U
Bromoform	75-25-2	1	0.20	0.20	ND	ug/L	U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.20	0.20	ND	ug/L	U
1,2,3-Trichloropropane	96-18-4	1	0.25	0.50	ND	ug/L	U
trans-1,4-Dichloro 2-Butene	110-57-6	1	1.00	1.00	ND	ug/L	U
n-Propylbenzene	103-65-1	1	0.10	0.20	ND	ug/L	U
Bromobenzene	108-86-1	1	0.10	0.20	ND	ug/L	U
Isopropyl Benzene	98-82-8	1	0.10	0.20	ND	ug/L	U
2-Chlorotoluene	95-49-8	1	0.10	0.20	ND	ug/L	U
4-Chlorotoluene	106-43-4	1	0.10	0.20	ND	ug/L	U
t-Butylbenzene	98-06-6	1	0.10	0.20	ND	ug/L	U
1,3,5-Trimethylbenzene	108-67-8	1	0.10	0.20	ND	ug/L	U
1,2,4-Trimethylbenzene	95-63-6	1	0.10	0.20	ND	ug/L	U
s-Butylbenzene	135-98-8	1	0.10	0.20	ND	ug/L	U
4-Isopropyl Toluene	99-87-6	1	0.10	0.20	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	1	0.10	0.20	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	1	0.20	0.20	ND	ug/L	U
n-Butylbenzene	104-51-8	1	0.20	0.20	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	1	0.10	0.20	ND	ug/L	U
1,2-Dibromo-3-chloropropane	96-12-8	1	0.50	0.50	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	1	0.25	0.50	ND	ug/L	U
Hexachloro-1,3-Butadiene	87-68-3	1	0.50	0.50	ND	ug/L	U
Naphthalene	91-20-3	1	0.50	0.50	ND	ug/L	U
1,2,3-Trichlorobenzene	87-61-6	1	0.50	0.50	ND	ug/L	U
Dichlorodifluoromethane	75-71-8	1	0.20	0.20	0.25	ug/L	Q
Methyl tert-butyl Ether	1634-04-4	1	0.25	0.50	ND	ug/L	U
2-Pentanone	107-87-9	1	2.50	5.00	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	94.9	%	
Surrogate: Toluene-d8				80-120 %	98.3	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	95.5	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	99.9	%	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260D-SIM
Instrument: NT16 Analyst: LTN

Sampled: 09/16/2025 14:00

Analyzed: 09/24/2025 11:31

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNI0497 Sample Size: 10 mL
Prepared: 09/24/2025 Final Volume: 10 mL

Extract ID: 25I0372-04 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl chloride	75-01-4	1	10.0	20.0	ND	ng/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	95.8	%	
Surrogate: Toluene-d8				80-120 %	99.7	%	
Surrogate: 4-Bromofluorobenzene				75-125 %	92.4	%	



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Reported:
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OL Luther
25I0372-04 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 09/16/2025 14:00

Analyzed: 09/30/2025 16:37

Sample Preparation: Preparation Method: WMN (No Prep)
Preparation Batch: BNI0555
Prepared: 09/25/2025

Sample Size: 25 mL
Final Volume: 25 mL

Extract ID: 25I0372-04 I 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Cobalt, Dissolved	7440-48-4	1	0.0025	0.0050	ND	mg/L	U
Iron, Dissolved	7439-89-6	1	0.0540	0.100	ND	mg/L	U
Magnesium, Dissolved	7439-95-4	1	0.0250	0.0500	27.0	mg/L	
Manganese, Dissolved	7439-96-5	1	0.0020	0.0040	ND	mg/L	U
Potassium, Dissolved	7440-09-7	1	0.250	0.500	7.03	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	27.7	mg/L	
Vanadium, Dissolved	7440-62-2	1	0.0015	0.0030	0.0140	mg/L	



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Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B
Instrument: ICPMS1 Analyst: HAL
Sample Preparation: Preparation Method: REN - EPA 3010A M
Preparation Batch: BNI0535
Prepared: 09/25/2025
Sample Size: 25 mL
Final Volume: 25 mL
Extract ID: 25I0372-04 I 02
Sampled: 09/16/2025 14:00
Analyzed: 09/25/2025 18:48

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony, Dissolved	7440-36-0	1	0.150	0.200	ND	ug/L	U
Arsenic UCT, Dissolved	7440-38-2	1	0.100	0.200	3.22	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	31.9	ug/L	
Cadmium UCT, Dissolved	7440-43-9	1	0.0500	0.100	ND	ug/L	U
Copper UCT, Dissolved	7440-50-8	1	0.200	0.500	1.06	ug/L	
Lead, Dissolved	7439-92-1	1	0.100	0.200	ND	ug/L	U
Nickel UCT, Dissolved	7440-02-0	1	0.250	0.500	ND	ug/L	U
Selenium UCT, Dissolved	7782-49-2	1	0.500	1.00	2.07	ug/L	
Silver, Dissolved	7440-22-4	1	0.100	0.200	ND	ug/L	U
Thallium, Dissolved	7440-28-0	1	0.100	0.200	ND	ug/L	U
Zinc UCT, Dissolved	7440-66-6	1	3.00	6.00	8.42	ug/L	



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Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A
Instrument: HYDRA Analyst: ML

Sampled: 09/16/2025 14:00

Analyzed: 10/01/2025 14:51

Sample Preparation: Preparation Method: TWM EPA 7470A
Preparation Batch: BNI0533
Prepared: 09/25/2025

Sample Size: 20 mL
Final Volume: 20 mL

Extract ID: 25I0372-04 I

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Mercury, Dissolved	7439-97-6	1	0.000013	0.000100	0.000019	mg/L	J



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Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 09/16/2025 14:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 10/06/2025 15:53

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-04 F

Preparation Batch: BNJ0027

Sample Size: 10 mL

Prepared: 10/01/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	1	2.00	2.00	12.3	mg/L	



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Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Wet Chemistry

Method: SM 2320 B-11

Sampled: 09/16/2025 14:00

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 09/19/2025 12:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-04 G

Preparation Batch: BNI0401

Sample Size: 100 mL

Prepared: 09/18/2025

Final Volume: 100 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Bicarbonate		1	1.00	1.00	214	mg/L CaCO ₃	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Carbonate		1	1.00	1.00	ND	mg/L CaCO ₃	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Total		1	1.00	1.00	214	mg/L CaCO ₃	



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Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04 (Water)

Wet Chemistry

Method: SM 2540 D-11
Instrument: BAL2 Analyst: RAL

Sampled: 09/16/2025 14:00

Analyzed: 09/23/2025 10:09

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BNI0475 Sample Size: 1000 mL
Prepared: 09/23/2025 Final Volume: 1000 mL

Extract ID: 25I0372-04

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Suspended Solids		1	1	1	ND	mg/L	U



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Project: Snipes MTN Landfill 2025
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Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D	Sampled: 09/16/2025 14:00	
Instrument: ICP3 Analyst: SH	Analyzed: 10/03/2025 21:07	
Sample Preparation:	Preparation Method: WMN (No Prep)	Extract ID: 25I0372-04RE1 I 02
	Preparation Batch: BNI0555	Sample Size: 25 mL
	Prepared: 09/25/2025	Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	80.0	mg/L	



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Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 09/16/2025 14:00
Instrument: ICPMS1 Analyst: HAL	Analyzed: 09/26/2025 17:40
Sample Preparation:	Preparation Method: REN - EPA 3010A M
	Preparation Batch: BNI0535
	Prepared: 09/25/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25I0372-04RE1 I 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chromium, Dissolved	7440-47-3	5	1.88	2.50	ND	ug/L	U



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Project Number: Snipes MTN Landfill 2025
Project Manager: Ashley Parkhurst

Reported:
31-Oct-2025 13:40

OL Luther
25I0372-04RE1 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 09/16/2025 14:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 09/18/2025 18:04

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25I0372-04RE1 F

Preparation Batch: BNI0399

Sample Size: 10 mL

Prepared: 09/18/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
# Chloride	16887-00-6	5	5.00	5.00	36.0	mg/L	D



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Reported:
31-Oct-2025 13:40

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
EMPC	Estimated Maximum Possible Concentration
H	Hold time violation - Hold time was exceeded.
HC	The natural concentration of the spiked analyte is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
J	Estimated concentration value detected below the reporting limit.
J1	Initial calibration for this analyte met all QC requirements, except the low point of the curve has exceeded the Relative Standard Error(%RSE) limit. Associated results are estimated values below the next higher point in the calibration.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
P1	The reported value is greater than 40% difference between the concentrations determined on two GC columns where applicable.
Q	Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($<20\%$ RSD, $<20\%$ drift or minimum RRF)
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.
!	Indicates that ARL is NOT ACCREDITED for this parameter in samples logged as 'Drinking Water'
#	Indicates that ARL is NOT ACCREDITED for this parameter in this analysis and matrix.