



Quarterly Progress Report - September 2025, Closed Snipes Mountain Landfill

Facility Site ID: 501; Cleanup Site ID: 3402; Agreed Order No. DE 22514

Project:	Closed Snipes Mountain Landfill RI/FS		
Our reference:	518300030-003		
Prepared by:	Ashley Parkhurst	Date:	September 19, 2025
Subject:	Quarterly Progress Report - September 2025		
To:	Luke LeMond, LHG Washington Department of Ecology (Ecology) - Central		

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 June 20 and September 19, 2025, the following activities have occurred, and work has been performed:

1. The second quarterly round of Remedial Investigation (RI) groundwater sampling, offsite sampling, and routine landfill gas monitoring was conducted on June 24 and 25, 2025. Details for the Q2 sampling are provided below:
 - Onsite wells north of the anticline (SMW-5s and SMW-5d) were sampled for Appendix I, II, III, per- and polyfluoroalkyl substances (PFAS), and 1,4-Dioxane, and field parameters (i.e. pH, conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), temp), in accordance with the approved RI Work Plan.
 - The water level at SMW-1 was too low to sample on June 23, 2025.
 - Sufficient pressure to operate the bladder pump in SMW-4 could not be achieved on June 24, 2025 due to operator error and the well was not sampled. Additional training on air compressor operation has been provided to field staff and added to fieldwork reference documents to avoid this issue in the future.
 - PFAS was detected in SMW-5s and SMW-5d in 2025 Q2, consistent with 2025 Q1 analytical results. The 2025 Q1 and 2025 Q2 analytical results for PFAS, Dinoseb (Eurofins) and all other sampled analytes (ARI) are attached to this update letter. A table summarizing the PFAS detections and applicable criteria is also attached to this update letter as Table 1.

This document is issued for the party which commissioned it and for specific purposes connected with the above-captioned project only. It should not be relied upon by any other party or used for any other purpose.

We accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing any error or omission which is due to an error or omission in data supplied to us by other parties.

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- 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
 - Routine landfill gas sampling.
2. Results letters for 2025 Q2 offsite well sampling results were communicated to associated property owners and tenants on August 15, 2025 and are attached to this update letter. Ecology and Yakima County Health District were notified of an exceedance of the Maximum Contaminant Level for tetrachloroethene (PCE) in the 2025 Q2 sample collected from the DNR House spigot on August 15, 2025. The following actions were performed in response to the MCL exceedance:
- Purging and sampling points were compared between Q2 and prior events. Purge times will be increased at both offsite sampling locations in 2025 Q3 and 2025 Q4.
 - Laboratory method and preparation batches were reviewed for consistency between OL Luther and the DNR House spigot.
 - Analytes were trended over available history to review other analyte differences and investigate the potential for sample identification errors.
 - Piper plots were prepared for 2025 Q1 and 2025 Q2 to assess geochemical differences.
 - Discussions regarding any treatments occurring between the well and sampling point will occur with staff at the OL Luther facility during the 2025 Q3 sampling event.
3. We submitted the Revised Groundwater Monitoring Well Network Expansion Work Plan to Ecology on August 18, 2025. Ecology accepted the report on August 19, 2025.
- A contact at DNR for the purpose of arranging an access agreement for the new monitoring wells was identified and provided to Yakima County Public Services on August 22, 2025. The approved Revised Groundwater Monitoring Well Network Expansion Work Plan was shared with DNR on September 2, 2025.
4. An RI sampling modification recommendation based on 2025 Q1 and 2025 Q2 results received for onsite wells SMW-5s and SMW-5d was submitted to Ecology on September 2, 2025 and is attached to this update letter. Approval to discontinue 1,4-dioxane and dinoseb analyses from samples collected from SMW-5s and SMW-5d was received from Ecology on September 15, 2025.
5. Calculated the groundwater flow direction and gradient using available transducer data and the weekly depth to water measurements collected from SMW-1 collected between October 2024 and February 2025. Created multiple visualizations to assist interpretations of the flow direction reversal in the Tem aquifer and the impacts of offsite pumping on flow directions and gradients.

- Preliminary results indicate that groundwater flow direction and flow rate varies during the Fall and Winter months, with a predominant flow direction to the south-southwest. Measurements indicate groundwater periodically flows to south-southeast at low magnitudes.
 - The maximum calculated groundwater flow gradient magnitude for the evaluated dates occurred on October 31, 2024 with a flow direction to the southwest, consistent with the typical Q4 flow direction.
6. The second quarterly round of Remedial Investigation (RI) groundwater sampling, offsite sampling, and routine landfill gas monitoring was conducted on September 15 and 16, 2025. Details for the Q3 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.
 - SMW-1 was dry on September 15, 2025.
 - SMW-5s and SMW-5d were not sampled for 1,4-dioxane or dinoseb based on the Ecology-approved RI sampling modification recommendation.
 - SMW-4 was inadvertently not sampled for dinoseb.
 - Offsite wells were sampled for VOCs, dissolved metals, chloride, sulfate, alkalinity, total suspended solids (TSS), and field parameters (i.e. pH, conductivity, DO, ORP, temp). The following offsite locations were sampled:
 - DNR House spigot (fed from Luther well)
 - OL Luther well
 - The DNR House spigot was additionally sampled for VOCs with the point of use filter attached.
 - Downloaded Solinst Levellogger unvented water-level transducer data from site monitoring wells SMW-4, SMW-5s, and SMW-5d and barometer data.
 - Routine landfill gas sampling.
7. Weekly manual measurements of depth to water at SMW-1 were collected by Yakima County Public Services staff.

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

1. Q4 2025 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. Routine onsite well sampling of MFS parameters at SMW-2.
3. Offsite sampling of VOCs and geochemical parameters at the DNR House spigot and OL Luther well.
4. Routine landfill gas sampling.
5. Water-level transducer data collection and manual water level measurements at SMW-1.
6. Finalize the Drilling Technical Specifications for the new monitoring wells and open the project to bids.
 - a. 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.

7. Groundwater flow direction and gradient calculations for March through December 2025.
8. Preliminary assessment of geochemical conditions using the Natural Attenuation screening tool.
9. Development of leachate production model.

Ashley Parkhurst
Engineering Designer III
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ashley.parkhurst@mottmac.com

cc Karma Suchan, 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 Q1 ARI Laboratory Data Package 25B0568
- 2025 Q1 Eurofins Laboratory Data Package J119478-1
- 2025 Q2 ARI Laboratory Data Package 25F0554
- 2025 Q2 Eurofins Laboratory Data Package J122984-1
- Offsite Well sample letters, August 15, 2025:
 - O.L. Luther Co., Inc. 710 Luther Road Granger, WA 98944, Re: Results of June 24, 2025 Sampling of O.L. Luther Well
 - Barb Evans Sage Orchards Outlook, WA, Re: Results of June 24, 2025, O.L. Luther well and Department of Natural Resources (DNR) Residence spigot drinking water sampling
- Proposed Revisions to Remedial Investigation Sampling at Closed Snipes Mountain Landfill, Agreed Order No. DE 22514

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 Q1 Sampling Detections (ng/L)				2025 Q2 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	-	-	-	-	-	-	-	-	ND	ND	7.6	ND	NS	NS	2.6J	ND
6:2 Fluorotelomer Sulfonic Acid (FTS)	3200	-	3200	7000	-	-	-	-	ND	ND	ND	ND	NS	NS	ND	ND
HFPO-DA (GenX)	24	-	10	53	-	-	10	10	ND	ND	ND	ND	NS	NS	ND	ND
NMeFOSAA	-	-	-	-	-	-	-	-	ND	ND	1.4J	ND	NS	NS	ND	ND
Perfluorobutanesulfonic Acid (PFBS)	4800	-	4800	11000	-	345	HI	HI	ND	ND	ND	ND	NS	NS	ND	ND
Perfluorobutanoic Acid (PFBA)	8000	-	8000	18000	-	-	-	-	ND	ND	420D	3.2J	NS	NS	66	1.5J
Perfluorodecanoic Acid (PFDA)	0.032	-	0.032	0.07	-	-	-	-	ND	ND	ND	0.91J	NS	NS	ND	ND
Perfluoroheptanoic Acid (PFHpA)	-	-	-	-	-	-	-	-	ND	ND	0.49J	ND	NS	NS	ND	ND
Perfluorohexanesulfonic Acid (PFHxS)	0.0064	-	0.0064	0.014	-	65	10	10	ND	ND	ND	ND	NS	NS	ND	ND
Perfluorohexanoic Acid (PFHxA)	8000	-	8000	18000	-	-	-	-	ND	ND	0.86J	ND	NS	NS	ND	ND
Perfluorononanoic Acid (PFNA)	40	-	10	88	-	9	10	10	ND	ND	ND	ND	NS	NS	ND	ND
Perfluorooctanesulfonic Acid (PFOS)	1.6	2.2	4	3.5	22	15	4	0	ND	ND	2.1	ND	NS	NS	ND	4.3
Perfluorooctanoic Acid (PFOA)	0.48	0.003	4	1.1	0.03	10	4	0	0.07J	ND	3.1	4.7	NS	NS	ND	0.54J
Perfluoropentanoic Acid (PFPeA)	-	-	-	-	-	-	-	-	ND	ND	130	3.9	NS	NS	27	1.3J

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 MCL 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

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 Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

31 March 2025

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

RE: 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)
25B0568

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.

Analytical Resources, LLC

Kelly Bottem, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2580568	Turn-around Requested: Standard
ARI Client Company: Mott MacDonald	Phone: 425-967-7200
Client Contact: Eric Cutler	
Client Project Name: Yakima - Snipes	
Client Project #: 518300030	Samplers: Ashley Parkhurst

Page: _____ of _____	
Date:	Ice Present? ☒
No. of Coolers: 7	Cooler Temps: See CRP



Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested															Notes/Comments
					VOCs [8260 SIM]	Dissolved metals	TOC / COD / NH3	Cl / SO4	Alkalinity	TSS	TDS	1,4-Dioxane	Dioxin / Furon	SIM PAH	Pesticides	SVOCs	NO2 / NO3			
SMW-1	2/26/25	0910	W	22	X	X	X	X	X	X	X	X	X	X	X	X	X	FF metals		
SMW-4	2/26/25	1140	W	22	X	X	X	X	X	X	X	X	X	X	X	X	X	FF metals		
SMW-5D	2/26/25	1545	W	22	X	X	X	X	X	X	X	X	X	X	X	X	X	bottles 60-80% full		
SMW-5S	2/27/25	0810	W	22	X	X	X	X	X	X	X	X	X	X	X	X	X	bottles 60-80% full		
Comments/Special Instructions	Relinquished by: (Signature) <i>Ashley Parkhurst</i>	Received by: (Signature) <i>Anthony Giuliani</i>	Relinquished by:															Received by:		
	Printed Name: Ashley Parkhurst	Printed Name: Anthony Giuliani	Printed Name:															Printed Name:		
	Company: Mott MacDonald	Company: AR LLC	Company:															Company:		
	Date & Time: 2/28/2025 0831	Date & Time: 2/28/25 8:33	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: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SMW-1	25B0568-01	Water	26-Feb-2025 09:10	28-Feb-2025 08:33
SMW-1	25B0568-02	Water	26-Feb-2025 09:10	28-Feb-2025 08:33
SMW-4	25B0568-03	Water	26-Feb-2025 11:40	28-Feb-2025 08:33
SMW-4	25B0568-04	Water	26-Feb-2025 11:40	28-Feb-2025 08:33
SMW-5D	25B0568-05	Water	26-Feb-2025 15:45	28-Feb-2025 08:33
SMW-5D	25B0568-06	Water	26-Feb-2025 15:45	28-Feb-2025 08:33
SMW-5S	25B0568-07	Water	27-Feb-2025 08:10	28-Feb-2025 08:33
SMW-5S	25B0568-08	Water	27-Feb-2025 08:10	28-Feb-2025 08:33



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

Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Work Order Case Narrative

Client: Mott MacDonald
Project: Snipes MTN Landfill 2025
Work Order: 25B0568

Sample receipt

Samples as listed on the preceding page were received 28-Feb-2025 08:33 under ARI work order 25B0568. For details regarding sample receipt, please refer to the Cooler Receipt Form.

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.

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.

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.



Mott MacDonald
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Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

1,4-Dioxane- EPA Method SW8270E

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

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 with the exception of all associated "Q" flagged analytes which are out of control high 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.



Mott MacDonald
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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

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

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

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

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

Initial and continuing calibrations including interference checks were within method requirements for reported elements.

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 samples that were sent to the lab outside of the holding time.

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 reference material (SRM) 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.

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.



Mott MacDonald
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Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

The cleanup surrogate percent recoveries were within control limits.

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

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

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

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

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.

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.



WORK ORDER

25B0568

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: Mott MacDonald

Project Manager: Kelly Bottem

Project: Snipes MTN Landfill 2025

Project Number: Snipes MTN Landfill 2024

Preservation Confirmation

Container ID	Container Type	pH	pH Paper Lot#: 2000119
25B0568-01 A	Glass NM, Amber, 1000 mL		
25B0568-01 B	Glass NM, Amber, 1000 mL		
25B0568-01 C	Glass NM, Amber, 500 mL		
25B0568-01 D	Glass NM, Amber, 500 mL		
25B0568-01 E	Glass NM, Amber, 500 mL		
25B0568-01 F	Glass NM, Amber, 500 mL		
25B0568-01 G	Glass NM, Amber, 500 mL		
25B0568-01 H	Glass NM, Amber, 500 mL		
25B0568-01 I	Glass NM, Amber, 500 mL		
25B0568-01 J	Glass NM, Amber, 500 mL		
25B0568-01 K	HDPE NM, 1000 mL		
25B0568-01 L	HDPE NM, 1000 mL		
25B0568-01 M	HDPE NM, 500 mL		
25B0568-01 N	HDPE NM, 500 mL		
25B0568-01 O	HDPE NM, 500 mL		
25B0568-01 P	HDPE NM, 250mL H2SO4	CZ	Pass
25B0568-01 Q	VOA Vial, Clear, 40 mL, HCL		
25B0568-01 R	VOA Vial, Clear, 40 mL, HCL		
25B0568-01 S	VOA Vial, Clear, 40 mL, HCL		
25B0568-01 T	VOA Vial, Clear, 40 mL, HCL		
25B0568-01 U	VOA Vial, Clear, 40 mL, HCL		
25B0568-02 A	HDPE NM, 500 mL (FF)	CZ	Pass
25B0568-03 A	Glass NM, Amber, 1000 mL		
25B0568-03 B	Glass NM, Amber, 1000 mL		
25B0568-03 C	Glass NM, Amber, 500 mL		
25B0568-03 D	Glass NM, Amber, 500 mL		
25B0568-03 E	Glass NM, Amber, 500 mL		
25B0568-03 F	Glass NM, Amber, 500 mL		
25B0568-03 G	Glass NM, Amber, 500 mL		
25B0568-03 H	Glass NM, Amber, 500 mL		
25B0568-03 I	Glass NM, Amber, 500 mL		
25B0568-03 J	Glass NM, Amber, 500 mL		
25B0568-03 K	HDPE NM, 1000 mL		
25B0568-03 L	HDPE NM, 1000 mL		



WORK ORDER

25B0568

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: Mott MacDonald

Project Manager: Kelly Bottem

Project: Snipes MTN Landfill 2025

Project Number: Snipes MTN Landfill 2024

25B0568-03 M	HDPE NM, 500 mL		
25B0568-03 N	HDPE NM, 500 mL		
25B0568-03 O	HDPE NM, 500 mL		
25B0568-03 P	HDPE NM, 250mL H2SO4	CZ	PSS
25B0568-03 Q	VOA Vial, Clear, 40 mL, HCL		
25B0568-03 R	VOA Vial, Clear, 40 mL, HCL		
25B0568-03 S	VOA Vial, Clear, 40 mL, HCL		
25B0568-03 T	VOA Vial, Clear, 40 mL, HCL		
25B0568-03 U	VOA Vial, Clear, 40 mL, HCL		
25B0568-04 A	HDPE NM, 500 mL (FF)	CZ	PSS
25B0568-05 A	Glass NM, Amber, 1000 mL		
25B0568-05 B	Glass NM, Amber, 1000 mL		
25B0568-05 C	Glass NM, Amber, 500 mL		
25B0568-05 D	Glass NM, Amber, 500 mL		
25B0568-05 E	Glass NM, Amber, 500 mL		
25B0568-05 F	Glass NM, Amber, 500 mL		
25B0568-05 G	Glass NM, Amber, 500 mL		
25B0568-05 H	Glass NM, Amber, 500 mL		
25B0568-05 I	Glass NM, Amber, 500 mL		
25B0568-05 J	Glass NM, Amber, 500 mL		
25B0568-05 K	HDPE NM, 1000 mL		
25B0568-05 L	HDPE NM, 1000 mL		
25B0568-05 M	HDPE NM, 500 mL		
25B0568-05 N	HDPE NM, 500 mL		
25B0568-05 O	HDPE NM, 500 mL		
25B0568-05 P	HDPE NM, 250mL H2SO4	CZ	PSS
25B0568-05 Q	VOA Vial, Clear, 40 mL, HCL		
25B0568-05 R	VOA Vial, Clear, 40 mL, HCL		
25B0568-05 S	VOA Vial, Clear, 40 mL, HCL		
25B0568-05 T	VOA Vial, Clear, 40 mL, HCL		
25B0568-05 U	VOA Vial, Clear, 40 mL, HCL		
25B0568-06 A	HDPE NM, 500 mL		
25B0568-07 A	Glass NM, Amber, 1000 mL		
25B0568-07 B	Glass NM, Amber, 1000 mL		
25B0568-07 C	Glass NM, Amber, 500 mL		
25B0568-07 D	Glass NM, Amber, 500 mL		



WORK ORDER

25B0568

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: Mott MacDonald

Project Manager: Kelly Bottem

Project: Snipes MTN Landfill 2025

Project Number: Snipes MTN Landfill 2024

25B0568-07 E Glass NM, Amber, 500 mL

25B0568-07 F Glass NM, Amber, 500 mL

25B0568-07 G Glass NM, Amber, 500 mL

25B0568-07 H Glass NM, Amber, 500 mL

25B0568-07 I Glass NM, Amber, 500 mL

25B0568-07 J Glass NM, Amber, 500 mL

25B0568-07 K HDPE NM, 1000 mL

25B0568-07 L HDPE NM, 1000 mL

25B0568-07 M HDPE NM, 500 mL

25B0568-07 N HDPE NM, 500 mL

25B0568-07 O HDPE NM, 500 mL

25B0568-07 P HDPE NM, 250mL H2SO4

CZ

Piss

25B0568-07 Q VOA Vial, Clear, 40 mL, HCL

25B0568-07 R VOA Vial, Clear, 40 mL, HCL

25B0568-07 S VOA Vial, Clear, 40 mL, HCL

25B0568-07 T VOA Vial, Clear, 40 mL, HCL

25B0568-07 U VOA Vial, Clear, 40 mL, HCL

25B0568-08 A HDPE NM, 500 mL

Preservation Confirmed By

2/28/25

Date



Cooler Receipt Form

ARI Client: Matt MacDonald

Project Name: Yakima Snaps

COC No(s): _____

NA

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

Assigned ARI Job No: 2580568

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 8:33 2.9°C 3.3°C 1.4°C 1.0°C 0.4°C 23°C

Temp Gun ID#: 5009708

Was a temperature blank included in the cooler? 1.1°C

YES NO

Were coolers received between 0° - 6° (°C)

YES NO

Was sufficient ice used (if appropriate)?

NA

YES NO

Cooler Accepted by: MD for AG

Date: 02/28/25

Time: 8:33

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

Were the sample(s) split by ARI?

NA

YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: Anthony G. Date: 2/28/25 Time: 9:49 Labels checked by: AG

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

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



WORK ORDER

25B0568

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: Mott MacDonald

Project Manager: Kelly Bottem

Project: Snipes MTN Landfill 2025

Project Number: Snipes MTN Landfill 2024

Preservation Confirmation

Container ID	Container Type	pH	pH Paper Lot#: <u>N600119</u>
25B0568-01 A	Glass NM, Amber, 1000 mL		
25B0568-01 B	Glass NM, Amber, 1000 mL		
25B0568-01 C	Glass NM, Amber, 500 mL		
25B0568-01 D	Glass NM, Amber, 500 mL		
25B0568-01 E	Glass NM, Amber, 500 mL		
25B0568-01 F	Glass NM, Amber, 500 mL		
25B0568-01 G	Glass NM, Amber, 500 mL		
25B0568-01 H	Glass NM, Amber, 500 mL		
25B0568-01 I	Glass NM, Amber, 500 mL		
25B0568-01 J	Glass NM, Amber, 500 mL		
25B0568-01 K	HDPE NM, 1000 mL		
25B0568-01 L	HDPE NM, 1000 mL		
25B0568-01 M	HDPE NM, 500 mL		
25B0568-01 N	HDPE NM, 500 mL		
25B0568-01 O	HDPE NM, 500 mL		
25B0568-01 P	HDPE NM, 250mL H2SO4	<u>12</u>	<u>P453</u>
25B0568-01 Q	VOA Vial, Clear, 40 mL, HCL		
25B0568-01 R	VOA Vial, Clear, 40 mL, HCL		
25B0568-01 S	VOA Vial, Clear, 40 mL, HCL		
25B0568-01 T	VOA Vial, Clear, 40 mL, HCL		
25B0568-01 U	VOA Vial, Clear, 40 mL, HCL		
25B0568-02 A	HDPE NM, 500 mL (FF)	<u>12</u>	<u>P453</u>
25B0568-03 A	Glass NM, Amber, 1000 mL		
25B0568-03 B	Glass NM, Amber, 1000 mL		
25B0568-03 C	Glass NM, Amber, 500 mL		
25B0568-03 D	Glass NM, Amber, 500 mL		
25B0568-03 E	Glass NM, Amber, 500 mL		
25B0568-03 F	Glass NM, Amber, 500 mL		
25B0568-03 G	Glass NM, Amber, 500 mL		
25B0568-03 H	Glass NM, Amber, 500 mL		
25B0568-03 I	Glass NM, Amber, 500 mL		
25B0568-03 J	Glass NM, Amber, 500 mL		
25B0568-03 K	HDPE NM, 1000 mL		
25B0568-03 L	HDPE NM, 1000 mL		



WORK ORDER

25B0568

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Client: Mott MacDonald

Project Manager: Kelly Bottem

Project: Snipes MTN Landfill 2025

Project Number: Snipes MTN Landfill 2024

25B0568-03 M	HDPE NM, 500 mL		
25B0568-03 N	HDPE NM, 500 mL		
25B0568-03 O	HDPE NM, 500 mL		
25B0568-03 P	HDPE NM, 250mL H2SO4	C2	PSS
25B0568-03 Q	VOA Vial, Clear, 40 mL, HCL		
25B0568-03 R	VOA Vial, Clear, 40 mL, HCL		
25B0568-03 S	VOA Vial, Clear, 40 mL, HCL		
25B0568-03 T	VOA Vial, Clear, 40 mL, HCL		
25B0568-03 U	VOA Vial, Clear, 40 mL, HCL		
25B0568-04 A	HDPE NM, 500 mL (FF)	C2	PSS
25B0568-05 A	Glass NM, Amber, 1000 mL		
25B0568-05 B	Glass NM, Amber, 1000 mL		
25B0568-05 C	Glass NM, Amber, 500 mL		
25B0568-05 D	Glass NM, Amber, 500 mL		
25B0568-05 E	Glass NM, Amber, 500 mL		
25B0568-05 F	Glass NM, Amber, 500 mL		
25B0568-05 G	Glass NM, Amber, 500 mL		
25B0568-05 H	Glass NM, Amber, 500 mL		
25B0568-05 I	Glass NM, Amber, 500 mL		
25B0568-05 J	Glass NM, Amber, 500 mL		
25B0568-05 K	HDPE NM, 1000 mL		
25B0568-05 L	HDPE NM, 1000 mL		
25B0568-05 M	HDPE NM, 500 mL		
25B0568-05 N	HDPE NM, 500 mL		
25B0568-05 O	HDPE NM, 500 mL		
25B0568-05 P	HDPE NM, 250mL H2SO4	C2	PSS
25B0568-05 Q	VOA Vial, Clear, 40 mL, HCL		
25B0568-05 R	VOA Vial, Clear, 40 mL, HCL		
25B0568-05 S	VOA Vial, Clear, 40 mL, HCL		
25B0568-05 T	VOA Vial, Clear, 40 mL, HCL		
25B0568-05 U	VOA Vial, Clear, 40 mL, HCL		
25B0568-06 A	HDPE NM, 500 mL		①
25B0568-07 A	Glass NM, Amber, 1000 mL		
25B0568-07 B	Glass NM, Amber, 1000 mL		
25B0568-07 C	Glass NM, Amber, 500 mL		
25B0568-07 D	Glass NM, Amber, 500 mL		



WORK ORDER

25B0568

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: Mott MacDonald

Project Manager: Kelly Bottem

Project: Snipes MTN Landfill 2025

Project Number: Snipes MTN Landfill 2024

25B0568-07 E Glass NM, Amber, 500 mL

25B0568-07 F Glass NM, Amber, 500 mL

25B0568-07 G Glass NM, Amber, 500 mL

25B0568-07 H Glass NM, Amber, 500 mL

25B0568-07 I Glass NM, Amber, 500 mL

25B0568-07 J Glass NM, Amber, 500 mL

25B0568-07 K HDPE NM, 1000 mL

25B0568-07 L HDPE NM, 1000 mL

25B0568-07 M HDPE NM, 500 mL

25B0568-07 N HDPE NM, 500 mL

25B0568-07 O HDPE NM, 500 mL

25B0568-07 P HDPE NM, 250mL H2SO4

CZ

PSSJ

25B0568-07 Q VOA Vial, Clear, 40 mL, HCL

25B0568-07 R VOA Vial, Clear, 40 mL, HCL

25B0568-07 S VOA Vial, Clear, 40 mL, HCL

25B0568-07 T VOA Vial, Clear, 40 mL, HCL

25B0568-07 U VOA Vial, Clear, 40 mL, HCL

25B0568-08 A HDPE NM, 500 mL

①


Preservation Confirmed By

2/28/25
Date

① Filtered at 0.45 μ m and
preserved to pH < 2.0 with 0.75M
conc. HNO₃ (M11838). Nu
02/28/25 1630



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

Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-01 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 02/26/2025 09:10

Instrument: NT20 Analyst: FL

Analyzed: 02/28/2025 20:10

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

Extract ID: 25B0568-01 R

Preparation Batch: BNB0588

Sample Size: 10 mL

Prepared: 02/28/2025

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	0.17	ug/L	J
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	0.11	ug/L	J
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	0.17	ug/L	J
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	0.49	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



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

Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-01 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 02/26/2025 09:10

Instrument: NT20 Analyst: FL

Analyzed: 02/28/2025 20:10

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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	7.61	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



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

Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-01 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 02/26/2025 09:10

Instrument: NT20 Analyst: FL

Analyzed: 02/28/2025 20:10

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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 %	106	%	
Surrogate: Toluene-d8				80-120 %	97.3	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	90.7	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	103	%	



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Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-01 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260D-SIM

Sampled: 02/26/2025 09:10

Instrument: NT16 Analyst: LN

Analyzed: 02/28/2025 16:58

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25B0568-01 Q

Preparation Batch: BNB0589

Sample Size: 10 mL

Prepared: 02/28/2025

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 %	107	%	
Surrogate: Toluene-d8				80-120 %	99.0	%	
Surrogate: 4-Bromofluorobenzene				75-125 %	94.8	%	



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1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-01 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 02/26/2025 09:10

Instrument: NT10 Analyst: JZ

Analyzed: 03/17/2025 14:55

Sample Preparation:

Preparation Method: EPA 3520C (Liq Liq)

Extract ID: 25B0568-01 C 01

Preparation Batch: BNC0011

Sample Size: 500 mL

Prepared: 03/04/2025

Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Phenol	108-95-2	1	0.5	1.0	ND	ug/L	U
bis(2-chloroethyl) ether	111-44-4	1	0.5	1.0	ND	ug/L	U
2-Chlorophenol	95-57-8	1	0.5	1.0	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	1	0.5	1.0	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	1	0.5	1.0	ND	ug/L	U
Benzyl Alcohol	100-51-6	1	1.0	2.0	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	1	0.5	1.0	ND	ug/L	U
2-Methylphenol	95-48-7	1	0.5	1.0	ND	ug/L	U
2,2'-Oxybis(1-chloropropane)	108-60-1	1	1.0	1.0	ND	ug/L	U
4-Methylphenol	106-44-5	1	1.0	2.0	ND	ug/L	U
N-Nitroso-di-n-Propylamine	621-64-7	1	0.5	1.0	ND	ug/L	U
Hexachloroethane	67-72-1	1	1.0	2.0	ND	ug/L	U
Nitrobenzene	98-95-3	1	0.5	1.0	ND	ug/L	U
Isophorone	78-59-1	1	0.5	1.0	ND	ug/L	U
2-Nitrophenol	88-75-5	1	1.5	3.0	ND	ug/L	U
2,4-Dimethylphenol	105-67-9	1	1.5	3.0	ND	ug/L	U
Bis(2-Chloroethoxy)methane	111-91-1	1	1.0	1.0	ND	ug/L	U
Benzoic acid	65-85-0	1	5.0	10.0	ND	ug/L	U
2,4-Dichlorophenol	120-83-2	1	3.0	3.0	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	1	0.5	1.0	ND	ug/L	U
Naphthalene	91-20-3	1	0.5	1.0	ND	ug/L	U
4-Chloroaniline	106-47-8	1	2.5	5.0	ND	ug/L	U
Hexachlorobutadiene	87-68-3	1	1.5	3.0	ND	ug/L	U
4-Chloro-3-Methylphenol	59-50-7	1	3.0	3.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.5	1.0	ND	ug/L	U
Hexachlorocyclopentadiene	77-47-4	1	5.0	5.0	ND	ug/L	U
2,4,6-Trichlorophenol	88-06-2	1	3.0	3.0	ND	ug/L	U
2,4,5-Trichlorophenol	95-95-4	1	2.5	5.0	ND	ug/L	U
2-Chloronaphthalene	91-58-7	1	0.5	1.0	ND	ug/L	U
2-Nitroaniline	88-74-4	1	3.0	3.0	ND	ug/L	U
Dimethylphthalate	131-11-3	1	0.5	1.0	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.5	1.0	ND	ug/L	U
2,6-Dinitrotoluene	606-20-2	1	3.0	3.0	ND	ug/L	U
3-Nitroaniline	99-09-2	1	3.0	3.0	ND	ug/L	U
Acenaphthene	83-32-9	1	0.5	1.0	ND	ug/L	U



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

Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-01 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 02/26/2025 09:10

Instrument: NT10 Analyst: JZ

Analyzed: 03/17/2025 14:55

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
2,4-Dinitrophenol	51-28-5	1	5.0	10.0	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.5	1.0	ND	ug/L	U
4-Nitrophenol	100-02-7	1	2.5	5.0	ND	ug/L	U
2,4-Dinitrotoluene	121-14-2	1	3.0	3.0	ND	ug/L	U
Fluorene	86-73-7	1	0.5	1.0	ND	ug/L	U
Diethyl phthalate	84-66-2	1	0.5	1.0	ND	ug/L	U
4-Chlorophenylphenyl ether	7005-72-3	1	0.5	1.0	ND	ug/L	U
4-Nitroaniline	100-01-6	1	3.0	3.0	ND	ug/L	U
4,6-Dinitro-2-methylphenol	534-52-1	1	5.0	10.0	ND	ug/L	U
N-Nitrosodiphenylamine	86-30-6	1	0.5	1.0	ND	ug/L	U
4-Bromophenyl phenyl ether	101-55-3	1	0.5	1.0	ND	ug/L	U
Hexachlorobenzene	118-74-1	1	0.5	1.0	ND	ug/L	U
Pentachlorophenol	87-86-5	1	5.0	5.0	ND	ug/L	U
Phenanthrene	85-01-8	1	0.5	1.0	ND	ug/L	U
Anthracene	120-12-7	1	0.5	1.0	ND	ug/L	U
Carbazole	86-74-8	1	1.0	1.0	ND	ug/L	U
Di-n-Butylphthalate	84-74-2	1	0.5	1.0	ND	ug/L	U
Fluoranthene	206-44-0	1	0.5	1.0	ND	ug/L	U
Pyrene	129-00-0	1	0.5	1.0	ND	ug/L	U
Butylbenzylphthalate	85-68-7	1	0.5	1.0	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.5	1.0	ND	ug/L	U
3,3'-Dichlorobenzidine	91-94-1	1	5.0	10.0	ND	ug/L	U
Chrysene	218-01-9	1	0.5	1.0	ND	ug/L	U
bis(2-Ethylhexyl)phthalate	117-81-7	1	3.0	3.0	3.8	ug/L	
Di-n-Octylphthalate	117-84-0	1	0.5	1.0	ND	ug/L	U
Benzo(a)fluoranthene, Total		1	1.0	2.0	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.5	1.0	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.5	1.0	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.5	1.0	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.5	1.0	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.5	1.0	ND	ug/L	U
2,3,4,6-Tetrachlorophenol	58-90-2	1	1.0	1.0	ND	ug/L	U
<i>Surrogate: 2-Fluorophenol</i>				33-120 %	56.3	%	
<i>Surrogate: Phenol-d5</i>				38-120 %	62.1	%	
<i>Surrogate: 2-Chlorophenol-d4</i>				41-120 %	67.9	%	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				20-120 %	77.6	%	
<i>Surrogate: Nitrobenzene-d5</i>				27-120 %	85.3	%	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-01 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 02/26/2025 09:10

Instrument: NT10 Analyst: JZ

Analyzed: 03/17/2025 14:55

Analyte	CAS Number	Recovery	Recovery	Units	Notes
		Limits			
Surrogate: 2-Fluorobiphenyl		33-120 %	80.2	%	
Surrogate: 2,4,6-Tribromophenol		52-120 %	66.0	%	
Surrogate: p-Terphenyl-d14		28-120 %	87.4	%	



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31-Mar-2025 11:57

SMW-1
25B0568-01 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 02/26/2025 09:10

Instrument: NT14 Analyst: RT

Analyzed: 03/17/2025 20:16

Sample Preparation:

Preparation Method: EPA 3520C (Liq Liq)

Extract ID: 25B0568-01 G 01

Preparation Batch: BNC0077

Sample Size: 500 mL

Prepared: 03/05/2025

Final Volume: 1 mL

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
<i>Surrogate: 1,4-Dioxane-d8</i>				30-160 %	76.6	%	



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Project Manager: Eric Cutler

Reported:
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SMW-1
25B0568-01 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM

Sampled: 02/26/2025 09:10

Instrument: NT8 Analyst: JZ

Analyzed: 03/17/2025 15:21

Sample Preparation:

Preparation Method: EPA 3510C SepF
Preparation Batch: BNC0074
Prepared: 03/05/2025

Sample Size: 500 mL
Final Volume: 0.5 mL

Extract ID: 25B0568-01 E 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
Benzo(a)pyrene	50-32-8	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 %	86.6	%	
Surrogate: Dibenzo[a,h]anthracene-d14				29-120 %	94.5	%	
Surrogate: Fluoranthene-d10				57-120 %	115	%	Q



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-01 (Water)

Chlorinated Pesticides

Method: EPA 8081B			Sampled: 02/26/2025 09:10
Instrument: ECD6 Analyst: RT			Analyzed: 03/08/2025 06:42
Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 25B0568-01 F 01
	Preparation Batch: BNC0075		
	Sample Size: 500 mL		
	Prepared: 03/05/2025		Final Volume: 5 mL
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 25B0568-01 F 01
	Cleanup Batch: CNC0022		
	Initial Volume: 5 uL		
	Cleaned: 06-Mar-2025		Final Volume: 5 uL
Sample Cleanup:	Cleanup Method: Sulfur		Extract ID:25B0568-01 F 01
	Cleanup Batch: CNC0023		
	Initial Volume: 5 uL		
	Cleaned: 06-Mar-2025		Final Volume: 5 uL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
alpha-BHC	319-84-6	1	0.013	0.025	ND	ug/L	U
beta-BHC	319-85-7	1	0.013	0.025	ND	ug/L	U
gamma-BHC (Lindane)	58-89-9	1	0.025	0.025	ND	ug/L	U
delta-BHC	319-86-8	1	0.013	0.025	ND	ug/L	U
Heptachlor	76-44-8	1	0.013	0.025	ND	ug/L	U
Aldrin	309-00-2	1	0.013	0.025	ND	ug/L	U
Heptachlor Epoxide	1024-57-3	1	0.025	0.050	ND	ug/L	U
trans-Chlordane (beta-Chlordane)	5103-74-2	1	0.013	0.025	ND	ug/L	U
cis-Chlordane (alpha-chlordane)	5103-71-9	1	0.013	0.025	ND	ug/L	U
Endosulfan I	959-98-8	1	0.013	0.025	ND	ug/L	U
4,4'-DDE	72-55-9	1	0.025	0.050	ND	ug/L	U
Endrin	72-20-8	1	0.025	0.050	ND	ug/L	U
Endosulfan II	33213-65-9	1	0.025	0.050	ND	ug/L	U
4,4'-DDD	72-54-8	1	0.025	0.050	ND	ug/L	U
Endrin Aldehyde	7421-93-4	1	0.025	0.050	ND	ug/L	U
4,4'-DDT	50-29-3	1	0.025	0.050	ND	ug/L	U
Endosulfan Sulfate	1031-07-8	1	0.025	0.050	ND	ug/L	U
Endrin Ketone	53494-70-5	1	0.025	0.050	ND	ug/L	U
Methoxychlor	72-43-5	1	0.125	0.250	ND	ug/L	U
Hexachlorobutadiene	87-68-3	1	0.025	0.050	ND	ug/L	U
Hexachlorobenzene	118-74-1	1	0.025	0.050	ND	ug/L	U
Oxychlordane	27304-13-8	1	0.050	0.050	ND	ug/L	U
Chlordane, technical	12789-03-6	1	0.100	0.100	ND	ug/L	U
Surrogate: Decachlorobiphenyl				11-144 %	89.5	%	
Surrogate: Decachlorobiphenyl [2C]				11-144 %	99.1	%	
Surrogate: Tetrachlorometaxylene				30-120 %	81.5	%	
Surrogate: Tetrachlorometaxylene [2C]				30-120 %	80.2	%	



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Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-01 (Water)

Dioxins/Furans

Method: EPA 1613B			Sampled: 02/26/2025 09:10	
Instrument: AUTOSPEC01 Analyst: jgr			Analyzed: 03/23/2025 20:42	
Sample Preparation:	Preparation Method: EPA 1613	Sample Size: 1050 mL	Extract ID: 25B0568-01 A 01	
	Preparation Batch: BNB0517			
	Prepared: 03/17/2025			
Sample Cleanup:	Cleanup Method: Silica Gel	Initial Volume: 20 uL	Extract ID: 25B0568-01 A 01	
	Cleanup Batch: CNC0071			
	Cleaned: 18-Mar-2025			
Sample Cleanup:	Cleanup Method: Florisil	Initial Volume: 20 uL	Extract ID: 25B0568-01 A 01	
	Cleanup Batch: CNC0072			
	Cleaned: 18-Mar-2025			

Analyte	DF/Split	Ion Ratio	Ratio Limits	Reporting		Result	Units	Notes
				EDL	Limit			
2,3,7,8-TCDF			0.655-0.886	1.37	9.52	ND	pg/L	U
2,3,7,8-TCDD			0.655-0.886	0.99	9.52	ND	pg/L	U
1,2,3,7,8-PeCDF			1.318-1.783	1.51	9.52	ND	pg/L	U
2,3,4,7,8-PeCDF			1.318-1.783	1.53	9.52	ND	pg/L	U
1,2,3,7,8-PeCDD			1.318-1.783	1.65	9.52	ND	pg/L	U
1,2,3,4,7,8-HxCDF			1.054-1.426	1.08	9.52	ND	pg/L	U
1,2,3,6,7,8-HxCDF			1.054-1.426	1.14	9.52	ND	pg/L	U
2,3,4,6,7,8-HxCDF			1.054-1.426	1.20	9.52	ND	pg/L	U
1,2,3,7,8,9-HxCDF			1.054-1.426	1.76	9.52	ND	pg/L	U
1,2,3,4,7,8-HxCDD			1.054-1.426	1.79	9.52	ND	pg/L	U
1,2,3,6,7,8-HxCDD			1.054-1.426	1.84	9.52	ND	pg/L	U
1,2,3,7,8,9-HxCDD			1.054-1.426	1.97	9.52	ND	pg/L	U
1,2,3,4,6,7,8-HpCDF			0.893-1.208	1.83	19.0	ND	pg/L	U
1,2,3,4,7,8,9-HpCDF			0.893-1.208	2.77	9.52	ND	pg/L	U
1,2,3,4,6,7,8-HpCDD			0.893-1.208	3.19	9.52	ND	pg/L	U
OCDF			0.757-1.024	3.99	19.0	ND	pg/L	U
OCDD			0.757-1.024	3.96	47.6	ND	pg/L	U

Homologue groups

Total TCDF					9.52	ND	pg/L	U
Total TCDD					9.52	ND	pg/L	U
Total PeCDF					9.52	ND	pg/L	U
Total PeCDD					9.52	ND	pg/L	U
Total HxCDF					9.52	ND	pg/L	U
Total HxCDD					9.52	ND	pg/L	U
Total HpCDF					9.52	ND	pg/L	U
Total HpCDD					9.52	ND	pg/L	U

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 2.22
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): 2.22
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, EMPC = ND): 0.00



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31-Mar-2025 11:57

SMW-1
25B0568-01 (Water)

Dioxins/Furans

Method: EPA 1613B

Sampled: 02/26/2025 09:10

Instrument: AUTOSPEC01 Analyst: jgr

Analyzed: 03/23/2025 20:42

Analyte	DF/Split	Ion Ratio	Ratio Limits	Reporting Limit	Result	Units	Notes
Labeled compounds							
13C12-2,3,7,8-TCDF		0.733	0.655-0.886	24-169 %	77.1	%	
13C12-2,3,7,8-TCDD		0.781	0.655-0.886	25-164 %	99.3	%	
13C12-1,2,3,7,8-PeCDF		1.726	1.318-1.783	24-185 %	93.9	%	
13C12-2,3,4,7,8-PeCDF		1.634	1.318-1.783	21-178 %	79.1	%	
13C12-1,2,3,7,8-PeCDD		1.703	1.318-1.783	25-181 %	85.1	%	
13C12-1,2,3,4,7,8-HxCDF		0.513	0.434-0.587	26-152 %	96.7	%	
13C12-1,2,3,6,7,8-HxCDF		0.528	0.434-0.587	26-123 %	104	%	
13C12-2,3,4,6,7,8-HxCDF		0.548	0.434-0.587	28-136 %	88.6	%	
13C12-1,2,3,7,8,9-HxCDF		0.490	0.434-0.587	29-147 %	91.1	%	
13C12-1,2,3,4,7,8-HxCDD		1.257	1.054-1.426	32-141 %	94.1	%	
13C12-1,2,3,6,7,8-HxCDD		1.267	1.054-1.426	28-130 %	99.9	%	
13C12-1,2,3,4,6,7,8-HpCDF		0.470	0.374-0.506	28-143 %	76.5	%	
13C12-1,2,3,4,7,8,9-HpCDF		0.465	0.374-0.506	26-138 %	71.6	%	
13C12-1,2,3,4,6,7,8-HpCDD		1.009	0.893-1.208	23-140 %	85.4	%	
13C12-OCDD		0.982	0.757-1.024	17-157 %	58.7	%	
37Cl4-2,3,7,8-TCDD				35-197 %	98.9	%	



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SMW-1
25B0568-01 (Water)

Dioxins/Furans

Method: EPA 1613B
Instrument: AUTOSPEC01 Analyst: jgr

Sampled: 02/26/2025 09:10
Analyzed: 03/23/2025 20:42

SMW-1
25B0568-01 (Water)

Wet Chemistry

Method: EPA 353.2
Instrument: [CALC] Analyst: CB

Sampled: 02/26/2025 09:10
Analyzed: 03/10/2025 16:11

Sample Preparation: Preparation Method: [CALC] Extract ID: 25B0568-01
Preparation Batch: [CALC]
Prepared: 03/04/2025 Final Volume: 1

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	5	0.0600	2.03	mg/L	H



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SMW-1
25B0568-01 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 02/26/2025 09:10

Instrument: LACHAT2 Analyst: CB

Analyzed: 03/04/2025 18:16

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-01 M

Preparation Batch: BNC0058

Sample Size: 10 mL

Prepared: 03/04/2025

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:
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SMW-1
25B0568-01 (Water)

Wet Chemistry

Method: EPA 410.4

Sampled: 02/26/2025 09:10

Instrument: UV1800-1 Analyst: KOTT

Analyzed: 03/14/2025 08:43

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-01 P

Preparation Batch: BNC0296

Sample Size: 2 mL

Prepared: 03/13/2025

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-Mar-2025 11:57

SMW-1
25B0568-01 (Water)

Wet Chemistry

Method: EPA 9060A

Sampled: 02/26/2025 09:10

Instrument: TOC-LCSH Analyst: RMS

Analyzed: 03/13/2025 14:22

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-01 P

Preparation Batch: BNC0293

Sample Size: 20 mL

Prepared: 03/13/2025

Final Volume: 20 mL

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



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-01 (Water)

Wet Chemistry

Method: SM 2320 B-11

Sampled: 02/26/2025 09:10

Instrument: Accumet AB150 Analyst: UW

Analyzed: 03/05/2025 14:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-01 O

Preparation Batch: BNC0081

Sample Size: 100 mL

Prepared: 03/05/2025

Final Volume: 100 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Total		1	1.00	1.00	199	mg/L CaCO ₃	



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-01 (Water)

Wet Chemistry

Method: SM 2540 C-11

Sampled: 02/26/2025 09:10

Instrument: BAL2 Analyst: LM

Analyzed: 03/04/2025 13:55

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-01

Preparation Batch: BNC0057

Sample Size: 100 mL

Prepared: 03/04/2025

Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	390	mg/L	



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-01 (Water)

Wet Chemistry

Method: SM 2540 D-11

Sampled: 02/26/2025 09:10

Instrument: BAL2 Analyst: LM

Analyzed: 02/28/2025 16:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-01

Preparation Batch: BNB0596

Sample Size: 1000 mL

Prepared: 02/28/2025

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: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-01 (Water)

Wet Chemistry

Method: SM 4500-NH3 H-11

Sampled: 02/26/2025 09:10

Instrument: LACHAT1 Analyst: LERB

Analyzed: 03/04/2025 16:11

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-01 P

Preparation Batch: BNC0054

Sample Size: 10 mL

Prepared: 03/04/2025

Final Volume: 10 mL

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: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-01RE1 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 02/26/2025 09:10

Instrument: LACHAT2 Analyst: CB

Analyzed: 03/11/2025 13:49

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-01RE1 N

Preparation Batch: BNC0221

Sample Size: 10 mL

Prepared: 03/11/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	2	2.00	2.00	17.4	mg/L	D



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-01RE1 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 02/26/2025 09:10

Instrument: LACHAT2 Analyst: CB

Analyzed: 03/11/2025 15:54

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-01RE1 N

Preparation Batch: BNC0243

Sample Size: 10 mL

Prepared: 03/11/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	5	10.0	10.0	84.5	mg/L	D



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-01RE3 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 02/26/2025 09:10

Instrument: LACHAT2 Analyst: CB

Analyzed: 03/10/2025 16:11

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-01RE3 M

Preparation Batch: BNC0058

Sample Size: 10 mL

Prepared: 03/04/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate + Nitrite as N		5	0.050	0.050	2.03	mg/L	D



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-02 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 02/26/2025 09:10

Analyzed: 03/12/2025 19:50

Sample Preparation: Preparation Method: WMN (No Prep) Sample Size: 25 mL
Preparation Batch: BNC0276 Final Volume: 25 mL
Prepared: 03/12/2025 Extract ID: 25B0568-02 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	68.0	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	23.5	mg/L	
Manganese, Dissolved	7439-96-5	1	0.0020	0.0040	0.0059	mg/L	
Potassium, Dissolved	7440-09-7	1	0.250	0.500	6.67	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	17.5	mg/L	



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Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-02 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B

Sampled: 02/26/2025 09:10

Instrument: ICPMS2 Analyst: HAL

Analyzed: 03/15/2025 03:19

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25B0568-02 A 01

Preparation Batch: BNC0310

Sample Size: 25 mL

Prepared: 03/13/2025

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic UCT, Dissolved	7440-38-2	1	0.100	0.200	6.31	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	6.14	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	3.85	ug/L	
Lead, Dissolved	7439-92-1	1	0.100	0.200	0.635	ug/L	
Nickel UCT, Dissolved	7440-02-0	1	0.250	0.500	27.4	ug/L	
Selenium UCT, Dissolved	7782-49-2	1	0.500	1.00	1.60	ug/L	
Silver, Dissolved	7440-22-4	1	0.100	0.200	ND	ug/L	U
Zinc UCT, Dissolved	7440-66-6	1	3.00	6.00	15.8	ug/L	



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Reported:
31-Mar-2025 11:57

SMW-1
25B0568-02 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A

Sampled: 02/26/2025 09:10

Instrument: HYDRA Analyst: ML

Analyzed: 03/13/2025 13:02

Sample Preparation:

Preparation Method: TWM EPA 7470A

Extract ID: 25B0568-02 A

Preparation Batch: BNC0269

Sample Size: 20 mL

Prepared: 03/12/2025

Final Volume: 20 mL

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



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-02RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B

Sampled: 02/26/2025 09:10

Instrument: ICPMS2 Analyst: HAL

Analyzed: 03/19/2025 05:37

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25B0568-02RE1 A 02

Preparation Batch: BNC0425

Sample Size: 25 mL

Prepared: 03/18/2025

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	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-1
25B0568-02RE2 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B

Sampled: 02/26/2025 09:10

Instrument: ICPMS2 Analyst: HAL

Analyzed: 03/17/2025 19:10

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25B0568-02RE2 A 02

Preparation Batch: BNC0310

Sample Size: 25 mL

Prepared: 03/13/2025

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	2.60	ug/L	D



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 02/26/2025 11:40

Instrument: NT20 Analyst: FL

Analyzed: 02/28/2025 20:33

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25B0568-03 R

Preparation Batch: BNB0588

Sample Size: 10 mL

Prepared: 02/28/2025

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	0.77	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	0.92	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



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 02/26/2025 11:40

Instrument: NT20 Analyst: FL

Analyzed: 02/28/2025 20:33

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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	3.79	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



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 02/26/2025 11:40

Instrument: NT20 Analyst: FL

Analyzed: 02/28/2025 20:33

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
2-Pentanone	107-87-9	1	2.50	5.00	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	103	%	
Surrogate: Toluene-d8				80-120 %	97.1	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	90.2	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	101	%	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260D-SIM

Sampled: 02/26/2025 11:40

Instrument: NT16 Analyst: LN

Analyzed: 02/28/2025 17:19

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25B0568-03 Q

Preparation Batch: BNB0589

Sample Size: 10 mL

Prepared: 02/28/2025

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 %	108	%	
Surrogate: Toluene-d8				80-120 %	99.2	%	
Surrogate: 4-Bromofluorobenzene				75-125 %	96.0	%	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E
Instrument: NT10 Analyst: JZ

Sampled: 02/26/2025 11:40

Analyzed: 03/17/2025 15:35

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BNC0011 Sample Size: 500 mL
Prepared: 03/04/2025 Final Volume: 0.5 mL

Extract ID: 25B0568-03 C 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Phenol	108-95-2	1	0.5	1.0	ND	ug/L	U
bis(2-chloroethyl) ether	111-44-4	1	0.5	1.0	ND	ug/L	U
2-Chlorophenol	95-57-8	1	0.5	1.0	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	1	0.5	1.0	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	1	0.5	1.0	ND	ug/L	U
Benzyl Alcohol	100-51-6	1	1.0	2.0	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	1	0.5	1.0	ND	ug/L	U
2-Methylphenol	95-48-7	1	0.5	1.0	ND	ug/L	U
2,2'-Oxybis(1-chloropropane)	108-60-1	1	1.0	1.0	ND	ug/L	U
4-Methylphenol	106-44-5	1	1.0	2.0	ND	ug/L	U
N-Nitroso-di-n-Propylamine	621-64-7	1	0.5	1.0	ND	ug/L	U
Hexachloroethane	67-72-1	1	1.0	2.0	ND	ug/L	U
Nitrobenzene	98-95-3	1	0.5	1.0	ND	ug/L	U
Isophorone	78-59-1	1	0.5	1.0	ND	ug/L	U
2-Nitrophenol	88-75-5	1	1.5	3.0	ND	ug/L	U
2,4-Dimethylphenol	105-67-9	1	1.5	3.0	ND	ug/L	U
Bis(2-Chloroethoxy)methane	111-91-1	1	1.0	1.0	ND	ug/L	U
Benzoic acid	65-85-0	1	5.0	10.0	ND	ug/L	U
2,4-Dichlorophenol	120-83-2	1	3.0	3.0	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	1	0.5	1.0	ND	ug/L	U
Naphthalene	91-20-3	1	0.5	1.0	ND	ug/L	U
4-Chloroaniline	106-47-8	1	2.5	5.0	ND	ug/L	U
Hexachlorobutadiene	87-68-3	1	1.5	3.0	ND	ug/L	U
4-Chloro-3-Methylphenol	59-50-7	1	3.0	3.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.5	1.0	ND	ug/L	U
Hexachlorocyclopentadiene	77-47-4	1	5.0	5.0	ND	ug/L	U
2,4,6-Trichlorophenol	88-06-2	1	3.0	3.0	ND	ug/L	U
2,4,5-Trichlorophenol	95-95-4	1	2.5	5.0	ND	ug/L	U
2-Chloronaphthalene	91-58-7	1	0.5	1.0	ND	ug/L	U
2-Nitroaniline	88-74-4	1	3.0	3.0	ND	ug/L	U
Dimethylphthalate	131-11-3	1	0.5	1.0	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.5	1.0	ND	ug/L	U
2,6-Dinitrotoluene	606-20-2	1	3.0	3.0	ND	ug/L	U
3-Nitroaniline	99-09-2	1	3.0	3.0	ND	ug/L	U
Acenaphthene	83-32-9	1	0.5	1.0	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 02/26/2025 11:40

Instrument: NT10 Analyst: JZ

Analyzed: 03/17/2025 15:35

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
2,4-Dinitrophenol	51-28-5	1	5.0	10.0	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.5	1.0	ND	ug/L	U
4-Nitrophenol	100-02-7	1	2.5	5.0	ND	ug/L	U
2,4-Dinitrotoluene	121-14-2	1	3.0	3.0	ND	ug/L	U
Fluorene	86-73-7	1	0.5	1.0	ND	ug/L	U
Diethyl phthalate	84-66-2	1	0.5	1.0	ND	ug/L	U
4-Chlorophenylphenyl ether	7005-72-3	1	0.5	1.0	ND	ug/L	U
4-Nitroaniline	100-01-6	1	3.0	3.0	ND	ug/L	U
4,6-Dinitro-2-methylphenol	534-52-1	1	5.0	10.0	ND	ug/L	U
N-Nitrosodiphenylamine	86-30-6	1	0.5	1.0	ND	ug/L	U
4-Bromophenyl phenyl ether	101-55-3	1	0.5	1.0	ND	ug/L	U
Hexachlorobenzene	118-74-1	1	0.5	1.0	ND	ug/L	U
Pentachlorophenol	87-86-5	1	5.0	5.0	ND	ug/L	U
Phenanthrene	85-01-8	1	0.5	1.0	ND	ug/L	U
Anthracene	120-12-7	1	0.5	1.0	ND	ug/L	U
Carbazole	86-74-8	1	1.0	1.0	ND	ug/L	U
Di-n-Butylphthalate	84-74-2	1	0.5	1.0	ND	ug/L	U
Fluoranthene	206-44-0	1	0.5	1.0	ND	ug/L	U
Pyrene	129-00-0	1	0.5	1.0	ND	ug/L	U
Butylbenzylphthalate	85-68-7	1	0.5	1.0	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.5	1.0	ND	ug/L	U
3,3'-Dichlorobenzidine	91-94-1	1	5.0	10.0	ND	ug/L	U
Chrysene	218-01-9	1	0.5	1.0	ND	ug/L	U
bis(2-Ethylhexyl)phthalate	117-81-7	1	3.0	3.0	ND	ug/L	U
Di-n-Octylphthalate	117-84-0	1	0.5	1.0	ND	ug/L	U
Benzo(a)fluoranthene, Total		1	1.0	2.0	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.5	1.0	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.5	1.0	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.5	1.0	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.5	1.0	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.5	1.0	ND	ug/L	U
2,3,4,6-Tetrachlorophenol	58-90-2	1	1.0	1.0	ND	ug/L	U
<i>Surrogate: 2-Fluorophenol</i>				33-120 %	53.9	%	
<i>Surrogate: Phenol-d5</i>				38-120 %	55.4	%	
<i>Surrogate: 2-Chlorophenol-d4</i>				41-120 %	63.5	%	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				20-120 %	71.4	%	
<i>Surrogate: Nitrobenzene-d5</i>				27-120 %	75.8	%	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 02/26/2025 11:40

Instrument: NT10 Analyst: JZ

Analyzed: 03/17/2025 15:35

Analyte	CAS Number	Recovery	Recovery	Units	Notes
		Limits			
Surrogate: 2-Fluorobiphenyl		33-120 %	74.2	%	
Surrogate: 2,4,6-Tribromophenol		52-120 %	68.6	%	
Surrogate: p-Terphenyl-d14		28-120 %	82.1	%	



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 02/26/2025 11:40

Instrument: NT14 Analyst: RT

Analyzed: 03/17/2025 20:39

Sample Preparation:

Preparation Method: EPA 3520C (Liq Liq)

Extract ID: 25B0568-03 G 01

Preparation Batch: BNC0077

Sample Size: 500 mL

Prepared: 03/05/2025

Final Volume: 1 mL

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
<i>Surrogate: 1,4-Dioxane-d8</i>				<i>30-160 %</i>	<i>75.7</i>	<i>%</i>	



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM

Sampled: 02/26/2025 11:40

Instrument: NT8 Analyst: JZ

Analyzed: 03/17/2025 15:52

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 25B0568-03 E 01

Preparation Batch: BNC0074

Sample Size: 500 mL

Prepared: 03/05/2025

Final Volume: 0.5 mL

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
Benzo(a)pyrene	50-32-8	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 %

84.0

%

Surrogate: Dibenzo[a,h]anthracene-d14

29-120 %

93.4

%

Surrogate: Fluoranthene-d10

57-120 %

110

%

Q



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Chlorinated Pesticides

Method: EPA 8081B			Sampled: 02/26/2025 11:40
Instrument: ECD6 Analyst: RT			Analyzed: 03/08/2025 07:00
Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 25B0568-03 F 01
	Preparation Batch: BNC0075		
	Sample Size: 500 mL		
	Prepared: 03/05/2025		Final Volume: 5 mL
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 25B0568-03 F 01
	Cleanup Batch: CNC0022		
	Initial Volume: 5 uL		
	Cleaned: 06-Mar-2025		Final Volume: 5 uL
Sample Cleanup:	Cleanup Method: Sulfur		Extract ID:25B0568-03 F 01
	Cleanup Batch: CNC0023		
	Initial Volume: 5 uL		
	Cleaned: 06-Mar-2025		Final Volume: 5 uL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
alpha-BHC	319-84-6	1	0.013	0.025	ND	ug/L	U
beta-BHC	319-85-7	1	0.013	0.025	ND	ug/L	U
gamma-BHC (Lindane)	58-89-9	1	0.025	0.025	ND	ug/L	U
delta-BHC	319-86-8	1	0.013	0.025	ND	ug/L	U
Heptachlor	76-44-8	1	0.013	0.025	ND	ug/L	U
Aldrin	309-00-2	1	0.013	0.025	ND	ug/L	U
Heptachlor Epoxide	1024-57-3	1	0.025	0.050	ND	ug/L	U
trans-Chlordane (beta-Chlordane)	5103-74-2	1	0.013	0.025	ND	ug/L	U
cis-Chlordane (alpha-chlordane)	5103-71-9	1	0.013	0.025	ND	ug/L	U
Endosulfan I	959-98-8	1	0.013	0.025	ND	ug/L	U
4,4'-DDE	72-55-9	1	0.025	0.050	ND	ug/L	U
Endrin	72-20-8	1	0.025	0.050	ND	ug/L	U
Endosulfan II	33213-65-9	1	0.025	0.050	ND	ug/L	U
4,4'-DDD	72-54-8	1	0.025	0.050	ND	ug/L	U
Endrin Aldehyde	7421-93-4	1	0.025	0.050	ND	ug/L	U
4,4'-DDT	50-29-3	1	0.025	0.050	ND	ug/L	U
Endosulfan Sulfate	1031-07-8	1	0.025	0.050	ND	ug/L	U
Endrin Ketone	53494-70-5	1	0.025	0.050	ND	ug/L	U
Methoxychlor	72-43-5	1	0.125	0.250	ND	ug/L	U
Hexachlorobutadiene	87-68-3	1	0.025	0.050	ND	ug/L	U
Hexachlorobenzene	118-74-1	1	0.025	0.050	ND	ug/L	U
Oxychlordane	27304-13-8	1	0.050	0.050	ND	ug/L	U
Chlordane, technical	12789-03-6	1	0.100	0.100	ND	ug/L	U
Surrogate: Decachlorobiphenyl				11-144 %	86.7	%	
Surrogate: Decachlorobiphenyl [2C]				11-144 %	98.7	%	
Surrogate: Tetrachlorometaxylene				30-120 %	79.7	%	
Surrogate: Tetrachlorometaxylene [2C]				30-120 %	73.3	%	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Dioxins/Furans

Method: EPA 1613B			Sampled: 02/26/2025 11:40	
Instrument: AUTOSPEC01 Analyst: jgr			Analyzed: 03/23/2025 21:31	
Sample Preparation:	Preparation Method: EPA 1613	Sample Size: 1060 mL	Extract ID: 25B0568-03 A 01	
	Preparation Batch: BNB0517			
	Prepared: 03/17/2025			
Sample Cleanup:	Cleanup Method: Silica Gel	Initial Volume: 20 uL	Extract ID: 25B0568-03 A 01	
	Cleanup Batch: CNC0071			
	Cleaned: 18-Mar-2025			
Sample Cleanup:	Cleanup Method: Florisil	Initial Volume: 20 uL	Extract ID: 25B0568-03 A 01	
	Cleanup Batch: CNC0072			
	Cleaned: 18-Mar-2025			

Analyte	DF/Split	Ion Ratio	Ratio Limits	Reporting		Result	Units	Notes
				EDL	Limit			
2,3,7,8-TCDF			0.655-0.886	1.22	9.43	ND	pg/L	U
2,3,7,8-TCDD			0.655-0.886	1.06	9.43	ND	pg/L	U
1,2,3,7,8-PeCDF			1.318-1.783	1.30	9.43	ND	pg/L	U
2,3,4,7,8-PeCDF			1.318-1.783	1.36	9.43	ND	pg/L	U
1,2,3,7,8-PeCDD			1.318-1.783	1.37	9.43	ND	pg/L	U
1,2,3,4,7,8-HxCDF			1.054-1.426	1.19	9.43	ND	pg/L	U
1,2,3,6,7,8-HxCDF			1.054-1.426	1.12	9.43	ND	pg/L	U
2,3,4,6,7,8-HxCDF			1.054-1.426	1.24	9.43	ND	pg/L	U
1,2,3,7,8,9-HxCDF			1.054-1.426	1.87	9.43	ND	pg/L	U
1,2,3,4,7,8-HxCDD			1.054-1.426	1.90	9.43	ND	pg/L	U
1,2,3,6,7,8-HxCDD			1.054-1.426	1.90	9.43	ND	pg/L	U
1,2,3,7,8,9-HxCDD			1.054-1.426	2.06	9.43	ND	pg/L	U
1,2,3,4,6,7,8-HpCDF			0.893-1.208	1.41	18.9	ND	pg/L	U
1,2,3,4,7,8,9-HpCDF			0.893-1.208	2.22	9.43	ND	pg/L	U
1,2,3,4,6,7,8-HpCDD			0.893-1.208	2.32	9.43	ND	pg/L	U
OCDF			0.757-1.024	3.16	18.9	ND	pg/L	U
OCDD			0.757-1.024	3.78	47.2	ND	pg/L	U
Homologue groups								
Total TCDF					9.43	ND	pg/L	U
Total TCDD					9.43	ND	pg/L	U
Total PeCDF					9.43	ND	pg/L	U
Total PeCDD					9.43	ND	pg/L	U
Total HxCDF					9.43	ND	pg/L	U
Total HxCDD					9.43	ND	pg/L	U
Total HpCDF					9.43	ND	pg/L	U
Total HpCDD					9.43	ND	pg/L	U

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 2.09
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): 2.09
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: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Dioxins/Furans

Method: EPA 1613B

Sampled: 02/26/2025 11:40

Instrument: AUTOSPEC01 Analyst: jgr

Analyzed: 03/23/2025 21:31

Analyte	DF/Split	Ion Ratio	Ratio Limits	Reporting Limit	Result	Units	Notes
Labeled compounds							
13C12-2,3,7,8-TCDF		0.757	0.655-0.886	24-169 %	79.6	%	
13C12-2,3,7,8-TCDD		0.792	0.655-0.886	25-164 %	104	%	
13C12-1,2,3,7,8-PeCDF		1.594	1.318-1.783	24-185 %	86.7	%	
13C12-2,3,4,7,8-PeCDF		1.599	1.318-1.783	21-178 %	84.3	%	
13C12-1,2,3,7,8-PeCDD		1.567	1.318-1.783	25-181 %	93.6	%	
13C12-1,2,3,4,7,8-HxCDF		0.541	0.434-0.587	26-152 %	99.4	%	
13C12-1,2,3,6,7,8-HxCDF		0.509	0.434-0.587	26-123 %	106	%	
13C12-2,3,4,6,7,8-HxCDF		0.526	0.434-0.587	28-136 %	92.0	%	
13C12-1,2,3,7,8,9-HxCDF		0.531	0.434-0.587	29-147 %	89.7	%	
13C12-1,2,3,4,7,8-HxCDD		1.251	1.054-1.426	32-141 %	94.8	%	
13C12-1,2,3,6,7,8-HxCDD		1.266	1.054-1.426	28-130 %	106	%	
13C12-1,2,3,4,6,7,8-HpCDF		0.485	0.374-0.506	28-143 %	79.4	%	
13C12-1,2,3,4,7,8,9-HpCDF		0.447	0.374-0.506	26-138 %	75.0	%	
13C12-1,2,3,4,6,7,8-HpCDD		1.068	0.893-1.208	23-140 %	90.6	%	
13C12-OCDD		0.914	0.757-1.024	17-157 %	66.4	%	
37Cl4-2,3,7,8-TCDD				35-197 %	102	%	



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Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Dioxins/Furans

Method: EPA 1613B
Instrument: AUTOSPEC01 Analyst: jgr

Sampled: 02/26/2025 11:40
Analyzed: 03/23/2025 21:31

SMW-4
25B0568-03 (Water)

Wet Chemistry

Method: EPA 325.2
Instrument: LACHAT2 Analyst: CB

Sampled: 02/26/2025 11:40
Analyzed: 03/11/2025 13:11

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BNC0221 Sample Size: 10 mL
Prepared: 03/11/2025 Final Volume: 10 mL
Extract ID: 25B0568-03 M

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	1	1.00	1.00	8.40	mg/L	



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Project Number: [none]
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Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 02/26/2025 11:40

Instrument: [CALC] Analyst: CB

Analyzed: 03/10/2025 15:44

Sample Preparation:

Preparation Method: [CALC]

Extract ID: 25B0568-03

Preparation Batch: [CALC]

Prepared: 03/10/2025

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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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 02/26/2025 11:40

Instrument: LACHAT2 Analyst: CB

Analyzed: 02/28/2025 17:33

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-03 O

Preparation Batch: BNB0602

Sample Size: 10 mL

Prepared: 02/28/2025

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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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Wet Chemistry

Method: EPA 410.4

Sampled: 02/26/2025 11:40

Instrument: UV1800-1 Analyst: KOTT

Analyzed: 03/14/2025 08:47

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-03 P

Preparation Batch: BNC0296

Sample Size: 2 mL

Prepared: 03/13/2025

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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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Wet Chemistry

Method: EPA 9060A

Sampled: 02/26/2025 11:40

Instrument: TOC-LCSH Analyst: RMS

Analyzed: 03/13/2025 14:50

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-03 P

Preparation Batch: BNC0293

Sample Size: 20 mL

Prepared: 03/13/2025

Final Volume: 20 mL

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



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Wet Chemistry

Method: SM 2320 B-11

Sampled: 02/26/2025 11:40

Instrument: Accumet AB150 Analyst: UW

Analyzed: 03/05/2025 14:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-03 O

Preparation Batch: BNC0081

Sample Size: 100 mL

Prepared: 03/05/2025

Final Volume: 100 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Total		1	1.00	1.00	145	mg/L CaCO ₃	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Wet Chemistry

Method: SM 2540 C-11

Sampled: 02/26/2025 11:40

Instrument: BAL2 Analyst: LM

Analyzed: 02/28/2025 16:41

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-03

Preparation Batch: BNB0605

Sample Size: 100 mL

Prepared: 02/28/2025

Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	381	mg/L	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Wet Chemistry

Method: SM 2540 D-11

Sampled: 02/26/2025 11:40

Instrument: BAL2 Analyst: LM

Analyzed: 02/28/2025 16:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-03

Preparation Batch: BNB0596

Sample Size: 1010 mL

Prepared: 02/28/2025

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: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03 (Water)

Wet Chemistry

Method: SM 4500-NH3 H-11

Sampled: 02/26/2025 11:40

Instrument: LACHAT1 Analyst: LERB

Analyzed: 03/04/2025 16:12

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-03 P

Preparation Batch: BNC0054

Sample Size: 10 mL

Prepared: 03/04/2025

Final Volume: 10 mL

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: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03RE1 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 02/26/2025 11:40

Instrument: LACHAT2 Analyst: CB

Analyzed: 03/10/2025 15:44

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-03RE1 P

Preparation Batch: BNC0200

Sample Size: 10 mL

Prepared: 03/10/2025

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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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-03RE1 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 02/26/2025 11:40

Instrument: LACHAT2 Analyst: CB

Analyzed: 03/11/2025 15:55

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-03RE1 M

Preparation Batch: BNC0243

Sample Size: 10 mL

Prepared: 03/11/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	5	10.0	10.0	40.9	mg/L	D



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-04 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D

Sampled: 02/26/2025 11:40

Instrument: ICP3 Analyst: SH

Analyzed: 03/12/2025 19:53

Sample Preparation:

Preparation Method: WMN (No Prep)

Extract ID: 25B0568-04 A

Preparation Batch: BNC0276

Sample Size: 25 mL

Prepared: 03/12/2025

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	35.9	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	11.7	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	6.73	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	20.1	mg/L	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-04 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B

Sampled: 02/26/2025 11:40

Instrument: ICPMS2 Analyst: HAL

Analyzed: 03/15/2025 03:24

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25B0568-04 A 01

Preparation Batch: BNC0310

Sample Size: 25 mL

Prepared: 03/13/2025

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic UCT, Dissolved	7440-38-2	1	0.100	0.200	3.95	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	7.62	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	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	ND	ug/L	U
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
Zinc UCT, Dissolved	7440-66-6	1	3.00	6.00	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-04 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A

Sampled: 02/26/2025 11:40

Instrument: HYDRA Analyst: ML

Analyzed: 03/13/2025 13:04

Sample Preparation:

Preparation Method: TWM EPA 7470A

Extract ID: 25B0568-04 A

Preparation Batch: BNC0269

Sample Size: 20 mL

Prepared: 03/12/2025

Final Volume: 20 mL

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



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-04RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B

Sampled: 02/26/2025 11:40

Instrument: ICPMS2 Analyst: HAL

Analyzed: 03/19/2025 05:42

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25B0568-04RE1 A 02

Preparation Batch: BNC0425

Sample Size: 25 mL

Prepared: 03/18/2025

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	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-4
25B0568-04RE2 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B

Sampled: 02/26/2025 11:40

Instrument: ICPMS2 Analyst: HAL

Analyzed: 03/17/2025 19:11

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25B0568-04RE2 A 02

Preparation Batch: BNC0310

Sample Size: 25 mL

Prepared: 03/13/2025

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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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 02/26/2025 15:45

Instrument: NT20 Analyst: FL

Analyzed: 02/28/2025 20:56

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25B0568-05 R

Preparation Batch: BNB0588

Sample Size: 10 mL

Prepared: 02/28/2025

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



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 02/26/2025 15:45

Instrument: NT20 Analyst: FL

Analyzed: 02/28/2025 20:56

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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
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



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 02/26/2025 15:45

Instrument: NT20 Analyst: FL

Analyzed: 02/28/2025 20:56

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
2-Pentanone	107-87-9	1	2.50	5.00	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	108	%	
Surrogate: Toluene-d8				80-120 %	98.5	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	91.2	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	103	%	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260D-SIM

Sampled: 02/26/2025 15:45

Instrument: NT16 Analyst: LN

Analyzed: 02/28/2025 17:40

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25B0568-05 Q

Preparation Batch: BNB0589

Sample Size: 10 mL

Prepared: 02/28/2025

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 %	107	%	
Surrogate: Toluene-d8				80-120 %	98.3	%	
Surrogate: 4-Bromofluorobenzene				75-125 %	95.9	%	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 02/26/2025 15:45

Instrument: NT10 Analyst: JZ

Analyzed: 03/17/2025 16:16

Sample Preparation:

Preparation Method: EPA 3520C (Liq Liq)

Extract ID: 25B0568-05 C 01

Preparation Batch: BNC0011

Sample Size: 500 mL

Prepared: 03/04/2025

Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Phenol	108-95-2	1	0.5	1.0	ND	ug/L	U
bis(2-chloroethyl) ether	111-44-4	1	0.5	1.0	ND	ug/L	U
2-Chlorophenol	95-57-8	1	0.5	1.0	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	1	0.5	1.0	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	1	0.5	1.0	ND	ug/L	U
Benzyl Alcohol	100-51-6	1	1.0	2.0	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	1	0.5	1.0	ND	ug/L	U
2-Methylphenol	95-48-7	1	0.5	1.0	ND	ug/L	U
2,2'-Oxybis(1-chloropropane)	108-60-1	1	1.0	1.0	ND	ug/L	U
4-Methylphenol	106-44-5	1	1.0	2.0	ND	ug/L	U
N-Nitroso-di-n-Propylamine	621-64-7	1	0.5	1.0	ND	ug/L	U
Hexachloroethane	67-72-1	1	1.0	2.0	ND	ug/L	U
Nitrobenzene	98-95-3	1	0.5	1.0	ND	ug/L	U
Isophorone	78-59-1	1	0.5	1.0	ND	ug/L	U
2-Nitrophenol	88-75-5	1	1.5	3.0	ND	ug/L	U
2,4-Dimethylphenol	105-67-9	1	1.5	3.0	ND	ug/L	U
Bis(2-Chloroethoxy)methane	111-91-1	1	1.0	1.0	ND	ug/L	U
Benzoic acid	65-85-0	1	5.0	10.0	ND	ug/L	U
2,4-Dichlorophenol	120-83-2	1	3.0	3.0	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	1	0.5	1.0	ND	ug/L	U
Naphthalene	91-20-3	1	0.5	1.0	ND	ug/L	U
4-Chloroaniline	106-47-8	1	2.5	5.0	ND	ug/L	U
Hexachlorobutadiene	87-68-3	1	1.5	3.0	ND	ug/L	U
4-Chloro-3-Methylphenol	59-50-7	1	3.0	3.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.5	1.0	ND	ug/L	U
Hexachlorocyclopentadiene	77-47-4	1	5.0	5.0	ND	ug/L	U
2,4,6-Trichlorophenol	88-06-2	1	3.0	3.0	ND	ug/L	U
2,4,5-Trichlorophenol	95-95-4	1	2.5	5.0	ND	ug/L	U
2-Chloronaphthalene	91-58-7	1	0.5	1.0	ND	ug/L	U
2-Nitroaniline	88-74-4	1	3.0	3.0	ND	ug/L	U
Dimethylphthalate	131-11-3	1	0.5	1.0	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.5	1.0	ND	ug/L	U
2,6-Dinitrotoluene	606-20-2	1	3.0	3.0	ND	ug/L	U
3-Nitroaniline	99-09-2	1	3.0	3.0	ND	ug/L	U
Acenaphthene	83-32-9	1	0.5	1.0	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 02/26/2025 15:45

Instrument: NT10 Analyst: JZ

Analyzed: 03/17/2025 16:16

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
2,4-Dinitrophenol	51-28-5	1	5.0	10.0	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.5	1.0	ND	ug/L	U
4-Nitrophenol	100-02-7	1	2.5	5.0	ND	ug/L	U
2,4-Dinitrotoluene	121-14-2	1	3.0	3.0	ND	ug/L	U
Fluorene	86-73-7	1	0.5	1.0	ND	ug/L	U
Diethyl phthalate	84-66-2	1	0.5	1.0	ND	ug/L	U
4-Chlorophenylphenyl ether	7005-72-3	1	0.5	1.0	ND	ug/L	U
4-Nitroaniline	100-01-6	1	3.0	3.0	ND	ug/L	U
4,6-Dinitro-2-methylphenol	534-52-1	1	5.0	10.0	ND	ug/L	U
N-Nitrosodiphenylamine	86-30-6	1	0.5	1.0	ND	ug/L	U
4-Bromophenyl phenyl ether	101-55-3	1	0.5	1.0	ND	ug/L	U
Hexachlorobenzene	118-74-1	1	0.5	1.0	ND	ug/L	U
Pentachlorophenol	87-86-5	1	5.0	5.0	ND	ug/L	U
Phenanthrene	85-01-8	1	0.5	1.0	ND	ug/L	U
Anthracene	120-12-7	1	0.5	1.0	ND	ug/L	U
Carbazole	86-74-8	1	1.0	1.0	ND	ug/L	U
Di-n-Butylphthalate	84-74-2	1	0.5	1.0	ND	ug/L	U
Fluoranthene	206-44-0	1	0.5	1.0	ND	ug/L	U
Pyrene	129-00-0	1	0.5	1.0	ND	ug/L	U
Butylbenzylphthalate	85-68-7	1	0.5	1.0	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.5	1.0	ND	ug/L	U
3,3'-Dichlorobenzidine	91-94-1	1	5.0	10.0	ND	ug/L	U
Chrysene	218-01-9	1	0.5	1.0	ND	ug/L	U
bis(2-Ethylhexyl)phthalate	117-81-7	1	3.0	3.0	ND	ug/L	U
Di-n-Octylphthalate	117-84-0	1	0.5	1.0	ND	ug/L	U
Benzo(a)fluoranthene, Total		1	1.0	2.0	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.5	1.0	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.5	1.0	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.5	1.0	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.5	1.0	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.5	1.0	ND	ug/L	U
2,3,4,6-Tetrachlorophenol	58-90-2	1	1.0	1.0	ND	ug/L	U
<i>Surrogate: 2-Fluorophenol</i>				33-120 %	48.8	%	
<i>Surrogate: Phenol-d5</i>				38-120 %	52.8	%	
<i>Surrogate: 2-Chlorophenol-d4</i>				41-120 %	61.5	%	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				20-120 %	66.7	%	
<i>Surrogate: Nitrobenzene-d5</i>				27-120 %	73.0	%	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 02/26/2025 15:45

Instrument: NT10 Analyst: JZ

Analyzed: 03/17/2025 16:16

Analyte	CAS Number	Recovery	Recovery	Units	Notes
		Limits			
Surrogate: 2-Fluorobiphenyl		33-120 %	73.9	%	
Surrogate: 2,4,6-Tribromophenol		52-120 %	74.6	%	
Surrogate: p-Terphenyl-d14		28-120 %	78.6	%	



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 02/26/2025 15:45

Instrument: NT14 Analyst: RT

Analyzed: 03/17/2025 21:02

Sample Preparation:

Preparation Method: EPA 3520C (Liq Liq)

Extract ID: 25B0568-05 G 01

Preparation Batch: BNC0077

Sample Size: 500 mL

Prepared: 03/05/2025

Final Volume: 1 mL

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
<i>Surrogate: 1,4-Dioxane-d8</i>				<i>30-160 %</i>	<i>74.6</i>	<i>%</i>	



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM

Sampled: 02/26/2025 15:45

Instrument: NT8 Analyst: JZ

Analyzed: 03/17/2025 17:33

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 25B0568-05 E 01

Preparation Batch: BNC0074

Sample Size: 500 mL

Prepared: 03/05/2025

Final Volume: 0.5 mL

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	0.011	ug/L	
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
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 % 94.2 %

Surrogate: Dibenzo[a,h]anthracene-d14

29-120 % 58.7 %

Surrogate: Fluoranthene-d10

57-120 % 109 % Q



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Chlorinated Pesticides

Method: EPA 8081B
Instrument: ECD6 Analyst: RT

Sampled: 02/26/2025 15:45

Analyzed: 03/08/2025 07:18

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BNC0075 Sample Size: 500 mL
Prepared: 03/05/2025 Final Volume: 5 mL

Extract ID: 25B0568-05 F 01

Sample Cleanup: Cleanup Method: Silica Gel
Cleanup Batch: CNC0022 Initial Volume: 5 uL
Cleaned: 06-Mar-2025 Final Volume: 5 uL

Extract ID: 25B0568-05 F 01

Sample Cleanup: Cleanup Method: Sulfur
Cleanup Batch: CNC0023 Initial Volume: 5 uL
Cleaned: 06-Mar-2025 Final Volume: 5 uL

Extract ID: 25B0568-05 F 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
alpha-BHC	319-84-6	1	0.013	0.025	ND	ug/L	U
beta-BHC	319-85-7	1	0.013	0.025	ND	ug/L	U
gamma-BHC (Lindane)	58-89-9	1	0.025	0.025	ND	ug/L	U
delta-BHC	319-86-8	1	0.013	0.025	ND	ug/L	U
Heptachlor	76-44-8	1	0.013	0.025	ND	ug/L	U
Aldrin	309-00-2	1	0.013	0.025	ND	ug/L	U
Heptachlor Epoxide	1024-57-3	1	0.025	0.050	ND	ug/L	U
trans-Chlordane (beta-Chlordane)	5103-74-2	1	0.013	0.025	ND	ug/L	U
cis-Chlordane (alpha-chlordane)	5103-71-9	1	0.013	0.025	ND	ug/L	U
Endosulfan I	959-98-8	1	0.013	0.025	ND	ug/L	U
4,4'-DDE	72-55-9	1	0.025	0.050	ND	ug/L	U
Endrin	72-20-8	1	0.025	0.050	ND	ug/L	U
Endosulfan II	33213-65-9	1	0.025	0.050	ND	ug/L	U
4,4'-DDD	72-54-8	1	0.025	0.050	ND	ug/L	U
Endrin Aldehyde	7421-93-4	1	0.025	0.050	ND	ug/L	U
4,4'-DDT	50-29-3	1	0.025	0.050	ND	ug/L	U
Endosulfan Sulfate	1031-07-8	1	0.025	0.050	ND	ug/L	U
Endrin Ketone	53494-70-5	1	0.025	0.050	ND	ug/L	U
Methoxychlor	72-43-5	1	0.125	0.250	ND	ug/L	U
Hexachlorobutadiene	87-68-3	1	0.025	0.050	ND	ug/L	U
Hexachlorobenzene	118-74-1	1	0.025	0.050	ND	ug/L	U
Oxychlordane	27304-13-8	1	0.050	0.050	ND	ug/L	U
Chlordane, technical	12789-03-6	1	0.100	0.100	ND	ug/L	U
Surrogate: Decachlorobiphenyl				11-144 %	40.0	%	
Surrogate: Decachlorobiphenyl [2C]				11-144 %	56.8	%	
Surrogate: Tetrachlorometaxylene				30-120 %	55.9	%	
Surrogate: Tetrachlorometaxylene [2C]				30-120 %	55.4	%	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Dioxins/Furans

Method: EPA 1613B			Sampled: 02/26/2025 15:45		
Instrument: AUTOSPEC01 Analyst: jgr			Analyzed: 03/23/2025 22:21		
Sample Preparation:	Preparation Method: EPA 1613	Extract ID: 25B0568-05 B 01			
	Preparation Batch: BNB0517				
	Prepared: 03/17/2025				
Sample Cleanup:	Cleanup Method: Silica Gel	Extract ID: 25B0568-05 B 01			
	Cleanup Batch: CNC0071				
	Cleaned: 18-Mar-2025				
Sample Cleanup:	Cleanup Method: Florisil	Extract ID: 25B0568-05 B 01			
	Cleanup Batch: CNC0072				
	Cleaned: 18-Mar-2025				

Analyte	DF/Split	Ion Ratio	Ratio Limits	Reporting		Result	Units	Notes
				EDL	Limit			
2,3,7,8-TCDF			0.655-0.886	1.68	10.9	ND	pg/L	U
2,3,7,8-TCDD			0.655-0.886	1.72	10.9	ND	pg/L	U
1,2,3,7,8-PeCDF			1.318-1.783	1.57	10.9	ND	pg/L	U
2,3,4,7,8-PeCDF			1.318-1.783	1.65	10.9	ND	pg/L	U
1,2,3,7,8-PeCDD			1.318-1.783	2.17	10.9	ND	pg/L	U
1,2,3,4,7,8-HxCDF			1.054-1.426	1.56	10.9	ND	pg/L	U
1,2,3,6,7,8-HxCDF			1.054-1.426	1.57	10.9	ND	pg/L	U
2,3,4,6,7,8-HxCDF			1.054-1.426	1.70	10.9	ND	pg/L	U
1,2,3,7,8,9-HxCDF			1.054-1.426	2.66	10.9	ND	pg/L	U
1,2,3,4,7,8-HxCDD			1.054-1.426	2.55	10.9	ND	pg/L	U
1,2,3,6,7,8-HxCDD			1.054-1.426	2.58	10.9	ND	pg/L	U
1,2,3,7,8,9-HxCDD			1.054-1.426	2.78	10.9	ND	pg/L	U
1,2,3,4,6,7,8-HpCDF			0.893-1.208	1.72	21.7	ND	pg/L	U
1,2,3,4,7,8,9-HpCDF			0.893-1.208	2.71	10.9	ND	pg/L	U
1,2,3,4,6,7,8-HpCDD			0.893-1.208	3.25	10.9	ND	pg/L	U
OCDF			0.757-1.024	5.93	21.7	ND	pg/L	U
OCDD			0.757-1.024	5.24	54.3	ND	pg/L	U

Homologue groups

Total TCDF					10.9	ND	pg/L	U
Total TCDD					10.9	ND	pg/L	U
Total PeCDF					10.9	ND	pg/L	U
Total PeCDD					10.9	ND	pg/L	U
Total HxCDF					10.9	ND	pg/L	U
Total HxCDD					10.9	ND	pg/L	U
Total HpCDF					10.9	ND	pg/L	U
Total HpCDD					10.9	ND	pg/L	U

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 3.11
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): 3.11
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: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Dioxins/Furans

Method: EPA 1613B

Sampled: 02/26/2025 15:45

Instrument: AUTOSPEC01 Analyst: jgr

Analyzed: 03/23/2025 22:21

Analyte	DF/Split	Ion Ratio	Ratio Limits	Reporting Limit	Result	Units	Notes
Labeled compounds							
13C12-2,3,7,8-TCDF		0.748	0.655-0.886	24-169 %	70.0	%	
13C12-2,3,7,8-TCDD		0.837	0.655-0.886	25-164 %	93.7	%	
13C12-1,2,3,7,8-PeCDF		1.610	1.318-1.783	24-185 %	78.7	%	
13C12-2,3,4,7,8-PeCDF		1.652	1.318-1.783	21-178 %	75.2	%	
13C12-1,2,3,7,8-PeCDD		1.594	1.318-1.783	25-181 %	82.9	%	
13C12-1,2,3,4,7,8-HxCDF		0.535	0.434-0.587	26-152 %	90.7	%	
13C12-1,2,3,6,7,8-HxCDF		0.518	0.434-0.587	26-123 %	96.3	%	
13C12-2,3,4,6,7,8-HxCDF		0.536	0.434-0.587	28-136 %	80.6	%	
13C12-1,2,3,7,8,9-HxCDF		0.559	0.434-0.587	29-147 %	78.9	%	
13C12-1,2,3,4,7,8-HxCDD		1.255	1.054-1.426	32-141 %	86.2	%	
13C12-1,2,3,6,7,8-HxCDD		1.194	1.054-1.426	28-130 %	94.6	%	
13C12-1,2,3,4,6,7,8-HpCDF		0.490	0.374-0.506	28-143 %	70.0	%	
13C12-1,2,3,4,7,8,9-HpCDF		0.460	0.374-0.506	26-138 %	64.5	%	
13C12-1,2,3,4,6,7,8-HpCDD		1.059	0.893-1.208	23-140 %	80.1	%	
13C12-OCDD		0.876	0.757-1.024	17-157 %	55.7	%	
37Cl4-2,3,7,8-TCDD				35-197 %	101	%	



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Project Number: [none]
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Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Dioxins/Furans

Method: EPA 1613B
Instrument: AUTOSPEC01 Analyst: jgr

Sampled: 02/26/2025 15:45
Analyzed: 03/23/2025 22:21

SMW-5D
25B0568-05 (Water)

Wet Chemistry

Method: EPA 325.2
Instrument: LACHAT2 Analyst: CB

Sampled: 02/26/2025 15:45
Analyzed: 03/11/2025 13:12

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BNC0221 Sample Size: 10 mL
Prepared: 03/11/2025 Final Volume: 10 mL
Extract ID: 25B0568-05 M

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	1	1.00	1.00	4.32	mg/L	



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Project Number: [none]
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Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 02/26/2025 15:45

Instrument: [CALC] Analyst: CB

Analyzed: 03/10/2025 15:50

Sample Preparation:

Preparation Method: [CALC]

Extract ID: 25B0568-05

Preparation Batch: [CALC]

Prepared: 03/10/2025

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-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 02/26/2025 15:45

Instrument: LACHAT2 Analyst: CB

Analyzed: 02/28/2025 17:34

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-05 M

Preparation Batch: BNB0602

Sample Size: 10 mL

Prepared: 02/28/2025

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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Project Number: [none]
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Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Wet Chemistry

Method: EPA 410.4

Sampled: 02/26/2025 15:45

Instrument: UV1800-1 Analyst: KOTT

Analyzed: 03/14/2025 08:47

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-05 P

Preparation Batch: BNC0296

Sample Size: 2 mL

Prepared: 03/13/2025

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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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Wet Chemistry

Method: EPA 9060A

Sampled: 02/26/2025 15:45

Instrument: TOC-LCSH Analyst: RMS

Analyzed: 03/13/2025 15:12

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-05 P

Preparation Batch: BNC0293

Sample Size: 20 mL

Prepared: 03/13/2025

Final Volume: 20 mL

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



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Wet Chemistry

Method: SM 2320 B-11

Sampled: 02/26/2025 15:45

Instrument: Accumet AB150 Analyst: UW

Analyzed: 03/05/2025 14:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-05 O

Preparation Batch: BNC0081

Sample Size: 100 mL

Prepared: 03/05/2025

Final Volume: 100 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Total		1	1.00	1.00	118	mg/L CaCO ₃	



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Wet Chemistry

Method: SM 2540 C-11

Sampled: 02/26/2025 15:45

Instrument: BAL2 Analyst: LM

Analyzed: 02/28/2025 16:41

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-05

Preparation Batch: BNB0605

Sample Size: 200 mL

Prepared: 02/28/2025

Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	5	5	207	mg/L	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Wet Chemistry

Method: SM 2540 D-11

Sampled: 02/26/2025 15:45

Instrument: BAL2 Analyst: LM

Analyzed: 02/28/2025 16:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-05

Preparation Batch: BNB0596

Sample Size: 720 mL

Prepared: 02/28/2025

Final Volume: 1000 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Suspended Solids		1	1	1	3	mg/L	



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Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05 (Water)

Wet Chemistry

Method: SM 4500-NH3 H-11

Sampled: 02/26/2025 15:45

Instrument: LACHAT1 Analyst: LERB

Analyzed: 03/04/2025 16:20

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-05 P

Preparation Batch: BNC0054

Sample Size: 10 mL

Prepared: 03/04/2025

Final Volume: 10 mL

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: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05RE1 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 02/26/2025 15:45

Instrument: LACHAT2 Analyst: CB

Analyzed: 03/10/2025 15:50

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-05RE1 P

Preparation Batch: BNC0200

Sample Size: 10 mL

Prepared: 03/10/2025

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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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-05RE1 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 02/26/2025 15:45

Instrument: LACHAT2 Analyst: CB

Analyzed: 03/11/2025 15:56

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-05RE1 M

Preparation Batch: BNC0243

Sample Size: 10 mL

Prepared: 03/11/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	2	4.00	4.00	27.4	mg/L	D



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-06 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D

Sampled: 02/26/2025 15:45

Instrument: ICP3 Analyst: SH

Analyzed: 03/12/2025 19:56

Sample Preparation:

Preparation Method: WMN (No Prep)

Extract ID: 25B0568-06 A 01

Preparation Batch: BNC0275

Sample Size: 25 mL

Prepared: 03/12/2025

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	26.0	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	7.23	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	5.93	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	20.4	mg/L	



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Project: Snipes MTN Landfill 2025
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Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-06 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B

Sampled: 02/26/2025 15:45

Instrument: ICPMS2 Analyst: HAL

Analyzed: 03/15/2025 03:38

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25B0568-06 A 02

Preparation Batch: BNC0307

Sample Size: 25 mL

Prepared: 03/13/2025

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic UCT, Dissolved	7440-38-2	1	0.100	0.200	8.63	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	15.5	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	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	1.81	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
Zinc UCT, Dissolved	7440-66-6	1	3.00	6.00	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-06 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A

Sampled: 02/26/2025 15:45

Instrument: HYDRA Analyst: ML

Analyzed: 03/13/2025 12:26

Sample Preparation:

Preparation Method: TWM EPA 7470A

Extract ID: 25B0568-06 A 01

Preparation Batch: BNC0247

Sample Size: 20 mL

Filtration Batch: BNB0597

Prepared: 03/11/2025

Final Volume: 20 mL

Filtration Date: 02/28/2025 15:19

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



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-06RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B

Sampled: 02/26/2025 15:45

Instrument: ICPMS2 Analyst: HAL

Analyzed: 03/19/2025 05:52

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25B0568-06RE1 A 02

Preparation Batch: BNC0424

Sample Size: 25 mL

Prepared: 03/18/2025

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	0.195	ug/L	J



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5D
25B0568-06RE2 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B

Sampled: 02/26/2025 15:45

Instrument: ICPMS2 Analyst: HAL

Analyzed: 03/19/2025 00:09

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25B0568-06RE2 A 02

Preparation Batch: BNC0307

Sample Size: 25 mL

Prepared: 03/13/2025

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	2.59	ug/L	D



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 02/27/2025 08:10

Instrument: NT20 Analyst: FL

Analyzed: 02/28/2025 21:19

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25B0568-07 R

Preparation Batch: BNB0588

Sample Size: 10 mL

Prepared: 02/28/2025

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	0.27	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



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 02/27/2025 08:10

Instrument: NT20 Analyst: FL

Analyzed: 02/28/2025 21:19

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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	1.11	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



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 02/27/2025 08:10

Instrument: NT20 Analyst: FL

Analyzed: 02/28/2025 21:19

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
2-Pentanone	107-87-9	1	2.50	5.00	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	107	%	
Surrogate: Toluene-d8				80-120 %	97.7	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	91.2	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	103	%	



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260D-SIM

Sampled: 02/27/2025 08:10

Instrument: NT16 Analyst: LN

Analyzed: 02/28/2025 18:01

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25B0568-07 Q

Preparation Batch: BNB0589

Sample Size: 10 mL

Prepared: 02/28/2025

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 %	108	%	
Surrogate: Toluene-d8				80-120 %	98.9	%	
Surrogate: 4-Bromofluorobenzene				75-125 %	95.5	%	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 02/27/2025 08:10

Instrument: NT10 Analyst: JZ

Analyzed: 03/17/2025 16:57

Sample Preparation:

Preparation Method: EPA 3520C (Liq Liq)

Extract ID: 25B0568-07 C 01

Preparation Batch: BNC0011

Sample Size: 500 mL

Prepared: 03/04/2025

Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Phenol	108-95-2	1	0.5	1.0	ND	ug/L	U
bis(2-chloroethyl) ether	111-44-4	1	0.5	1.0	ND	ug/L	U
2-Chlorophenol	95-57-8	1	0.5	1.0	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	1	0.5	1.0	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	1	0.5	1.0	ND	ug/L	U
Benzyl Alcohol	100-51-6	1	1.0	2.0	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	1	0.5	1.0	ND	ug/L	U
2-Methylphenol	95-48-7	1	0.5	1.0	ND	ug/L	U
2,2'-Oxybis(1-chloropropane)	108-60-1	1	1.0	1.0	ND	ug/L	U
4-Methylphenol	106-44-5	1	1.0	2.0	ND	ug/L	U
N-Nitroso-di-n-Propylamine	621-64-7	1	0.5	1.0	ND	ug/L	U
Hexachloroethane	67-72-1	1	1.0	2.0	ND	ug/L	U
Nitrobenzene	98-95-3	1	0.5	1.0	ND	ug/L	U
Isophorone	78-59-1	1	0.5	1.0	ND	ug/L	U
2-Nitrophenol	88-75-5	1	1.5	3.0	ND	ug/L	U
2,4-Dimethylphenol	105-67-9	1	1.5	3.0	ND	ug/L	U
Bis(2-Chloroethoxy)methane	111-91-1	1	1.0	1.0	ND	ug/L	U
Benzoic acid	65-85-0	1	5.0	10.0	ND	ug/L	U
2,4-Dichlorophenol	120-83-2	1	3.0	3.0	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	1	0.5	1.0	ND	ug/L	U
Naphthalene	91-20-3	1	0.5	1.0	ND	ug/L	U
4-Chloroaniline	106-47-8	1	2.5	5.0	ND	ug/L	U
Hexachlorobutadiene	87-68-3	1	1.5	3.0	ND	ug/L	U
4-Chloro-3-Methylphenol	59-50-7	1	3.0	3.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.5	1.0	ND	ug/L	U
Hexachlorocyclopentadiene	77-47-4	1	5.0	5.0	ND	ug/L	U
2,4,6-Trichlorophenol	88-06-2	1	3.0	3.0	ND	ug/L	U
2,4,5-Trichlorophenol	95-95-4	1	2.5	5.0	ND	ug/L	U
2-Chloronaphthalene	91-58-7	1	0.5	1.0	ND	ug/L	U
2-Nitroaniline	88-74-4	1	3.0	3.0	ND	ug/L	U
Dimethylphthalate	131-11-3	1	0.5	1.0	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.5	1.0	ND	ug/L	U
2,6-Dinitrotoluene	606-20-2	1	3.0	3.0	ND	ug/L	U
3-Nitroaniline	99-09-2	1	3.0	3.0	ND	ug/L	U
Acenaphthene	83-32-9	1	0.5	1.0	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 02/27/2025 08:10

Instrument: NT10 Analyst: JZ

Analyzed: 03/17/2025 16:57

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
2,4-Dinitrophenol	51-28-5	1	5.0	10.0	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.5	1.0	ND	ug/L	U
4-Nitrophenol	100-02-7	1	2.5	5.0	ND	ug/L	U
2,4-Dinitrotoluene	121-14-2	1	3.0	3.0	ND	ug/L	U
Fluorene	86-73-7	1	0.5	1.0	ND	ug/L	U
Diethyl phthalate	84-66-2	1	0.5	1.0	ND	ug/L	U
4-Chlorophenylphenyl ether	7005-72-3	1	0.5	1.0	ND	ug/L	U
4-Nitroaniline	100-01-6	1	3.0	3.0	ND	ug/L	U
4,6-Dinitro-2-methylphenol	534-52-1	1	5.0	10.0	ND	ug/L	U
N-Nitrosodiphenylamine	86-30-6	1	0.5	1.0	ND	ug/L	U
4-Bromophenyl phenyl ether	101-55-3	1	0.5	1.0	ND	ug/L	U
Hexachlorobenzene	118-74-1	1	0.5	1.0	ND	ug/L	U
Pentachlorophenol	87-86-5	1	5.0	5.0	ND	ug/L	U
Phenanthrene	85-01-8	1	0.5	1.0	ND	ug/L	U
Anthracene	120-12-7	1	0.5	1.0	ND	ug/L	U
Carbazole	86-74-8	1	1.0	1.0	ND	ug/L	U
Di-n-Butylphthalate	84-74-2	1	0.5	1.0	ND	ug/L	U
Fluoranthene	206-44-0	1	0.5	1.0	ND	ug/L	U
Pyrene	129-00-0	1	0.5	1.0	ND	ug/L	U
Butylbenzylphthalate	85-68-7	1	0.5	1.0	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.5	1.0	ND	ug/L	U
3,3'-Dichlorobenzidine	91-94-1	1	5.0	10.0	ND	ug/L	U
Chrysene	218-01-9	1	0.5	1.0	ND	ug/L	U
bis(2-Ethylhexyl)phthalate	117-81-7	1	3.0	3.0	ND	ug/L	U
Di-n-Octylphthalate	117-84-0	1	0.5	1.0	ND	ug/L	U
Benzo(a)fluoranthene, Total		1	1.0	2.0	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.5	1.0	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.5	1.0	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.5	1.0	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.5	1.0	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.5	1.0	ND	ug/L	U
2,3,4,6-Tetrachlorophenol	58-90-2	1	1.0	1.0	ND	ug/L	U
<i>Surrogate: 2-Fluorophenol</i>				33-120 %	52.8	%	
<i>Surrogate: Phenol-d5</i>				38-120 %	56.6	%	
<i>Surrogate: 2-Chlorophenol-d4</i>				41-120 %	60.2	%	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				20-120 %	67.9	%	
<i>Surrogate: Nitrobenzene-d5</i>				27-120 %	77.7	%	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 02/27/2025 08:10

Instrument: NT10 Analyst: JZ

Analyzed: 03/17/2025 16:57

Analyte	CAS Number	Recovery	Recovery	Units	Notes
		Limits			
Surrogate: 2-Fluorobiphenyl		33-120 %	74.6	%	
Surrogate: 2,4,6-Tribromophenol		52-120 %	80.1	%	
Surrogate: p-Terphenyl-d14		28-120 %	86.3	%	



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 02/27/2025 08:10

Instrument: NT14 Analyst: RT

Analyzed: 03/17/2025 21:26

Sample Preparation:

Preparation Method: EPA 3520C (Liq Liq)

Extract ID: 25B0568-07 G 01

Preparation Batch: BNC0077

Sample Size: 500 mL

Prepared: 03/05/2025

Final Volume: 1 mL

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
<i>Surrogate: 1,4-Dioxane-d8</i>				<i>30-160 %</i>	<i>69.8</i>	<i>%</i>	



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM

Sampled: 02/27/2025 08:10

Instrument: NT8 Analyst: JZ

Analyzed: 03/17/2025 18:04

Sample Preparation:

Preparation Method: EPA 3510C SepF
Preparation Batch: BNC0074
Prepared: 03/05/2025

Sample Size: 500 mL
Final Volume: 0.5 mL

Extract ID: 25B0568-07 E 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	0.039	ug/L	
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
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 % 98.8 %

Surrogate: Dibenzo[a,h]anthracene-d14

29-120 % 92.6 %

Surrogate: Fluoranthene-d10

57-120 % 119 % Q



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Chlorinated Pesticides

Method: EPA 8081B			Sampled: 02/27/2025 08:10
Instrument: ECD6 Analyst: RT			Analyzed: 03/08/2025 07:36
Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 25B0568-07 F 01
	Preparation Batch: BNC0075		
	Sample Size: 500 mL		
	Prepared: 03/05/2025	Final Volume: 5 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 25B0568-07 F 01
	Cleanup Batch: CNC0022		
	Initial Volume: 5 uL		
	Cleaned: 06-Mar-2025	Final Volume: 5 uL	
Sample Cleanup:	Cleanup Method: Sulfur		Extract ID:25B0568-07 F 01
	Cleanup Batch: CNC0023		
	Initial Volume: 5 uL		
	Cleaned: 06-Mar-2025	Final Volume: 5 uL	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
alpha-BHC	319-84-6	1	0.013	0.025	ND	ug/L	U
beta-BHC	319-85-7	1	0.013	0.025	ND	ug/L	U
gamma-BHC (Lindane)	58-89-9	1	0.025	0.025	ND	ug/L	U
delta-BHC	319-86-8	1	0.013	0.025	ND	ug/L	U
Heptachlor	76-44-8	1	0.013	0.025	ND	ug/L	U
Aldrin	309-00-2	1	0.013	0.025	ND	ug/L	U
Heptachlor Epoxide	1024-57-3	1	0.025	0.050	ND	ug/L	U
trans-Chlordane (beta-Chlordane)	5103-74-2	1	0.013	0.025	ND	ug/L	U
cis-Chlordane (alpha-chlordane)	5103-71-9	1	0.013	0.025	ND	ug/L	U
Endosulfan I	959-98-8	1	0.013	0.025	ND	ug/L	U
4,4'-DDE	72-55-9	1	0.025	0.050	ND	ug/L	U
Endrin	72-20-8	1	0.025	0.050	ND	ug/L	U
Endosulfan II	33213-65-9	1	0.025	0.050	ND	ug/L	U
4,4'-DDD	72-54-8	1	0.025	0.050	ND	ug/L	U
Endrin Aldehyde	7421-93-4	1	0.025	0.050	ND	ug/L	U
4,4'-DDT	50-29-3	1	0.025	0.050	ND	ug/L	U
Endosulfan Sulfate	1031-07-8	1	0.025	0.050	ND	ug/L	U
Endrin Ketone	53494-70-5	1	0.025	0.050	ND	ug/L	U
Methoxychlor	72-43-5	1	0.125	0.250	ND	ug/L	U
Hexachlorobutadiene	87-68-3	1	0.025	0.050	ND	ug/L	U
Hexachlorobenzene	118-74-1	1	0.025	0.050	ND	ug/L	U
Oxychlordane	27304-13-8	1	0.050	0.050	ND	ug/L	U
Chlordane, technical	12789-03-6	1	0.100	0.100	ND	ug/L	U
Surrogate: Decachlorobiphenyl				11-144 %	80.0	%	
Surrogate: Decachlorobiphenyl [2C]				11-144 %	107	%	
Surrogate: Tetrachlorometaxylene				30-120 %	87.3	%	
Surrogate: Tetrachlorometaxylene [2C]				30-120 %	75.2	%	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Dioxins/Furans

Method: EPA 1613B			Sampled: 02/27/2025 08:10		
Instrument: AUTOSPEC01 Analyst: jgr			Analyzed: 03/23/2025 23:10		
Sample Preparation:	Preparation Method: EPA 1613			Extract ID: 25B0568-07 B 01	
	Preparation Batch: BNB0517	Sample Size: 690 mL			
	Prepared: 03/17/2025	Final Volume: 20 uL			
Sample Cleanup:	Cleanup Method: Silica Gel			Extract ID: 25B0568-07 B 01	
	Cleanup Batch: CNC0071	Initial Volume: 20 uL			
	Cleaned: 18-Mar-2025	Final Volume: 20 uL			
Sample Cleanup:	Cleanup Method: Florisil			Extract ID: 25B0568-07 B 01	
	Cleanup Batch: CNC0072	Initial Volume: 20 uL			
	Cleaned: 18-Mar-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	2.06	14.5	ND	pg/L	U
2,3,7,8-TCDD			0.655-0.886	1.89	14.5	ND	pg/L	U
1,2,3,7,8-PeCDF			1.318-1.783	1.94	14.5	ND	pg/L	U
2,3,4,7,8-PeCDF			1.318-1.783	2.03	14.5	ND	pg/L	U
1,2,3,7,8-PeCDD			1.318-1.783	2.38	14.5	ND	pg/L	U
1,2,3,4,7,8-HxCDF			1.054-1.426	1.66	14.5	ND	pg/L	U
1,2,3,6,7,8-HxCDF			1.054-1.426	1.61	14.5	ND	pg/L	U
2,3,4,6,7,8-HxCDF			1.054-1.426	1.67	14.5	ND	pg/L	U
1,2,3,7,8,9-HxCDF			1.054-1.426	2.72	14.5	ND	pg/L	U
1,2,3,4,7,8-HxCDD			1.054-1.426	3.53	14.5	ND	pg/L	U
1,2,3,6,7,8-HxCDD			1.054-1.426	3.53	14.5	ND	pg/L	U
1,2,3,7,8,9-HxCDD			1.054-1.426	3.82	14.5	ND	pg/L	U
1,2,3,4,6,7,8-HpCDF			0.893-1.208	2.37	29.0	ND	pg/L	U
1,2,3,4,7,8,9-HpCDF			0.893-1.208	3.69	14.5	ND	pg/L	U
1,2,3,4,6,7,8-HpCDD			0.893-1.208	4.48	14.5	ND	pg/L	U
OCDF			0.757-1.024	6.93	29.0	ND	pg/L	U
OCDD			0.757-1.024	8.01	72.5	ND	pg/L	U

Homologue groups

Total TCDF					14.5	ND	pg/L	U
Total TCDD					14.5	ND	pg/L	U
Total PeCDF					14.5	ND	pg/L	U
Total PeCDD					14.5	ND	pg/L	U
Total HxCDF					14.5	ND	pg/L	U
Total HxCDD					14.5	ND	pg/L	U
Total HpCDF					14.5	ND	pg/L	U
Total HpCDD					14.5	ND	pg/L	U

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 3.55
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): 3.55
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: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Dioxins/Furans

Method: EPA 1613B

Sampled: 02/27/2025 08:10

Instrument: AUTOSPEC01 Analyst: jgr

Analyzed: 03/23/2025 23:10

Analyte	DF/Split	Ion Ratio	Ratio Limits	Reporting Limit	Result	Units	Notes
Labeled compounds							
13C12-2,3,7,8-TCDF		0.751	0.655-0.886	24-169 %	77.3	%	
13C12-2,3,7,8-TCDD		0.790	0.655-0.886	25-164 %	99.6	%	
13C12-1,2,3,7,8-PeCDF		1.593	1.318-1.783	24-185 %	85.4	%	
13C12-2,3,4,7,8-PeCDF		1.650	1.318-1.783	21-178 %	84.1	%	
13C12-1,2,3,7,8-PeCDD		1.724	1.318-1.783	25-181 %	88.9	%	
13C12-1,2,3,4,7,8-HxCDF		0.524	0.434-0.587	26-152 %	99.0	%	
13C12-1,2,3,6,7,8-HxCDF		0.529	0.434-0.587	26-123 %	104	%	
13C12-2,3,4,6,7,8-HxCDF		0.504	0.434-0.587	28-136 %	90.4	%	
13C12-1,2,3,7,8,9-HxCDF		0.528	0.434-0.587	29-147 %	88.4	%	
13C12-1,2,3,4,7,8-HxCDD		1.248	1.054-1.426	32-141 %	94.6	%	
13C12-1,2,3,6,7,8-HxCDD		1.203	1.054-1.426	28-130 %	105	%	
13C12-1,2,3,4,6,7,8-HpCDF		0.506	0.374-0.506	28-143 %	74.2	%	
13C12-1,2,3,4,7,8,9-HpCDF		0.443	0.374-0.506	26-138 %	71.0	%	
13C12-1,2,3,4,6,7,8-HpCDD		1.085	0.893-1.208	23-140 %	86.4	%	
13C12-OCDD		0.915	0.757-1.024	17-157 %	61.6	%	
37Cl4-2,3,7,8-TCDD				35-197 %	101	%	



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Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Dioxins/Furans

Method: EPA 1613B
Instrument: AUTOSPEC01 Analyst: jgr

Sampled: 02/27/2025 08:10
Analyzed: 03/23/2025 23:10

SMW-5S
25B0568-07 (Water)

Wet Chemistry

Method: EPA 353.2
Instrument: [CALC] Analyst: CB

Sampled: 02/27/2025 08:10
Analyzed: 03/10/2025 15:51

Sample Preparation: Preparation Method: [CALC] Extract ID: 25B0568-07
Preparation Batch: [CALC]
Prepared: 03/10/2025 Final Volume: 1

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.0200	0.488	mg/L	



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Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 02/27/2025 08:10

Instrument: LACHAT2 Analyst: CB

Analyzed: 02/28/2025 17:35

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-07 M

Preparation Batch: BNB0602

Sample Size: 10 mL

Prepared: 02/28/2025

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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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Wet Chemistry

Method: EPA 410.4

Sampled: 02/27/2025 08:10

Instrument: UV1800-1 Analyst: KOTT

Analyzed: 03/14/2025 08:48

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-07 P

Preparation Batch: BNC0296

Sample Size: 2 mL

Prepared: 03/13/2025

Final Volume: 2 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
COD		1	10.0	10.0	27.9	mg/L	



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Wet Chemistry

Method: EPA 9060A

Sampled: 02/27/2025 08:10

Instrument: TOC-LCSH Analyst: RMS

Analyzed: 03/13/2025 15:37

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-07 P

Preparation Batch: BNC0293

Sample Size: 20 mL

Prepared: 03/13/2025

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	5.26	mg/L	



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Wet Chemistry

Method: SM 2320 B-11

Sampled: 02/27/2025 08:10

Instrument: Accumet AB150 Analyst: UW

Analyzed: 03/05/2025 14:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-07 O

Preparation Batch: BNC0081

Sample Size: 100 mL

Prepared: 03/05/2025

Final Volume: 100 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Total		1	1.00	1.00	153	mg/L CaCO ₃	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Wet Chemistry

Method: SM 2540 C-11

Sampled: 02/27/2025 08:10

Instrument: BAL2 Analyst: LM

Analyzed: 02/28/2025 16:41

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-07

Preparation Batch: BNB0605

Sample Size: 100 mL

Prepared: 02/28/2025

Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	306	mg/L	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Wet Chemistry

Method: SM 2540 D-11

Sampled: 02/27/2025 08:10

Instrument: BAL2 Analyst: LM

Analyzed: 02/28/2025 16:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-07

Preparation Batch: BNB0596

Sample Size: 380 mL

Prepared: 02/28/2025

Final Volume: 1000 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Suspended Solids		1	3	3	11	mg/L	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07 (Water)

Wet Chemistry

Method: SM 4500-NH3 H-11

Sampled: 02/27/2025 08:10

Instrument: LACHAT1 Analyst: LERB

Analyzed: 03/04/2025 16:21

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-07 P

Preparation Batch: BNC0054

Sample Size: 10 mL

Prepared: 03/04/2025

Final Volume: 10 mL

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: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07RE1 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 02/27/2025 08:10

Instrument: LACHAT2 Analyst: CB

Analyzed: 03/11/2025 13:50

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-07RE1 M

Preparation Batch: BNC0221

Sample Size: 10 mL

Prepared: 03/11/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	5	5.00	5.00	35.6	mg/L	D



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07RE1 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 02/27/2025 08:10

Instrument: LACHAT2 Analyst: CB

Analyzed: 03/10/2025 15:51

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-07RE1 P

Preparation Batch: BNC0200

Sample Size: 10 mL

Prepared: 03/10/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate + Nitrite as N		1	0.010	0.010	0.488	mg/L	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-07RE1 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 02/27/2025 08:10

Instrument: LACHAT2 Analyst: CB

Analyzed: 03/11/2025 15:57

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25B0568-07RE1 M

Preparation Batch: BNC0243

Sample Size: 10 mL

Prepared: 03/11/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	5	10.0	10.0	72.5	mg/L	D



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
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SMW-5S
25B0568-08 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 02/27/2025 08:10

Analyzed: 03/12/2025 19:59

Sample Preparation: Preparation Method: WMN (No Prep) Sample Size: 25 mL
Preparation Batch: BNC0275 Final Volume: 25 mL
Prepared: 03/12/2025 Extract ID: 25B0568-08 A 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	45.5	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	13.5	mg/L	
Manganese, Dissolved	7439-96-5	1	0.0020	0.0040	0.184	mg/L	
Potassium, Dissolved	7440-09-7	1	0.250	0.500	3.95	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	22.0	mg/L	



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-08 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B

Sampled: 02/27/2025 08:10

Instrument: ICPMS2 Analyst: HAL

Analyzed: 03/15/2025 03:33

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25B0568-08 A 02

Preparation Batch: BNC0307

Sample Size: 25 mL

Prepared: 03/13/2025

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic UCT, Dissolved	7440-38-2	1	0.100	0.200	4.94	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	9.52	ug/L	
Cadmium UCT, Dissolved	7440-43-9	1	0.0500	0.100	0.102	ug/L	
Copper UCT, Dissolved	7440-50-8	1	0.200	0.500	1.14	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	1.13	ug/L	
Silver, Dissolved	7440-22-4	1	0.100	0.200	ND	ug/L	U
Zinc UCT, Dissolved	7440-66-6	1	3.00	6.00	15.1	ug/L	



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-08 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A	Sampled: 02/27/2025 08:10	
Instrument: HYDRA Analyst: ML	Analyzed: 03/13/2025 12:33	
Sample Preparation:	Preparation Method: TWM EPA 7470A	Extract ID: 25B0568-08 A 01
	Preparation Batch: BNC0247	Filtration Batch: BNB0597
	Prepared: 03/11/2025	Filtration Date: 02/28/2025 15:19
	Sample Size: 20 mL	
	Final Volume: 20 mL	

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



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
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SMW-5S
25B0568-08RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B

Sampled: 02/27/2025 08:10

Instrument: ICPMS2 Analyst: HAL

Analyzed: 03/19/2025 05:47

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25B0568-08RE1 A 02

Preparation Batch: BNC0424

Sample Size: 25 mL

Prepared: 03/18/2025

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	0.667	ug/L	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

SMW-5S
25B0568-08RE2 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B

Sampled: 02/27/2025 08:10

Instrument: ICPMS2 Analyst: HAL

Analyzed: 03/18/2025 23:10

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25B0568-08RE2 A 02

Preparation Batch: BNC0307

Sample Size: 25 mL

Prepared: 03/13/2025

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic UCT, Dissolved	7440-38-2	10	1.00	2.00	4.98	ug/L	D
Chromium, Dissolved	7440-47-3	10	3.75	5.00	13.2	ug/L	D
Nickel UCT, Dissolved	7440-02-0	10	2.50	5.00	784	ug/L	D



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNB0588 - EPA 8260D

Instrument: NT20 Analyst: FL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNB0588-BLK1)										
Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 14:02										
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



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNB0588 - EPA 8260D

Instrument: NT20 Analyst: FL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNB0588-BLK1)						Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 14:02					
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
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



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
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Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNB0588 - EPA 8260D

Instrument: NT20 Analyst: FL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNB0588-BLK1)											
						Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 14:02					
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	4.96			ug/L	5.00		99.1	80-129			
Surrogate: Toluene-d8	4.89			ug/L	5.00		97.8	80-120			
Surrogate: 4-Bromofluorobenzene	4.73			ug/L	5.00		94.6	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.94			ug/L	5.00		98.8	80-120			



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Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNB0588 - EPA 8260D

Instrument: NT20 Analyst: FL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNB0588-BS1)						Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 12:10					
Chloromethane	9.08	0.50	0.50	ug/L	10.0		90.8	60-138			
Vinyl Chloride	8.59	0.10	0.20	ug/L	10.0		85.9	66-133			
Bromomethane	9.57	1.00	1.00	ug/L	10.0		95.7	72-131			
Chloroethane	10.0	0.20	0.20	ug/L	10.0		100	60-155			
Trichlorofluoromethane	9.68	0.20	0.20	ug/L	10.0		96.8	62-141			
Acrolein	51.8	5.00	5.00	ug/L	50.0		104	52-190			
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.2	0.20	0.20	ug/L	10.0		102	76-129			
Acetone	53.2	5.00	5.00	ug/L	50.0		106	58-142			
1,1-Dichloroethene	11.0	0.10	0.20	ug/L	10.0		110	69-135			
Iodomethane	9.69	0.50	1.00	ug/L	10.0		96.9	56-147			
Methylene Chloride	10.1	1.00	1.00	ug/L	10.0		101	65-135			
Acrylonitrile	10.4	0.50	1.00	ug/L	10.0		104	64-134			
Carbon Disulfide	9.79	0.20	0.20	ug/L	10.0		97.9	78-125			
trans-1,2-Dichloroethene	10.7	0.10	0.20	ug/L	10.0		107	78-128			
Vinyl Acetate	10.6	0.20	0.20	ug/L	10.0		106	55-138			
1,1-Dichloroethane	10.8	0.10	0.20	ug/L	10.0		108	76-124			
2-Butanone	53.3	2.50	5.00	ug/L	50.0		107	61-140			
2,2-Dichloropropane	11.5	0.20	0.20	ug/L	10.0		115	66-147			
cis-1,2-Dichloroethene	10.9	0.10	0.20	ug/L	10.0		109	80-121			
Chloroform	10.3	0.10	0.20	ug/L	10.0		103	80-122			
Bromochloromethane	10.5	0.10	0.20	ug/L	10.0		105	80-121			
1,1,1-Trichloroethane	10.7	0.10	0.20	ug/L	10.0		107	79-123			
1,1-Dichloropropene	10.4	0.10	0.20	ug/L	10.0		104	80-127			
Carbon tetrachloride	10.2	0.10	0.20	ug/L	10.0		102	53-137			
1,2-Dichloroethane	9.98	0.10	0.20	ug/L	10.0		99.8	75-123			
Benzene	10.8	0.10	0.20	ug/L	10.0		108	80-120			
Trichloroethene	10.4	0.10	0.20	ug/L	10.0		104	80-120			
1,2-Dichloropropane	10.4	0.10	0.20	ug/L	10.0		104	80-120			
Bromodichloromethane	10.2	0.10	0.20	ug/L	10.0		102	80-121			
Dibromomethane	10.7	0.10	0.20	ug/L	10.0		107	80-120			
2-Chloroethyl vinyl ether	9.70	1.00	1.00	ug/L	10.0		97.0	64-120			
4-Methyl-2-Pentanone	51.8	2.50	5.00	ug/L	50.0		104	67-133			
cis-1,3-Dichloropropene	10.3	0.10	0.20	ug/L	10.0		103	80-124			
Toluene	10.2	0.10	0.20	ug/L	10.0		102	80-120			
trans-1,3-Dichloropropene	10.8	0.10	0.20	ug/L	10.0		108	71-127			



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNB0588 - EPA 8260D

Instrument: NT20 Analyst: FL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNB0588-BS1)						Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 12:10					
2-Hexanone	51.4	2.50	5.00	ug/L	50.0		103	69-133			
1,1,2-Trichloroethane	10.3	0.20	0.20	ug/L	10.0		103	80-121			
1,3-Dichloropropane	9.92	0.10	0.20	ug/L	10.0		99.2	80-120			
Tetrachloroethene	10.2	0.10	0.20	ug/L	10.0		102	80-120			
Dibromochloromethane	10.1	0.10	0.20	ug/L	10.0		101	65-135			
1,2-Dibromoethane	10.4	0.10	0.20	ug/L	10.0		104	80-121			
Chlorobenzene	10.0	0.10	0.20	ug/L	10.0		100	80-120			
Ethylbenzene	10.4	0.10	0.20	ug/L	10.0		104	80-120			
1,1,1,2-Tetrachloroethane	9.82	0.10	0.20	ug/L	10.0		98.2	80-120			
m,p-Xylene	20.7	0.20	0.40	ug/L	20.0		104	80-121			
o-Xylene	10.3	0.10	0.20	ug/L	10.0		103	80-121			
Xylenes, total	31.0	0.30	0.60	ug/L	30.0		103	76-127			
Styrene	10.6	0.10	0.20	ug/L	10.0		106	80-124			
Bromoform	10.6	0.20	0.20	ug/L	10.0		106	51-134			
1,1,2,2-Tetrachloroethane	9.66	0.20	0.20	ug/L	10.0		96.6	77-123			
1,2,3-Trichloropropane	8.84	0.25	0.50	ug/L	10.0		88.4	76-125			
trans-1,4-Dichloro 2-Butene	9.05	1.00	1.00	ug/L	10.0		90.5	55-129			
n-Propylbenzene	9.91	0.10	0.20	ug/L	10.0		99.1	78-130			
Bromobenzene	9.63	0.10	0.20	ug/L	10.0		96.3	80-120			
Isopropyl Benzene	9.81	0.10	0.20	ug/L	10.0		98.1	80-128			
2-Chlorotoluene	9.51	0.10	0.20	ug/L	10.0		95.1	78-122			
4-Chlorotoluene	9.75	0.10	0.20	ug/L	10.0		97.5	80-121			
t-Butylbenzene	9.62	0.10	0.20	ug/L	10.0		96.2	78-125			
1,3,5-Trimethylbenzene	9.90	0.10	0.20	ug/L	10.0		99.0	80-129			
1,2,4-Trimethylbenzene	10.3	0.10	0.20	ug/L	10.0		103	80-127			
s-Butylbenzene	9.83	0.10	0.20	ug/L	10.0		98.3	78-129			
4-Isopropyl Toluene	10.1	0.10	0.20	ug/L	10.0		101	79-130			
1,3-Dichlorobenzene	9.40	0.10	0.20	ug/L	10.0		94.0	80-120			
1,4-Dichlorobenzene	9.28	0.20	0.20	ug/L	10.0		92.8	80-120			
n-Butylbenzene	10.1	0.20	0.20	ug/L	10.0		101	74-129			
1,2-Dichlorobenzene	9.32	0.10	0.20	ug/L	10.0		93.2	80-120			
1,2-Dibromo-3-chloropropane	8.87	0.50	0.50	ug/L	10.0		88.7	62-123			
1,2,4-Trichlorobenzene	9.44	0.25	0.50	ug/L	10.0		94.4	64-124			
Hexachloro-1,3-Butadiene	8.88	0.50	0.50	ug/L	10.0		88.8	65-145			
Naphthalene	9.82	0.50	0.50	ug/L	10.0		98.2	50-134			



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNB0588 - EPA 8260D

Instrument: NT20 Analyst: FL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNB0588-BS1)											
Prepared: 28-Feb-2025						Analyzed: 28-Feb-2025 12:10					
1,2,3-Trichlorobenzene	9.42	0.50	0.50	ug/L	10.0		94.2	49-133			
Dichlorodifluoromethane	6.69	0.20	0.20	ug/L	10.0		66.9	48-147			Q
Methyl tert-butyl Ether	10.5	0.25	0.50	ug/L	10.0		105	71-132			
2-Pentanone	51.8	2.50	5.00	ug/L	50.0		104	69-134			
Surrogate: 1,2-Dichloroethane-d4	4.89			ug/L	5.00		97.8	80-129			
Surrogate: Toluene-d8	4.97			ug/L	5.00		99.4	80-120			
Surrogate: 4-Bromofluorobenzene	5.04			ug/L	5.00		101	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.94			ug/L	5.00		98.8	80-120			



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Project Number: [none]
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Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNB0588 - EPA 8260D

Instrument: NT20 Analyst: FL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BNB0588-BSD1)						Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 12:56					
Chloromethane	9.36	0.50	0.50	ug/L	10.0		93.6	60-138	2.95	30	
Vinyl Chloride	8.90	0.10	0.20	ug/L	10.0		89.0	66-133	3.50	30	
Bromomethane	10.1	1.00	1.00	ug/L	10.0		101	72-131	5.43	30	
Chloroethane	10.7	0.20	0.20	ug/L	10.0		107	60-155	6.98	30	
Trichlorofluoromethane	9.98	0.20	0.20	ug/L	10.0		99.8	62-141	3.06	30	
Acrolein	53.7	5.00	5.00	ug/L	50.0		107	52-190	3.45	30	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.5	0.20	0.20	ug/L	10.0		105	76-129	3.74	30	
Acetone	54.4	5.00	5.00	ug/L	50.0		109	58-142	2.14	30	
1,1-Dichloroethene	11.5	0.10	0.20	ug/L	10.0		115	69-135	4.33	30	
Iodomethane	10.2	0.50	1.00	ug/L	10.0		102	56-147	4.82	30	
Methylene Chloride	10.8	1.00	1.00	ug/L	10.0		108	65-135	6.40	30	
Acrylonitrile	10.9	0.50	1.00	ug/L	10.0		109	64-134	4.59	30	
Carbon Disulfide	10.3	0.20	0.20	ug/L	10.0		103	78-125	4.99	30	
trans-1,2-Dichloroethene	11.2	0.10	0.20	ug/L	10.0		112	78-128	5.04	30	
Vinyl Acetate	11.5	0.20	0.20	ug/L	10.0		115	55-138	8.55	30	
1,1-Dichloroethane	11.3	0.10	0.20	ug/L	10.0		113	76-124	3.92	30	
2-Butanone	56.2	2.50	5.00	ug/L	50.0		112	61-140	5.12	30	
2,2-Dichloropropane	12.0	0.20	0.20	ug/L	10.0		120	66-147	3.72	30	
cis-1,2-Dichloroethene	11.4	0.10	0.20	ug/L	10.0		114	80-121	3.85	30	
Chloroform	11.0	0.10	0.20	ug/L	10.0		110	80-122	6.14	30	
Bromochloromethane	11.3	0.10	0.20	ug/L	10.0		113	80-121	7.61	30	
1,1,1-Trichloroethane	9.97	0.10	0.20	ug/L	10.0		99.7	79-123	6.86	30	
1,1-Dichloropropene	11.1	0.10	0.20	ug/L	10.0		111	80-127	6.28	30	
Carbon tetrachloride	10.3	0.10	0.20	ug/L	10.0		103	53-137	1.00	30	
1,2-Dichloroethane	10.8	0.10	0.20	ug/L	10.0		108	75-123	7.46	30	
Benzene	11.6	0.10	0.20	ug/L	10.0		116	80-120	6.39	30	
Trichloroethene	10.9	0.10	0.20	ug/L	10.0		109	80-120	5.27	30	
1,2-Dichloropropane	11.0	0.10	0.20	ug/L	10.0		110	80-120	5.85	30	
Bromodichloromethane	10.7	0.10	0.20	ug/L	10.0		107	80-121	5.12	30	
Dibromomethane	11.6	0.10	0.20	ug/L	10.0		116	80-120	8.39	30	
2-Chloroethyl vinyl ether	10.9	1.00	1.00	ug/L	10.0		109	64-120	11.30	30	
4-Methyl-2-Pentanone	56.7	2.50	5.00	ug/L	50.0		113	67-133	9.04	30	
cis-1,3-Dichloropropene	11.0	0.10	0.20	ug/L	10.0		110	80-124	7.08	30	
Toluene	10.7	0.10	0.20	ug/L	10.0		107	80-120	5.58	30	
trans-1,3-Dichloropropene	11.5	0.10	0.20	ug/L	10.0		115	71-127	5.56	30	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNB0588 - EPA 8260D

Instrument: NT20 Analyst: FL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BNB0588-BSD1)						Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 12:56					
2-Hexanone	56.2	2.50	5.00	ug/L	50.0		112	69-133	8.83	30	
1,1,2-Trichloroethane	11.4	0.20	0.20	ug/L	10.0		114	80-121	9.40	30	
1,3-Dichloropropane	10.8	0.10	0.20	ug/L	10.0		108	80-120	8.36	30	
Tetrachloroethene	10.9	0.10	0.20	ug/L	10.0		109	80-120	6.20	30	
Dibromochloromethane	10.9	0.10	0.20	ug/L	10.0		109	65-135	7.98	30	
1,2-Dibromoethane	11.4	0.10	0.20	ug/L	10.0		114	80-121	9.39	30	
Chlorobenzene	10.7	0.10	0.20	ug/L	10.0		107	80-120	6.93	30	
Ethylbenzene	11.2	0.10	0.20	ug/L	10.0		112	80-120	7.85	30	
1,1,1,2-Tetrachloroethane	10.4	0.10	0.20	ug/L	10.0		104	80-120	6.13	30	
m,p-Xylene	22.3	0.20	0.40	ug/L	20.0		111	80-121	7.14	30	
o-Xylene	10.9	0.10	0.20	ug/L	10.0		109	80-121	6.46	30	
Xylenes, total	33.2	0.30	0.60	ug/L	30.0		111	76-127	6.92	30	
Styrene	11.5	0.10	0.20	ug/L	10.0		115	80-124	8.23	30	
Bromoform	11.9	0.20	0.20	ug/L	10.0		119	51-134	11.80	30	
1,1,2,2-Tetrachloroethane	11.1	0.20	0.20	ug/L	10.0		111	77-123	14.10	30	
1,2,3-Trichloropropane	10.2	0.25	0.50	ug/L	10.0		102	76-125	14.50	30	
trans-1,4-Dichloro 2-Butene	10.3	1.00	1.00	ug/L	10.0		103	55-129	13.20	30	
n-Propylbenzene	11.0	0.10	0.20	ug/L	10.0		110	78-130	10.30	30	
Bromobenzene	10.7	0.10	0.20	ug/L	10.0		107	80-120	10.80	30	
Isopropyl Benzene	11.0	0.10	0.20	ug/L	10.0		110	80-128	11.10	30	
2-Chlorotoluene	10.6	0.10	0.20	ug/L	10.0		106	78-122	10.50	30	
4-Chlorotoluene	10.7	0.10	0.20	ug/L	10.0		107	80-121	9.44	30	
t-Butylbenzene	10.7	0.10	0.20	ug/L	10.0		107	78-125	10.30	30	
1,3,5-Trimethylbenzene	10.9	0.10	0.20	ug/L	10.0		109	80-129	9.92	30	
1,2,4-Trimethylbenzene	11.4	0.10	0.20	ug/L	10.0		114	80-127	10.50	30	
s-Butylbenzene	10.8	0.10	0.20	ug/L	10.0		108	78-129	9.45	30	
4-Isopropyl Toluene	11.0	0.10	0.20	ug/L	10.0		110	79-130	8.75	30	
1,3-Dichlorobenzene	10.5	0.10	0.20	ug/L	10.0		105	80-120	11.10	30	
1,4-Dichlorobenzene	10.3	0.20	0.20	ug/L	10.0		103	80-120	10.60	30	
n-Butylbenzene	11.0	0.20	0.20	ug/L	10.0		110	74-129	8.21	30	
1,2-Dichlorobenzene	10.4	0.10	0.20	ug/L	10.0		104	80-120	11.30	30	
1,2-Dibromo-3-chloropropane	10.1	0.50	0.50	ug/L	10.0		101	62-123	12.80	30	
1,2,4-Trichlorobenzene	10.4	0.25	0.50	ug/L	10.0		104	64-124	9.75	30	
Hexachloro-1,3-Butadiene	9.71	0.50	0.50	ug/L	10.0		97.1	65-145	8.98	30	
Naphthalene	9.39	0.50	0.50	ug/L	10.0		93.9	50-134	4.56	30	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
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Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNB0588 - EPA 8260D

Instrument: NT20 Analyst: FL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BNB0588-BSD1)											
						Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 12:56					
1,2,3-Trichlorobenzene	10.2	0.50	0.50	ug/L	10.0		102	49-133	7.51	30	
Dichlorodifluoromethane	6.95	0.20	0.20	ug/L	10.0		69.5	48-147	3.85	30	Q
Methyl tert-butyl Ether	11.0	0.25	0.50	ug/L	10.0		110	71-132	3.92	30	
2-Pentanone	56.1	2.50	5.00	ug/L	50.0		112	69-134	8.02	30	
Surrogate: 1,2-Dichloroethane-d4	4.91			ug/L	5.00		98.1	80-129			
Surrogate: Toluene-d8	5.01			ug/L	5.00		100	80-120			
Surrogate: 4-Bromofluorobenzene	5.07			ug/L	5.00		101	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.11			ug/L	5.00		102	80-120			



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Project Number: [none]
Project Manager: Eric Cutler

Reported:
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Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - SIM - Quality Control

Batch BNB0589 - EPA 8260D-SIM

Instrument: NT16 Analyst: LN

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNB0589-BLK1)						Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 12:46					
Vinyl chloride	ND	10.0	20.0	ng/L							U
Surrogate: 1,2-Dichloroethane-d4	5240			ng/L	5000		105	80-129			
Surrogate: Toluene-d8	4890			ng/L	5000		97.7	80-120			
Surrogate: 4-Bromofluorobenzene	4730			ng/L	5000		94.5	75-125			



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Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - SIM - Quality Control

Batch BNB0589 - EPA 8260D-SIM

Instrument: NT16 Analyst: LN

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BNB0589-BS1)					Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 11:45					
Vinyl chloride	2010	10.0	20.0	ng/L	2000	101	62-141			
Surrogate: 1,2-Dichloroethane-d4	5360			ng/L	5000	107	80-129			
Surrogate: Toluene-d8	4900			ng/L	5000	97.9	80-120			
Surrogate: 4-Bromofluorobenzene	5200			ng/L	5000	104	75-125			



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Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - SIM - Quality Control

Batch BNB0589 - EPA 8260D-SIM

Instrument: NT16 Analyst: LN

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BNB0589-BSD1)					Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 12:05					
Vinyl chloride	2000	10.0	20.0	ng/L	2000		100	62-141	0.63	30
Surrogate: 1,2-Dichloroethane-d4	5310			ng/L	5000		106	80-129		
Surrogate: Toluene-d8	4830			ng/L	5000		96.6	80-120		
Surrogate: 4-Bromofluorobenzene	5200			ng/L	5000		104	75-125		



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Reported:
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Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNC0011 - EPA 8270E

Instrument: NT10 Analyst: JZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNC0011-BLK1)						Prepared: 03-Mar-2025 Analyzed: 13-Mar-2025 20:37					
Phenol	ND	0.5	1.0	ug/L							U
bis(2-chloroethyl) ether	ND	0.5	1.0	ug/L							U
2-Chlorophenol	ND	0.5	1.0	ug/L							U
1,3-Dichlorobenzene	ND	0.5	1.0	ug/L							U
1,4-Dichlorobenzene	ND	0.5	1.0	ug/L							U
Benzyl Alcohol	ND	1.0	2.0	ug/L							U
1,2-Dichlorobenzene	ND	0.5	1.0	ug/L							U
2-Methylphenol	ND	0.5	1.0	ug/L							U
2,2'-Oxybis(1-chloropropane)	ND	1.0	1.0	ug/L							U
4-Methylphenol	ND	1.0	2.0	ug/L							U
N-Nitroso-di-n-Propylamine	ND	0.5	1.0	ug/L							U
Hexachloroethane	ND	1.0	2.0	ug/L							U
Nitrobenzene	ND	0.5	1.0	ug/L							U
Isophorone	ND	0.5	1.0	ug/L							U
2-Nitrophenol	ND	1.5	3.0	ug/L							U
2,4-Dimethylphenol	ND	1.5	3.0	ug/L							U
Bis(2-Chloroethoxy)methane	ND	1.0	1.0	ug/L							U
Benzoic acid	ND	5.0	10.0	ug/L							U
2,4-Dichlorophenol	ND	3.0	3.0	ug/L							U
1,2,4-Trichlorobenzene	ND	0.5	1.0	ug/L							U
Naphthalene	ND	0.5	1.0	ug/L							U
4-Chloroaniline	ND	2.5	5.0	ug/L							U
Hexachlorobutadiene	ND	1.5	3.0	ug/L							U
4-Chloro-3-Methylphenol	ND	3.0	3.0	ug/L							U
2-Methylnaphthalene	ND	0.5	1.0	ug/L							U
Hexachlorocyclopentadiene	ND	5.0	5.0	ug/L							U
2,4,6-Trichlorophenol	ND	3.0	3.0	ug/L							U
2,4,5-Trichlorophenol	ND	2.5	5.0	ug/L							U
2-Chloronaphthalene	ND	0.5	1.0	ug/L							U
2-Nitroaniline	ND	3.0	3.0	ug/L							U
Dimethylphthalate	ND	0.5	1.0	ug/L							U
Acenaphthylene	ND	0.5	1.0	ug/L							U
2,6-Dinitrotoluene	ND	3.0	3.0	ug/L							U
3-Nitroaniline	ND	3.0	3.0	ug/L							U
Acenaphthene	ND	0.5	1.0	ug/L							U



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Project Manager: Eric Cutler

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Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNC0011 - EPA 8270E

Instrument: NT10 Analyst: JZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNC0011-BLK1)						Prepared: 03-Mar-2025 Analyzed: 13-Mar-2025 20:37					
2,4-Dinitrophenol	ND	5.0	10.0	ug/L							U
Dibenzofuran	ND	0.5	1.0	ug/L							U
4-Nitrophenol	ND	2.5	5.0	ug/L							U
2,4-Dinitrotoluene	ND	3.0	3.0	ug/L							U
Fluorene	ND	0.5	1.0	ug/L							U
Diethyl phthalate	ND	0.5	1.0	ug/L							U
4-Chlorophenylphenyl ether	ND	0.5	1.0	ug/L							U
4-Nitroaniline	ND	3.0	3.0	ug/L							U
4,6-Dinitro-2-methylphenol	ND	5.0	10.0	ug/L							U
N-Nitrosodiphenylamine	ND	0.5	1.0	ug/L							U
4-Bromophenyl phenyl ether	ND	0.5	1.0	ug/L							U
Hexachlorobenzene	ND	0.5	1.0	ug/L							U
Pentachlorophenol	ND	5.0	5.0	ug/L							U
Phenanthrene	ND	0.5	1.0	ug/L							U
Anthracene	ND	0.5	1.0	ug/L							U
Carbazole	ND	1.0	1.0	ug/L							U
Di-n-Butylphthalate	ND	0.5	1.0	ug/L							U
Fluoranthene	ND	0.5	1.0	ug/L							U
Pyrene	ND	0.5	1.0	ug/L							U
Butylbenzylphthalate	ND	0.5	1.0	ug/L							U
Benzo(a)anthracene	ND	0.5	1.0	ug/L							U
3,3'-Dichlorobenzidine	ND	5.0	10.0	ug/L							U
Chrysene	ND	0.5	1.0	ug/L							U
bis(2-Ethylhexyl)phthalate	ND	3.0	3.0	ug/L							U
Di-n-Octylphthalate	ND	0.5	1.0	ug/L							U
Benzo(a)fluoranthene, Total	ND	1.0	2.0	ug/L							U
Benzo(a)pyrene	ND	0.5	1.0	ug/L							U
Indeno(1,2,3-cd)pyrene	ND	0.5	1.0	ug/L							U
Dibenzo(a,h)anthracene	ND	0.5	1.0	ug/L							U
Benzo(g,h,i)perylene	ND	0.5	1.0	ug/L							U
1-Methylnaphthalene	ND	0.5	1.0	ug/L							U
2,3,4,6-Tetrachlorophenol	ND	1.0	1.0	ug/L							U
Surrogate: 2-Fluorophenol	13.0			ug/L	18.8		69.4	33-120			
Surrogate: Phenol-d5	16.1			ug/L	18.8		85.8	38-120			
Surrogate: 2-Chlorophenol-d4	14.9			ug/L	18.8		79.4	41-120			



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Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNC0011 - EPA 8270E

Instrument: NT10 Analyst: JZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNC0011-BLK1)						Prepared: 03-Mar-2025 Analyzed: 13-Mar-2025 20:37					
Surrogate: 1,2-Dichlorobenzene-d4	10.1			ug/L	12.5		80.8	20-120			
Surrogate: Nitrobenzene-d5	10.6			ug/L	12.5		84.9	27-120			
Surrogate: 2-Fluorobiphenyl	10.2			ug/L	12.5		81.3	33-120			
Surrogate: 2,4,6-Tribromophenol	14.2			ug/L	18.8		75.8	52-120			
Surrogate: p-Terphenyl-d14	11.4			ug/L	12.5		91.2	28-120			



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNC0011 - EPA 8270E

Instrument: NT10 Analyst: JZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNC0011-BS1)						Prepared: 03-Mar-2025 Analyzed: 13-Mar-2025 21:17					
Phenol	13.7	0.5	1.0	ug/L	20.0		68.5	35-120			
bis(2-chloroethyl) ether	12.8	0.5	1.0	ug/L	20.0		64.0	46.5-120			
2-Chlorophenol	14.0	0.5	1.0	ug/L	20.0		70.0	48-120			
1,3-Dichlorobenzene	11.2	0.5	1.0	ug/L	20.0		55.8	34.2-120			
1,4-Dichlorobenzene	11.3	0.5	1.0	ug/L	20.0		56.6	36-120			
Benzyl Alcohol	16.2	1.0	2.0	ug/L	20.0		81.2	27.4-120			
1,2-Dichlorobenzene	11.5	0.5	1.0	ug/L	20.0		57.3	38.4-120			
2-Methylphenol	15.1	0.5	1.0	ug/L	20.0		75.6	47.8-120			
2,2'-Oxybis(1-chloropropane)	14.2	1.0	1.0	ug/L	20.0		71.2	40.4-120			
4-Methylphenol	14.9	1.0	2.0	ug/L	20.0		74.4	52.3-120			
N-Nitroso-di-n-Propylamine	14.2	0.5	1.0	ug/L	20.0		70.8	51.4-120			
Hexachloroethane	11.8	1.0	2.0	ug/L	20.0		59.1	29.5-120			
Nitrobenzene	13.9	0.5	1.0	ug/L	20.0		69.3	51.5-120			
Isophorone	15.5	0.5	1.0	ug/L	20.0		77.5	62.3-128			
2-Nitrophenol	14.7	1.5	3.0	ug/L	20.0		73.4	58.6-124			
2,4-Dimethylphenol	40.5	1.5	3.0	ug/L	60.0		67.6	38.5-120			
Bis(2-Chloroethoxy)methane	13.2	1.0	1.0	ug/L	20.0		66.1	52.9-120			
Benzoic acid	70.6	5.0	10.0	ug/L	90.0		78.5	38.2-120			
2,4-Dichlorophenol	48.7	3.0	3.0	ug/L	60.0		81.1	43.6-120			
1,2,4-Trichlorobenzene	11.8	0.5	1.0	ug/L	20.0		59.2	38.6-120			
Naphthalene	12.6	0.5	1.0	ug/L	20.0		62.9	40.5-120			
4-Chloroaniline	25.1	2.5	5.0	ug/L	60.0		41.8	42.7-120			*
Hexachlorobutadiene	11.6	1.5	3.0	ug/L	20.0		58.1	32.3-120			
4-Chloro-3-Methylphenol	48.9	3.0	3.0	ug/L	60.0		81.5	51.9-120			
2-Methylnaphthalene	12.0	0.5	1.0	ug/L	20.0		59.9	47.3-120			
Hexachlorocyclopentadiene	48.1	5.0	5.0	ug/L	60.0		80.1	23.3-120			Q
2,4,6-Trichlorophenol	48.3	3.0	3.0	ug/L	60.0		80.6	47-120			
2,4,5-Trichlorophenol	43.5	2.5	5.0	ug/L	60.0		72.5	48.4-120			
2-Chloronaphthalene	13.0	0.5	1.0	ug/L	20.0		65.1	47.7-123			
2-Nitroaniline	49.1	3.0	3.0	ug/L	60.0		81.8	56.8-120			
Dimethylphthalate	13.6	0.5	1.0	ug/L	20.0		68.0	65.2-125			
Acenaphthylene	13.1	0.5	1.0	ug/L	20.0		65.7	44.1-120			
2,6-Dinitrotoluene	45.8	3.0	3.0	ug/L	60.0		76.3	69.3-140			
3-Nitroaniline	44.2	3.0	3.0	ug/L	60.0		73.7	60.9-120			
Acenaphthene	12.4	0.5	1.0	ug/L	20.0		61.9	50.4-120			



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNC0011 - EPA 8270E

Instrument: NT10 Analyst: JZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNC0011-BS1)						Prepared: 03-Mar-2025 Analyzed: 13-Mar-2025 21:17					
2,4-Dinitrophenol	69.3	5.0	10.0	ug/L	110		63.0	33.7-183			
Dibenzofuran	14.4	0.5	1.0	ug/L	20.0		71.8	49.9-120			
4-Nitrophenol	69.2	2.5	5.0	ug/L	60.0		115	50.2-136			
2,4-Dinitrotoluene	46.5	3.0	3.0	ug/L	60.0		77.4	66.8-132			
Fluorene	13.0	0.5	1.0	ug/L	20.0		65.2	57.8-120			
Diethyl phthalate	14.0	0.5	1.0	ug/L	20.0		69.8	68.1-120			
4-Chlorophenylphenyl ether	12.6	0.5	1.0	ug/L	20.0		63.0	59.1-127			
4-Nitroaniline	44.9	3.0	3.0	ug/L	60.0		74.8	56-122			
4,6-Dinitro-2-methylphenol	87.4	5.0	10.0	ug/L	110		79.5	37.9-162			
N-Nitrosodiphenylamine	15.1	0.5	1.0	ug/L	20.0		75.5	59.6-120			
4-Bromophenyl phenyl ether	12.9	0.5	1.0	ug/L	20.0		64.6	59.6-120			
Hexachlorobenzene	11.9	0.5	1.0	ug/L	20.0		59.5	53.7-120			
Pentachlorophenol	48.3	5.0	5.0	ug/L	60.0		80.5	40.3-128			
Phenanthrene	13.2	0.5	1.0	ug/L	20.0		66.2	58.8-120			
Anthracene	14.0	0.5	1.0	ug/L	20.0		69.8	60.5-120			
Carbazole	14.5	1.0	1.0	ug/L	20.0		72.6	59.7-120			
Di-n-Butylphthalate	14.1	0.5	1.0	ug/L	20.0		70.4	71-120			*
Fluoranthene	14.3	0.5	1.0	ug/L	20.0		71.6	66.7-120			
Pyrene	14.4	0.5	1.0	ug/L	20.0		72.2	62.7-127			
Butylbenzylphthalate	15.2	0.5	1.0	ug/L	20.0		76.1	67.4-128			
Benzo(a)anthracene	14.1	0.5	1.0	ug/L	20.0		70.5	58.3-128			
3,3'-Dichlorobenzidine	5.4	5.0	10.0	ug/L	40.0		13.5	34.1-120			*, J
Chrysene	15.4	0.5	1.0	ug/L	20.0		77.0	58.9-120			
bis(2-Ethylhexyl)phthalate	15.8	3.0	3.0	ug/L	20.0		78.8	68.3-123			
Di-n-Octylphthalate	14.9	0.5	1.0	ug/L	20.0		74.4	61.5-120			
Benzo(a)fluoranthene, Total	28.9	1.0	2.0	ug/L	40.0		72.2	66.5-120			
Benzo(a)pyrene	15.8	0.5	1.0	ug/L	20.0		79.1	70.6-120			
Indeno(1,2,3-cd)pyrene	13.4	0.5	1.0	ug/L	20.0		66.9	46.5-120			
Dibenzo(a,h)anthracene	12.3	0.5	1.0	ug/L	20.0		61.5	49.6-120			
Benzo(g,h,i)perylene	12.4	0.5	1.0	ug/L	20.0		62.1	37-120			
1-Methylnaphthalene	13.8	0.5	1.0	ug/L	20.0		69.0	46.9-120			
2,3,4,6-Tetrachlorophenol	12.0	1.0	1.0	ug/L	20.0		60.1	60.9-176			*
Surrogate: 2-Fluorophenol	12.7			ug/L	18.8		67.7	33-120			
Surrogate: Phenol-d5	15.2			ug/L	18.8		80.8	38-120			
Surrogate: 2-Chlorophenol-d4	14.7			ug/L	18.8		78.5	41-120			



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNC0011 - EPA 8270E

Instrument: NT10 Analyst: JZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNC0011-BS1)											
Prepared: 03-Mar-2025 Analyzed: 13-Mar-2025 21:17											
Surrogate: 1,2-Dichlorobenzene-d4	9.15			ug/L	12.5		73.2	20-120			
Surrogate: Nitrobenzene-d5	10.0			ug/L	12.5		80.1	27-120			
Surrogate: 2-Fluorobiphenyl	9.53			ug/L	12.5		76.2	33-120			
Surrogate: 2,4,6-Tribromophenol	15.5			ug/L	18.8		82.8	52-120			
Surrogate: p-Terphenyl-d14	10.6			ug/L	12.5		84.6	28-120			



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Project: Snipes MTN Landfill 2025
Project Number: [none]
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Reported:
31-Mar-2025 11:57

Semivolatile Organic Compounds - Quality Control

Batch BNC0077 - EPA 8270E

Instrument: NT14 Analyst: RT/RJL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNC0077-BLK1)					Prepared: 05-Mar-2025 Analyzed: 17-Mar-2025 19:30						
1,4-Dioxane	ND	0.2	0.4	ug/L							U
Surrogate: 1,4-Dioxane-d8	7.68			ug/L	10.0		76.8	30-160			



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Reported:
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Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNC0077 - EPA 8270E

Instrument: NT14 Analyst: RT/RJL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BNC0077-BS1)					Prepared: 05-Mar-2025 Analyzed: 17-Mar-2025 19:53					
1,4-Dioxane	15.0	0.2	0.4	ug/L	10.0	150	30-160			
Surrogate: 1,4-Dioxane-d8	7.65			ug/L	10.0	76.5	30-160			



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Project Number: [none]
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Reported:
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Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - SIM - Quality Control

Batch BNC0074 - EPA 8270E-SIM

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 (BNC0074-BLK1)						Prepared: 05-Mar-2025 Analyzed: 17-Mar-2025 14:18					
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
Benzo(a)fluoranthene, Total	ND	0.030	0.030	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	0.205			ug/L	0.300		68.4	42-120			
Surrogate: Dibenzo[a,h]anthracene-d14	0.226			ug/L	0.300		75.2	29-120			
Surrogate: Fluoranthene-d10	0.277			ug/L	0.300		92.4	57-120			Q



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Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - SIM - Quality Control

Batch BNC0074 - EPA 8270E-SIM

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNC0074-BS1)						Prepared: 05-Mar-2025 Analyzed: 17-Mar-2025 14:49					
Naphthalene	0.214	0.010	0.010	ug/L	0.300		71.5	37-120			
2-Methylnaphthalene	0.218	0.010	0.010	ug/L	0.300		72.7	37-120			
1-Methylnaphthalene	0.219	0.010	0.010	ug/L	0.300		72.9	29-120			
Acenaphthylene	0.225	0.010	0.010	ug/L	0.300		74.9	41-120			
Acenaphthene	0.224	0.010	0.010	ug/L	0.300		74.5	41-120			
Dibenzofuran	0.223	0.010	0.010	ug/L	0.300		74.2	38-120			
Fluorene	0.243	0.005	0.010	ug/L	0.300		81.1	43-120			
Phenanthrene	0.253	0.010	0.010	ug/L	0.300		84.4	41-120			
Anthracene	0.240	0.010	0.010	ug/L	0.300		80.0	40-120			
Carbazole	0.274	0.010	0.010	ug/L	0.300		91.3	30-160			
Fluoranthene	0.269	0.010	0.010	ug/L	0.300		89.6	45-120			
Pyrene	0.266	0.010	0.010	ug/L	0.300		88.5	41-120			
Benzo(a)anthracene	0.265	0.010	0.010	ug/L	0.300		88.3	42-120			
Chrysene	0.259	0.010	0.010	ug/L	0.300		86.4	44-120			
Benzo(b)fluoranthene	0.274	0.010	0.010	ug/L	0.300		91.4	44-120			
Benzo(k)fluoranthene	0.284	0.010	0.010	ug/L	0.300		94.5	50-120			
Benzo(j)fluoranthene	0.315	0.010	0.010	ug/L	0.300		105	39-160			
Benzo(a)fluoranthene, Total	0.854	0.030	0.030	ug/L	0.900		94.9	46-120			
Benzo(a)pyrene	0.243	0.010	0.010	ug/L	0.300		81.1	35-120			
Perylene	0.241	0.005	0.010	ug/L	0.300		80.2	30-160			
Indeno(1,2,3-cd)pyrene	0.215	0.010	0.010	ug/L	0.300		71.7	37-120			
Dibenzo(a,h)anthracene	0.223	0.010	0.010	ug/L	0.300		74.3	34-120			
Benzo(g,h,i)perylene	0.205	0.010	0.010	ug/L	0.300		68.2	38-120			
Surrogate: 2-Methylnaphthalene-d10	0.220			ug/L	0.300		73.5	42-120			
Surrogate: Dibenzo[a,h]anthracene-d14	0.238			ug/L	0.300		79.4	29-120			
Surrogate: Fluoranthene-d10	0.272			ug/L	0.300		90.6	57-120			Q



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Chlorinated Pesticides - Quality Control

Batch BNC0075 - EPA 8081B

Instrument: ECD6 Analyst: RT

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNC0075-BLK1)						Prepared: 05-Mar-2025 Analyzed: 08-Mar-2025 05:48					
alpha-BHC	ND	0.013	0.025	ug/L							U
beta-BHC	ND	0.013	0.025	ug/L							U
gamma-BHC (Lindane)	ND	0.025	0.025	ug/L							U
delta-BHC	ND	0.013	0.025	ug/L							U
Heptachlor	ND	0.013	0.025	ug/L							U
Aldrin	ND	0.013	0.025	ug/L							U
Heptachlor Epoxide	ND	0.025	0.050	ug/L							U
trans-Chlordane (beta-Chlordane)	ND	0.013	0.025	ug/L							U
cis-Chlordane (alpha-chlordane)	ND	0.013	0.025	ug/L							U
Endosulfan I	ND	0.013	0.025	ug/L							U
4,4'-DDE	ND	0.025	0.050	ug/L							U
Endrin	ND	0.025	0.050	ug/L							U
Endosulfan II	ND	0.025	0.050	ug/L							U
4,4'-DDD	ND	0.025	0.050	ug/L							U
Endrin Aldehyde	ND	0.025	0.050	ug/L							U
4,4'-DDT	ND	0.025	0.050	ug/L							U
Endosulfan Sulfate	ND	0.025	0.050	ug/L							U
Endrin Ketone	ND	0.025	0.050	ug/L							U
Methoxychlor	ND	0.125	0.250	ug/L							U
Hexachlorobutadiene	ND	0.025	0.050	ug/L							U
Hexachlorobenzene	ND	0.025	0.050	ug/L							U
Oxychlordane	ND	0.050	0.050	ug/L							U
Chlordane, technical	ND	0.100	0.100	ug/L							U
Surrogate: Decachlorobiphenyl	0.357			ug/L	0.400		89.4	11-144			
Surrogate: Decachlorobiphenyl [2C]	0.378			ug/L	0.400		94.5	11-144			
Surrogate: Tetrachlorometaxylene	0.312			ug/L	0.400		78.0	30-120			
Surrogate: Tetrachlorometaxylene [2C]	0.313			ug/L	0.400		78.3	30-120			



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Chlorinated Pesticides - Quality Control

Batch BNC0075 - EPA 8081B

Instrument: ECD6 Analyst: RT

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNC0075-BS1)											
						Prepared: 05-Mar-2025 Analyzed: 08-Mar-2025 06:06					
alpha-BHC	0.170	0.013	0.025	ug/L	0.200		85.2	54-124			
beta-BHC	0.171	0.013	0.025	ug/L	0.200		85.7	53-123			
gamma-BHC (Lindane) [2C]	0.180	0.025	0.025	ug/L	0.200		89.8	53-127			
delta-BHC [2C]	0.207	0.013	0.025	ug/L	0.200		104	53-122			
Heptachlor [2C]	0.191	0.013	0.025	ug/L	0.200		95.3	50-120			
Aldrin [2C]	0.175	0.013	0.025	ug/L	0.200		87.4	47-120			
Heptachlor Epoxide [2C]	0.201	0.025	0.050	ug/L	0.200		100	50-127			
trans-Chlordane (beta-Chlordane) [2C]	0.195	0.013	0.025	ug/L	0.200		97.3	47-127			
cis-Chlordane (alpha-chlordane) [2C]	0.197	0.013	0.025	ug/L	0.200		98.4	51-132			
Endosulfan I [2C]	0.199	0.013	0.025	ug/L	0.200		99.4	48-137			
4,4'-DDE [2C]	0.387	0.025	0.050	ug/L	0.400		96.7	47-133			
Endrin [2C]	0.398	0.025	0.050	ug/L	0.400		99.4	52-121			
Endosulfan II [2C]	0.374	0.025	0.050	ug/L	0.400		93.5	60-120			
4,4'-DDD [2C]	0.393	0.025	0.050	ug/L	0.400		98.4	60-120			
Endrin Aldehyde [2C]	0.317	0.025	0.050	ug/L	0.400		79.3	53-120			
4,4'-DDT [2C]	0.383	0.025	0.050	ug/L	0.400		95.8	57-122			
Endosulfan Sulfate	0.407	0.025	0.050	ug/L	0.400		102	56-120			
Endrin Ketone [2C]	0.394	0.025	0.050	ug/L	0.400		98.6	61-120			
Methoxychlor [2C]	1.71	0.125	0.250	ug/L	2.00		85.7	55-120			
Hexachlorobutadiene [2C]	0.149	0.025	0.050	ug/L	0.200		74.5	31-120			
Hexachlorobenzene [2C]	0.161	0.025	0.050	ug/L	0.200		80.4	46-122			
Surrogate: Decachlorobiphenyl	0.314			ug/L	0.400		78.4	11-144			
Surrogate: Decachlorobiphenyl [2C]	0.348			ug/L	0.400		87.1	11-144			
Surrogate: Tetrachlorometaxylene	0.298			ug/L	0.400		74.6	30-120			
Surrogate: Tetrachlorometaxylene [2C]	0.294			ug/L	0.400		73.4	30-120			



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1601 5th Avenue Suite 800
Seattle WA, 98101

Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Chlorinated Pesticides - Quality Control

Batch BNC0075 - EPA 8081B

Instrument: ECD6 Analyst: RT

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BNC0075-BSD1)						Prepared: 05-Mar-2025 Analyzed: 08-Mar-2025 06:24					
alpha-BHC [2C]	0.174	0.013	0.025	ug/L	0.200		87.1	54-124	4.12	30	
beta-BHC [2C]	0.186	0.013	0.025	ug/L	0.200		92.9	53-123	8.56	30	
gamma-BHC (Lindane) [2C]	0.184	0.025	0.025	ug/L	0.200		92.1	53-127	2.54	30	
delta-BHC [2C]	0.211	0.013	0.025	ug/L	0.200		105	53-122	1.82	30	
Heptachlor [2C]	0.191	0.013	0.025	ug/L	0.200		95.5	50-120	0.15	30	
Aldrin [2C]	0.182	0.013	0.025	ug/L	0.200		90.9	47-120	3.97	30	
Heptachlor Epoxide [2C]	0.203	0.025	0.050	ug/L	0.200		101	50-127	1.05	30	
trans-Chlordane (beta-Chlordane) [2C]	0.199	0.013	0.025	ug/L	0.200		99.3	47-127	2.02	30	
cis-Chlordane (alpha-chlordane) [2C]	0.195	0.013	0.025	ug/L	0.200		97.4	51-132	0.95	30	
Endosulfan I [2C]	0.198	0.013	0.025	ug/L	0.200		99.1	48-137	0.35	30	
4,4'-DDE [2C]	0.383	0.025	0.050	ug/L	0.400		95.8	47-133	0.91	30	
Endrin [2C]	0.386	0.025	0.050	ug/L	0.400		96.4	52-121	3.02	30	
Endosulfan II [2C]	0.375	0.025	0.050	ug/L	0.400		93.9	60-120	0.34	30	
4,4'-DDD [2C]	0.399	0.025	0.050	ug/L	0.400		99.6	60-120	1.28	30	
Endrin Aldehyde [2C]	0.314	0.025	0.050	ug/L	0.400		78.5	53-120	1.02	30	
4,4'-DDT [2C]	0.388	0.025	0.050	ug/L	0.400		97.1	57-122	1.35	30	
Endosulfan Sulfate [2C]	0.394	0.025	0.050	ug/L	0.400		98.4	56-120	5.64	30	
Endrin Ketone [2C]	0.397	0.025	0.050	ug/L	0.400		99.4	61-120	0.80	30	
Methoxychlor [2C]	1.73	0.125	0.250	ug/L	2.00		86.4	55-120	0.75	30	
Hexachlorobutadiene [2C]	0.153	0.025	0.050	ug/L	0.200		76.4	31-120	2.47	30	
Hexachlorobenzene [2C]	0.167	0.025	0.050	ug/L	0.200		83.7	46-122	4.04	30	
Surrogate: Decachlorobiphenyl	0.307			ug/L	0.400		76.7	11-144			
Surrogate: Decachlorobiphenyl [2C]	0.346			ug/L	0.400		86.6	11-144			
Surrogate: Tetrachlorometaxylene	0.300			ug/L	0.400		75.0	30-120			
Surrogate: Tetrachlorometaxylene [2C]	0.301			ug/L	0.400		75.3	30-120			



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Dioxins/Furans - Quality Control

Batch BNB0517 - EPA 1613B

Instrument: AUTOSPEC01 Analyst: jg

QC Sample/Analyte	Ion Ratio	Ratio Limits	EDL	Reporting Limit	Result	Units	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNB0517-BLK1)											
				Prepared: 17-Mar-2025		Analyzed: 23-Mar-2025 10:41					
2,3,7,8-TCDF		0.655-0.886	1.64	10.0	ND	pg/L					U
2,3,7,8-TCDD		0.655-0.886	1.48	10.0	ND	pg/L					U
1,2,3,7,8-PeCDF		1.318-1.783	1.53	10.0	ND	pg/L					U
2,3,4,7,8-PeCDF		1.318-1.783	1.55	10.0	ND	pg/L					U
1,2,3,7,8-PeCDD		1.318-1.783	2.15	10.0	ND	pg/L					U
1,2,3,4,7,8-HxCDF		1.054-1.426	1.60	10.0	ND	pg/L					U
1,2,3,6,7,8-HxCDF		1.054-1.426	1.66	10.0	ND	pg/L					U
2,3,4,6,7,8-HxCDF		1.054-1.426	1.63	10.0	ND	pg/L					U
1,2,3,7,8,9-HxCDF		1.054-1.426	2.36	10.0	ND	pg/L					U
1,2,3,4,7,8-HxCDD		1.054-1.426	2.03	10.0	ND	pg/L					U
1,2,3,6,7,8-HxCDD		1.054-1.426	2.07	10.0	ND	pg/L					U
1,2,3,7,8,9-HxCDD		1.054-1.426	2.23	10.0	ND	pg/L					U
1,2,3,4,6,7,8-HpCDF		0.893-1.208	2.30	20.0	ND	pg/L					U
1,2,3,4,7,8,9-HpCDF		0.893-1.208	3.28	10.0	ND	pg/L					U
1,2,3,4,6,7,8-HpCDD		0.893-1.208	2.75	10.0	ND	pg/L					U
OCDF		0.757-1.024	4.25	20.0	ND	pg/L					U
OCDD		0.757-1.024	5.10	50.0	ND	pg/L					U
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): 2.88
 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): 2.88
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0 EDL, EMPC=ND): 0.00

Labeled compounds

13C12-2,3,7,8-TCDF	0.739	0.655-0.886		77.4		24-169 %
13C12-2,3,7,8-TCDD	0.799	0.655-0.886		98.2		25-164 %
13C12-1,2,3,7,8-PeCDF	1.619	1.318-1.783		89.1		24-185 %
13C12-2,3,4,7,8-PeCDF	1.644	1.318-1.783		84.2		21-178 %



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Dioxins/Furans - Quality Control

Batch BNB0517 - EPA 1613B

Instrument: AUTOSPEC01 Analyst: jg

QC Sample/Analyte	Ion Ratio	Ratio Limits	EDL	Reporting Limit	Result	Units	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNB0517-BLK1)					Prepared: 17-Mar-2025		Analyzed: 23-Mar-2025 10:41				
13C12-1,2,3,7,8-PeCDD	1.607	1.318-1.783			91.7				25-181	%	
13C12-1,2,3,4,7,8-HxCDF	0.529	0.434-0.587			93.5				26-152	%	
13C12-1,2,3,6,7,8-HxCDF	0.538	0.434-0.587			90.9				26-123	%	
13C12-2,3,4,6,7,8-HxCDF	0.540	0.434-0.587			85.4				28-136	%	
13C12-1,2,3,7,8,9-HxCDF	0.536	0.434-0.587			84.7				29-147	%	
13C12-1,2,3,4,7,8-HxCDD	1.241	1.054-1.426			93.5				32-141	%	
13C12-1,2,3,6,7,8-HxCDD	1.225	1.054-1.426			96.1				28-130	%	
13C12-1,2,3,4,6,7,8-HpCDF	0.475	0.374-0.506			67.9				28-143	%	
13C12-1,2,3,4,7,8,9-HpCDF	0.442	0.374-0.506			72.3				26-138	%	
13C12-1,2,3,4,6,7,8-HpCDD	1.112	0.893-1.208			88.9				23-140	%	
13C12-OCDD	1.005	0.757-1.024			60.5				17-157	%	
37Cl4-2,3,7,8-TCDD					98.6				35-197	%	



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Project: Snipes MTN Landfill 2025
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Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Dioxins/Furans - Quality Control

Batch BNB0517 - EPA 1613B

Instrument: AUTOSPEC01 Analyst: jg

QC Sample/Analyte	Ion Ratio	Ratio Limits	EDL	Reporting Limit	Result	Units	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNB0517-BS1)				Prepared: 17-Mar-2025		Analyzed: 23-Mar-2025 11:31					
2,3,7,8-TCDF	0.734	0.655-0.886		10.0	219	pg/L	110	75-158 %			
2,3,7,8-TCDD	0.866	0.655-0.886		10.0	184	pg/L	91.8	67-158 %			
1,2,3,7,8-PeCDF	1.751	1.318-1.783		10.0	1010	pg/L	101	80-134 %			
2,3,4,7,8-PeCDF	1.594	1.318-1.783		10.0	1040	pg/L	104	68-160 %			
1,2,3,7,8-PeCDD	1.428	1.318-1.783		10.0	946	pg/L	94.6	70-142 %			
1,2,3,4,7,8-HxCDF	1.282	1.054-1.426		10.0	1010	pg/L	101	72-134 %			
1,2,3,6,7,8-HxCDF	1.308	1.054-1.426		10.0	1100	pg/L	110	84-130 %			
2,3,4,6,7,8-HxCDF	1.296	1.054-1.426		10.0	1090	pg/L	109	70-156 %			
1,2,3,7,8,9-HxCDF	1.199	1.054-1.426		10.0	1060	pg/L	106	78-130 %			
1,2,3,4,7,8-HxCDD	1.326	1.054-1.426		10.0	1040	pg/L	104	70-164 %			
1,2,3,6,7,8-HxCDD	1.217	1.054-1.426		10.0	1190	pg/L	119	76-134 %			
1,2,3,7,8,9-HxCDD	1.287	1.054-1.426		10.0	1130	pg/L	113	64-162 %			
1,2,3,4,6,7,8-HpCDF	1.001	0.893-1.208		20.0	988	pg/L	98.8	82-122 %			
1,2,3,4,7,8,9-HpCDF	1.031	0.893-1.208		10.0	1020	pg/L	102	78-138 %			
1,2,3,4,6,7,8-HpCDD	1.022	0.893-1.208		10.0	986	pg/L	98.6	70-140 %			
OCDF	0.930	0.757-1.024		20.0	1830	pg/L	91.7	63-170 %			
OCDD	0.933	0.757-1.024		50.0	1780	pg/L	89.2	78-144 %			
Labeled compounds											
13C12-2,3,7,8-TCDF	0.732	0.655-0.886			79.8			24-169 %			
13C12-2,3,7,8-TCDD	0.801	0.655-0.886			101			25-164 %			
13C12-1,2,3,7,8-PeCDF	1.541	1.318-1.783			92.0			24-185 %			
13C12-2,3,4,7,8-PeCDF	1.622	1.318-1.783			87.0			21-178 %			
13C12-1,2,3,7,8-PeCDD	1.582	1.318-1.783			96.4			25-181 %			
13C12-1,2,3,4,7,8-HxCDF	0.537	0.434-0.587			92.2			26-152 %			
13C12-1,2,3,6,7,8-HxCDF	0.551	0.434-0.587			94.1			26-123 %			
13C12-2,3,4,6,7,8-HxCDF	0.530	0.434-0.587			85.4			28-136 %			
13C12-1,2,3,7,8,9-HxCDF	0.499	0.434-0.587			88.7			29-147 %			
13C12-1,2,3,4,7,8-HxCDD	1.250	1.054-1.426			95.1			32-141 %			
13C12-1,2,3,6,7,8-HxCDD	1.222	1.054-1.426			93.6			28-130 %			
13C12-1,2,3,4,6,7,8-HpCDF	0.444	0.374-0.506			76.9			28-143 %			
13C12-1,2,3,4,7,8,9-HpCDF	0.450	0.374-0.506			75.3			26-138 %			
13C12-1,2,3,4,6,7,8-HpCDD	1.008	0.893-1.208			91.1			23-140 %			
13C12-OCDD	0.916	0.757-1.024			65.0			17-157 %			
37Cl4-2,3,7,8-TCDD					101			35-197 %			



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

Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Dioxins/Furans - Quality Control

Batch BNB0517 - EPA 1613B

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 (BNB0517-BSD1)				Prepared: 17-Mar-2025		Analyzed: 23-Mar-2025 12:21					
2,3,7,8-TCDF	0.760	0.655-0.886		10.0	208	pg/L	104	75-158 %	5.41	25	
2,3,7,8-TCDD	0.735	0.655-0.886		10.0	175	pg/L	87.7	67-158 %	4.51	25	
1,2,3,7,8-PeCDF	1.518	1.318-1.783		10.0	1010	pg/L	101	80-134 %	0.06	25	
2,3,4,7,8-PeCDF	1.497	1.318-1.783		10.0	1040	pg/L	104	68-160 %	0.85	25	
1,2,3,7,8-PeCDD	1.652	1.318-1.783		10.0	979	pg/L	97.9	70-142 %	3.41	25	
1,2,3,4,7,8-HxCDF	1.288	1.054-1.426		10.0	999	pg/L	99.9	72-134 %	0.93	25	
1,2,3,6,7,8-HxCDF	1.293	1.054-1.426		10.0	1110	pg/L	111	84-130 %	1.12	25	
2,3,4,6,7,8-HxCDF	1.310	1.054-1.426		10.0	1070	pg/L	107	70-156 %	2.16	25	
1,2,3,7,8,9-HxCDF	1.310	1.054-1.426		10.0	1120	pg/L	112	78-130 %	6.01	25	
1,2,3,4,7,8-HxCDD	1.218	1.054-1.426		10.0	1060	pg/L	106	70-164 %	2.63	25	
1,2,3,6,7,8-HxCDD	1.189	1.054-1.426		10.0	1080	pg/L	108	76-134 %	9.90	25	
1,2,3,7,8,9-HxCDD	1.273	1.054-1.426		10.0	1080	pg/L	108	64-162 %	4.64	25	
1,2,3,4,6,7,8-HpCDF	1.028	0.893-1.208		20.0	1030	pg/L	103	82-122 %	4.30	25	
1,2,3,4,7,8,9-HpCDF	0.989	0.893-1.208		10.0	1010	pg/L	101	78-138 %	0.97	25	
1,2,3,4,6,7,8-HpCDD	1.063	0.893-1.208		10.0	1010	pg/L	101	70-140 %	2.07	25	
OCDF	0.901	0.757-1.024		20.0	2040	pg/L	102	63-170 %	10.70	25	
OCDD	0.938	0.757-1.024		50.0	1950	pg/L	97.7	78-144 %	9.15	25	
Labeled compounds											
13C12-2,3,7,8-TCDF	0.737	0.655-0.886			80.7				24-169 %		
13C12-2,3,7,8-TCDD	0.776	0.655-0.886			106				25-164 %		
13C12-1,2,3,7,8-PeCDF	1.594	1.318-1.783			93.6				24-185 %		
13C12-2,3,4,7,8-PeCDF	1.615	1.318-1.783			93.0				21-178 %		
13C12-1,2,3,7,8-PeCDD	1.657	1.318-1.783			99.4				25-181 %		
13C12-1,2,3,4,7,8-HxCDF	0.526	0.434-0.587			99.6				26-152 %		
13C12-1,2,3,6,7,8-HxCDF	0.543	0.434-0.587			96.9				26-123 %		
13C12-2,3,4,6,7,8-HxCDF	0.513	0.434-0.587			92.9				28-136 %		
13C12-1,2,3,7,8,9-HxCDF	0.523	0.434-0.587			93.0				29-147 %		
13C12-1,2,3,4,7,8-HxCDD	1.250	1.054-1.426			101				32-141 %		
13C12-1,2,3,6,7,8-HxCDD	1.231	1.054-1.426			105				28-130 %		
13C12-1,2,3,4,6,7,8-HpCDF	0.441	0.374-0.506			77.3				28-143 %		
13C12-1,2,3,4,7,8,9-HpCDF	0.471	0.374-0.506			83.5				26-138 %		
13C12-1,2,3,4,6,7,8-HpCDD	1.064	0.893-1.208			101				23-140 %		
13C12-OCDD	0.996	0.757-1.024			71.1				17-157 %		
37Cl4-2,3,7,8-TCDD					102				35-197 %		



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNC0247 - EPA 7470A

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 (BNC0247-BLK1)						Prepared: 11-Mar-2025 Analyzed: 13-Mar-2025 12:21					
Mercury, Dissolved	ND	0.000013	0.000100	mg/L							U
LCS (BNC0247-BS1)						Prepared: 11-Mar-2025 Analyzed: 13-Mar-2025 12:23					
Mercury, Dissolved	0.00175	0.000013	0.000100	mg/L	0.00200		87.3	80-120			
Duplicate (BNC0247-DUP1)						Source: 25B0568-06 Prepared: 11-Mar-2025 Analyzed: 13-Mar-2025 12:28					
Mercury, Dissolved	ND	0.000013	0.000100	mg/L		ND			20		U
Matrix Spike (BNC0247-MS1)						Source: 25B0568-06 Prepared: 11-Mar-2025 Analyzed: 13-Mar-2025 12:30					
Mercury, Dissolved	0.000886	0.000013	0.000100	mg/L	0.00100	ND	88.5	75-125			

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



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNC0269 - EPA 7470A

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 (BNC0269-BLK1)						Prepared: 12-Mar-2025 Analyzed: 13-Mar-2025 12:35					
Mercury, Dissolved	ND	0.000013	0.000100	mg/L							U
LCS (BNC0269-BS1)						Prepared: 12-Mar-2025 Analyzed: 13-Mar-2025 12:43					
Mercury, Dissolved	0.00177	0.000013	0.000100	mg/L	0.00200		88.3	80-120			



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1601 5th Avenue Suite 800
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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNC0275 - EPA 6010D

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 (BNC0275-BLK1) Prepared: 12-Mar-2025 Analyzed: 12-Mar-2025 19:15											
Calcium, Dissolved	ND	0.0300	0.0500	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
LCS (BNC0275-BS1) Prepared: 12-Mar-2025 Analyzed: 12-Mar-2025 19:18											
Calcium, Dissolved	10.7	0.0303	0.0505	mg/L	10.0		107	80-120			
Iron, Dissolved	2.14	0.0545	0.101	mg/L	2.00		107	80-120			
Magnesium, Dissolved	10.5	0.0253	0.0505	mg/L	10.0		105	80-120			
Manganese, Dissolved	0.513	0.0020	0.0040	mg/L	0.500		103	80-120			
Potassium, Dissolved	10.8	0.253	0.505	mg/L	10.0		108	80-120			
Sodium, Dissolved	10.7	0.253	0.505	mg/L	10.0		107	80-120			
Duplicate (BNC0275-DUP1) Source: 25B0568-08 Prepared: 12-Mar-2025 Analyzed: 17-Mar-2025 15:53											
Calcium, Dissolved	48.0	0.0300	0.0500	mg/L		45.5			5.18	20	
Iron, Dissolved	ND	0.0540	0.100	mg/L		ND				20	U
Magnesium, Dissolved	14.2	0.0250	0.0500	mg/L		13.5			5.07	20	
Manganese, Dissolved	0.196	0.0020	0.0040	mg/L		0.184			6.00	20	
Potassium, Dissolved	3.88	0.250	0.500	mg/L		3.95			1.86	20	
Sodium, Dissolved	22.5	0.250	0.500	mg/L		22.0			2.29	20	
Matrix Spike (BNC0275-MS1) Source: 25B0568-08 Prepared: 12-Mar-2025 Analyzed: 17-Mar-2025 15:56											
Calcium, Dissolved	57.3	0.0303	0.0505	mg/L	10.0	45.5	118	75-125			
Iron, Dissolved	2.05	0.0545	0.101	mg/L	2.00	ND	102	75-125			
Magnesium, Dissolved	23.6	0.0253	0.0505	mg/L	10.0	13.5	102	75-125			
Manganese, Dissolved	0.690	0.0020	0.0040	mg/L	0.500	0.184	101	75-125			
Potassium, Dissolved	14.2	0.253	0.505	mg/L	10.0	3.95	102	75-125			
Sodium, Dissolved	32.2	0.253	0.505	mg/L	10.0	22.0	102	75-125			

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



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNC0276 - EPA 6010D

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 (BNC0276-BLK1) Prepared: 12-Mar-2025 Analyzed: 12-Mar-2025 19:09											
Calcium, Dissolved	ND	0.0300	0.0500	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	0.0027	0.0020	0.0040	mg/L							J
Potassium, Dissolved	ND	0.250	0.500	mg/L							U
Sodium, Dissolved	ND	0.250	0.500	mg/L							U
LCS (BNC0276-BS1) Prepared: 12-Mar-2025 Analyzed: 12-Mar-2025 19:12											
Calcium, Dissolved	11.1	0.0304	0.0506	mg/L	10.0		111	80-120			
Iron, Dissolved	2.24	0.0546	0.101	mg/L	2.00		112	80-120			
Magnesium, Dissolved	10.6	0.0253	0.0506	mg/L	10.0		106	80-120			
Manganese, Dissolved	0.532	0.0020	0.0040	mg/L	0.500		106	80-120			
Potassium, Dissolved	10.9	0.253	0.506	mg/L	10.0		109	80-120			
Sodium, Dissolved	10.9	0.253	0.506	mg/L	10.0		109	80-120			



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNC0307 - EPA 6020B

Instrument: ICPMS2 Analyst: HAL

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNC0307-BLK1) Prepared: 13-Mar-2025 Analyzed: 18-Mar-2025 18:28												
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
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
Zinc UCT, Dissolved	66 UCT	ND	3.00	6.00	ug/L							U
Blank (BNC0307-BLK2) Prepared: 13-Mar-2025 Analyzed: 19-Mar-2025 17:48												
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
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
Zinc UCT, Dissolved	66 UCT	ND	3.00	6.00	ug/L							U
LCS (BNC0307-BS1) Prepared: 13-Mar-2025 Analyzed: 18-Mar-2025 18:33												
Arsenic UCT, Dissolved	75a UCT	23.6	0.100	0.200	ug/L	25.0		94.3	80-120			
Barium, Dissolved	135	24.3	0.250	0.500	ug/L	25.0		97.1	80-120			
Cadmium UCT, Dissolved	111 UCT	24.5	0.0500	0.100	ug/L	25.0		97.9	80-120			
Chromium, Dissolved	52	24.1	0.375	0.500	ug/L	25.0		96.4	80-120			
Copper UCT, Dissolved	63 UCT	25.3	0.200	0.500	ug/L	25.0		101	80-120			
Lead, Dissolved	208	24.9	0.100	0.200	ug/L	25.0		99.7	80-120			
Nickel UCT, Dissolved	60 UCT	25.1	0.250	0.500	ug/L	25.0		100	80-120			
Selenium UCT, Dissolved	78 UCT	70.5	0.500	1.00	ug/L	80.0		88.1	80-120			
Zinc UCT, Dissolved	66 UCT	76.1	3.00	6.00	ug/L	80.0		95.1	80-120			
LCS (BNC0307-BS2) Prepared: 13-Mar-2025 Analyzed: 19-Mar-2025 17:53												
Arsenic UCT, Dissolved	75a UCT	25.7	0.100	0.200	ug/L	25.0		103	80-120			
Barium, Dissolved	135	24.8	0.250	0.500	ug/L	25.0		99.1	80-120			



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNC0307 - EPA 6020B

Instrument: ICPMS2 Analyst: HAL

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNC0307-BS2)						Prepared: 13-Mar-2025 Analyzed: 19-Mar-2025 17:53						
Cadmium UCT, Dissolved	111 UCT	26.2	0.0500	0.100	ug/L	25.0		105	80-120			
Chromium, Dissolved	52	26.7	0.375	0.500	ug/L	25.0		107	80-120			
Copper UCT, Dissolved	63 UCT	28.2	0.200	0.500	ug/L	25.0		113	80-120			
Lead, Dissolved	208	26.4	0.100	0.200	ug/L	25.0		106	80-120			
Nickel UCT, Dissolved	60 UCT	27.5	0.250	0.500	ug/L	25.0		110	80-120			
Selenium UCT, Dissolved	78 UCT	78.4	0.500	1.00	ug/L	80.0		98.0	80-120			
Silver, Dissolved	107	26.1	0.100	0.200	ug/L	25.0		104	80-120			
Zinc UCT, Dissolved	66 UCT	84.1	3.00	6.00	ug/L	80.0		105	80-120			

Duplicate (BNC0307-DUP1)		Source: 25B0568-06				Prepared: 13-Mar-2025 Analyzed: 15-Mar-2025 03:43						
Arsenic UCT, Dissolved	75a UCT	9.15	0.100	0.200	ug/L		8.63			5.88	20	
Barium, Dissolved	135	16.2	0.250	0.500	ug/L		15.5			4.68	20	
Cadmium UCT, Dissolved	111 UCT	ND	0.0500	0.100	ug/L		ND				20	U
Copper UCT, Dissolved	63 UCT	ND	0.200	0.500	ug/L		ND				20	U
Lead, Dissolved	208	ND	0.100	0.200	ug/L		ND				20	U
Nickel UCT, Dissolved	60 UCT	1.88	0.250	0.500	ug/L		1.81			3.75	20	
Selenium UCT, Dissolved	78 UCT	ND	0.500	1.00	ug/L		ND				20	U
Silver, Dissolved	107	ND	0.100	0.200	ug/L		ND				20	U
Zinc UCT, Dissolved	66 UCT	ND	3.00	6.00	ug/L		ND				20	U

Duplicate (BNC0307-DUP2)		Source: 25B0568-06RE2				Prepared: 13-Mar-2025 Analyzed: 19-Mar-2025 00:14						
Chromium, Dissolved	52	2.77	1.88	2.50	ug/L		2.59			6.72	20	D

Matrix Spike (BNC0307-MS1)		Source: 25B0568-06				Prepared: 13-Mar-2025 Analyzed: 15-Mar-2025 03:48						
Arsenic UCT, Dissolved	75a UCT	33.1	0.100	0.200	ug/L	25.0	8.63	97.7	75-125			
Barium, Dissolved	135	37.5	0.250	0.500	ug/L	25.0	15.5	88.1	75-125			
Cadmium UCT, Dissolved	111 UCT	25.1	0.0500	0.100	ug/L	25.0	ND	100	75-125			
Copper UCT, Dissolved	63 UCT	26.6	0.200	0.500	ug/L	25.0	ND	106	75-125			
Lead, Dissolved	208	25.5	0.100	0.200	ug/L	25.0	ND	102	75-125			
Nickel UCT, Dissolved	60 UCT	27.2	0.250	0.500	ug/L	25.0	1.81	102	75-125			
Selenium UCT, Dissolved	78 UCT	69.1	0.500	1.00	ug/L	80.0	ND	86.3	75-125			
Silver, Dissolved	107	22.3	0.100	0.200	ug/L	25.0	ND	89.4	75-125			
Zinc UCT, Dissolved	66 UCT	74.1	3.00	6.00	ug/L	80.0	ND	92.6	75-125			

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

Matrix Spike (BNC0307-MS2)		Source: 25B0568-06RE2				Prepared: 13-Mar-2025 Analyzed: 19-Mar-2025 00:18						



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Project: Snipes MTN Landfill 2025

Project Number: [none]

Project Manager: Eric Cutler

Reported:

31-Mar-2025 11:57

Instrument: ICPMS2 Analyst: HAL

QC Sample/Analyte	Isotope	Detection Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike (BNC0307-MS2)		Source: 25B0568-06RE2		Prepared: 13-Mar-2025		Analyzed: 19-Mar-2025 00:18						
Chromium, Dissolved	52	23.5	1.88	2.50	ug/L	25.0	2.59	83.4	75-125			D

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



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNC0310 - EPA 6020B

Instrument: ICPMS2 Analyst: HAL

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNC0310-BLK1) Prepared: 13-Mar-2025 Analyzed: 18-Mar-2025 18:37												
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
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
Zinc UCT, Dissolved	66 UCT	ND	3.00	6.00	ug/L							U
Blank (BNC0310-BLK2) Prepared: 13-Mar-2025 Analyzed: 19-Mar-2025 17:58												
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
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
Zinc UCT, Dissolved	66 UCT	ND	3.00	6.00	ug/L							U
LCS (BNC0310-BS1) Prepared: 13-Mar-2025 Analyzed: 18-Mar-2025 18:42												
Arsenic UCT, Dissolved	75a UCT	24.4	0.100	0.200	ug/L	25.0		97.8	80-120			
Barium, Dissolved	135	24.5	0.250	0.500	ug/L	25.0		98.1	80-120			
Cadmium UCT, Dissolved	111 UCT	24.4	0.0500	0.100	ug/L	25.0		97.7	80-120			
Chromium, Dissolved	52	24.2	0.375	0.500	ug/L	25.0		96.7	80-120			
Copper UCT, Dissolved	63 UCT	25.8	0.200	0.500	ug/L	25.0		103	80-120			
Lead, Dissolved	208	24.9	0.100	0.200	ug/L	25.0		99.5	80-120			
Nickel UCT, Dissolved	60 UCT	25.9	0.250	0.500	ug/L	25.0		104	80-120			
Selenium UCT, Dissolved	78 UCT	75.2	0.500	1.00	ug/L	80.0		94.0	80-120			
Zinc UCT, Dissolved	66 UCT	81.3	3.00	6.00	ug/L	80.0		102	80-120			
LCS (BNC0310-BS2) Prepared: 13-Mar-2025 Analyzed: 19-Mar-2025 18:03												
Arsenic UCT, Dissolved	75a UCT	25.6	0.100	0.200	ug/L	25.0		102	80-120			
Barium, Dissolved	135	25.8	0.250	0.500	ug/L	25.0		103	80-120			



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNC0310 - EPA 6020B

Instrument: ICPMS2 Analyst: HAL

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BNC0310-BS2)		Prepared: 13-Mar-2025 Analyzed: 19-Mar-2025 18:03									
Cadmium UCT, Dissolved	111 UCT	26.4	0.0500	0.100	ug/L	25.0		106	80-120		
Chromium, Dissolved	52	26.7	0.375	0.500	ug/L	25.0		107	80-120		
Copper UCT, Dissolved	63 UCT	28.0	0.200	0.500	ug/L	25.0		112	80-120		
Lead, Dissolved	208	26.5	0.100	0.200	ug/L	25.0		106	80-120		
Nickel UCT, Dissolved	60 UCT	26.7	0.250	0.500	ug/L	25.0		107	80-120		
Selenium UCT, Dissolved	78 UCT	80.3	0.500	1.00	ug/L	80.0		100	80-120		
Silver, Dissolved	107	26.8	0.100	0.200	ug/L	25.0		107	80-120		
Zinc UCT, Dissolved	66 UCT	86.2	3.00	6.00	ug/L	80.0		108	80-120		



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNC0424 - EPA 6020B

Instrument: ICPMS2 Analyst: HAL

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNC0424-BLK1)						Prepared: 18-Mar-2025 Analyzed: 19-Mar-2025 03:20						
Antimony, Dissolved	121	ND	0.150	0.200	ug/L							U
LCS (BNC0424-BS1)						Prepared: 18-Mar-2025 Analyzed: 19-Mar-2025 03:25						
Antimony, Dissolved	121	25.7	0.150	0.200	ug/L	25.0		103	80-120			
Duplicate (BNC0424-DUP1)						Source: 25B0568-06RE1 Prepared: 18-Mar-2025 Analyzed: 19-Mar-2025 05:57						
Antimony, Dissolved	121	0.650	0.150	0.200	ug/L		0.195			108.00	20	L
Matrix Spike (BNC0424-MS1)						Source: 25B0568-06RE1 Prepared: 18-Mar-2025 Analyzed: 19-Mar-2025 06:02						
Antimony, Dissolved	121	24.5	0.150	0.200	ug/L	25.0	0.195	97.1	75-125			

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



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNC0425 - EPA 6020B

Instrument: ICPMS2 Analyst: HAL

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNC0425-BLK1)						Prepared: 18-Mar-2025 Analyzed: 19-Mar-2025 03:30					
Antimony, Dissolved	121	ND	0.150	0.200	ug/L						U
LCS (BNC0425-BS1)						Prepared: 18-Mar-2025 Analyzed: 19-Mar-2025 03:35					
Antimony, Dissolved	121	24.4	0.150	0.200	ug/L	25.0	97.7	80-120			



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNB0596 - SM 2540 D-11

Instrument: BAL2 Analyst: LM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BNB0596-BLK1)									
Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 16:03									
Suspended Solids	ND	1	1	mg/L					U
LCS (BNB0596-BS1)									
Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 16:03									
Suspended Solids	49	1	1	mg/L	51.70	94.8	90-110		



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNB0602 - EPA 353.2

Instrument: LACHAT2 Analyst: CB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNB0602-BLK1)					Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 17:15					
Nitrite-N	ND	0.010	0.010	mg/L						U
LCS (BNB0602-BS2)					Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 17:17					
Nitrite-N	0.505	0.010	0.010	mg/L	0.500	101	90-110			



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNB0605 - SM 2540 C-11

Instrument: BAL2 Analyst: LM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNB0605-BLK1)					Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 16:41					
Dissolved Solids	ND	5	5	mg/L						U
LCS (BNB0605-BS1)					Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 16:41					
Dissolved Solids	480	10	10	mg/L	500		96.0 90-110			
Duplicate (BNB0605-DUP1)					Source: 25B0568-03 Prepared: 28-Feb-2025 Analyzed: 28-Feb-2025 16:41					
Dissolved Solids	378	10	10	mg/L		381		0.79	20	



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNC0054 - SM 4500-NH3 H-11

Instrument: LACHAT1 Analyst: LERB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNC0054-BLK1)										
						Prepared: 04-Mar-2025 Analyzed: 04-Mar-2025 15:44				
Ammonia-N	ND	0.040	0.040	mg/L						U
LCS (BNC0054-BS1)										
						Prepared: 04-Mar-2025 Analyzed: 04-Mar-2025 15:45				
Ammonia-N	0.487	0.040	0.040	mg/L	0.500		97.4 90-110			



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Reported:
31-Mar-2025 11:57

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNC0057 - SM 2540 C-11

Instrument: BAL2 Analyst: LM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNC0057-BLK1)					Prepared: 04-Mar-2025 Analyzed: 04-Mar-2025 13:55					
Dissolved Solids	ND	5	5	mg/L						U
LCS (BNC0057-BS1)					Prepared: 04-Mar-2025 Analyzed: 04-Mar-2025 13:55					
Dissolved Solids	485	10	10	mg/L	500	97.0	90-110			
Duplicate (BNC0057-DUP1)					Source: 25B0568-01 Prepared: 04-Mar-2025 Analyzed: 04-Mar-2025 13:55					
Dissolved Solids	406	10	10	mg/L		390		4.02	20	



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Reported:
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Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNC0058 - EPA 353.2

Instrument: LACHAT2 Analyst: CB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNC0058-BLK1) Prepared: 04-Mar-2025 Analyzed: 04-Mar-2025 18:08										
Nitrate + Nitrite as N	ND	0.010	0.010	mg/L						U
Nitrite-N	ND	0.010	0.010	mg/L						U
LCS (BNC0058-BS2) Prepared: 04-Mar-2025 Analyzed: 04-Mar-2025 18:10										
Nitrite-N	0.515	0.010	0.010	mg/L	0.500		103 90-110			



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Reported:
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Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNC0081 - SM 2320 B-11

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNC0081-BLK1)										
						Prepared: 05-Mar-2025 Analyzed: 05-Mar-2025 11:22				
Alkalinity, Total	ND	1.00	1.00	mg/L CaCO3						U
Reference (BNC0081-SRM1)										
						Prepared: 05-Mar-2025 Analyzed: 05-Mar-2025 14:00				
Alkalinity, Total	101	1.00	1.00	mg/L CaCO3	98.7	102	34.97-115.03			



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Reported:
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Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNC0200 - EPA 353.2

Instrument: LACHAT2 Analyst: CB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNC0200-BLK1)					Prepared: 10-Mar-2025 Analyzed: 10-Mar-2025 15:36					
Nitrate + Nitrite as N	ND	0.010	0.010	mg/L						U
LCS (BNC0200-BS1)					Prepared: 10-Mar-2025 Analyzed: 10-Mar-2025 15:37					
Nitrate + Nitrite as N	0.527	0.010	0.010	mg/L	0.500		105 90-110			



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Reported:
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Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNC0221 - EPA 325.2

Instrument: LACHAT2 Analyst: CB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNC0221-BLK1)										
						Prepared: 11-Mar-2025 Analyzed: 11-Mar-2025 12:49				
Chloride	ND	1.00	1.00	mg/L						U
LCS (BNC0221-BS1)										
						Prepared: 11-Mar-2025 Analyzed: 11-Mar-2025 12:50				
Chloride	4.91	1.00	1.00	mg/L	5.00	98.2	90-110			



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Reported:
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Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNC0243 - EPA 375.2

Instrument: LACHAT2 Analyst: CB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNC0243-BLK1)										
						Prepared: 11-Mar-2025 Analyzed: 11-Mar-2025 14:51				
Sulfate	ND	2.00	2.00	mg/L						U
LCS (BNC0243-BS1)										
						Prepared: 11-Mar-2025 Analyzed: 11-Mar-2025 14:53				
Sulfate	14.7	2.00	2.00	mg/L	15.0	98.0	90-110			



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Reported:
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Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNC0293 - EPA 9060A

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 (BNC0293-BLK1)					Prepared: 13-Mar-2025 Analyzed: 13-Mar-2025 09:27					
Total Organic Carbon	ND	0.50	0.50	mg/L						U
LCS (BNC0293-BS1)					Prepared: 13-Mar-2025 Analyzed: 13-Mar-2025 09:50					
Total Organic Carbon	19.18	0.50	0.50	mg/L	20.00		95.9 90-110			



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Reported:
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Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNC0296 - EPA 410.4

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 (BNC0296-BLK1)					Prepared: 13-Mar-2025 Analyzed: 14-Mar-2025 08:33						
COD	ND	10.0	10.0	mg/L							U
DL (BNC0296-BLK2)					Prepared: 13-Mar-2025 Analyzed: 14-Mar-2025 08:58						
COD	ND	10.0	10.0	mg/L							U
DL (BNC0296-BLK3)					Prepared: 13-Mar-2025 Analyzed: 14-Mar-2025 09:11						
COD	ND	10.0	10.0	mg/L							U
LCS (BNC0296-BS1)					Prepared: 13-Mar-2025 Analyzed: 14-Mar-2025 08:36						
COD	109	10.0	10.0	mg/L	100		109	90-110			
DL (BNC0296-BS2)					Prepared: 13-Mar-2025 Analyzed: 14-Mar-2025 08:59						
COD	107	10.0	10.0	mg/L	100		107	90-110			
DL (BNC0296-BS3)					Prepared: 13-Mar-2025 Analyzed: 14-Mar-2025 09:12						
COD	104	10.0	10.0	mg/L	100		104	90-110			
Duplicate (BNC0296-DUP1)					Source: 25B0568-01 Prepared: 13-Mar-2025 Analyzed: 14-Mar-2025 08:43						
COD	ND	10.0	10.0	mg/L		ND			10		U
Matrix Spike (BNC0296-MS1)					Source: 25B0568-01 Prepared: 13-Mar-2025 Analyzed: 14-Mar-2025 08:46						
COD	108	10.0	20.0	mg/L	100	ND	108	90-110			

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



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Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 1613B in Water</i>	
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



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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
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	NELAP,DoD-ELAP,WADOE
Nitrite-N	WADOE,NELAP,DoD-ELAP

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
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

EPA 6020B in Water

Antimony-121	DoD-ELAP,NELAP,WADOE
Arsenic-75a UCT	DoD-ELAP,WADOE
Barium-135	DoD-ELAP,NELAP,WADOE,ADEC
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



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Nickel-60 UCT	DoD-ELAP,WADOE
Selenium-78 UCT	DoD-ELAP,WADOE
Silver-107	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
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-Chlordane)	DoD-ELAP,NELAP,WADOE
trans-Chlordane (beta-Chlordane)	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



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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
Oxychlordane	DoD-ELAP,NELAP,WADOE
Oxychlordane [2C]	DoD-ELAP,NELAP,WADOE
Chlordane, technical	DoD-ELAP,NELAP,WADOE
Chlordane, technical [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



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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
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



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o-Xylene	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
1,4-Dioxane	DoD-ELAP,WADOE,NELAP



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Project: Snipes MTN Landfill 2025

Project Number: [none]
Project Manager: Eric Cutler

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31-Mar-2025 11:57

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



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



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Project: Snipes MTN Landfill 2025

Project Number: [none]
Project Manager: Eric Cutler

Reported:
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2,3,4,6-Tetrachlorophenol

DoD-ELAP,WADOE

EPA 8270E-SIM in Water

Naphthalene

ADEC,DoD-ELAP,NELAP,WADOE

2-Methylnaphthalene

ADEC,DoD-ELAP,NELAP

1-Methylnaphthalene

ADEC,DoD-ELAP,NELAP,WADOE

Acenaphthylene

ADEC,DoD-ELAP,NELAP,WADOE

Acenaphthene

ADEC,DoD-ELAP,NELAP,WADOE

Dibenzofuran

ADEC,DoD-ELAP,NELAP

Fluorene

ADEC,DoD-ELAP,NELAP,WADOE

Phenanthrene

ADEC,DoD-ELAP,NELAP,WADOE

Anthracene

ADEC,DoD-ELAP,NELAP,WADOE

Carbazole

NELAP

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

Benzo(b)fluoranthene

ADEC,DoD-ELAP,NELAP,WADOE

Benzo(k)fluoranthene

ADEC,DoD-ELAP,NELAP,WADOE

Benzo(j)fluoranthene

ADEC,DoD-ELAP,NELAP,WADOE

Benzo(a)pyrene

ADEC,DoD-ELAP,NELAP,WADOE

Perylene

ADEC,NELAP

Indeno(1,2,3-cd)pyrene

ADEC,DoD-ELAP,NELAP,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, 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



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Project: Snipes MTN Landfill 2025

Project Number: [none]

Project Manager: Eric Cutler

Reported:

31-Mar-2025 11:57

Ammonia-N

WADOE,DoD-ELAP,NELAP

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	WA100006-012	05/12/2025
WADOE	WA Dept of Ecology	C558	06/30/2025
WA-DW	Ecology - Drinking Water	C558	06/30/2025



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Project: Snipes MTN Landfill 2025
Project Number: [none]
Project Manager: Eric Cutler

Reported:
31-Mar-2025 11:57

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)
H	Hold time violation - Hold time was exceeded.
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
M	Estimated value for a GC/MS analyte detected and confirmed by an analyst but with low spectral match parameters.
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).
V	Sample container has been compromised
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.



ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Yakima - Snipes RI, Project 518300030

JOB NUMBER

320-119478-1

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Job Notes

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Definitions/Glossary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
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: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

Job ID: 320-119478-1

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Job Narrative 320-119478-1

Receipt

The samples were received on 3/1/2025 9:05 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 was 6.4° C, which is slightly above the recommended temperature range.

LCMS

Method 1633: Some results for the following sample were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits. SMW-5S (320-119478-3)

Method 1633: The following samples in preparation batch 320-837832 were observed to have a thin layer of sediment present in the bottom of the bottle prior to extraction: SMW-5D (320-119478-4).

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

GC/MS Semi VOA

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

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Detection Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

Client Sample ID: SMW-1

Lab Sample ID: 320-119478-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.70	J	1.6	0.39	ng/L	1		1633	Total/NA

Client Sample ID: SMW-4

Lab Sample ID: 320-119478-2

No Detections.

Client Sample ID: SMW-5S

Lab Sample ID: 320-119478-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	130		1.7	0.42	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	0.86	J	1.7	0.42	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.49	J	1.7	0.42	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	3.1		1.7	0.42	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.1		1.7	0.42	ng/L	1		1633	Total/NA
NMeFOSAA	1.4	J	1.7	0.42	ng/L	1		1633	Total/NA
3:3 FTCA	7.6		3.4	0.84	ng/L	1		1633	Total/NA
Perfluorobutanoic acid (PFBA) - DL	420		17	4.2	ng/L	5		1633	Total/NA

Client Sample ID: SMW-5D

Lab Sample ID: 320-119478-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.2	J	3.4	0.86	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	3.9		1.7	0.43	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	4.7		1.7	0.43	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	0.91	J	1.7	0.43	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: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

Client Sample ID: SMW-1

Lab Sample ID: 320-119478-1

Date Collected: 02/26/25 09:10

Matrix: Water

Date Received: 03/01/25 09:05

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		3.2	0.79	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluoropentanoic acid (PFPeA)	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluorohexanoic acid (PFHxA)	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluorooctanoic acid (PFOA)	0.70	J	1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.43	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.6	0.46	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.6	0.64	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.42	ng/L		03/06/25 04:26	03/06/25 23:44	1
4:2 FTS	ND		3.2	0.79	ng/L		03/06/25 04:26	03/06/25 23:44	1
6:2 FTS	ND		3.2	0.79	ng/L		03/06/25 04:26	03/06/25 23:44	1
8:2 FTS	ND		3.2	0.79	ng/L		03/06/25 04:26	03/06/25 23:44	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
NMeFOSA	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
NEtFOSA	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
NMeFOSAA	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
NEtFOSAA	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
NMeFOSE	ND		7.9	2.0	ng/L		03/06/25 04:26	03/06/25 23:44	1
NEtFOSE	ND		7.9	2.0	ng/L		03/06/25 04:26	03/06/25 23:44	1
HFPO-DA (GenX)	ND		1.2	0.31	ng/L		03/06/25 04:26	03/06/25 23:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
PFMPA	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
PFMBA	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
NFDHA	ND		1.6	0.57	ng/L		03/06/25 04:26	03/06/25 23:44	1
9Cl-PF3ONS	ND		1.6	0.46	ng/L		03/06/25 04:26	03/06/25 23:44	1
11Cl-PF3OUdS	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
PFEESA	ND		1.6	0.39	ng/L		03/06/25 04:26	03/06/25 23:44	1
3:3 FTCA	ND		3.2	0.79	ng/L		03/06/25 04:26	03/06/25 23:44	1
5:3 FTCA	ND		7.9	2.0	ng/L		03/06/25 04:26	03/06/25 23:44	1
7:3 FTCA	ND		7.9	2.0	ng/L		03/06/25 04:26	03/06/25 23:44	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	64.5		5 - 130				03/06/25 04:26	03/06/25 23:44	1
13C5 PFPeA	67.3		40 - 130				03/06/25 04:26	03/06/25 23:44	1
13C5 PFHxA	72.7		40 - 130				03/06/25 04:26	03/06/25 23:44	1
13C4 PFHpA	70.3		40 - 130				03/06/25 04:26	03/06/25 23:44	1
13C8 PFOA	69.5		40 - 130				03/06/25 04:26	03/06/25 23:44	1

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Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

Client Sample ID: SMW-1

Lab Sample ID: 320-119478-1

Date Collected: 02/26/25 09:10

Matrix: Water

Date Received: 03/01/25 09:05

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	75.8		40 - 130	03/06/25 04:26	03/06/25 23:44	1
13C6 PFDA	75.6		40 - 130	03/06/25 04:26	03/06/25 23:44	1
13C7 PFUnA	80.2		30 - 130	03/06/25 04:26	03/06/25 23:44	1
13C2 PFDoA	74.9		10 - 130	03/06/25 04:26	03/06/25 23:44	1
13C2 PFTeDA	74.6		10 - 130	03/06/25 04:26	03/06/25 23:44	1
13C3 PFBS	71.8		40 - 135	03/06/25 04:26	03/06/25 23:44	1
13C3 PFHxS	72.0		40 - 130	03/06/25 04:26	03/06/25 23:44	1
13C8 PFOS	73.5		40 - 130	03/06/25 04:26	03/06/25 23:44	1
13C8 FOSA	71.8		40 - 130	03/06/25 04:26	03/06/25 23:44	1
d3-NMeFOSAA	74.3		40 - 170	03/06/25 04:26	03/06/25 23:44	1
d5-NEtFOSAA	74.3		25 - 135	03/06/25 04:26	03/06/25 23:44	1
13C2 4:2 FTS	132		40 - 200	03/06/25 04:26	03/06/25 23:44	1
13C2 6:2 FTS	87.1		40 - 200	03/06/25 04:26	03/06/25 23:44	1
13C2 8:2 FTS	78.0		40 - 300	03/06/25 04:26	03/06/25 23:44	1
13C3 HFPO-DA	66.7		40 - 130	03/06/25 04:26	03/06/25 23:44	1
d7-N-MeFOSE-M	68.4		10 - 130	03/06/25 04:26	03/06/25 23:44	1
d9-N-EtFOSE-M	66.7		10 - 130	03/06/25 04:26	03/06/25 23:44	1
d5-NEtPFOSA	66.2		10 - 130	03/06/25 04:26	03/06/25 23:44	1
d3-NMePFOSA	70.7		10 - 130	03/06/25 04:26	03/06/25 23:44	1

Method: SW846 8321B - Herbicides (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	ND		2.5	0.22	ug/L			03/05/25 14:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	113		70 - 130					03/05/25 14:18	1

Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

Client Sample ID: SMW-4

Lab Sample ID: 320-119478-2

Date Collected: 02/26/25 11:40

Matrix: Water

Date Received: 03/01/25 09:05

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		3.3	0.82	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluoropentanoic acid (PFPeA)	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluorohexanoic acid (PFHxA)	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluorooctanoic acid (PFOA)	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.45	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.6	0.47	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.6	0.66	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.43	ng/L		03/06/25 04:26	03/07/25 00:33	1
4:2 FTS	ND		3.3	0.82	ng/L		03/06/25 04:26	03/07/25 00:33	1
6:2 FTS	ND		3.3	0.82	ng/L		03/06/25 04:26	03/07/25 00:33	1
8:2 FTS	ND		3.3	0.82	ng/L		03/06/25 04:26	03/07/25 00:33	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
NMeFOSA	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
NEtFOSA	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
NMeFOSAA	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
NEtFOSAA	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
NMeFOSE	ND		8.2	2.0	ng/L		03/06/25 04:26	03/07/25 00:33	1
NEtFOSE	ND		8.2	2.0	ng/L		03/06/25 04:26	03/07/25 00:33	1
HFPO-DA (GenX)	ND		1.2	0.32	ng/L		03/06/25 04:26	03/07/25 00:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
PFMPA	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
PFMBA	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
NFDHA	ND		1.6	0.59	ng/L		03/06/25 04:26	03/07/25 00:33	1
9CI-PF3ONS	ND		1.6	0.47	ng/L		03/06/25 04:26	03/07/25 00:33	1
11CI-PF3OUdS	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
PFEESA	ND		1.6	0.41	ng/L		03/06/25 04:26	03/07/25 00:33	1
3:3 FTCA	ND		3.3	0.82	ng/L		03/06/25 04:26	03/07/25 00:33	1
5:3 FTCA	ND		8.2	2.0	ng/L		03/06/25 04:26	03/07/25 00:33	1
7:3 FTCA	ND		8.2	2.0	ng/L		03/06/25 04:26	03/07/25 00:33	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	99.9		5 - 130				03/06/25 04:26	03/07/25 00:33	1
13C5 PFPeA	101		40 - 130				03/06/25 04:26	03/07/25 00:33	1
13C5 PFHxA	101		40 - 130				03/06/25 04:26	03/07/25 00:33	1
13C4 PFHpA	102		40 - 130				03/06/25 04:26	03/07/25 00:33	1
13C8 PFOA	101		40 - 130				03/06/25 04:26	03/07/25 00:33	1

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Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

Client Sample ID: SMW-4

Lab Sample ID: 320-119478-2

Date Collected: 02/26/25 11:40

Matrix: Water

Date Received: 03/01/25 09:05

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	103		40 - 130	03/06/25 04:26	03/07/25 00:33	1
13C6 PFDA	105		40 - 130	03/06/25 04:26	03/07/25 00:33	1
13C7 PFUnA	102		30 - 130	03/06/25 04:26	03/07/25 00:33	1
13C2 PFDoA	92.9		10 - 130	03/06/25 04:26	03/07/25 00:33	1
13C2 PFTeDA	88.7		10 - 130	03/06/25 04:26	03/07/25 00:33	1
13C3 PFBS	101		40 - 135	03/06/25 04:26	03/07/25 00:33	1
13C3 PFHxS	105		40 - 130	03/06/25 04:26	03/07/25 00:33	1
13C8 PFOS	99.3		40 - 130	03/06/25 04:26	03/07/25 00:33	1
13C8 FOSA	96.7		40 - 130	03/06/25 04:26	03/07/25 00:33	1
d3-NMeFOSAA	91.2		40 - 170	03/06/25 04:26	03/07/25 00:33	1
d5-NEtFOSAA	92.2		25 - 135	03/06/25 04:26	03/07/25 00:33	1
13C2 4:2 FTS	113		40 - 200	03/06/25 04:26	03/07/25 00:33	1
13C2 6:2 FTS	99.4		40 - 200	03/06/25 04:26	03/07/25 00:33	1
13C2 8:2 FTS	98.8		40 - 300	03/06/25 04:26	03/07/25 00:33	1
13C3 HFPO-DA	102		40 - 130	03/06/25 04:26	03/07/25 00:33	1
d7-N-MeFOSE-M	78.7		10 - 130	03/06/25 04:26	03/07/25 00:33	1
d9-N-EtFOSE-M	82.3		10 - 130	03/06/25 04:26	03/07/25 00:33	1
d5-NEtPFOSA	79.4		10 - 130	03/06/25 04:26	03/07/25 00:33	1
d3-NMePFOSA	86.4		10 - 130	03/06/25 04:26	03/07/25 00:33	1

Method: SW846 8321B - Herbicides (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	ND		2.5	0.22	ug/L			03/05/25 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	128		70 - 130					03/05/25 14:25	1

Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

Client Sample ID: SMW-5S

Lab Sample ID: 320-119478-3

Date Collected: 02/27/25 08:10

Matrix: Water

Date Received: 03/01/25 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	130		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluorohexanoic acid (PFHxA)	0.86	J	1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluoroheptanoic acid (PFHpA)	0.49	J	1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluorooctanoic acid (PFOA)	3.1		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.46	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.7	0.49	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.68	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluorooctanesulfonic acid (PFOS)	2.1		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.44	ng/L		03/06/25 04:26	03/07/25 00:49	1
4:2 FTS	ND		3.4	0.84	ng/L		03/06/25 04:26	03/07/25 00:49	1
6:2 FTS	ND		3.4	0.84	ng/L		03/06/25 04:26	03/07/25 00:49	1
8:2 FTS	ND		3.4	0.84	ng/L		03/06/25 04:26	03/07/25 00:49	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
NMeFOSA	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
NEtFOSA	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
NMeFOSAA	1.4	J	1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
NEtFOSAA	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
NMeFOSE	ND		8.4	2.1	ng/L		03/06/25 04:26	03/07/25 00:49	1
NEtFOSE	ND		8.4	2.1	ng/L		03/06/25 04:26	03/07/25 00:49	1
HFPO-DA (GenX)	ND		1.3	0.33	ng/L		03/06/25 04:26	03/07/25 00:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
PFMPA	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
PFMBA	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
NFDHA	ND		1.7	0.60	ng/L		03/06/25 04:26	03/07/25 00:49	1
9CI-PF3ONS	ND		1.7	0.49	ng/L		03/06/25 04:26	03/07/25 00:49	1
11CI-PF3OUdS	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
PFEESA	ND		1.7	0.42	ng/L		03/06/25 04:26	03/07/25 00:49	1
3:3 FTCA	7.6		3.4	0.84	ng/L		03/06/25 04:26	03/07/25 00:49	1
5:3 FTCA	ND		8.4	2.1	ng/L		03/06/25 04:26	03/07/25 00:49	1
7:3 FTCA	ND		8.4	2.1	ng/L		03/06/25 04:26	03/07/25 00:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFPeA	84.8		40 - 130				03/06/25 04:26	03/07/25 00:49	1
13C5 PFHxA	94.3		40 - 130				03/06/25 04:26	03/07/25 00:49	1
13C4 PFHpA	94.9		40 - 130				03/06/25 04:26	03/07/25 00:49	1
13C8 PFOA	93.9		40 - 130				03/06/25 04:26	03/07/25 00:49	1
13C9 PFNA	96.0		40 - 130				03/06/25 04:26	03/07/25 00:49	1

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Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

Client Sample ID: SMW-5S

Lab Sample ID: 320-119478-3

Date Collected: 02/27/25 08:10

Matrix: Water

Date Received: 03/01/25 09:05

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	100		40 - 130	03/06/25 04:26	03/07/25 00:49	1
13C7 PFUnA	97.5		30 - 130	03/06/25 04:26	03/07/25 00:49	1
13C2 PFDoA	88.4		10 - 130	03/06/25 04:26	03/07/25 00:49	1
13C2 PFTeDA	91.9		10 - 130	03/06/25 04:26	03/07/25 00:49	1
13C3 PFBS	91.2		40 - 135	03/06/25 04:26	03/07/25 00:49	1
13C3 PFHxS	95.6		40 - 130	03/06/25 04:26	03/07/25 00:49	1
13C8 PFOS	96.4		40 - 130	03/06/25 04:26	03/07/25 00:49	1
13C8 FOSA	96.0		40 - 130	03/06/25 04:26	03/07/25 00:49	1
d3-NMeFOSAA	95.8		40 - 170	03/06/25 04:26	03/07/25 00:49	1
d5-NEtFOSAA	98.7		25 - 135	03/06/25 04:26	03/07/25 00:49	1
13C2 4:2 FTS	144		40 - 200	03/06/25 04:26	03/07/25 00:49	1
13C2 6:2 FTS	126		40 - 200	03/06/25 04:26	03/07/25 00:49	1
13C2 8:2 FTS	123		40 - 300	03/06/25 04:26	03/07/25 00:49	1
13C3 HFPO-DA	95.7		40 - 130	03/06/25 04:26	03/07/25 00:49	1
d7-N-MeFOSE-M	82.7		10 - 130	03/06/25 04:26	03/07/25 00:49	1
d9-N-EtFOSE-M	74.6		10 - 130	03/06/25 04:26	03/07/25 00:49	1
d5-NEtPFOSA	86.8		10 - 130	03/06/25 04:26	03/07/25 00:49	1
d3-NMePFOSA	91.8		10 - 130	03/06/25 04:26	03/07/25 00:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	420		17	4.2	ng/L		03/06/25 04:26	03/07/25 09:35	5
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	95.6	*3	5 - 130				03/06/25 04:26	03/07/25 09:35	5

Method: SW846 8321B - Herbicides (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	ND		2.5	0.22	ug/L			03/05/25 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	125		70 - 130					03/05/25 14:33	1

Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

Client Sample ID: SMW-5D

Lab Sample ID: 320-119478-4

Date Collected: 02/26/25 15:45

Matrix: Water

Date Received: 03/01/25 09:05

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)	3.2	J	3.4	0.86	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluoropentanoic acid (PFPeA)	3.9		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluorooctanoic acid (PFOA)	4.7		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluorodecanoic acid (PFDA)	0.91	J	1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.47	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.7	0.50	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.70	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.46	ng/L		03/06/25 04:26	03/07/25 01:06	1
4:2 FTS	ND		3.4	0.86	ng/L		03/06/25 04:26	03/07/25 01:06	1
6:2 FTS	ND		3.4	0.86	ng/L		03/06/25 04:26	03/07/25 01:06	1
8:2 FTS	ND		3.4	0.86	ng/L		03/06/25 04:26	03/07/25 01:06	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
NMeFOSA	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
NEtFOSA	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
NMeFOSAA	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
NEtFOSAA	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
NMeFOSE	ND		8.6	2.1	ng/L		03/06/25 04:26	03/07/25 01:06	1
NEtFOSE	ND		8.6	2.1	ng/L		03/06/25 04:26	03/07/25 01:06	1
HFPO-DA (GenX)	ND		1.3	0.33	ng/L		03/06/25 04:26	03/07/25 01:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
PFMPA	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
PFMBA	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
NFDHA	ND		1.7	0.62	ng/L		03/06/25 04:26	03/07/25 01:06	1
9Cl-PF3ONS	ND		1.7	0.50	ng/L		03/06/25 04:26	03/07/25 01:06	1
11Cl-PF3OUdS	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
PFEESA	ND		1.7	0.43	ng/L		03/06/25 04:26	03/07/25 01:06	1
3:3 FTCA	ND		3.4	0.86	ng/L		03/06/25 04:26	03/07/25 01:06	1
5:3 FTCA	ND		8.6	2.1	ng/L		03/06/25 04:26	03/07/25 01:06	1
7:3 FTCA	ND		8.6	2.1	ng/L		03/06/25 04:26	03/07/25 01:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	98.6		5 - 130				03/06/25 04:26	03/07/25 01:06	1
13C5 PFPeA	94.9		40 - 130				03/06/25 04:26	03/07/25 01:06	1
13C5 PFHxA	99.7		40 - 130				03/06/25 04:26	03/07/25 01:06	1
13C4 PFHpA	102		40 - 130				03/06/25 04:26	03/07/25 01:06	1
13C8 PFOA	100		40 - 130				03/06/25 04:26	03/07/25 01:06	1

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Client Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

Client Sample ID: SMW-5D

Lab Sample ID: 320-119478-4

Date Collected: 02/26/25 15:45

Matrix: Water

Date Received: 03/01/25 09:05

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	104		40 - 130	03/06/25 04:26	03/07/25 01:06	1
13C6 PFDA	95.2		40 - 130	03/06/25 04:26	03/07/25 01:06	1
13C7 PFUnA	94.4		30 - 130	03/06/25 04:26	03/07/25 01:06	1
13C2 PFDoA	88.1		10 - 130	03/06/25 04:26	03/07/25 01:06	1
13C2 PFTeDA	76.0		10 - 130	03/06/25 04:26	03/07/25 01:06	1
13C3 PFBS	102		40 - 135	03/06/25 04:26	03/07/25 01:06	1
13C3 PFHxS	97.3		40 - 130	03/06/25 04:26	03/07/25 01:06	1
13C8 PFOS	92.2		40 - 130	03/06/25 04:26	03/07/25 01:06	1
13C8 FOSA	97.5		40 - 130	03/06/25 04:26	03/07/25 01:06	1
d3-NMeFOSAA	93.6		40 - 170	03/06/25 04:26	03/07/25 01:06	1
d5-NEtFOSAA	93.2		25 - 135	03/06/25 04:26	03/07/25 01:06	1
13C2 4:2 FTS	108		40 - 200	03/06/25 04:26	03/07/25 01:06	1
13C2 6:2 FTS	108		40 - 200	03/06/25 04:26	03/07/25 01:06	1
13C2 8:2 FTS	96.3		40 - 300	03/06/25 04:26	03/07/25 01:06	1
13C3 HFPO-DA	94.9		40 - 130	03/06/25 04:26	03/07/25 01:06	1
d7-N-MeFOSE-M	73.0		10 - 130	03/06/25 04:26	03/07/25 01:06	1
d9-N-EtFOSE-M	69.9		10 - 130	03/06/25 04:26	03/07/25 01:06	1
d5-NEtPFOSA	77.3		10 - 130	03/06/25 04:26	03/07/25 01:06	1
d3-NMePFOSA	87.8		10 - 130	03/06/25 04:26	03/07/25 01:06	1

Method: SW846 8321B - Herbicides (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	ND		2.5	0.22	ug/L	-		03/05/25 14:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	128		70 - 130					03/05/25 14:41	1

Surrogate Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

Method: 8321B - Herbicides (LC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPAA (70-130)
320-119478-1	SMW-1	113
320-119478-1 MS	SMW-1	110
320-119478-1 MSD	SMW-1	109
320-119478-2	SMW-4	128
320-119478-3	SMW-5S	125
320-119478-4	SMW-5D	128
LCS 570-541380/2	Lab Control Sample	119
LCSD 570-541380/3	Lab Control Sample Dup	112
MB 570-541380/6	Method Blank	91

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

Isotope Dilution Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

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)
320-119478-1	SMW-1	64.5	67.3	72.7	70.3	69.5	75.8	75.6	80.2
320-119478-2	SMW-4	99.9	101	101	102	101	103	105	102
320-119478-3	SMW-5S		84.8	94.3	94.9	93.9	96.0	100	97.5
320-119478-3 - DL	SMW-5S	95.6 *3							
320-119478-4	SMW-5D	98.6	94.9	99.7	102	100	104	95.2	94.4
LCS 320-837832/3-A	Lab Control Sample	101	95.2	98.2	92.8	97.7	92.4	93.5	89.2
LCSD 320-837832/4-A	Lab Control Sample Dup	98.7	104	99.9	98.9	92.5	97.4	92.5	97.9
LLCS 320-837832/2-A	Lab Control Sample	98.3	99.4	98.9	102	95.1	94.3	98.4	99.2
MB 320-837832/1-A	Method Blank	102	104	98.8	94.1	99.1	104	97.0	102

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)
320-119478-1	SMW-1	74.9	74.6	71.8	72.0	73.5	71.8	74.3	74.3
320-119478-2	SMW-4	92.9	88.7	101	105	99.3	96.7	91.2	92.2
320-119478-3	SMW-5S	88.4	91.9	91.2	95.6	96.4	96.0	95.8	98.7
320-119478-3 - DL	SMW-5S								
320-119478-4	SMW-5D	88.1	76.0	102	97.3	92.2	97.5	93.6	93.2
LCS 320-837832/3-A	Lab Control Sample	89.1	89.1	93.8	91.7	91.6	87.6	86.7	87.4
LCSD 320-837832/4-A	Lab Control Sample Dup	89.8	81.8	97.1	95.6	94.5	92.1	89.3	90.3
LLCS 320-837832/2-A	Lab Control Sample	98.2	95.4	102	97.9	97.5	95.1	92.2	96.1
MB 320-837832/1-A	Method Blank	101	94.4	98.1	96.5	97.7	95.5	97.4	98.2

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)
320-119478-1	SMW-1	132	87.1	78.0	66.7	68.4	66.7	66.2	70.7
320-119478-2	SMW-4	113	99.4	98.8	102	78.7	82.3	79.4	86.4
320-119478-3	SMW-5S	144	126	123	95.7	82.7	74.6	86.8	91.8
320-119478-3 - DL	SMW-5S								
320-119478-4	SMW-5D	108	108	96.3	94.9	73.0	69.9	77.3	87.8
LCS 320-837832/3-A	Lab Control Sample	97.7	92.2	86.4	92.6	77.4	74.7	72.8	75.3
LCSD 320-837832/4-A	Lab Control Sample Dup	106	99.2	90.9	97.8	79.9	72.5	75.9	79.0
LLCS 320-837832/2-A	Lab Control Sample	109	102	97.2	89.3	86.8	78.9	79.0	86.2
MB 320-837832/1-A	Method Blank	101	99.5	97.4	92.4	80.8	79.5	80.6	87.7

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: 320-119478-1

Project/Site: Yakima - Snipes RI, Project 518300030

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

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QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

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

Lab Sample ID: MB 320-837832/1-A

Matrix: Water

Analysis Batch: 838148

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 837832

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.0	1.0	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluorotridecanoic acid (PFTTrDA)	ND		2.0	0.58	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.81	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.53	ng/L		03/06/25 04:26	03/06/25 21:16	1
4:2 FTS	ND		4.0	1.0	ng/L		03/06/25 04:26	03/06/25 21:16	1
6:2 FTS	ND		4.0	1.0	ng/L		03/06/25 04:26	03/06/25 21:16	1
8:2 FTS	ND		4.0	1.0	ng/L		03/06/25 04:26	03/06/25 21:16	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
NMeFOSA	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
NEtFOSA	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
NMeFOSAA	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
NEtFOSAA	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
NMeFOSE	ND		10	2.5	ng/L		03/06/25 04:26	03/06/25 21:16	1
NEtFOSE	ND		10	2.5	ng/L		03/06/25 04:26	03/06/25 21:16	1
HFPO-DA (GenX)	ND		1.5	0.39	ng/L		03/06/25 04:26	03/06/25 21:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
PFMPA	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
PFMBA	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
NFDHA	ND		2.0	0.72	ng/L		03/06/25 04:26	03/06/25 21:16	1
9Cl-PF3ONS	ND		2.0	0.58	ng/L		03/06/25 04:26	03/06/25 21:16	1
11Cl-PF3OUdS	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
PFEESA	ND		2.0	0.50	ng/L		03/06/25 04:26	03/06/25 21:16	1
3:3 FTCA	ND		4.0	1.0	ng/L		03/06/25 04:26	03/06/25 21:16	1
5:3 FTCA	ND		10	2.5	ng/L		03/06/25 04:26	03/06/25 21:16	1
7:3 FTCA	ND		10	2.5	ng/L		03/06/25 04:26	03/06/25 21:16	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	102		5 - 130	03/06/25 04:26	03/06/25 21:16	1
13C5 PFPeA	104		40 - 130	03/06/25 04:26	03/06/25 21:16	1
13C5 PFHxA	98.8		40 - 130	03/06/25 04:26	03/06/25 21:16	1

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QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

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

Lab Sample ID: MB 320-837832/1-A

Matrix: Water

Analysis Batch: 838148

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 837832

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	94.1		40 - 130	03/06/25 04:26	03/06/25 21:16	1
13C8 PFOA	99.1		40 - 130	03/06/25 04:26	03/06/25 21:16	1
13C9 PFNA	104		40 - 130	03/06/25 04:26	03/06/25 21:16	1
13C6 PFDA	97.0		40 - 130	03/06/25 04:26	03/06/25 21:16	1
13C7 PFUnA	102		30 - 130	03/06/25 04:26	03/06/25 21:16	1
13C2 PFDoA	101		10 - 130	03/06/25 04:26	03/06/25 21:16	1
13C2 PFTeDA	94.4		10 - 130	03/06/25 04:26	03/06/25 21:16	1
13C3 PFBS	98.1		40 - 135	03/06/25 04:26	03/06/25 21:16	1
13C3 PFHxS	96.5		40 - 130	03/06/25 04:26	03/06/25 21:16	1
13C8 PFOS	97.7		40 - 130	03/06/25 04:26	03/06/25 21:16	1
13C8 FOSA	95.5		40 - 130	03/06/25 04:26	03/06/25 21:16	1
d3-NMeFOSAA	97.4		40 - 170	03/06/25 04:26	03/06/25 21:16	1
d5-NEtFOSAA	98.2		25 - 135	03/06/25 04:26	03/06/25 21:16	1
13C2 4:2 FTS	101		40 - 200	03/06/25 04:26	03/06/25 21:16	1
13C2 6:2 FTS	99.5		40 - 200	03/06/25 04:26	03/06/25 21:16	1
13C2 8:2 FTS	97.4		40 - 300	03/06/25 04:26	03/06/25 21:16	1
13C3 HFPO-DA	92.4		40 - 130	03/06/25 04:26	03/06/25 21:16	1
d7-N-MeFOSE-M	80.8		10 - 130	03/06/25 04:26	03/06/25 21:16	1
d9-N-EtFOSE-M	79.5		10 - 130	03/06/25 04:26	03/06/25 21:16	1
d5-NEtPFOSA	80.6		10 - 130	03/06/25 04:26	03/06/25 21:16	1
d3-NMePFOSA	87.7		10 - 130	03/06/25 04:26	03/06/25 21:16	1

Lab Sample ID: LCS 320-837832/3-A

Matrix: Water

Analysis Batch: 838148

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 837832

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	74.4		ng/L		93	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	38.5		ng/L		96	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	37.3		ng/L		93	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	39.0		ng/L		98	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	38.3		ng/L		96	70 - 150
Perfluorononanoic acid (PFNA)	40.0	37.8		ng/L		94	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	37.4		ng/L		93	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	39.5		ng/L		99	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	38.8		ng/L		97	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	40.0	37.4		ng/L		93	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	37.6		ng/L		94	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	34.5		ng/L		97	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	35.6		ng/L		95	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.2		ng/L		97	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	38.6		ng/L		101	70 - 150

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QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

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

Lab Sample ID: LCS 320-837832/3-A

Matrix: Water

Analysis Batch: 838148

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 837832

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	37.2	35.5		ng/L		96	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	37.5		ng/L		97	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	37.0		ng/L		96	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	36.6		ng/L		94	50 - 145
4:2 FTS	75.0	75.3		ng/L		100	70 - 145
6:2 FTS	76.2	74.6		ng/L		98	65 - 155
8:2 FTS	76.8	78.8		ng/L		103	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	38.6		ng/L		97	70 - 145
NMeFOSA	40.0	40.5		ng/L		101	60 - 150
NEtFOSA	40.0	40.8		ng/L		102	65 - 145
NMeFOSAA	40.0	38.8		ng/L		97	50 - 140
NEtFOSAA	40.0	37.8		ng/L		95	70 - 145
NMeFOSE	200	194		ng/L		97	70 - 145
NEtFOSE	200	190		ng/L		95	70 - 135
HFPO-DA (GenX)	30.0	28.8		ng/L		96	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	35.8		ng/L		95	65 - 145
PFMPA	40.0	39.8		ng/L		100	55 - 140
PFMBA	40.0	40.7		ng/L		102	60 - 150
NFDHA	40.0	34.4		ng/L		86	50 - 150
9Cl-PF3ONS	37.4	34.4		ng/L		92	70 - 155
11Cl-PF3OUdS	37.8	34.3		ng/L		91	55 - 160
PFEESA	35.7	33.3		ng/L		93	70 - 140
3:3 FTCA	80.0	77.2		ng/L		97	65 - 130
5:3 FTCA	200	186		ng/L		93	70 - 135
7:3 FTCA	200	167		ng/L		84	50 - 145

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	101		5 - 130
13C5 PFPeA	95.2		40 - 130
13C5 PFHxA	98.2		40 - 130
13C4 PFHpA	92.8		40 - 130
13C8 PFOA	97.7		40 - 130
13C9 PFNA	92.4		40 - 130
13C6 PFDA	93.5		40 - 130
13C7 PFUnA	89.2		30 - 130
13C2 PFDoA	89.1		10 - 130
13C2 PFTeDA	89.1		10 - 130
13C3 PFBS	93.8		40 - 135
13C3 PFHxS	91.7		40 - 130
13C8 PFOS	91.6		40 - 130
13C8 FOSA	87.6		40 - 130
d3-NMeFOSAA	86.7		40 - 170
d5-NEtFOSAA	87.4		25 - 135
13C2 4:2 FTS	97.7		40 - 200

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QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

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

Lab Sample ID: LCS 320-837832/3-A

Matrix: Water

Analysis Batch: 838148

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 837832

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 6:2 FTS	92.2		40 - 200
13C2 8:2 FTS	86.4		40 - 300
13C3 HFPO-DA	92.6		40 - 130
d7-N-MeFOSE-M	77.4		10 - 130
d9-N-EtFOSE-M	74.7		10 - 130
d5-NEtPFOSA	72.8		10 - 130
d3-NMePFOSA	75.3		10 - 130

Lab Sample ID: LCSD 320-837832/4-A

Matrix: Water

Analysis Batch: 838148

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 837832

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	80.0	78.3		ng/L		98	70 - 140	5	30
Perfluoropentanoic acid (PFPeA)	40.0	39.9		ng/L		100	65 - 135	4	30
Perfluorohexanoic acid (PFHxA)	40.0	39.5		ng/L		99	70 - 145	6	30
Perfluoroheptanoic acid (PFHpA)	40.0	40.0		ng/L		100	70 - 150	2	30
Perfluorooctanoic acid (PFOA)	40.0	41.1		ng/L		103	70 - 150	7	30
Perfluorononanoic acid (PFNA)	40.0	39.6		ng/L		99	70 - 150	5	30
Perfluorodecanoic acid (PFDA)	40.0	38.6		ng/L		96	70 - 140	3	30
Perfluoroundecanoic acid (PFUnA)	40.0	36.1		ng/L		90	70 - 145	9	30
Perfluorododecanoic acid (PFDoA)	40.0	37.5		ng/L		94	70 - 140	3	30
Perfluorotridecanoic acid (PFTTrDA)	40.0	38.1		ng/L		95	65 - 140	2	30
Perfluorotetradecanoic acid (PFTeDA)	40.0	38.6		ng/L		96	60 - 140	3	30
Perfluorobutanesulfonic acid (PFBS)	35.5	34.8		ng/L		98	60 - 145	1	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	38.7		ng/L		103	65 - 140	8	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	33.8		ng/L		93	65 - 145	4	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	39.0		ng/L		102	70 - 150	1	30
Perfluorooctanesulfonic acid (PFOS)	37.2	35.9		ng/L		96	55 - 150	1	30
Perfluorononanesulfonic acid (PFNS)	38.5	38.3		ng/L		100	65 - 145	2	30
Perfluorodecanesulfonic acid (PFDS)	38.6	37.4		ng/L		97	60 - 145	1	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	35.6		ng/L		92	50 - 145	3	30
4:2 FTS	75.0	70.6		ng/L		94	70 - 145	6	30
6:2 FTS	76.2	73.8		ng/L		97	65 - 155	1	30
8:2 FTS	76.8	79.6		ng/L		104	60 - 150	1	30
Perfluorooctanesulfonamide (PFOSA)	40.0	39.2		ng/L		98	70 - 145	1	30
NMeFOSA	40.0	40.0		ng/L		100	60 - 150	1	30
NEtFOSA	40.0	40.6		ng/L		101	65 - 145	1	30
NMeFOSAA	40.0	39.6		ng/L		99	50 - 140	2	30

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QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

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

Lab Sample ID: LCSD 320-837832/4-A

Matrix: Water

Analysis Batch: 838148

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 837832

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
NEtFOSAA	40.0	39.2		ng/L		98	70 - 145	4	30
NMeFOSE	200	193		ng/L		96	70 - 145	1	30
NEtFOSE	200	203		ng/L		101	70 - 135	6	30
HFPO-DA (GenX)	30.0	29.4		ng/L		98	70 - 140	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	36.3		ng/L		96	65 - 145	1	30
PFMPA	40.0	39.4		ng/L		99	55 - 140	1	30
PFMBA	40.0	38.5		ng/L		96	60 - 150	6	30
NFDHA	40.0	32.9		ng/L		82	50 - 150	4	30
9Cl-PF3ONS	37.4	37.3		ng/L		100	70 - 155	8	30
11Cl-PF3OUdS	37.8	35.7		ng/L		95	55 - 160	4	30
PFEESA	35.7	36.2		ng/L		101	70 - 140	8	30
3:3 FTCA	80.0	79.3		ng/L		99	65 - 130	3	30
5:3 FTCA	200	200		ng/L		100	70 - 135	7	30
7:3 FTCA	200	177		ng/L		89	50 - 145	6	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C4 PFBA	98.7		5 - 130
13C5 PFPeA	104		40 - 130
13C5 PFHxA	99.9		40 - 130
13C4 PFHpA	98.9		40 - 130
13C8 PFOA	92.5		40 - 130
13C9 PFNA	97.4		40 - 130
13C6 PFDA	92.5		40 - 130
13C7 PFUnA	97.9		30 - 130
13C2 PFDoA	89.8		10 - 130
13C2 PFTeDA	81.8		10 - 130
13C3 PFBS	97.1		40 - 135
13C3 PFHxS	95.6		40 - 130
13C8 PFOS	94.5		40 - 130
13C8 FOSA	92.1		40 - 130
d3-NMeFOSAA	89.3		40 - 170
d5-NEtFOSAA	90.3		25 - 135
13C2 4:2 FTS	106		40 - 200
13C2 6:2 FTS	99.2		40 - 200
13C2 8:2 FTS	90.9		40 - 300
13C3 HFPO-DA	97.8		40 - 130
d7-N-MeFOSE-M	79.9		10 - 130
d9-N-EtFOSE-M	72.5		10 - 130
d5-NEtPFOSA	75.9		10 - 130
d3-NMePFOSA	79.0		10 - 130

Lab Sample ID: LLCS 320-837832/2-A

Matrix: Water

Analysis Batch: 838148

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 837832

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	8.45		ng/L		106	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	4.04		ng/L		101	65 - 135

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QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

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

Lab Sample ID: LLCS 320-837832/2-A

Matrix: Water

Analysis Batch: 838148

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 837832

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid (PFHxA)	4.00	4.14		ng/L		104	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	3.59		ng/L		90	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	4.43		ng/L		111	70 - 150
Perfluorononanoic acid (PFNA)	4.00	4.27		ng/L		107	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	4.00		ng/L		100	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	3.93		ng/L		98	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	3.97		ng/L		99	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	4.00	3.83		ng/L		96	65 - 140
Perfluorotetradecanoic acid (PFTTeDA)	4.00	3.90		ng/L		98	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.69		ng/L		104	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.57		ng/L		95	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.63		ng/L		99	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	3.84		ng/L		101	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	3.77		ng/L		101	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	4.05		ng/L		105	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.83		ng/L		99	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.79		ng/L		98	50 - 145
4:2 FTS	7.50	7.31		ng/L		97	70 - 145
6:2 FTS	7.62	7.64		ng/L		100	65 - 155
8:2 FTS	7.68	7.54		ng/L		98	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	3.98		ng/L		100	70 - 145
NMeFOSA	4.00	3.69		ng/L		92	60 - 150
NEtFOSA	4.00	3.81		ng/L		95	65 - 145
NMeFOSAA	4.00	4.12		ng/L		103	50 - 140
NEtFOSAA	4.00	3.88		ng/L		97	70 - 145
NMeFOSE	20.0	19.4		ng/L		97	70 - 145
NEtFOSE	20.0	19.3		ng/L		97	70 - 135
HFPO-DA (GenX)	3.00	3.11		ng/L		104	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	4.13		ng/L		109	65 - 145
PFMPA	4.00	3.97		ng/L		99	55 - 140
PFMBA	4.00	3.87		ng/L		97	60 - 150
NFDHA	4.00	4.60		ng/L		115	50 - 150
9Cl-PF3ONS	3.74	4.03		ng/L		108	70 - 155
11Cl-PF3OUdS	3.78	3.87		ng/L		103	55 - 160
PFEESA	3.57	3.65		ng/L		102	70 - 140
3:3 FTCA	8.00	7.38		ng/L		92	65 - 130
5:3 FTCA	20.0	18.4		ng/L		92	70 - 135
7:3 FTCA	20.0	15.6		ng/L		78	50 - 145

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QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

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

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	98.3		5 - 130
13C5 PFPeA	99.4		40 - 130
13C5 PFHxA	98.9		40 - 130
13C4 PFHpA	102		40 - 130
13C8 PFOA	95.1		40 - 130
13C9 PFNA	94.3		40 - 130
13C6 PFDA	98.4		40 - 130
13C7 PFUnA	99.2		30 - 130
13C2 PFDoA	98.2		10 - 130
13C2 PFTeDA	95.4		10 - 130
13C3 PFBS	102		40 - 135
13C3 PFHxS	97.9		40 - 130
13C8 PFOS	97.5		40 - 130
13C8 FOSA	95.1		40 - 130
d3-NMeFOSAA	92.2		40 - 170
d5-NEtFOSAA	96.1		25 - 135
13C2 4:2 FTS	109		40 - 200
13C2 6:2 FTS	102		40 - 200
13C2 8:2 FTS	97.2		40 - 300
13C3 HFPO-DA	89.3		40 - 130
d7-N-MeFOSE-M	86.8		10 - 130
d9-N-EtFOSE-M	78.9		10 - 130
d5-NEtPFOSA	79.0		10 - 130
d3-NMePFOSA	86.2		10 - 130

Method: 8321B - Herbicides (LC/MS)

Lab Sample ID: MB 570-541380/6

Matrix: Water

Analysis Batch: 541380

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dinoseb	ND		2.5	0.22	ug/L			03/05/25 14:10	1
Surrogate	MB		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
2,4-Dichlorophenylacetic acid (Surr)	91		70 - 130					03/05/25 14:10	1

Lab Sample ID: LCS 570-541380/2

Matrix: Water

Analysis Batch: 541380

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Dinoseb	10.0	11.2		ug/L		112	70 - 130
Surrogate	LCS		Limits				
	%Recovery	Qualifier					
2,4-Dichlorophenylacetic acid (Surr)	119		70 - 130				

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QC Sample Results

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

Method: 8321B - Herbicides (LC/MS) (Continued)

Lab Sample ID: LCSD 570-541380/3

Matrix: Water

Analysis Batch: 541380

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dinoseb			10.0	10.9		ug/L		109	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
2,4-Dichlorophenylacetic acid (Surr)	112		70 - 130								

Lab Sample ID: 320-119478-1 MS

Matrix: Water

Analysis Batch: 541380

Client Sample ID: SMW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dinoseb	ND		10.0	10.7		ug/L		107	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
2,4-Dichlorophenylacetic acid (Surr)	110		70 - 130								

Lab Sample ID: 320-119478-1 MSD

Matrix: Water

Analysis Batch: 541380

Client Sample ID: SMW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dinoseb	ND		10.0	10.3		ug/L		103	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
2,4-Dichlorophenylacetic acid (Surr)	109		70 - 130								

QC Association Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

LCMS

Analysis Batch: 541380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-119478-1	SMW-1	Total/NA	Water	8321B	
320-119478-2	SMW-4	Total/NA	Water	8321B	
320-119478-3	SMW-5S	Total/NA	Water	8321B	
320-119478-4	SMW-5D	Total/NA	Water	8321B	
MB 570-541380/6	Method Blank	Total/NA	Water	8321B	
LCS 570-541380/2	Lab Control Sample	Total/NA	Water	8321B	
LCSD 570-541380/3	Lab Control Sample Dup	Total/NA	Water	8321B	
320-119478-1 MS	SMW-1	Total/NA	Water	8321B	
320-119478-1 MSD	SMW-1	Total/NA	Water	8321B	

Prep Batch: 837832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-119478-1	SMW-1	Total/NA	Water	1633	
320-119478-2	SMW-4	Total/NA	Water	1633	
320-119478-3 - DL	SMW-5S	Total/NA	Water	1633	
320-119478-3	SMW-5S	Total/NA	Water	1633	
320-119478-4	SMW-5D	Total/NA	Water	1633	
MB 320-837832/1-A	Method Blank	Total/NA	Water	1633	
LCS 320-837832/3-A	Lab Control Sample	Total/NA	Water	1633	
LCSD 320-837832/4-A	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 320-837832/2-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 838148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-119478-1	SMW-1	Total/NA	Water	1633	837832
320-119478-2	SMW-4	Total/NA	Water	1633	837832
320-119478-3	SMW-5S	Total/NA	Water	1633	837832
320-119478-4	SMW-5D	Total/NA	Water	1633	837832
MB 320-837832/1-A	Method Blank	Total/NA	Water	1633	837832
LCS 320-837832/3-A	Lab Control Sample	Total/NA	Water	1633	837832
LCSD 320-837832/4-A	Lab Control Sample Dup	Total/NA	Water	1633	837832
LLCS 320-837832/2-A	Lab Control Sample	Total/NA	Water	1633	837832

Analysis Batch: 838149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-119478-3 - DL	SMW-5S	Total/NA	Water	1633	837832

Lab Chronicle

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

Client Sample ID: SMW-1

Date Collected: 02/26/25 09:10

Date Received: 03/01/25 09:05

Lab Sample ID: 320-119478-1

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			158.6 mL	5.0 mL	837832	03/06/25 04:26	RMF	EET SAC
Total/NA	Analysis	1633		1			838148	03/06/25 23:44	K1D	EET SAC
Total/NA	Analysis	8321B		1	0.5 mL	1 mL	541380	03/05/25 14:18	CG	EET CAL 4

Client Sample ID: SMW-4

Date Collected: 02/26/25 11:40

Date Received: 03/01/25 09:05

Lab Sample ID: 320-119478-2

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			152.7 mL	5.0 mL	837832	03/06/25 04:26	RMF	EET SAC
Total/NA	Analysis	1633		1			838148	03/07/25 00:33	K1D	EET SAC
Total/NA	Analysis	8321B		1	0.5 mL	1 mL	541380	03/05/25 14:25	CG	EET CAL 4

Client Sample ID: SMW-5S

Date Collected: 02/27/25 08:10

Date Received: 03/01/25 09:05

Lab Sample ID: 320-119478-3

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			148.9 mL	5.0 mL	837832	03/06/25 04:26	RMF	EET SAC
Total/NA	Analysis	1633		1			838148	03/07/25 00:49	K1D	EET SAC
Total/NA	Prep	1633	DL		148.9 mL	5.0 mL	837832	03/06/25 04:26	RMF	EET SAC
Total/NA	Analysis	1633	DL	5			838149	03/07/25 09:35	SEY	EET SAC
Total/NA	Analysis	8321B		1	0.5 mL	1 mL	541380	03/05/25 14:33	CG	EET CAL 4

Client Sample ID: SMW-5D

Date Collected: 02/26/25 15:45

Date Received: 03/01/25 09:05

Lab Sample ID: 320-119478-4

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			145.6 mL	5.0 mL	837832	03/06/25 04:26	RMF	EET SAC
Total/NA	Analysis	1633		1			838148	03/07/25 01:06	K1D	EET SAC
Total/NA	Analysis	8321B		1	0.5 mL	1 mL	541380	03/05/25 14:41	CG	EET CAL 4

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

Eurofins Sacramento

Accreditation/Certification Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C581	05-05-25

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C916	10-11-25

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
8321B		Water	Dinoseb

Method Summary

Client: Mott MacDonald Consultants, Inc.
Project/Site: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

Method	Method Description	Protocol	Laboratory
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET SAC
8321B	Herbicides (LC/MS)	SW846	EET CAL 4
1633	Solid-Phase Extraction (SPE)	EPA	EET SAC

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: Yakima - Snipes RI, Project 518300030

Job ID: 320-119478-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-119478-1	SMW-1	Water	02/26/25 09:10	03/01/25 09:05
320-119478-2	SMW-4	Water	02/26/25 11:40	03/01/25 09:05
320-119478-3	SMW-5S	Water	02/27/25 08:10	03/01/25 09:05
320-119478-4	SMW-5D	Water	02/26/25 15:45	03/01/25 09:05

Chain of Custody Record & Laboratory Analysis Request

[illegible]

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, not withstanding any provision to the contrary in any contract, purchase order or 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.

00003F

Version 001
Printed 12/23

- 1 Printed 1/23/20
- 2
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- 16



Environment Testing

Sacramento Sample
Receiving Notes (SSRN)Loc 320
119478

Tracking # 7407 9456 4490

Job _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations
File in the job folder with the COCTherm ID L016 Corr Factor (+/-) NA °CIce ☒ Wet _____ Gel _____ Other _____Cooler Custody Seal 2785772, 2785773

Cooler ID _____

Temp Observed: 6.4 °C Corrected 6.4 °CFrom Temp Blank ☒ Sandwich ☒ Sidewall ☐

Opening/Processing The Shipment

	Yes	No	NA
Cooler compromised/tampered with?	☐	☒	☐
Cooler Temperature is acceptable?	☐	☒	☐
Frozen samples show signs of thaw?	☐	☐	☒

Initials DM Date 03/01/25

Unpacking/Labeling The Samples

	Yes	No	NA
Containers are not broken or leaking?	☒	☐	☐
Samples compromised/tampered with?	☐	☒	☐
COC is complete w/o discrepancies	☒	☐	☐
Sample custody seal?	☐	☐	☒
Sample containers have legible labels?	☒	☐	☐
Sample date/times are provided?	☒	☐	☐
Appropriate containers are used?	☒	☐	☐
Sample bottles are completely filled?	☒	☐	☐
Sample preservatives verified?	☐	☐	☒
Is the Field Sampler's name on COC?	☒	☐	☐
Samples w/o discrepancies?	☐	☒	☐
Zero headspace?*	☒	☐	☐
Alkalinity has no headspace?	☐	☐	☒
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☒
Multiphasic samples are not present?	☒	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials SO Date 3/4/25Notes: Out of temp.- No direct contactwith cooling media -ice contained in bags /samples also containedin a separate bag.

Trizma Lot #(s) _____

Ammonium

Acetate Lot #(s) _____

Login Completion

	Yes	No	NA
Receipt Temperature on COC?	☒	☐	☐
NCM Filed?	☒	☐	☐
Samples received within hold time?	☒	☐	☐
Log Release checked in TALS?	☒	☐	☐

Initials SO Date 3/4/25

**880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059**

Loc: 320
119478

320-119478 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northern California, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northern California, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northern California, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northern California, LLC.

Possible Hazard Identification

Unconfirmed

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

Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ *Return To Client*☐ Disposal By Lab

☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:

Date:

Time:

Method of Shipment:

Relinquished by:

Date/Time:

Company

Received by:

Date/Time:

Company	Revenue	Profit	Assets	Liabilities	Equity
Company A	100	20	120	80	40
Company B	150	30	180	120	60
Company C	200	40	240	160	80
Company D	250	50	300	200	100
Company E	300	60	360	240	120
Company F	350	70	420	280	140
Company G	400	80	480	320	160
Company H	450	90	540	360	180
Company I	500	100	600	400	200
Company J	550	110	660	440	220
Company K	600	120	720	480	240
Company L	650	130	780	520	260
Company M	700	140	840	560	280
Company N	750	150	900	600	300
Company O	800	160	960	640	320
Company P	850	170	1020	680	340
Company Q	900	180	1080	720	360
Company R	950	190	1140	760	380
Company S	1000	200	1200	800	400

Relinquished by:

Date/Time:

Company	

Received by:

Date/Time:

Company	Revenue	Profit	Assets	Liabilities	Equity
Company A	100	20	120	80	40
Company B	150	30	180	120	60
Company C	200	40	240	160	80
Company D	250	50	300	200	100
Company E	300	60	360	240	120
Company F	350	70	420	280	140
Company G	400	80	480	320	160
Company H	450	90	540	360	180
Company I	500	100	600	400	200
Company J	550	110	660	440	220
Company K	600	120	720	480	240
Company L	650	130	780	520	260
Company M	700	140	840	560	280
Company N	750	150	900	600	300
Company O	800	160	960	640	320
Company P	850	170	1020	680	340
Company Q	900	180	1080	720	360
Company R	950	190	1140	760	380
Company S	1000	200	1200	800	400
Company T	1050	210	1260	840	420
Company U	1100	220	1320	880	440
Company V	1150	230	1380	920	460
Company W	1200	240	1440	960	480
Company X	1250	250	1500	1000	500
Company Y	1300	260	1560	1040	520
Company Z	1350	270	1620	1080	540
Company AA	1400	280	1680	1120	560
Company AB	1450	290	1740	1160	580
Company AC	1500	300	1800	1200	600
Company AD	1550	310	1860	1240	620
Company AE	1600	320	1920	1280	640
Company AF	1650	330	1980	1320	660
Company AG	1700	340	2040	1360	680
Company AH	1750	350	2100	1400	700
Company AI	1800	360	2160	1440	720
Company AJ	1850	370	2220	1480	740
Company AK	1900	380	2280	1520	760
Company AL	1950	390	2340	1560	780
Company AM	2000	400	2400	1600	800
Company AN	2050	410	2460	1640	820
Company AO	2100	420	2520	1680	840
Company AP	2150	430	2580	1720	860
Company AQ	2200	440	2640	1760	880
Company AR	2250	450	2700	1800	900
Company AS	2300	460	2760	1840	920
Company AT	2350	470	2820	1880	940
Company AU	2400	480	2880	1920	960
Company AV	2450	490	2940	1960	980
Company AW	2500	500	3000	2000	1000
Company AX	2550	510	3060	2040	1020
Company AY	2600	520	3120	2080	1040
Company AZ	2650	530	3180	2120	1060
Company BA	2700	540	3240	2160	1080
Company BB	2750	550	3300	2200	1100
Company BC	2800	560	3360	2240	1120
Company BD	2850	570	3420	2280	1140
Company BE	2900	580	3480	2320	1160
Company BF	2950	590	3540	2360	1180
Company BG	3000	600	3600	2400	1200
Company BH	3050	610	3660	2440	1220
Company BI	3100	620	3720	2480	1240
Company BJ	3150	630	3780	2520	1260
Company BK	3200	640	3840	2560	1280
Company BL	3250	650	3900	2600	1300
Company BM	3300	660	3960	2640	

Relinquished by:

Date/Time:

Company

Received by:

Date/Time:

Company	Revenue	Profit	Assets	Liabilities	Equity
Company A	100	20	120	80	40
Company B	150	30	180	120	60
Company C	200	40	240	160	80
Company D	250	50	300	200	100
Company E	300	60	360	240	120
Company F	350	70	420	280	140
Company G	400	80	480	320	160
Company H	450	90	540	360	180
Company I	500	100	600	400	200
Company J	550	110	660	440	220
Company K	600	120	720	480	240
Company L	650	130	780	520	260
Company M	700	140	840	560	280
Company N	750	150	900	600	300
Company O	800	160	960	640	320
Company P	850	170	1020	680	340
Company Q	900	180	1080	720	360
Company R	950	190	1140	760	380
Company S	1000	200	1200	800	400
Company T	1050	210	1260	840	420
Company U	1100	220	1320	880	440
Company V	1150	230	1380	920	460
Company W	1200	240	1440	960	480
Company X	1250	250	1500	1000	500
Company Y	1300	260	1560	1040	520
Company Z	1350	270	1620	1080	540
Company AA	1400	280	1680	1120	560
Company AB	1450	290	1740	1160	580
Company AC	1500	300	1800	1200	600
Company AD	1550	310	1860	1240	620
Company AE	1600	320	1920	1280	640
Company AF	1650	330	1980	1320	660
Company AG	1700	340	2040	1360	680
Company AH	1750	350	2100	1400	700
Company AI	1800	360	2160	1440	720
Company AJ	1850	370	2220	1480	740
Company AK	1900	380	2280	1520	760
Company AL	1950	390	2340	1560	780
Company AM	2000	400	2400	1600	800
Company AN	2050	410	2460	1640	820
Company AO	2100	420	2520	1680	840
Company AP	2150	430	2580	1720	860
Company AQ	2200	440	2640	1760	880
Company AR	2250	450	2700	1800	900
Company AS	2300	460	2760	1840	920
Company AT	2350	470	2820	1880	940
Company AU	2400	480	2880	1920	960
Company AV	2450	490	2940	1960	980
Company AW	2500	500	3000	2000	1000
Company AX	2550	510	3060	2040	1020
Company AY	2600	520	3120	2080	1040
Company AZ	2650	530	3180	2120	1060
Company BA	2700	540	3240	2160	1080
Company BB	2750	550	3300	2200	1100
Company BC	2800	560	3360	2240	1120
Company BD	2850	570	3420	2280	1140
Company BE	2900	580	3480	2320	1160
Company BF	2950	590	3540	2360	1180
Company BG	3000	600	3600	2400	1200
Company BH	3050	610	3660	2440	1220
Company BI	3100	620	3720	2480	1240
Company BJ	3150	630	3780	2520	1260
Company BK	3200	640	3840	2560	1280
Company BL	3250	650	3900	2600	1300
Company BM	3300	660	3960	2640	

Custody Seals Intact:

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Mott MacDonald Consultants, Inc.

Job Number: 320-119478-1

Login Number: 119478

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 03/05/25 11:21 AM

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	2494835
Sample custody seals, if present, are intact.	N/A	
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	2.5
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	



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

14 August 2025

Jeff Parker
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)
25F0554

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.

Analytical Resources, LLC

Phillip Bates For Kelly Bottem, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 25FOSS4	Turn-around Requested: std	Page: 1 of 1
ARI Client Company: Mott MacDonald	Phone: 206 293-7896	Date: _____ Ice Present? _____
Client Contact: Ashley Parkhurst	No. of Coolers: _____ Cooler Temps: _____	
Client Project Name: Snices mtn landfill		
Client Project #: 518300030-001	Samplers: Travis K.	



Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested												Notes/Comments		
					TSS	TDS	NO ₃ , NO ₂	SO ₄ , Cl	Alk	TOC, COD, BOD	SVOCs	STMPAH	Diss. metals	Pesticides	1,4-Dioxane	Chlorinated Phenols		VOCs	Dioxin/furans
SMW-5D	6/24/25	10:00	GW	10	X	X			X								X	X	
SMW-5D	6/25/25	08:00	GW	14			X	X		X	X	X	X	X	X	X			① Diss metals not FF
SMW-5S	6/25/25	10:00	GW	24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	① Diss metals not FF
SMW-2	6/24/25	13:30	GW	~~7~~ 9			X	X		X			X				X		
Trip blank																			
Evans	6/24/25	14:10	GW	7				X					X				X		
O.L. Luther	6/24/25	15:00	GW	7				X					X				X		
Comments/Special Instructions ① Dissolved metals collected in unpreserved bottles, not field filtered. please lab filter at 0.45 um					Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature) <i>[Signature]</i>		Relinquished by: (Signature)		Received by: (Signature)								
					Printed Name: Travis K		Printed Name: Suzy McCall		Printed Name:		Printed Name:								
					Company: Mott Mac		Company: AR LLC		Company:		Company:								
					Date & Time: 6/26/25 22:00		Date & Time: 6/27/25 1347		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: Jeff Parker

Reported:
14-Aug-2025 12:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SMW-5D	25F0554-01	Water	25-Jun-2025 08:00	27-Jun-2025 14:19
SMW-5S	25F0554-02	Water	25-Jun-2025 10:00	27-Jun-2025 14:19
SMW-2	25F0554-03	Water	24-Jun-2025 13:30	27-Jun-2025 14:19
Trip Blank	25F0554-04	Water	24-Jun-2025 10:00	27-Jun-2025 14:19
Evans	25F0554-05	Water	24-Jun-2025 14:10	27-Jun-2025 14:19
O.L. Luther	25F0554-06	Water	24-Jun-2025 15:00	27-Jun-2025 14:19
SMW-5D	25F0554-07	Water	25-Jun-2025 10:00	27-Jun-2025 14:19



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

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Work Order Case Narrative

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 with the exception of labels flagged on the associated forms.

The cleanup surrogate percent recoveries were within control limits.

The method blank(s) contained OCDD. Samples that contain analyte 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.

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.

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.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.



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

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

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 with the exception of the re-extracts due to low surrogates. Both runs were reported.

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. 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 with the exception of surrogates flagged on the associated forms. The associated samples were re-extracted outside of the holding time due to low surrogates and both runs were reported.

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 analytes flagged on the associated forms.

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 low in the ICV and 2,4-Dinitrophenol and 4-Nitrophenol are out of control high. 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.

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



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

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

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.

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.

The surrogate percent recoveries were within control limits with the exception of surrogates flagged on the associated forms.

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

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

Dissolved Metals - EPA Method 6010D, 6020B and 7471

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

Initial and continuing calibrations including interference checks were within method requirements for reported elements.

The method blank(s) contained zinc. Samples associated with the blank have been flagged with a "B" qualifier.

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



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

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

The sample(s) were prepared and analyzed within the recommended holding times with the exception of nitrate and nitrite which were sent to the lab outside of the holding time and have been flagged with a "Q" qualifier.

Initial and continuing calibrations were within method requirements.

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

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

The reference material (SRM) 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.



WORK ORDER

25F0554

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>
25F0554-01 A	VOA Vial, Clear, 40 mL, HCL		
25F0554-01 B	VOA Vial, Clear, 40 mL, HCL		
25F0554-01 C	VOA Vial, Clear, 40 mL, HCL		
25F0554-01 D	VOA Vial, Clear, 40 mL, HCL		
25F0554-01 E	VOA Vial, Clear, 40 mL, HCL		
25F0554-01 F	Glass NM, Amber, 1000 mL		
25F0554-01 G	Glass NM, Amber, 1000 mL		
25F0554-01 H	Glass NM, Amber, 500 mL		
25F0554-01 I	Glass NM, Amber, 500 mL		
25F0554-01 J	Glass NM, Amber, 500 mL		
25F0554-01 K	Glass NM, Amber, 500 mL		
25F0554-01 L	Glass NM, Amber, 500 mL		
25F0554-01 M	Glass NM, Amber, 500 mL		
25F0554-01 N	Glass NM, Amber, 500 mL		
25F0554-01 O	Glass NM, Amber, 500 mL		
25F0554-01 P	Glass NM, Amber, 500 mL		
25F0554-01 Q	Glass NM, Amber, 500 mL		
25F0554-01 R	HDPE NM, 500 mL		
25F0554-01 S	HDPE NM, 500 mL		
25F0554-01 T	HDPE NM, 500 mL		
25F0554-01 U	Glass NM, Amber, 250 mL, 9N H2SO4	<u>L2p</u>	
25F0554-01 V	HDPE NM, 1000 mL		
25F0554-01 W	HDPE NM, 1000 mL		
25F0554-01 X	HDPE NM, 500 mL	<u>> 2 FAIL</u>	
25F0554-02 A	VOA Vial, Clear, 40 mL, HCL		
25F0554-02 B	VOA Vial, Clear, 40 mL, HCL		
25F0554-02 C	VOA Vial, Clear, 40 mL, HCL		
25F0554-02 D	VOA Vial, Clear, 40 mL, HCL		
25F0554-02 E	VOA Vial, Clear, 40 mL, HCL		
25F0554-02 F	Glass NM, Amber, 1000 mL		
25F0554-02 G	Glass NM, Amber, 1000 mL		
25F0554-02 H	Glass NM, Amber, 500 mL		



WORK ORDER

25F0554

Client: Mott MacDonald

Project Manager: Kelly Bottem

Project: Snipes MTN Landfill 2025

Project Number: Snipes MTN Landfill 2025

25F0554-02 I	Glass NM, Amber, 500 mL	
25F0554-02 J	Glass NM, Amber, 500 mL	
25F0554-02 K	Glass NM, Amber, 500 mL	
25F0554-02 L	Glass NM, Amber, 500 mL	
25F0554-02 M	Glass NM, Amber, 500 mL	
25F0554-02 N	Glass NM, Amber, 500 mL	
25F0554-02 O	Glass NM, Amber, 500 mL	
25F0554-02 P	Glass NM, Amber, 500 mL	
25F0554-02 Q	Glass NM, Amber, 500 mL	
25F0554-02 R	HDPE NM, 500 mL	
25F0554-02 S	HDPE NM, 500 mL	
25F0554-02 T	HDPE NM, 500 mL	
25F0554-02 U	Glass NM, Amber, 250 mL, 9N H2SO4	L2p
25F0554-02 V	HDPE NM, 1000 mL	
25F0554-02 W	HDPE NM, 1000 mL	
25F0554-02 X	HDPE NM, 500 mL	5 Z FAIL
25F0554-03 A	VOA Vial, Clear, 40 mL, HCL	
25F0554-03 B	VOA Vial, Clear, 40 mL, HCL	
25F0554-03 C	VOA Vial, Clear, 40 mL, HCL	
25F0554-03 D	VOA Vial, Clear, 40 mL, HCL	
25F0554-03 E	VOA Vial, Clear, 40 mL, HCL	
25F0554-03 F	HDPE NM, 500 mL	
25F0554-03 G	HDPE NM, 500 mL	
25F0554-03 H	HDPE NM, 500 mL	
25F0554-03 I	Glass NM, Amber, 250 mL, 9N H2SO4	L2p
25F0554-03 J	HDPE NM, 1000 mL	
25F0554-03 K	HDPE NM, 1000 mL	
25F0554-03 L	HDPE NM, 500 mL, 1:1 HNO3 (FF)	L2p
25F0554-04 A	VOA Vial, Clear, 40 mL, HCL	
25F0554-04 B	VOA Vial, Clear, 40 mL, HCL	
25F0554-05 A	VOA Vial, Clear, 40 mL, HCL	
25F0554-05 B	VOA Vial, Clear, 40 mL, HCL	
25F0554-05 C	VOA Vial, Clear, 40 mL, HCL	
25F0554-05 D	VOA Vial, Clear, 40 mL, HCL	



WORK ORDER

25F0554

Client: Mott MacDonald

Project Manager: Kelly Bottem

Project: Snipes MTN Landfill 2025

Project Number: Snipes MTN Landfill 2025

25F0554-05 E	VOA Vial, Clear, 40 mL, HCL
25F0554-05 F	HDPE NM, 500 mL
25F0554-05 G	HDPE NM, 500 mL, 1:1 HNO ₃ (FF)
25F0554-06 A	VOA Vial, Clear, 40 mL, HCL
25F0554-06 B	VOA Vial, Clear, 40 mL, HCL
25F0554-06 C	VOA Vial, Clear, 40 mL, HCL
25F0554-06 D	VOA Vial, Clear, 40 mL, HCL
25F0554-06 E	VOA Vial, Clear, 40 mL, HCL
25F0554-06 F	HDPE NM, 500 mL
25F0554-06 G	HDPE NM, 500 mL, 1:1 HNO ₃ (FF)

L2p

L2p

SA

Preservation Confirmed By

6/27/26

Date



Cooler Receipt Form

ARI Client: Mott MacDonald

Project Name: Snipes Mtn Landfill

COC No(s): NA

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

Assigned ARI Job No: 25 F0554

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 1419 -1.8* 2.6 2.8 4.7 2.9 2.1, 5.9 Temp Gun ID#: 8117

Was a temperature blank included in the cooler? 4.9 YES NO

Were coolers received between 0° - 6° (°C) YES NO*

Was sufficient ice used (if appropriate)? YES NO Sm 6/27

Cooler Accepted by: Sm Date: 6/27/25 Time: 1419

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

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: SA Date: 6/27/25 Time: 1430 Labels checked by: SA

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

Additional Notes, Discrepancies, & Resolutions:

All sample volume out of hold for Nitrite. Analyses not requested but containers supplied for TDS, TSS, and Alk for sample 'Smw-2', logged for those analyses.

By: MD Date: 06/27/25



WORK ORDER

25F0554

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>
25F0554-01 A	VOA Vial, Clear, 40 mL, HCL		
25F0554-01 B	VOA Vial, Clear, 40 mL, HCL		
25F0554-01 C	VOA Vial, Clear, 40 mL, HCL		
25F0554-01 D	VOA Vial, Clear, 40 mL, HCL		
25F0554-01 E	VOA Vial, Clear, 40 mL, HCL		
25F0554-01 F	Glass NM, Amber, 1000 mL		
25F0554-01 G	Glass NM, Amber, 1000 mL		
25F0554-01 H	Glass NM, Amber, 500 mL		
25F0554-01 I	Glass NM, Amber, 500 mL		
25F0554-01 J	Glass NM, Amber, 500 mL		
25F0554-01 K	Glass NM, Amber, 500 mL		
25F0554-01 L	Glass NM, Amber, 500 mL		
25F0554-01 M	Glass NM, Amber, 500 mL		
25F0554-01 N	Glass NM, Amber, 500 mL		
25F0554-01 O	Glass NM, Amber, 500 mL		
25F0554-01 P	Glass NM, Amber, 500 mL		
25F0554-01 Q	Glass NM, Amber, 500 mL		
25F0554-01 R	HDPE NM, 500 mL		
25F0554-01 S	HDPE NM, 500 mL		
25F0554-01 T	HDPE NM, 500 mL		
25F0554-01 U	Glass NM, Amber, 250 mL, 9N H2SO4	<u>2Z FAIL</u>	<u>(1)</u>
25F0554-01 V	HDPE NM, 1000 mL	<u>L2P</u>	
25F0554-01 W	HDPE NM, 1000 mL		
25F0554-01 X	HDPE NM, 500 mL	<u>2Z FAIL SA 6/27/25</u>	
25F0554-02 A	VOA Vial, Clear, 40 mL, HCL		
25F0554-02 B	VOA Vial, Clear, 40 mL, HCL		
25F0554-02 C	VOA Vial, Clear, 40 mL, HCL		
25F0554-02 D	VOA Vial, Clear, 40 mL, HCL		
25F0554-02 E	VOA Vial, Clear, 40 mL, HCL		
25F0554-02 F	Glass NM, Amber, 1000 mL		
25F0554-02 G	Glass NM, Amber, 1000 mL		
25F0554-02 H	Glass NM, Amber, 500 mL		



WORK ORDER

25F0554

Client: Mott MacDonald

Project Manager: Kelly Bottem

Project: Snipes MTN Landfill 2025

Project Number: Snipes MTN Landfill 2025

25F0554-02 I	Glass NM, Amber, 500 mL	
25F0554-02 J	Glass NM, Amber, 500 mL	
25F0554-02 K	Glass NM, Amber, 500 mL	
25F0554-02 L	Glass NM, Amber, 500 mL	
25F0554-02 M	Glass NM, Amber, 500 mL	
25F0554-02 N	Glass NM, Amber, 500 mL	
25F0554-02 O	Glass NM, Amber, 500 mL	
25F0554-02 P	Glass NM, Amber, 500 mL	
25F0554-02 Q	Glass NM, Amber, 500 mL	
25F0554-02 R	HDPE NM, 500 mL	
25F0554-02 S	HDPE NM, 500 mL	
25F0554-02 T	HDPE NM, 500 mL	
25F0554-02 U	Glass NM, Amber, 250 mL, 9N H2SO4	L2p
25F0554-02 V	HDPE NM, 1000 mL	
25F0554-02 W	HDPE NM, 1000 mL	
25F0554-02 X	HDPE NM, 500 mL	SZ FAIL (1)
25F0554-03 A	VOA Vial, Clear, 40 mL, HCL	
25F0554-03 B	VOA Vial, Clear, 40 mL, HCL	
25F0554-03 C	VOA Vial, Clear, 40 mL, HCL	
25F0554-03 D	VOA Vial, Clear, 40 mL, HCL	
25F0554-03 E	VOA Vial, Clear, 40 mL, HCL	
25F0554-03 F	HDPE NM, 500 mL	
25F0554-03 G	HDPE NM, 500 mL	
25F0554-03 H	HDPE NM, 500 mL	
25F0554-03 I	Glass NM, Amber, 250 mL, 9N H2SO4	L2p
25F0554-03 J	HDPE NM, 1000 mL	
25F0554-03 K	HDPE NM, 1000 mL	
25F0554-03 L	HDPE NM, 500 mL, 1:1 HNO3 (FF)	L2p
25F0554-04 A	VOA Vial, Clear, 40 mL, HCL	
25F0554-04 B	VOA Vial, Clear, 40 mL, HCL	
25F0554-05 A	VOA Vial, Clear, 40 mL, HCL	
25F0554-05 B	VOA Vial, Clear, 40 mL, HCL	
25F0554-05 C	VOA Vial, Clear, 40 mL, HCL	
25F0554-05 D	VOA Vial, Clear, 40 mL, HCL	

① filtered at 0.45um and preserved to pH < 2
w/ 0.5 ml concentrated HNO3. (M13692)
② 1407 10/18/25 N 8



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

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/25/2025 08:00

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 16:32

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

Extract ID: 25F0554-01 E

Preparation Batch: BNG0018

Sample Size: 10 mL

Prepared: 07/01/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
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



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

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/25/2025 08:00

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 16:32

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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	0.13	ug/L	J
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



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

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/25/2025 08:00

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 16:32

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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 %	98.7	%	
Surrogate: Toluene-d8				80-120 %	98.5	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	94.0	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	105	%	



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

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260D-SIM

Sampled: 06/25/2025 08:00

Instrument: NT16 Analyst: LTN

Analyzed: 07/07/2025 11:51

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25F0554-01 C

Preparation Batch: BNG0097

Sample Size: 10 mL

Prepared: 07/07/2025

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 %	99.5	%	
Surrogate: Toluene-d8				80-120 %	107	%	
Surrogate: 4-Bromofluorobenzene				75-125 %	94.8	%	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E
Instrument: NT17 Analyst: AA

Sampled: 06/25/2025 08:00

Analyzed: 07/03/2025 19:33

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BNG0010
Prepared: 07/01/2025

Sample Size: 500 mL
Final Volume: 1 mL

Extract ID: 25F0554-01 I 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Phenol	108-95-2	1	0.2	0.4	ND	ug/L	U
bis(2-chloroethyl) ether	111-44-4	1	0.2	0.4	ND	ug/L	U
2-Chlorophenol	95-57-8	1	0.2	0.4	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	1	0.2	0.4	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	1	0.2	0.4	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	1	0.2	0.4	ND	ug/L	U
Benzyl Alcohol	100-51-6	1	0.2	0.4	ND	ug/L	U
2,2'-Oxybis(1-chloropropane)	108-60-1	1	0.2	0.4	ND	ug/L	U
2-Methylphenol	95-48-7	1	0.2	0.4	ND	ug/L	U
Hexachloroethane	67-72-1	1	0.2	0.4	ND	ug/L	U
N-Nitroso-di-n-Propylamine	621-64-7	1	0.2	0.4	ND	ug/L	U
4-Methylphenol	106-44-5	1	0.2	0.4	ND	ug/L	U
Nitrobenzene	98-95-3	1	0.2	0.4	ND	ug/L	U
Isophorone	78-59-1	1	0.2	0.4	ND	ug/L	U
2-Nitrophenol	88-75-5	1	1.0	2.0	ND	ug/L	U
2,4-Dimethylphenol	105-67-9	1	1.0	2.0	ND	ug/L	U
Bis(2-Chloroethoxy)methane	111-91-1	1	0.2	0.4	ND	ug/L	U
2,4-Dichlorophenol	120-83-2	1	1.0	2.0	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	1	0.2	0.4	ND	ug/L	U
Naphthalene	91-20-3	1	0.2	0.4	ND	ug/L	U
Benzoic acid	65-85-0	1	2.0	4.0	ND	ug/L	U
4-Chloroaniline	106-47-8	1	1.0	2.0	ND	ug/L	U
Hexachlorobutadiene	87-68-3	1	0.2	0.4	ND	ug/L	U
4-Chloro-3-Methylphenol	59-50-7	1	1.0	2.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.2	0.4	ND	ug/L	U
Hexachlorocyclopentadiene	77-47-4	1	1.0	2.0	ND	ug/L	U
2,4,6-Trichlorophenol	88-06-2	1	1.0	2.0	ND	ug/L	U
2,4,5-Trichlorophenol	95-95-4	1	1.0	2.0	ND	ug/L	U
2-Chloronaphthalene	91-58-7	1	0.2	0.4	ND	ug/L	U
2-Nitroaniline	88-74-4	1	1.0	2.0	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.2	0.4	ND	ug/L	U
Dimethylphthalate	131-11-3	1	0.2	0.4	ND	ug/L	U



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Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 06/25/2025 08:00

Instrument: NT17 Analyst: AA

Analyzed: 07/03/2025 19:33

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
2,6-Dinitrotoluene	606-20-2	1	1.0	2.0	ND	ug/L	U
Acenaphthene	83-32-9	1	0.2	0.4	ND	ug/L	U
3-Nitroaniline	99-09-2	1	1.0	2.0	ND	ug/L	U
2,4-Dinitrophenol	51-28-5	1	2.0	4.0	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.2	0.4	ND	ug/L	U
4-Nitrophenol	100-02-7	1	1.0	2.0	ND	ug/L	U
2,4-Dinitrotoluene	121-14-2	1	1.0	2.0	ND	ug/L	U
Fluorene	86-73-7	1	0.2	0.4	ND	ug/L	U
4-Chlorophenylphenyl ether	7005-72-3	1	0.2	0.4	ND	ug/L	U
Diethyl phthalate	84-66-2	1	0.2	0.4	ND	ug/L	U
4-Nitroaniline	100-01-6	1	1.0	2.0	ND	ug/L	U
4,6-Dinitro-2-methylphenol	534-52-1	1	2.0	4.0	ND	ug/L	U
N-Nitrosodiphenylamine	86-30-6	1	0.2	0.4	ND	ug/L	U
4-Bromophenyl phenyl ether	101-55-3	1	0.2	0.4	ND	ug/L	U
Hexachlorobenzene	118-74-1	1	0.2	0.4	ND	ug/L	U
Pentachlorophenol	87-86-5	1	1.0	2.0	ND	ug/L	U
Phenanthrene	85-01-8	1	0.2	0.4	ND	ug/L	U
Anthracene	120-12-7	1	0.2	0.4	ND	ug/L	U
Carbazole	86-74-8	1	0.2	0.4	ND	ug/L	U
Di-n-Butylphthalate	84-74-2	1	0.2	0.4	ND	ug/L	U
Fluoranthene	206-44-0	1	0.2	0.4	ND	ug/L	U
Pyrene	129-00-0	1	0.2	0.4	ND	ug/L	U
Butylbenzylphthalate	85-68-7	1	0.2	0.4	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.2	0.4	ND	ug/L	U
3,3'-Dichlorobenzidine	91-94-1	1	1.0	2.0	ND	ug/L	U
Chrysene	218-01-9	1	0.2	0.4	ND	ug/L	U
bis(2-Ethylhexyl)phthalate	117-81-7	1	0.4	0.4	2.3	ug/L	B
Di-n-Octylphthalate	117-84-0	1	0.2	0.4	ND	ug/L	U
Benzofluoranthenes, Total		1	0.4	0.8	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.2	0.4	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.4	0.4	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.2	0.4	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.2	0.4	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.2	0.4	ND	ug/L	U
2,3,4,6-Tetrachlorophenol	58-90-2	1	0.2	0.4	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 06/25/2025 08:00

Instrument: NT17 Analyst: AA

Analyzed: 07/03/2025 19:33

Analyte	CAS Number	Recovery	Recovery	Units	Notes
		Limits			
Surrogate: 2-Fluorophenol		30-160 %	23.4	%	*
Surrogate: Phenol-d5		30-160 %	14.8	%	*
Surrogate: 2-Chlorophenol-d4		30-160 %	45.9	%	
Surrogate: 1,2-Dichlorobenzene-d4		30-160 %	30.7	%	Q
Surrogate: Nitrobenzene-d5		30-160 %	53.3	%	
Surrogate: 2-Fluorobiphenyl		30-160 %	46.8	%	
Surrogate: 2,4,6-Tribromophenol		30-160 %	45.0	%	Q
Surrogate: p-Terphenyl-d14		30-160 %	54.6	%	



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Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E
Instrument: NT6 Analyst: JZ

Sampled: 06/25/2025 08:00

Analyzed: 07/03/2025 18:05

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BNF0579
Prepared: 06/30/2025

Sample Size: 500 mL
Final Volume: 1 mL

Extract ID: 25F0554-01 H 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
Surrogate: 1,4-Dioxane-d8				30-160 %	56.0	%	



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Project Number: Snipes MTN Landfill 2025
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Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Semivolatile Organic Compounds - SIM

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

Sampled: 06/25/2025 08:00

Analyzed: 07/11/2025 21:58

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BNG0042
Prepared: 07/02/2025

Sample Size: 500 mL
Final Volume: 1 mL

Extract ID: 25F0554-01 J 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.020	0.020	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.020	0.020	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.020	0.020	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.020	0.020	ND	ug/L	U
Acenaphthene	83-32-9	1	0.020	0.020	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.020	0.020	ND	ug/L	U
Fluorene	86-73-7	1	0.010	0.020	ND	ug/L	U
Phenanthrene	85-01-8	1	0.020	0.020	ND	ug/L	U
Anthracene	120-12-7	1	0.020	0.020	ND	ug/L	U
Carbazole	86-74-8	1	0.020	0.020	ND	ug/L	U
Fluoranthene	206-44-0	1	0.020	0.020	ND	ug/L	U
Pyrene	129-00-0	1	0.020	0.020	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.020	0.020	ND	ug/L	U
Chrysene	218-01-9	1	0.020	0.020	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.020	0.020	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.020	0.020	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.020	0.020	ND	ug/L	U
# Benzofluoranthenes, Total		1	0.020	0.020	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.020	0.020	ND	ug/L	U
Perylene	198-55-0	1	0.010	0.020	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.020	0.020	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.020	0.020	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.020	0.020	ND	ug/L	U

Surrogate: 2-Methylnaphthalene-d10

42-120 % 7.47 % *

Surrogate: Dibenzo[a,h]anthracene-d14

29-120 % 5.53 % *, Q

Surrogate: Fluoranthene-d10

57-120 % 8.33 % *



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Dioxins/Furans

Method: EPA 1613B			Sampled: 06/25/2025 08:00
Instrument: AUTOSPEC01 Analyst: jgr			Analyzed: 08/08/2025 09:37
Sample Preparation:	Preparation Method: EPA 1613		Extract ID: 25F0554-01 F 01
	Preparation Batch: BNG0297		
	Prepared: 07/21/2025		
	Sample Size: 970 mL		
	Final Volume: 20 uL		
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 25F0554-01 F 01
	Cleanup Batch: CNG0085		
	Cleaned: 22-Jul-2025		
	Initial Volume: 20 uL		
	Final Volume: 20 uL		
Sample Cleanup:	Cleanup Method: Florisil		Extract ID:25F0554-01 F 01
	Cleanup Batch: CNG0086		
	Cleaned: 22-Jul-2025		
	Initial Volume: 20 uL		
	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	2.69	10.3	ND	pg/L	U
2,3,7,8-TCDD			0.655-0.886	2.63	10.3	ND	pg/L	U
1,2,3,7,8-PeCDF			1.318-1.783	2.12	10.3	ND	pg/L	U
2,3,4,7,8-PeCDF			1.318-1.783	2.10	10.3	ND	pg/L	U
1,2,3,7,8-PeCDD			1.318-1.783	3.32	10.3	ND	pg/L	U
1,2,3,4,7,8-HxCDF			1.054-1.426	2.14	10.3	ND	pg/L	U
1,2,3,6,7,8-HxCDF			1.054-1.426	2.19	10.3	ND	pg/L	U
2,3,4,6,7,8-HxCDF			1.054-1.426	2.02	10.3	ND	pg/L	U
1,2,3,7,8,9-HxCDF			1.054-1.426	2.67	10.3	ND	pg/L	U
1,2,3,4,7,8-HxCDD			1.054-1.426	2.73	10.3	ND	pg/L	U
1,2,3,6,7,8-HxCDD			1.054-1.426	2.90	10.3	ND	pg/L	U
1,2,3,7,8,9-HxCDD			1.054-1.426	3.06	10.3	ND	pg/L	U
1,2,3,4,6,7,8-HpCDF			0.893-1.208	1.87	20.6	ND	pg/L	U
1,2,3,4,7,8,9-HpCDF			0.893-1.208	3.12	10.3	ND	pg/L	U
1,2,3,4,6,7,8-HpCDD			0.893-1.208	3.68	10.3	ND	pg/L	U
OCDF			0.757-1.024	4.08	20.6	ND	pg/L	U
OCDD			0.757-1.024	3.64	51.5	ND	pg/L	U

Homologue groups

Total TCDF					10.3	ND	pg/L	U
Total TCDD					10.3	ND	pg/L	U
Total PeCDF					10.3	ND	pg/L	U
Total PeCDD					10.3	ND	pg/L	U
Total HxCDF					10.3	ND	pg/L	U
Total HxCDD					10.3	ND	pg/L	U
Total HpCDF					10.3	ND	pg/L	U
Total HpCDD					10.3	ND	pg/L	U

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 4.39
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): 4.39
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: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Dioxins/Furans

Method: EPA 1613B

Sampled: 06/25/2025 08:00

Instrument: AUTOSPEC01 Analyst: jgr

Analyzed: 08/08/2025 09:37

Analyte	DF/Split	Ion Ratio	Ratio Limits	Reporting Limit	Result	Units	Notes
Labeled compounds							
13C12-2,3,7,8-TCDF		0.763	0.655-0.886	24-169 %	59.8	%	
13C12-2,3,7,8-TCDD		0.795	0.655-0.886	25-164 %	92.1	%	
13C12-1,2,3,7,8-PeCDF		1.575	1.318-1.783	24-185 %	77.4	%	
13C12-2,3,4,7,8-PeCDF		1.618	1.318-1.783	21-178 %	75.2	%	
13C12-1,2,3,7,8-PeCDD		1.584	1.318-1.783	25-181 %	82.2	%	
13C12-1,2,3,4,7,8-HxCDF		0.525	0.434-0.587	26-152 %	71.5	%	
13C12-1,2,3,6,7,8-HxCDF		0.554	0.434-0.587	26-123 %	71.7	%	
13C12-2,3,4,6,7,8-HxCDF		0.546	0.434-0.587	28-136 %	71.7	%	
13C12-1,2,3,7,8,9-HxCDF		0.527	0.434-0.587	29-147 %	76.9	%	
13C12-1,2,3,4,7,8-HxCDD		1.248	1.054-1.426	32-141 %	79.3	%	
13C12-1,2,3,6,7,8-HxCDD		1.296	1.054-1.426	28-130 %	79.4	%	
13C12-1,2,3,4,6,7,8-HpCDF		0.452	0.374-0.506	28-143 %	61.7	%	
13C12-1,2,3,4,7,8,9-HpCDF		0.488	0.374-0.506	26-138 %	63.9	%	
13C12-1,2,3,4,6,7,8-HpCDD		1.082	0.893-1.208	23-140 %	80.4	%	
13C12-OCDD		0.896	0.757-1.024	17-157 %	81.6	%	
37Cl4-2,3,7,8-TCDD				35-197 %	92.4	%	



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Project: Snipes MTN Landfill 2025
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Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Dioxins/Furans

Method: EPA 1613B
Instrument: AUTOSPEC01 Analyst: jgr

Sampled: 06/25/2025 08:00
Analyzed: 08/08/2025 09:37

SMW-5D
25F0554-01 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 06/25/2025 08:00
Analyzed: 07/17/2025 20:52

Sample Preparation: Preparation Method: WMN (No Prep)
Preparation Batch: BNG0158 Sample Size: 25 mL
Prepared: 07/10/2025 Final Volume: 25 mL

Extract ID: 25F0554-01 T 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	25.4	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	6.91	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	5.16	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	20.0	mg/L	
Sodium, Dissolved	7440-23-5	1	25.0	50.0	ND	mg/L	U



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Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/25/2025 08:00
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/15/2025 20:29
Sample Preparation:	Extract ID: 25F0554-01 T 02
Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix	
Preparation Batch: BNG0252	Sample Size: 25 mL
Prepared: 07/15/2025	Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Antimony, Dissolved	7440-36-0	1	0.150	0.200	0.173	ug/L	J
Arsenic UCT, Dissolved	7440-38-2	1	0.100	0.200	9.55	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	18.1	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	0.836	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	4.50	ug/L	B, J



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A	Sampled: 06/25/2025 08:00	
Instrument: HYDRA Analyst: ML	Analyzed: 07/14/2025 11:13	
Sample Preparation:	Preparation Method: TWM EPA 7470A	Extract ID: 25F0554-01 T 01
	Preparation Batch: BNG0213	Filtration Batch: BNF0562
	Prepared: 07/14/2025	Filtration Date: 06/28/2025 13:05
	Sample Size: 20 mL	
	Final Volume: 20 mL	

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



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 06/25/2025 08:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/03/2025 16:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-01 R

Preparation Batch: BNG0078

Sample Size: 10 mL

Prepared: 07/03/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
# Chloride	16887-00-6	1	1.00	1.00	4.16	mg/L	



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Reported:
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SMW-5D
25F0554-01 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 06/25/2025 08:00

Instrument: [CALC] Analyst: CRB

Analyzed: 07/16/2025 17:06

Sample Preparation:

Preparation Method: [CALC]

Extract ID: 25F0554-01

Preparation Batch: [CALC]

Prepared: 07/16/2025

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:
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SMW-5D
25F0554-01 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 06/25/2025 08:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 06/27/2025 18:28

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-01 R

Preparation Batch: BNF0559

Sample Size: 10 mL

Prepared: 06/27/2025

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:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 06/25/2025 08:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/16/2025 17:06

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-01 U

Preparation Batch: BNG0305

Sample Size: 10 mL

Prepared: 07/16/2025

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:
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SMW-5D
25F0554-01 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 06/25/2025 08:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/02/2025 13:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-01 R

Preparation Batch: BNF0604

Sample Size: 10 mL

Prepared: 06/30/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	1	2.00	2.00	22.6	mg/L	B



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Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Wet Chemistry

Method: EPA 410.4

Sampled: 06/25/2025 08:00

Instrument: UV1800-1 Analyst: CDE

Analyzed: 07/23/2025 17:01

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-01 U

Preparation Batch: BNG0395

Sample Size: 2 mL

Prepared: 07/21/2025

Final Volume: 2 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
COD		1	10.0	10.0	41.0	mg/L	



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Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Wet Chemistry

Method: EPA 9060A

Sampled: 06/25/2025 08:00

Instrument: TOC-LCSH Analyst: RMS

Analyzed: 07/15/2025 16:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-01 U

Preparation Batch: BNG0246

Sample Size: 20 mL

Prepared: 07/15/2025

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	6.06	mg/L	



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Project Number: Snipes MTN Landfill 2025
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Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01 (Water)

Wet Chemistry

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

Sampled: 06/25/2025 08:00

Analyzed: 07/08/2025 17:02

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BNG0111 Sample Size: 10 mL
Prepared: 07/07/2025 Final Volume: 10 mL

Extract ID: 25F0554-01 U

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:
14-Aug-2025 12:47

SMW-5D
25F0554-01RE1 (Water)

Semivolatile Organic Compounds - SIM

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

Sampled: 06/25/2025 08:00

Analyzed: 07/18/2025 20:56

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BNG0315
Prepared: 07/17/2025

Sample Size: 500 mL
Final Volume: 1 mL

Extract ID: 25F0554-01RE1 L 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.020	0.020	ND	ug/L	H, U
2-Methylnaphthalene	91-57-6	1	0.020	0.020	ND	ug/L	H, U
1-Methylnaphthalene	90-12-0	1	0.020	0.020	ND	ug/L	H, U
Acenaphthylene	208-96-8	1	0.020	0.020	ND	ug/L	H, U
Acenaphthene	83-32-9	1	0.020	0.020	ND	ug/L	H, U
Dibenzofuran	132-64-9	1	0.020	0.020	0.025	ug/L	H
Fluorene	86-73-7	1	0.010	0.020	ND	ug/L	H, U
Phenanthrene	85-01-8	1	0.020	0.020	ND	ug/L	H, U
Anthracene	120-12-7	1	0.020	0.020	ND	ug/L	H, U
Carbazole	86-74-8	1	0.020	0.020	ND	ug/L	H, U
Fluoranthene	206-44-0	1	0.020	0.020	ND	ug/L	H, U
Pyrene	129-00-0	1	0.020	0.020	ND	ug/L	H, U
Benzo(a)anthracene	56-55-3	1	0.020	0.020	ND	ug/L	H, U
Chrysene	218-01-9	1	0.020	0.020	ND	ug/L	H, U
Benzo(b)fluoranthene	205-99-2	1	0.020	0.020	ND	ug/L	H, U
Benzo(k)fluoranthene	207-08-9	1	0.020	0.020	ND	ug/L	H, U
Benzo(j)fluoranthene	205-82-3	1	0.020	0.020	ND	ug/L	H, U
# Benzofluoranthenes, Total		1	0.020	0.020	ND	ug/L	H, U
Benzo(a)pyrene	50-32-8	1	0.020	0.020	ND	ug/L	H, U
Perylene	198-55-0	1	0.010	0.020	ND	ug/L	H, U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.020	0.020	ND	ug/L	H, U
Dibenzo(a,h)anthracene	53-70-3	1	0.020	0.020	ND	ug/L	H, U
Benzo(g,h,i)perylene	191-24-2	1	0.020	0.020	ND	ug/L	H, U

Surrogate: 2-Methylnaphthalene-d10

42-120 % 51.3 % H

Surrogate: Dibenzo[a,h]anthracene-d14

29-120 % 64.7 % H

Surrogate: Fluoranthene-d10

57-120 % 56.0 % *, H



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Reported:
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SMW-5D
25F0554-01RE1 (Water)

Chlorinated Pesticides

Method: EPA 8081B

Sampled: 06/25/2025 08:00

Instrument: ECD9 Analyst: RKT

Analyzed: 08/02/2025 00:18

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 25F0554-01RE1 K 01

Preparation Batch: BNG0044

Sample Size: 500 mL

Prepared: 07/02/2025

Final Volume: 1 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
alpha-BHC	319-84-6	1	0.0006	0.0013	ND	ug/L	U
beta-BHC	319-85-7	1	0.0006	0.0013	ND	ug/L	U
gamma-BHC (Lindane)	58-89-9	1	0.0006	0.0013	ND	ug/L	U
delta-BHC	319-86-8	1	0.0006	0.0013	ND	ug/L	U
Heptachlor	76-44-8	1	0.0006	0.0013	ND	ug/L	U
Aldrin	309-00-2	1	0.0006	0.0013	ND	ug/L	U
Heptachlor Epoxide	1024-57-3	1	0.0006	0.0013	ND	ug/L	U
trans-Chlordane (beta/gamma-Chlordane)	5103-74-2	1	0.0006	0.0013	ND	ug/L	U
cis-Chlordane (alpha-chlordane)	5103-71-9	1	0.0006	0.0013	ND	ug/L	U
Endosulfan I	959-98-8	1	0.0006	0.0013	ND	ug/L	U
4,4'-DDE	72-55-9	1	0.0013	0.0025	ND	ug/L	U
Endrin	72-20-8	1	0.0013	0.0025	ND	ug/L	U
Endosulfan II	33213-65-9	1	0.0013	0.0025	ND	ug/L	U
4,4'-DDD	72-54-8	1	0.0013	0.0025	ND	ug/L	U
Endrin Aldehyde	7421-93-4	1	0.0013	0.0025	ND	ug/L	U
4,4'-DDT	50-29-3	1	0.0013	0.0025	ND	ug/L	U
Endosulfan Sulfate	1031-07-8	1	0.0013	0.0025	ND	ug/L	U
Endrin Ketone	53494-70-5	1	0.0013	0.0025	ND	ug/L	U
Methoxychlor	72-43-5	1	0.0063	0.0125	ND	ug/L	U
Hexachlorobutadiene	87-68-3	1	0.0013	0.0025	ND	ug/L	U
Hexachlorobenzene	118-74-1	1	0.0013	0.0025	ND	ug/L	U
Oxychlordane	27304-13-8	1	0.0025	0.0025	ND	ug/L	U
# Chlordane, technical	12789-03-6	1	0.0100	0.0100	ND	ug/L	U
Surrogate: Decachlorobiphenyl				30-160 %	25.4	%	*
Surrogate: Decachlorobiphenyl [2C]				30-160 %	26.6	%	*
Surrogate: Tetrachlorometaxylene				30-160 %	36.9	%	
Surrogate: Tetrachlorometaxylene [2C]				30-160 %	37.4	%	



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Reported:
14-Aug-2025 12:47

SMW-5D
25F0554-01RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/25/2025 08:00
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/16/2025 19:41
Sample Preparation:	Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
	Preparation Batch: BNG0252
	Prepared: 07/15/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25F0554-01RE1 T 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chromium, Dissolved	7440-47-3	20	7.50	10.0	ND	ug/L	U



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Reported:
14-Aug-2025 12:47

SMW-5S
25F0554-02 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT3 Analyst: FCL

Sampled: 06/25/2025 10:00

Analyzed: 07/01/2025 16:54

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) Sample Size: 10 mL
Preparation Batch: BNG0018 Final Volume: 10 mL
Prepared: 07/01/2025 Extract ID: 25F0554-02 E

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	7.78	ug/L	
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	1.13	ug/L	
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



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Reported:
14-Aug-2025 12:47

SMW-5S
25F0554-02 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/25/2025 10:00

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 16:54

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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	1.01	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



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5S
25F0554-02 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/25/2025 10:00

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 16:54

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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 %	107	%	
Surrogate: Toluene-d8				80-120 %	97.5	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	97.2	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	103	%	



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Reported:
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SMW-5S
25F0554-02 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260D-SIM

Sampled: 06/25/2025 10:00

Instrument: NT16 Analyst: LTN

Analyzed: 07/07/2025 12:13

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25F0554-02 C

Preparation Batch: BNG0097

Sample Size: 10 mL

Prepared: 07/07/2025

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 %	96.1	%	
Surrogate: Toluene-d8				80-120 %	104	%	
Surrogate: 4-Bromofluorobenzene				75-125 %	94.7	%	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5S
25F0554-02 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E
Instrument: NT17 Analyst: AA

Sampled: 06/25/2025 10:00

Analyzed: 07/03/2025 20:08

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BNG0010
Prepared: 07/01/2025

Sample Size: 500 mL
Final Volume: 1 mL

Extract ID: 25F0554-02 I 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Phenol	108-95-2	1	0.2	0.4	ND	ug/L	U
bis(2-chloroethyl) ether	111-44-4	1	0.2	0.4	ND	ug/L	U
2-Chlorophenol	95-57-8	1	0.2	0.4	ND	ug/L	U
1,3-Dichlorobenzene	541-73-1	1	0.2	0.4	ND	ug/L	U
1,4-Dichlorobenzene	106-46-7	1	0.2	0.4	ND	ug/L	U
1,2-Dichlorobenzene	95-50-1	1	0.2	0.4	ND	ug/L	U
Benzyl Alcohol	100-51-6	1	0.2	0.4	ND	ug/L	U
2,2'-Oxybis(1-chloropropane)	108-60-1	1	0.2	0.4	ND	ug/L	U
2-Methylphenol	95-48-7	1	0.2	0.4	ND	ug/L	U
Hexachloroethane	67-72-1	1	0.2	0.4	ND	ug/L	U
N-Nitroso-di-n-Propylamine	621-64-7	1	0.2	0.4	ND	ug/L	U
4-Methylphenol	106-44-5	1	0.2	0.4	ND	ug/L	U
Nitrobenzene	98-95-3	1	0.2	0.4	ND	ug/L	U
Isophorone	78-59-1	1	0.2	0.4	ND	ug/L	U
2-Nitrophenol	88-75-5	1	1.0	2.0	ND	ug/L	U
2,4-Dimethylphenol	105-67-9	1	1.0	2.0	ND	ug/L	U
Bis(2-Chloroethoxy)methane	111-91-1	1	0.2	0.4	ND	ug/L	U
2,4-Dichlorophenol	120-83-2	1	1.0	2.0	ND	ug/L	U
1,2,4-Trichlorobenzene	120-82-1	1	0.2	0.4	ND	ug/L	U
Naphthalene	91-20-3	1	0.2	0.4	ND	ug/L	U
Benzoic acid	65-85-0	1	2.0	4.0	ND	ug/L	U
4-Chloroaniline	106-47-8	1	1.0	2.0	ND	ug/L	U
Hexachlorobutadiene	87-68-3	1	0.2	0.4	ND	ug/L	U
4-Chloro-3-Methylphenol	59-50-7	1	1.0	2.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.2	0.4	ND	ug/L	U
Hexachlorocyclopentadiene	77-47-4	1	1.0	2.0	ND	ug/L	U
2,4,6-Trichlorophenol	88-06-2	1	1.0	2.0	ND	ug/L	U
2,4,5-Trichlorophenol	95-95-4	1	1.0	2.0	ND	ug/L	U
2-Chloronaphthalene	91-58-7	1	0.2	0.4	ND	ug/L	U
2-Nitroaniline	88-74-4	1	1.0	2.0	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.2	0.4	ND	ug/L	U
Dimethylphthalate	131-11-3	1	0.2	0.4	ND	ug/L	U



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Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5S
25F0554-02 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 06/25/2025 10:00

Instrument: NT17 Analyst: AA

Analyzed: 07/03/2025 20:08

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
2,6-Dinitrotoluene	606-20-2	1	1.0	2.0	ND	ug/L	U
Acenaphthene	83-32-9	1	0.2	0.4	ND	ug/L	U
3-Nitroaniline	99-09-2	1	1.0	2.0	ND	ug/L	U
2,4-Dinitrophenol	51-28-5	1	2.0	4.0	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.2	0.4	ND	ug/L	U
4-Nitrophenol	100-02-7	1	1.0	2.0	ND	ug/L	U
2,4-Dinitrotoluene	121-14-2	1	1.0	2.0	ND	ug/L	U
Fluorene	86-73-7	1	0.2	0.4	ND	ug/L	U
4-Chlorophenylphenyl ether	7005-72-3	1	0.2	0.4	ND	ug/L	U
Diethyl phthalate	84-66-2	1	0.2	0.4	0.3	ug/L	J
4-Nitroaniline	100-01-6	1	1.0	2.0	ND	ug/L	U
4,6-Dinitro-2-methylphenol	534-52-1	1	2.0	4.0	ND	ug/L	U
N-Nitrosodiphenylamine	86-30-6	1	0.2	0.4	ND	ug/L	U
4-Bromophenyl phenyl ether	101-55-3	1	0.2	0.4	ND	ug/L	U
Hexachlorobenzene	118-74-1	1	0.2	0.4	ND	ug/L	U
Pentachlorophenol	87-86-5	1	1.0	2.0	ND	ug/L	U
Phenanthrene	85-01-8	1	0.2	0.4	ND	ug/L	U
Anthracene	120-12-7	1	0.2	0.4	ND	ug/L	U
Carbazole	86-74-8	1	0.2	0.4	ND	ug/L	U
Di-n-Butylphthalate	84-74-2	1	0.2	0.4	ND	ug/L	U
Fluoranthene	206-44-0	1	0.2	0.4	ND	ug/L	U
Pyrene	129-00-0	1	0.2	0.4	ND	ug/L	U
Butylbenzylphthalate	85-68-7	1	0.2	0.4	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.2	0.4	ND	ug/L	U
3,3'-Dichlorobenzidine	91-94-1	1	1.0	2.0	ND	ug/L	U
Chrysene	218-01-9	1	0.2	0.4	ND	ug/L	U
bis(2-Ethylhexyl)phthalate	117-81-7	1	0.4	0.4	7.7	ug/L	B
Di-n-Octylphthalate	117-84-0	1	0.2	0.4	ND	ug/L	U
Benzofluoranthenes, Total		1	0.4	0.8	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.2	0.4	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.4	0.4	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.2	0.4	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.2	0.4	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.2	0.4	ND	ug/L	U
2,3,4,6-Tetrachlorophenol	58-90-2	1	0.2	0.4	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5S
25F0554-02 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 06/25/2025 10:00

Instrument: NT17 Analyst: AA

Analyzed: 07/03/2025 20:08

Analyte	CAS Number	Recovery	Recovery	Units	Notes
		Limits			
Surrogate: 2-Fluorophenol		30-160 %	34.6	%	
Surrogate: Phenol-d5		30-160 %	22.1	%	*
Surrogate: 2-Chlorophenol-d4		30-160 %	66.1	%	
Surrogate: 1,2-Dichlorobenzene-d4		30-160 %	50.4	%	Q
Surrogate: Nitrobenzene-d5		30-160 %	79.3	%	
Surrogate: 2-Fluorobiphenyl		30-160 %	66.8	%	
Surrogate: 2,4,6-Tribromophenol		30-160 %	64.8	%	Q
Surrogate: p-Terphenyl-d14		30-160 %	79.6	%	



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Reported:
14-Aug-2025 12:47

SMW-5S
25F0554-02 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E	Sampled: 06/25/2025 10:00	
Instrument: NT6 Analyst: JZ	Analyzed: 07/03/2025 18:30	
Sample Preparation:	Preparation Method: EPA 3520C (Liq Liq)	Extract ID: 25F0554-02 H 01
	Preparation Batch: BNF0579	Sample Size: 500 mL
	Prepared: 06/30/2025	Final Volume: 1 mL

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
<i>Surrogate: 1,4-Dioxane-d8</i>				30-160 %	55.2	%	



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Project Number: Snipes MTN Landfill 2025
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Reported:
14-Aug-2025 12:47

SMW-5S
25F0554-02 (Water)

Semivolatile Organic Compounds - SIM

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

Sampled: 06/25/2025 10:00

Analyzed: 07/11/2025 22:30

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BNG0042
Prepared: 07/02/2025

Sample Size: 500 mL
Final Volume: 1 mL

Extract ID: 25F0554-02 J 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.020	0.020	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.020	0.020	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.020	0.020	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.020	0.020	ND	ug/L	U
Acenaphthene	83-32-9	1	0.020	0.020	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.020	0.020	ND	ug/L	U
Fluorene	86-73-7	1	0.010	0.020	ND	ug/L	U
Phenanthrene	85-01-8	1	0.020	0.020	ND	ug/L	U
Anthracene	120-12-7	1	0.020	0.020	ND	ug/L	U
Carbazole	86-74-8	1	0.020	0.020	ND	ug/L	U
Fluoranthene	206-44-0	1	0.020	0.020	ND	ug/L	U
Pyrene	129-00-0	1	0.020	0.020	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.020	0.020	ND	ug/L	U
Chrysene	218-01-9	1	0.020	0.020	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.020	0.020	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.020	0.020	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.020	0.020	ND	ug/L	U
# Benzofluoranthenes, Total		1	0.020	0.020	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.020	0.020	ND	ug/L	U
Perylene	198-55-0	1	0.010	0.020	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.020	0.020	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.020	0.020	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.020	0.020	ND	ug/L	U

Surrogate: 2-Methylnaphthalene-d10

42-120 % 32.7 % *

Surrogate: Dibenzo[a,h]anthracene-d14

29-120 % 29.0 % Q

Surrogate: Fluoranthene-d10

57-120 % 36.9 % *



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5S
25F0554-02 (Water)

Dioxins/Furans

Method: EPA 1613B			Sampled: 06/25/2025 10:00		
Instrument: AUTOSPEC01 Analyst: jgr			Analyzed: 08/08/2025 06:13		
Sample Preparation:	Preparation Method: EPA 1613			Extract ID: 25F0554-02 F 01	
	Preparation Batch: BNG0286	Sample Size: 1020 mL			
	Prepared: 07/17/2025	Final Volume: 20 uL			
Sample Cleanup:	Cleanup Method: Silica Gel			Extract ID: 25F0554-02 F 01	
	Cleanup Batch: CNG0074	Initial Volume: 20 uL			
	Cleaned: 18-Jul-2025	Final Volume: 20 uL			
Sample Cleanup:	Cleanup Method: Sulfuric Acid			Extract ID: 25F0554-02 F 01	
	Cleanup Batch: CNG0073	Initial Volume: 20 uL			
	Cleaned: 18-Jul-2025	Final Volume: 20 uL			
Sample Cleanup:	Cleanup Method: Florisil			Extract ID: 25F0554-02 F 01	
	Cleanup Batch: CNG0075	Initial Volume: 20 uL			
	Cleaned: 18-Jul-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	5.19	9.80	ND	pg/L	U
2,3,7,8-TCDD			0.655-0.886	4.08	9.80	ND	pg/L	U
1,2,3,7,8-PeCDF			1.318-1.783	4.05	9.80	ND	pg/L	U
2,3,4,7,8-PeCDF			1.318-1.783	3.97	9.80	ND	pg/L	U
1,2,3,7,8-PeCDD			1.318-1.783	5.33	9.80	ND	pg/L	U
1,2,3,4,7,8-HxCDF			1.054-1.426	3.31	9.80	ND	pg/L	U
1,2,3,6,7,8-HxCDF			1.054-1.426	3.34	9.80	ND	pg/L	U
2,3,4,6,7,8-HxCDF			1.054-1.426	3.32	9.80	ND	pg/L	U
1,2,3,7,8,9-HxCDF			1.054-1.426	4.24	9.80	ND	pg/L	U
1,2,3,4,7,8-HxCDD			1.054-1.426	5.69	9.80	ND	pg/L	U
1,2,3,6,7,8-HxCDD			1.054-1.426	5.64	9.80	ND	pg/L	U
1,2,3,7,8,9-HxCDD			1.054-1.426	6.15	9.80	ND	pg/L	U
1,2,3,4,6,7,8-HpCDF			0.893-1.208	3.64	19.6	ND	pg/L	U
1,2,3,4,7,8,9-HpCDF			0.893-1.208	5.17	9.80	ND	pg/L	U
1,2,3,4,6,7,8-HpCDD			0.893-1.208	5.58	9.80	ND	pg/L	U
OCDF			0.757-1.024	5.47	19.6	ND	pg/L	U
OCDD		0.809	0.757-1.024		49.0	57.9	pg/L	B
Homologue groups								
Total TCDF					9.80	ND	pg/L	U
Total TCDD					9.80	ND	pg/L	U
Total PeCDF					9.80	ND	pg/L	U
Total PeCDD					9.80	ND	pg/L	U
Total HxCDF					9.80	ND	pg/L	U
Total HxCDD					9.80	ND	pg/L	U
Total HpCDF					9.80	ND	pg/L	U
Total HpCDD					9.80	ND	pg/L	U



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5S
25F0554-02 (Water)

Dioxins/Furans

Method: EPA 1613B

Sampled: 06/25/2025 10:00

Instrument: AUTOSPEC01 Analyst: jgr

Analyzed: 08/08/2025 06:13

Analyte	DF/Split	Ion Ratio	Ratio Limits	Reporting Limit	Result	Units	Notes
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC):				7.30			
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC):				0.02			
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, EMPC = ND):				7.30			
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, EMPC = ND):				0.00			



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SMW-5S
25F0554-02 (Water)

Dioxins/Furans

Method: EPA 1613B

Sampled: 06/25/2025 10:00

Instrument: AUTOSPEC01 Analyst: jgr

Analyzed: 08/08/2025 06:13

Analyte	DF/Split	Ion Ratio	Ratio Limits	Reporting Limit	Result	Units	Notes
Labeled compounds							
13C12-2,3,7,8-TCDF		0.743	0.655-0.886	24-169 %	22.4	%	*
13C12-2,3,7,8-TCDD		0.800	0.655-0.886	25-164 %	37.1	%	
13C12-1,2,3,7,8-PeCDF		1.651	1.318-1.783	24-185 %	41.6	%	
13C12-2,3,4,7,8-PeCDF		1.587	1.318-1.783	21-178 %	41.0	%	
13C12-1,2,3,7,8-PeCDD		1.605	1.318-1.783	25-181 %	46.4	%	
13C12-1,2,3,4,7,8-HxCDF		0.513	0.434-0.587	26-152 %	43.0	%	
13C12-1,2,3,6,7,8-HxCDF		0.515	0.434-0.587	26-123 %	44.2	%	
13C12-2,3,4,6,7,8-HxCDF		0.539	0.434-0.587	28-136 %	41.1	%	
13C12-1,2,3,7,8,9-HxCDF		0.548	0.434-0.587	29-147 %	45.4	%	
13C12-1,2,3,4,7,8-HxCDD		1.212	1.054-1.426	32-141 %	47.0	%	
13C12-1,2,3,6,7,8-HxCDD		1.144	1.054-1.426	28-130 %	45.4	%	
13C12-1,2,3,4,6,7,8-HpCDF		0.437	0.374-0.506	28-143 %	35.7	%	
13C12-1,2,3,4,7,8,9-HpCDF		0.425	0.374-0.506	26-138 %	38.3	%	
13C12-1,2,3,4,6,7,8-HpCDD		1.035	0.893-1.208	23-140 %	48.5	%	
13C12-OCDD		0.880	0.757-1.024	17-157 %	44.0	%	
37Cl4-2,3,7,8-TCDD				35-197 %	58.3	%	



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Reported:
14-Aug-2025 12:47

SMW-5S
25F0554-02 (Water)

Dioxins/Furans

Method: EPA 1613B
Instrument: AUTOSPEC01 Analyst: jgr

Sampled: 06/25/2025 10:00
Analyzed: 08/08/2025 06:13

SMW-5S
25F0554-02 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 06/25/2025 10:00
Analyzed: 07/17/2025 20:40

Sample Preparation: Preparation Method: WMN (No Prep)
Preparation Batch: BNG0158 Sample Size: 25 mL
Prepared: 07/10/2025 Final Volume: 25 mL

Extract ID: 25F0554-02 X 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	56.2	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	16.0	mg/L	
Manganese, Dissolved	7439-96-5	1	0.0020	0.0040	0.0490	mg/L	
Potassium, Dissolved	7440-09-7	1	0.250	0.500	4.53	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	25.6	mg/L	
Sodium, Dissolved	7440-23-5	1	25.0	50.0	26.2	mg/L	J



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Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-5S
25F0554-02 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/25/2025 10:00
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/15/2025 20:34
Sample Preparation:	Extract ID: 25F0554-02 X 02
Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix	
Preparation Batch: BNG0252	Sample Size: 25 mL
Prepared: 07/15/2025	Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Antimony, Dissolved	7440-36-0	1	0.150	0.200	0.692	ug/L	
Arsenic UCT, Dissolved	7440-38-2	1	0.100	0.200	6.18	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	25.8	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	0.316	ug/L	J
Lead, Dissolved	7439-92-1	1	0.100	0.200	0.130	ug/L	J
Nickel UCT, Dissolved	7440-02-0	1	0.250	0.500	91.6	ug/L	
Selenium UCT, Dissolved	7782-49-2	1	0.500	1.00	3.20	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	3.54	ug/L	B, J



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
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SMW-5S
25F0554-02 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A	Sampled: 06/25/2025 10:00
Instrument: HYDRA Analyst: ML	Analyzed: 07/14/2025 11:20
Sample Preparation:	Preparation Method: TWM EPA 7470A
	Preparation Batch: BNG0213
	Prepared: 07/14/2025
	Sample Size: 20 mL
	Final Volume: 20 mL
	Extract ID: 25F0554-02 X 01
	Filtration Batch: BNF0562
	Filtration Date: 06/28/2025 13:05

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



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Reported:
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SMW-5S
25F0554-02 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 06/25/2025 10:00

Instrument: [CALC] Analyst: CRB

Analyzed: 07/16/2025 18:10

Sample Preparation:

Preparation Method: [CALC]

Extract ID: 25F0554-02

Preparation Batch: [CALC]

Prepared: 07/16/2025

Final Volume: 1

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	2	0.0300	1.13	mg/L	H



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Reported:
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SMW-5S
25F0554-02 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 06/25/2025 10:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 06/27/2025 18:29

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-02 S

Preparation Batch: BNF0559

Sample Size: 10 mL

Prepared: 06/27/2025

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	0.044	mg/L	H



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Reported:
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SMW-5S
25F0554-02 (Water)

Wet Chemistry

Method: EPA 410.4

Sampled: 06/25/2025 10:00

Instrument: UV1800-1 Analyst: CDE

Analyzed: 07/23/2025 17:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-02 U

Preparation Batch: BNG0395

Sample Size: 2 mL

Prepared: 07/21/2025

Final Volume: 2 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
COD		1	10.0	10.0	71.0	mg/L	



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Reported:
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SMW-5S
25F0554-02 (Water)

Wet Chemistry

Method: EPA 9060A

Sampled: 06/25/2025 10:00

Instrument: TOC-LCSH Analyst: RMS

Analyzed: 07/15/2025 16:57

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-02 U

Preparation Batch: BNG0246

Sample Size: 20 mL

Prepared: 07/15/2025

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	2.18	mg/L	



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Reported:
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SMW-5S
25F0554-02 (Water)

Wet Chemistry

Method: SM 2320 B-11

Sampled: 06/25/2025 10:00

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 07/02/2025 10:49

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-02 T

Preparation Batch: BNG0041

Sample Size: 50 mL

Prepared: 07/02/2025

Final Volume: 50 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Total		1	1.00	1.00	236	mg/L CaCO ₃	



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Reported:
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SMW-5S
25F0554-02 (Water)

Wet Chemistry

Method: SM 2540 C-11

Sampled: 06/25/2025 10:00

Instrument: BAL2 Analyst: AG

Analyzed: 07/01/2025 10:06

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-02

Preparation Batch: BNG0011

Sample Size: 100 mL

Prepared: 07/01/2025

Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	328	mg/L	



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Reported:
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SMW-5S
25F0554-02 (Water)

Wet Chemistry

Method: SM 2540 D-11

Sampled: 06/25/2025 10:00

Instrument: BAL2 Analyst: AG

Analyzed: 07/01/2025 09:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-02

Preparation Batch: BNG0006

Sample Size: 10 mL

Prepared: 07/01/2025

Final Volume: 1000 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Suspended Solids		1	100	100	1510	mg/L	



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Reported:
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SMW-5S
25F0554-02 (Water)

Wet Chemistry

Method: SM 4500-NH3 H-11
Instrument: LCHAT1 Analyst: CB

Sampled: 06/25/2025 10:00

Analyzed: 07/08/2025 17:03

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BNG0111 Sample Size: 10 mL
Prepared: 07/07/2025 Final Volume: 10 mL

Extract ID: 25F0554-02 U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Ammonia-N	7664-41-7	1	0.040	0.040	0.055	mg/L	



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Reported:
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SMW-5S
25F0554-02RE1 (Water)

Semivolatile Organic Compounds - SIM

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

Sampled: 06/25/2025 10:00

Analyzed: 07/18/2025 21:28

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BNG0315
Prepared: 07/17/2025

Sample Size: 50 mL
Final Volume: 1 mL

Extract ID: 25F0554-02RE1 L 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.200	0.200	ND	ug/L	H, U
2-Methylnaphthalene	91-57-6	1	0.200	0.200	ND	ug/L	H, U
1-Methylnaphthalene	90-12-0	1	0.200	0.200	ND	ug/L	H, U
Acenaphthylene	208-96-8	1	0.200	0.200	ND	ug/L	H, U
Acenaphthene	83-32-9	1	0.200	0.200	ND	ug/L	H, U
Dibenzofuran	132-64-9	1	0.200	0.200	ND	ug/L	H, U
Fluorene	86-73-7	1	0.100	0.200	ND	ug/L	H, U
Phenanthrene	85-01-8	1	0.200	0.200	ND	ug/L	H, U
Anthracene	120-12-7	1	0.200	0.200	ND	ug/L	H, U
Carbazole	86-74-8	1	0.200	0.200	ND	ug/L	H, U
Fluoranthene	206-44-0	1	0.200	0.200	ND	ug/L	H, U
Pyrene	129-00-0	1	0.200	0.200	ND	ug/L	H, U
Benzo(a)anthracene	56-55-3	1	0.200	0.200	ND	ug/L	H, U
Chrysene	218-01-9	1	0.200	0.200	ND	ug/L	H, U
Benzo(b)fluoranthene	205-99-2	1	0.200	0.200	ND	ug/L	H, U
Benzo(k)fluoranthene	207-08-9	1	0.200	0.200	ND	ug/L	H, U
Benzo(j)fluoranthene	205-82-3	1	0.200	0.200	ND	ug/L	H, U
# Benzofluoranthenes, Total		1	0.200	0.200	ND	ug/L	H, U
Benzo(a)pyrene	50-32-8	1	0.200	0.200	ND	ug/L	H, U
Perylene	198-55-0	1	0.100	0.200	ND	ug/L	H, U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.200	0.200	ND	ug/L	H, U
Dibenzo(a,h)anthracene	53-70-3	1	0.200	0.200	ND	ug/L	H, U
Benzo(g,h,i)perylene	191-24-2	1	0.200	0.200	ND	ug/L	H, U

Surrogate: 2-Methylnaphthalene-d10

42-120 % 51.7 % H

Surrogate: Dibenzo[a,h]anthracene-d14

29-120 % 66.5 % H

Surrogate: Fluoranthene-d10

57-120 % 77.9 % H



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Reported:
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SMW-5S
25F0554-02RE1 (Water)

Chlorinated Pesticides

Method: EPA 8081B
Instrument: ECD9 Analyst: RKT
Sampled: 06/25/2025 10:00
Analyzed: 08/02/2025 00:33

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BNG0044 Sample Size: 500 mL
Prepared: 07/02/2025 Final Volume: 1 mL
Extract ID: 25F0554-02RE1 K 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
alpha-BHC	319-84-6	1	0.0006	0.0013	ND	ug/L	U
beta-BHC	319-85-7	1	0.0006	0.0013	ND	ug/L	U
gamma-BHC (Lindane)	58-89-9	1	0.0006	0.0013	ND	ug/L	U
delta-BHC	319-86-8	1	0.0006	0.0013	ND	ug/L	U
Heptachlor	76-44-8	1	0.0006	0.0013	ND	ug/L	U
Aldrin	309-00-2	1	0.0006	0.0013	ND	ug/L	U
Heptachlor Epoxide	1024-57-3	1	0.0006	0.0013	ND	ug/L	U
trans-Chlordane (beta/gamma-Chlordane)	5103-74-2	1	0.0006	0.0013	ND	ug/L	U
cis-Chlordane (alpha-chlordane)	5103-71-9	1	0.0006	0.0013	ND	ug/L	U
Endosulfan I	959-98-8	1	0.0006	0.0013	ND	ug/L	U
4,4'-DDE	72-55-9	1	0.0013	0.0025	ND	ug/L	U
Endrin	72-20-8	1	0.0013	0.0025	ND	ug/L	U
Endosulfan II	33213-65-9	1	0.0013	0.0025	ND	ug/L	U
4,4'-DDD	72-54-8	1	0.0013	0.0025	ND	ug/L	U
Endrin Aldehyde	7421-93-4	1	0.0013	0.0025	ND	ug/L	U
4,4'-DDT	50-29-3	1	0.0013	0.0025	ND	ug/L	U
Endosulfan Sulfate	1031-07-8	1	0.0013	0.0025	ND	ug/L	U
Endrin Ketone	53494-70-5	1	0.0013	0.0025	ND	ug/L	U
Methoxychlor	72-43-5	1	0.0063	0.0125	ND	ug/L	U
Hexachlorobutadiene	87-68-3	1	0.0013	0.0025	ND	ug/L	U
Hexachlorobenzene	118-74-1	1	0.0013	0.0025	ND	ug/L	U
Oxychlordane	27304-13-8	1	0.0025	0.0025	ND	ug/L	U
# Chlordane, technical	12789-03-6	1	0.0100	0.0100	ND	ug/L	U
Surrogate: Decachlorobiphenyl				30-160 %	45.6	%	
Surrogate: Decachlorobiphenyl [2C]				30-160 %	54.5	%	
Surrogate: Tetrachlorometaxylene				30-160 %	57.4	%	
Surrogate: Tetrachlorometaxylene [2C]				30-160 %	58.5	%	



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Reported:
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SMW-5S
25F0554-02RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/25/2025 10:00
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/16/2025 19:46
Sample Preparation:	Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
	Preparation Batch: BNG0252
	Prepared: 07/15/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25F0554-02RE1 X 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chromium, Dissolved	7440-47-3	20	7.50	10.0	ND	ug/L	U



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Reported:
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SMW-5S
25F0554-02RE1 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 06/25/2025 10:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/03/2025 16:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-02RE1 R

Preparation Batch: BNG0078

Sample Size: 10 mL

Prepared: 07/03/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
# Chloride	16887-00-6	5	5.00	5.00	23.3	mg/L	D



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Reported:
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SMW-5S
25F0554-02RE1 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 06/25/2025 10:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/02/2025 14:04

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-02RE1 R

Preparation Batch: BNF0604

Sample Size: 10 mL

Prepared: 06/30/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	5	10.0	10.0	68.0	mg/L	D, B



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Reported:
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SMW-5S
25F0554-02RE3 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 06/25/2025 10:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/16/2025 18:10

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-02RE3 U

Preparation Batch: BNG0305

Sample Size: 10 mL

Prepared: 07/16/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate + Nitrite as N		2	0.020	0.020	1.17	mg/L	D



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Reported:
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SMW-2
25F0554-03 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT3 Analyst: FCL

Sampled: 06/24/2025 13:30

Analyzed: 07/01/2025 17:17

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNG0018 Sample Size: 10 mL
Prepared: 07/01/2025 Final Volume: 10 mL

Extract ID: 25F0554-03 E

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	5.05	ug/L	
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



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Reported:
14-Aug-2025 12:47

SMW-2
25F0554-03 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/24/2025 13:30

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 17:17

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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
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



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

SMW-2
25F0554-03 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/24/2025 13:30

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 17:17

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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 %	101	%	
Surrogate: Toluene-d8				80-120 %	98.0	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	93.5	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	103	%	



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Reported:
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SMW-2
25F0554-03 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 06/24/2025 13:30

Analyzed: 07/17/2025 21:36

Sample Preparation: Preparation Method: WMN (No Prep) Sample Size: 25 mL
Preparation Batch: BNG0187 Final Volume: 25 mL
Prepared: 07/10/2025 Extract ID: 25F0554-03 L 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	42.0	mg/L	
Iron, Dissolved	7439-89-6	1	0.0540	0.100	0.151	mg/L	
Magnesium, Dissolved	7439-95-4	1	0.0250	0.0500	13.7	mg/L	
Manganese, Dissolved	7439-96-5	1	0.0020	0.0040	0.0443	mg/L	
Potassium, Dissolved	7440-09-7	1	0.250	0.500	8.49	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	21.7	mg/L	



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Reported:
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SMW-2
25F0554-03 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B
Instrument: ICPMS1 Analyst: HAL
Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
Preparation Batch: BNG0219 Sample Size: 25 mL
Prepared: 07/14/2025 Final Volume: 25 mL

Sampled: 06/24/2025 13:30

Analyzed: 07/15/2025 20:24

Extract ID: 25F0554-03 L 01

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	3.27	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	53.8	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	3.42	ug/L	
Nickel UCT, Dissolved	7440-02-0	1	0.250	0.500	234	ug/L	
Selenium UCT, Dissolved	7782-49-2	1	0.500	1.00	2.93	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	14.8	ug/L	



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Reported:
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SMW-2
25F0554-03 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A
Instrument: HYDRA Analyst: ML

Sampled: 06/24/2025 13:30

Analyzed: 07/14/2025 10:56

Sample Preparation: Preparation Method: TWM EPA 7470A
Preparation Batch: BNG0206
Prepared: 07/12/2025

Sample Size: 20 mL
Final Volume: 20 mL

Extract ID: 25F0554-03 L

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



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Reported:
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SMW-2
25F0554-03 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 06/24/2025 13:30

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/03/2025 16:04

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-03 G

Preparation Batch: BNG0078

Sample Size: 10 mL

Prepared: 07/03/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
# Chloride	16887-00-6	1	1.00	1.00	5.92	mg/L	



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Reported:
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SMW-2
25F0554-03 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 06/24/2025 13:30

Instrument: [CALC] Analyst: CRB

Analyzed: 07/16/2025 17:26

Sample Preparation:

Preparation Method: [CALC]

Extract ID: 25F0554-03

Preparation Batch: [CALC]

Prepared: 07/16/2025

Final Volume: 1

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.0200	0.502	mg/L	H



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Reported:
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SMW-2
25F0554-03 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 06/24/2025 13:30

Instrument: LACHAT2 Analyst: CRB

Analyzed: 06/27/2025 18:31

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-03 H

Preparation Batch: BNF0559

Sample Size: 10 mL

Prepared: 06/27/2025

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:
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SMW-2
25F0554-03 (Water)

Wet Chemistry

Method: EPA 353.2

Sampled: 06/24/2025 13:30

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/16/2025 17:26

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-03 I

Preparation Batch: BNG0305

Sample Size: 10 mL

Prepared: 07/16/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate + Nitrite as N		1	0.010	0.010	0.502	mg/L	



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SMW-2
25F0554-03 (Water)

Wet Chemistry

Method: EPA 410.4

Sampled: 06/24/2025 13:30

Instrument: UV1800-1 Analyst: CDE

Analyzed: 07/23/2025 17:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-03 I

Preparation Batch: BNG0395

Sample Size: 2 mL

Prepared: 07/21/2025

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:
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SMW-2
25F0554-03 (Water)

Wet Chemistry

Method: EPA 9060A

Sampled: 06/24/2025 13:30

Instrument: TOC-LCSH Analyst: RMS

Analyzed: 07/15/2025 17:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-03 I

Preparation Batch: BNG0246

Sample Size: 20 mL

Prepared: 07/15/2025

Final Volume: 20 mL

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



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Reported:
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SMW-2
25F0554-03 (Water)

Wet Chemistry

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

Sampled: 06/24/2025 13:30

Analyzed: 07/08/2025 17:05

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BNG0111 Sample Size: 10 mL
Prepared: 07/07/2025 Final Volume: 10 mL

Extract ID: 25F0554-03 I

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:
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SMW-2
25F0554-03RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/24/2025 13:30
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/16/2025 19:37
Sample Preparation:	Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
	Preparation Batch: BNG0219
	Prepared: 07/14/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25F0554-03RE1 L 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chromium, Dissolved	7440-47-3	50	18.8	25.0	19.9	ug/L	J, D



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Reported:
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SMW-2
25F0554-03RE1 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 06/24/2025 13:30

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/02/2025 14:05

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-03RE1 F

Preparation Batch: BNF0604

Sample Size: 10 mL

Prepared: 06/30/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	5	10.0	10.0	88.0	mg/L	D, B



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Reported:
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SMW-2
25F0554-03RE2 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/24/2025 13:30
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/24/2025 01:18
Sample Preparation:	Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
	Preparation Batch: BNG0350
	Prepared: 07/18/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25F0554-03RE2 L 04

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
Lead, Dissolved	7439-92-1	1	0.100	0.200	0.230	ug/L	



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Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Trip Blank
25F0554-04 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT3 Analyst: FCL

Sampled: 06/24/2025 10:00

Analyzed: 07/01/2025 14:19

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNG0018 Sample Size: 10 mL
Prepared: 07/01/2025 Final Volume: 10 mL

Extract ID: 25F0554-04 B

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



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Trip Blank
25F0554-04 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/24/2025 10:00

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 14:19

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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
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



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Reported:
14-Aug-2025 12:47

Trip Blank
25F0554-04 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/24/2025 10:00

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 14:19

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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 %	105	%	
Surrogate: Toluene-d8				80-120 %	96.3	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	96.0	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	103	%	



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Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Evans
25F0554-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT3 Analyst: FCL

Sampled: 06/24/2025 14:10

Analyzed: 07/01/2025 17:39

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNG0018 Sample Size: 10 mL
Prepared: 07/01/2025 Final Volume: 10 mL

Extract ID: 25F0554-05 E

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	0.11	ug/L	J
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	0.33	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



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Evans
25F0554-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/24/2025 14:10

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 17:39

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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	6.01	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



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Evans
25F0554-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/24/2025 14:10

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 17:39

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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	0.39	ug/L	
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 %	106	%	
Surrogate: Toluene-d8				80-120 %	98.6	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	95.5	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	102	%	



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Project Manager: Jeff Parker

Reported:
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Evans
25F0554-05 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 06/24/2025 14:10

Analyzed: 07/17/2025 20:55

Sample Preparation: Preparation Method: WMN (No Prep) Sample Size: 25 mL
Preparation Batch: BNG0187 Final Volume: 25 mL
Prepared: 07/10/2025 Extract ID: 25F0554-05 G 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	83.4	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	28.4	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	6.88	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	27.0	mg/L	



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Reported:
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Evans
25F0554-05 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/24/2025 14:10
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/15/2025 21:18
Sample Preparation:	Extract ID: 25F0554-05 G 01
Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix	
Preparation Batch: BNG0219	Sample Size: 25 mL
Prepared: 07/14/2025	Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
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	3.50	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	30.8	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	7.39	ug/L	
Nickel UCT, Dissolved	7440-02-0	1	0.250	0.500	0.458	ug/L	J
Selenium UCT, Dissolved	7782-49-2	1	0.500	1.00	2.37	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	36.0	ug/L	



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Reported:
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Evans
25F0554-05 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A	Sampled: 06/24/2025 14:10
Instrument: HYDRA Analyst: ML	Analyzed: 07/14/2025 10:59
Sample Preparation:	Preparation Method: TWM EPA 7470A
	Preparation Batch: BNG0206
	Prepared: 07/12/2025
	Sample Size: 20 mL
	Final Volume: 20 mL
	Extract ID: 25F0554-05 G

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



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Evans
25F0554-05RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/24/2025 14:10
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/16/2025 20:27
Sample Preparation:	Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
	Preparation Batch: BNG0219
	Prepared: 07/14/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25F0554-05RE1 G 03

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chromium, Dissolved	7440-47-3	20	7.50	10.0	ND	ug/L	U



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Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Evans
25F0554-05RE1 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 06/24/2025 14:10

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/03/2025 16:34

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-05RE1 F

Preparation Batch: BNG0078

Sample Size: 10 mL

Prepared: 07/03/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
# Chloride	16887-00-6	10	10.0	10.0	38.7	mg/L	D



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Project Number: Snipes MTN Landfill 2025
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Reported:
14-Aug-2025 12:47

Evans
25F0554-05RE1 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 06/24/2025 14:10

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/02/2025 14:07

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-05RE1 F

Preparation Batch: BNF0604

Sample Size: 10 mL

Prepared: 06/30/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	5	10.0	10.0	96.0	mg/L	D, B



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Evans
25F0554-05RE2 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/24/2025 14:10
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/24/2025 01:23
Sample Preparation:	Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
	Preparation Batch: BNG0350
	Prepared: 07/18/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25F0554-05RE2 G 04

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Lead, Dissolved	7439-92-1	1	0.100	0.200	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT3 Analyst: FCL

Sampled: 06/24/2025 15:00

Analyzed: 07/01/2025 18:01

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNG0018 Sample Size: 10 mL
Prepared: 07/01/2025 Final Volume: 10 mL

Extract ID: 25F0554-06 E

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	6.48	ug/L	
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



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/24/2025 15:00

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 18:01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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	0.84	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



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/24/2025 15:00

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 18:01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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 %	107	%	
Surrogate: Toluene-d8				80-120 %	97.1	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	94.6	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	101	%	



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Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 06/24/2025 15:00

Analyzed: 07/17/2025 20:58

Sample Preparation: Preparation Method: WMN (No Prep) Sample Size: 25 mL
Preparation Batch: BNG0187 Final Volume: 25 mL
Prepared: 07/10/2025 Extract ID: 25F0554-06 G 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	36.4	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	10.9	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	7.15	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	20.0	mg/L	



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Reported:
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O.L. Luther
25F0554-06 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B
Instrument: ICPMS1 Analyst: HAL
Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
Preparation Batch: BNG0219 Sample Size: 25 mL
Prepared: 07/14/2025 Final Volume: 25 mL
Sampled: 06/24/2025 15:00
Analyzed: 07/15/2025 21:24
Extract ID: 25F0554-06 G 01

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	4.58	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	10.4	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	1.41	ug/L	
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	1.23	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	5.66	ug/L	J



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Reported:
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O.L. Luther
25F0554-06 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A	Sampled: 06/24/2025 15:00
Instrument: HYDRA Analyst: ML	Analyzed: 07/14/2025 11:06
Sample Preparation:	Preparation Method: TWM EPA 7470A
	Preparation Batch: BNG0206
	Prepared: 07/12/2025
	Sample Size: 20 mL
	Final Volume: 20 mL
	Extract ID: 25F0554-06 G

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



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Reported:
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O.L. Luther
25F0554-06RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/24/2025 15:00
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/16/2025 20:31
Sample Preparation:	Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
	Preparation Batch: BNG0219
	Prepared: 07/14/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25F0554-06RE1 G 03

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chromium, Dissolved	7440-47-3	20	7.50	10.0	ND	ug/L	U



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Reported:
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O.L. Luther
25F0554-06RE1 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 06/24/2025 15:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/03/2025 16:36

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-06RE1 F

Preparation Batch: BNG0078

Sample Size: 10 mL

Prepared: 07/03/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
# Chloride	16887-00-6	2	2.00	2.00	10.2	mg/L	D



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Reported:
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O.L. Luther
25F0554-06RE1 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 06/24/2025 15:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/02/2025 14:08

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-06RE1 F

Preparation Batch: BNF0604

Sample Size: 10 mL

Prepared: 06/30/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	2	4.00	4.00	34.2	mg/L	D, B



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Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06RE2 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/24/2025 15:00
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/24/2025 01:28
Sample Preparation:	Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
	Preparation Batch: BNG0350
	Prepared: 07/18/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25F0554-06RE2 G 04

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Lead, Dissolved	7439-92-1	1	0.100	0.200	ND	ug/L	U



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Reported:
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SMW-5D
25F0554-07 (Water)

Wet Chemistry

Method: SM 2320 B-11

Sampled: 06/25/2025 10:00

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 07/02/2025 10:49

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-07 C

Preparation Batch: BNG0041

Sample Size: 100 mL

Prepared: 07/02/2025

Final Volume: 100 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Total		1	1.00	1.00	117	mg/L CaCO ₃	



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Reported:
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SMW-5D
25F0554-07 (Water)

Wet Chemistry

Method: SM 2540 C-11

Sampled: 06/25/2025 10:00

Instrument: BAL2 Analyst: AG

Analyzed: 07/01/2025 10:06

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-07

Preparation Batch: BNG0011

Sample Size: 200 mL

Prepared: 07/01/2025

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:
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SMW-5D
25F0554-07 (Water)

Wet Chemistry

Method: SM 2540 D-11

Sampled: 06/25/2025 10:00

Instrument: BAL2 Analyst: AG

Analyzed: 07/01/2025 09:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-07

Preparation Batch: BNG0006

Sample Size: 910 mL

Prepared: 07/01/2025

Final Volume: 1000 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Suspended Solids		1	1	1	7	mg/L	



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNG0018 - EPA 8260D in Water

Instrument: NT3 Analyst: FCL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNG0018-BLK1)										
Prepared: 01-Jul-2025 Analyzed: 01-Jul-2025 13:57										
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



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNG0018 - EPA 8260D in Water

Instrument: NT3 Analyst: FCL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNG0018-BLK1)						Prepared: 01-Jul-2025 Analyzed: 01-Jul-2025 13:57					
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
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



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNG0018 - EPA 8260D in Water

Instrument: NT3 Analyst: FCL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNG0018-BLK1) Prepared: 01-Jul-2025 Analyzed: 01-Jul-2025 13:57											
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	5.17			ug/L	5.00		103	80-129			
Surrogate: Toluene-d8	4.89			ug/L	5.00		97.9	80-120			
Surrogate: 4-Bromofluorobenzene	4.74			ug/L	5.00		94.7	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.01			ug/L	5.00		100	80-120			
LCS (BNG0018-BS1) Prepared: 01-Jul-2025 Analyzed: 01-Jul-2025 12:27											
Chloromethane	9.63	0.50	0.50	ug/L	10.0		96.3	60-138			
Vinyl Chloride	8.97	0.10	0.20	ug/L	10.0		89.7	66-133			
Bromomethane	9.81	1.00	1.00	ug/L	10.0		98.1	72-131			
Chloroethane	9.40	0.20	0.20	ug/L	10.0		94.0	60-155			
Trichlorofluoromethane	9.44	0.20	0.20	ug/L	10.0		94.4	62-141			
Acrolein	53.0	5.00	5.00	ug/L	50.0		106	52-190			
1,1,2-Trichloro-1,2,2-Trifluoroethane	9.63	0.20	0.20	ug/L	10.0		96.3	76-129			
Acetone	52.5	5.00	5.00	ug/L	50.0		105	58-142			
1,1-Dichloroethene	9.75	0.10	0.20	ug/L	10.0		97.5	69-135			
Iodomethane	9.76	0.50	1.00	ug/L	10.0		97.6	56-147			
Methylene Chloride	9.50	1.00	1.00	ug/L	10.0		95.0	65-135			
Acrylonitrile	10.4	0.50	1.00	ug/L	10.0		104	64-134			
Carbon Disulfide	9.67	0.20	0.20	ug/L	10.0		96.7	78-125			
trans-1,2-Dichloroethene	9.43	0.10	0.20	ug/L	10.0		94.3	78-128			
Vinyl Acetate	10.3	0.20	0.20	ug/L	10.0		103	55-138			
1,1-Dichloroethane	9.59	0.10	0.20	ug/L	10.0		95.9	76-124			
2-Butanone	54.1	2.50	5.00	ug/L	50.0		108	61-140			
2,2-Dichloropropane	9.52	0.20	0.20	ug/L	10.0		95.2	66-147			
cis-1,2-Dichloroethene	9.43	0.10	0.20	ug/L	10.0		94.3	80-121			
Chloroform	9.77	0.10	0.20	ug/L	10.0		97.7	80-122			
Bromochloromethane	10.0	0.10	0.20	ug/L	10.0		100	80-121			
1,1,1-Trichloroethane	9.55	0.10	0.20	ug/L	10.0		95.5	79-123			
1,1-Dichloropropene	9.97	0.10	0.20	ug/L	10.0		99.7	80-127			



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Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNG0018 - EPA 8260D in Water

Instrument: NT3 Analyst: FCL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNG0018-BS1)						Prepared: 01-Jul-2025 Analyzed: 01-Jul-2025 12:27					
Carbon tetrachloride	9.47	0.10	0.20	ug/L	10.0		94.7	53-137			
1,2-Dichloroethane	10.2	0.10	0.20	ug/L	10.0		102	75-123			
Benzene	9.96	0.10	0.20	ug/L	10.0		99.6	80-120			
Trichloroethene	9.93	0.10	0.20	ug/L	10.0		99.3	80-120			
1,2-Dichloropropane	10.1	0.10	0.20	ug/L	10.0		101	80-120			
Bromodichloromethane	10.0	0.10	0.20	ug/L	10.0		100	80-121			
Dibromomethane	10.2	0.10	0.20	ug/L	10.0		102	80-120			
2-Chloroethyl vinyl ether	10.3	1.00	1.00	ug/L	10.0		103	64-120			
4-Methyl-2-Pentanone	55.6	2.50	5.00	ug/L	50.0		111	67-133			
cis-1,3-Dichloropropene	9.97	0.10	0.20	ug/L	10.0		99.7	80-124			
Toluene	10.0	0.10	0.20	ug/L	10.0		100	80-120			
trans-1,3-Dichloropropene	10.4	0.10	0.20	ug/L	10.0		104	71-127			
2-Hexanone	56.7	2.50	5.00	ug/L	50.0		113	69-133			
1,1,2-Trichloroethane	10.4	0.20	0.20	ug/L	10.0		104	80-121			
1,3-Dichloropropane	10.1	0.10	0.20	ug/L	10.0		101	80-120			
Tetrachloroethene	9.99	0.10	0.20	ug/L	10.0		99.9	80-120			
Dibromochloromethane	9.81	0.10	0.20	ug/L	10.0		98.1	65-135			
1,2-Dibromoethane	10.3	0.10	0.20	ug/L	10.0		103	80-121			
Chlorobenzene	9.90	0.10	0.20	ug/L	10.0		99.0	80-120			
Ethylbenzene	9.65	0.10	0.20	ug/L	10.0		96.5	80-120			
1,1,1,2-Tetrachloroethane	9.57	0.10	0.20	ug/L	10.0		95.7	80-120			
m,p-Xylene	20.1	0.20	0.40	ug/L	20.0		100	80-121			
o-Xylene	9.81	0.10	0.20	ug/L	10.0		98.1	80-121			
Xylenes, total	29.9	0.30	0.60	ug/L	30.0		99.7	76-127			
Styrene	10.3	0.10	0.20	ug/L	10.0		103	80-124			
Bromoform	9.29	0.20	0.20	ug/L	10.0		92.9	51-134			
1,1,2,2-Tetrachloroethane	10.1	0.20	0.20	ug/L	10.0		101	77-123			
1,2,3-Trichloropropane	9.68	0.25	0.50	ug/L	10.0		96.8	76-125			
trans-1,4-Dichloro 2-Butene	10.0	1.00	1.00	ug/L	10.0		100	55-129			
n-Propylbenzene	10.2	0.10	0.20	ug/L	10.0		102	78-130			
Bromobenzene	9.47	0.10	0.20	ug/L	10.0		94.7	80-120			
Isopropyl Benzene	9.99	0.10	0.20	ug/L	10.0		99.9	80-128			
2-Chlorotoluene	9.52	0.10	0.20	ug/L	10.0		95.2	78-122			
4-Chlorotoluene	9.49	0.10	0.20	ug/L	10.0		94.9	80-121			



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNG0018 - EPA 8260D in Water

Instrument: NT3 Analyst: FCL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNG0018-BS1) Prepared: 01-Jul-2025 Analyzed: 01-Jul-2025 12:27											
t-Butylbenzene	9.86	0.10	0.20	ug/L	10.0		98.6	78-125			
1,3,5-Trimethylbenzene	9.99	0.10	0.20	ug/L	10.0		99.9	80-129			
1,2,4-Trimethylbenzene	10.1	0.10	0.20	ug/L	10.0		101	80-127			
s-Butylbenzene	10.3	0.10	0.20	ug/L	10.0		103	78-129			
4-Isopropyl Toluene	10.3	0.10	0.20	ug/L	10.0		103	79-130			
1,3-Dichlorobenzene	9.89	0.10	0.20	ug/L	10.0		98.9	80-120			
1,4-Dichlorobenzene	9.62	0.20	0.20	ug/L	10.0		96.2	80-120			
n-Butylbenzene	10.2	0.20	0.20	ug/L	10.0		102	74-129			
1,2-Dichlorobenzene	9.87	0.10	0.20	ug/L	10.0		98.7	80-120			
1,2-Dibromo-3-chloropropane	10.0	0.50	0.50	ug/L	10.0		100	62-123			
1,2,4-Trichlorobenzene	10.2	0.25	0.50	ug/L	10.0		102	64-124			
Hexachloro-1,3-Butadiene	9.52	0.50	0.50	ug/L	10.0		95.2	65-145			
Naphthalene	11.1	0.50	0.50	ug/L	10.0		111	50-134			
1,2,3-Trichlorobenzene	10.6	0.50	0.50	ug/L	10.0		106	49-133			
Dichlorodifluoromethane	9.88	0.20	0.20	ug/L	10.0		98.8	48-147			
Methyl tert-butyl Ether	9.83	0.25	0.50	ug/L	10.0		98.3	71-132			
2-Pentanone	54.3	2.50	5.00	ug/L	50.0		109	69-134			
Surrogate: 1,2-Dichloroethane-d4	5.10			ug/L	5.00		102	80-129			
Surrogate: Toluene-d8	5.09			ug/L	5.00		102	80-120			
Surrogate: 4-Bromofluorobenzene	5.07			ug/L	5.00		101	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.15			ug/L	5.00		103	80-120			
LCS Dup (BNG0018-BSD1) Prepared: 01-Jul-2025 Analyzed: 01-Jul-2025 13:11											
Chloromethane	9.33	0.50	0.50	ug/L	10.0		93.3	60-138	3.18	30	
Vinyl Chloride	9.88	0.10	0.20	ug/L	10.0		98.8	66-133	9.63	30	
Bromomethane	9.67	1.00	1.00	ug/L	10.0		96.7	72-131	1.45	30	
Chloroethane	9.66	0.20	0.20	ug/L	10.0		96.6	60-155	2.74	30	
Trichlorofluoromethane	10.0	0.20	0.20	ug/L	10.0		100	62-141	6.04	30	
Acrolein	53.8	5.00	5.00	ug/L	50.0		108	52-190	1.41	30	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.0	0.20	0.20	ug/L	10.0		100	76-129	3.81	30	
Acetone	54.3	5.00	5.00	ug/L	50.0		109	58-142	3.49	30	
1,1-Dichloroethene	10.1	0.10	0.20	ug/L	10.0		101	69-135	3.10	30	
Iodomethane	9.95	0.50	1.00	ug/L	10.0		99.5	56-147	1.94	30	
Methylene Chloride	10.1	1.00	1.00	ug/L	10.0		101	65-135	6.27	30	
Acrylonitrile	10.5	0.50	1.00	ug/L	10.0		105	64-134	0.82	30	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNG0018 - EPA 8260D in Water

Instrument: NT3 Analyst: FCL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BNG0018-BSD1)						Prepared: 01-Jul-2025 Analyzed: 01-Jul-2025 13:11					
Carbon Disulfide	9.94	0.20	0.20	ug/L	10.0		99.4	78-125	2.82	30	
trans-1,2-Dichloroethene	9.62	0.10	0.20	ug/L	10.0		96.2	78-128	1.99	30	
Vinyl Acetate	10.8	0.20	0.20	ug/L	10.0		108	55-138	4.27	30	
1,1-Dichloroethane	9.87	0.10	0.20	ug/L	10.0		98.7	76-124	2.94	30	
2-Butanone	55.6	2.50	5.00	ug/L	50.0		111	61-140	2.82	30	
2,2-Dichloropropane	9.69	0.20	0.20	ug/L	10.0		96.9	66-147	1.80	30	
cis-1,2-Dichloroethene	9.48	0.10	0.20	ug/L	10.0		94.8	80-121	0.53	30	
Chloroform	9.91	0.10	0.20	ug/L	10.0		99.1	80-122	1.39	30	
Bromochloromethane	10.2	0.10	0.20	ug/L	10.0		102	80-121	1.45	30	
1,1,1-Trichloroethane	9.88	0.10	0.20	ug/L	10.0		98.8	79-123	3.39	30	
1,1-Dichloropropene	9.90	0.10	0.20	ug/L	10.0		99.0	80-127	0.72	30	
Carbon tetrachloride	9.46	0.10	0.20	ug/L	10.0		94.6	53-137	0.11	30	
1,2-Dichloroethane	10.2	0.10	0.20	ug/L	10.0		102	75-123	0.06	30	
Benzene	9.96	0.10	0.20	ug/L	10.0		99.6	80-120	0.06	30	
Trichloroethene	9.85	0.10	0.20	ug/L	10.0		98.5	80-120	0.83	30	
1,2-Dichloropropane	10.1	0.10	0.20	ug/L	10.0		101	80-120	0.10	30	
Bromodichloromethane	9.91	0.10	0.20	ug/L	10.0		99.1	80-121	0.86	30	
Dibromomethane	10.2	0.10	0.20	ug/L	10.0		102	80-120	0.49	30	
2-Chloroethyl vinyl ether	10.4	1.00	1.00	ug/L	10.0		104	64-120	0.44	30	
4-Methyl-2-Pentanone	56.5	2.50	5.00	ug/L	50.0		113	67-133	1.52	30	
cis-1,3-Dichloropropene	10.0	0.10	0.20	ug/L	10.0		100	80-124	0.71	30	
Toluene	10.1	0.10	0.20	ug/L	10.0		101	80-120	0.46	30	
trans-1,3-Dichloropropene	10.5	0.10	0.20	ug/L	10.0		105	71-127	1.55	30	
2-Hexanone	58.5	2.50	5.00	ug/L	50.0		117	69-133	3.05	30	
1,1,2-Trichloroethane	10.5	0.20	0.20	ug/L	10.0		105	80-121	0.71	30	
1,3-Dichloropropane	10.2	0.10	0.20	ug/L	10.0		102	80-120	0.92	30	
Tetrachloroethene	9.93	0.10	0.20	ug/L	10.0		99.3	80-120	0.60	30	
Dibromochloromethane	9.81	0.10	0.20	ug/L	10.0		98.1	65-135	0.05	30	
1,2-Dibromoethane	10.4	0.10	0.20	ug/L	10.0		104	80-121	1.12	30	
Chlorobenzene	9.93	0.10	0.20	ug/L	10.0		99.3	80-120	0.37	30	
Ethylbenzene	9.72	0.10	0.20	ug/L	10.0		97.2	80-120	0.70	30	
1,1,1,2-Tetrachloroethane	9.61	0.10	0.20	ug/L	10.0		96.1	80-120	0.42	30	
m,p-Xylene	20.2	0.20	0.40	ug/L	20.0		101	80-121	0.47	30	
o-Xylene	9.89	0.10	0.20	ug/L	10.0		98.9	80-121	0.78	30	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNG0018 - EPA 8260D in Water

Instrument: NT3 Analyst: FCL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BNG0018-BSD1)						Prepared: 01-Jul-2025 Analyzed: 01-Jul-2025 13:11					
Xylenes, total	30.1	0.30	0.60	ug/L	30.0		100	76-127	0.57	30	
Styrene	10.0	0.10	0.20	ug/L	10.0		100	80-124	2.22	30	
Bromoform	9.79	0.20	0.20	ug/L	10.0		97.9	51-134	5.26	30	
1,1,2,2-Tetrachloroethane	10.6	0.20	0.20	ug/L	10.0		106	77-123	5.25	30	
1,2,3-Trichloropropane	9.97	0.25	0.50	ug/L	10.0		99.7	76-125	2.96	30	
trans-1,4-Dichloro 2-Butene	10.6	1.00	1.00	ug/L	10.0		106	55-129	5.37	30	
n-Propylbenzene	10.3	0.10	0.20	ug/L	10.0		103	78-130	1.51	30	
Bromobenzene	9.66	0.10	0.20	ug/L	10.0		96.6	80-120	1.94	30	
Isopropyl Benzene	10.3	0.10	0.20	ug/L	10.0		103	80-128	2.80	30	
2-Chlorotoluene	9.71	0.10	0.20	ug/L	10.0		97.1	78-122	1.91	30	
4-Chlorotoluene	9.47	0.10	0.20	ug/L	10.0		94.7	80-121	0.16	30	
t-Butylbenzene	10.1	0.10	0.20	ug/L	10.0		101	78-125	2.11	30	
1,3,5-Trimethylbenzene	10.1	0.10	0.20	ug/L	10.0		101	80-129	1.50	30	
1,2,4-Trimethylbenzene	10.3	0.10	0.20	ug/L	10.0		103	80-127	1.44	30	
s-Butylbenzene	10.3	0.10	0.20	ug/L	10.0		103	78-129	0.21	30	
4-Isopropyl Toluene	10.3	0.10	0.20	ug/L	10.0		103	79-130	0.11	30	
1,3-Dichlorobenzene	9.93	0.10	0.20	ug/L	10.0		99.3	80-120	0.39	30	
1,4-Dichlorobenzene	9.77	0.20	0.20	ug/L	10.0		97.7	80-120	1.54	30	
n-Butylbenzene	10.2	0.20	0.20	ug/L	10.0		102	74-129	0.28	30	
1,2-Dichlorobenzene	10.1	0.10	0.20	ug/L	10.0		101	80-120	1.97	30	
1,2-Dibromo-3-chloropropane	10.4	0.50	0.50	ug/L	10.0		104	62-123	4.08	30	
1,2,4-Trichlorobenzene	10.4	0.25	0.50	ug/L	10.0		104	64-124	1.77	30	
Hexachloro-1,3-Butadiene	9.28	0.50	0.50	ug/L	10.0		92.8	65-145	2.50	30	
Naphthalene	11.5	0.50	0.50	ug/L	10.0		115	50-134	3.53	30	
1,2,3-Trichlorobenzene	10.7	0.50	0.50	ug/L	10.0		107	49-133	0.80	30	
Dichlorodifluoromethane	10.3	0.20	0.20	ug/L	10.0		103	48-147	4.26	30	
Methyl tert-butyl Ether	10.1	0.25	0.50	ug/L	10.0		101	71-132	3.11	30	
2-Pentanone	54.4	2.50	5.00	ug/L	50.0		109	69-134	0.22	30	
Surrogate: 1,2-Dichloroethane-d4	5.04			ug/L	5.00		101	80-129			
Surrogate: Toluene-d8	5.01			ug/L	5.00		100	80-120			
Surrogate: 4-Bromofluorobenzene	4.88			ug/L	5.00		97.5	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.16			ug/L	5.00		103	80-120			



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - SIM - Quality Control

Batch BNG0097 - 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 (BNG0097-BLK1)											
						Prepared: 07-Jul-2025 Analyzed: 07-Jul-2025 09:12					
Vinyl chloride	ND	10.0	20.0	ng/L							U
Surrogate: 1,2-Dichloroethane-d4	4760			ng/L	5000		95.2	80-129			
Surrogate: Toluene-d8	5140			ng/L	5000		103	80-120			
Surrogate: 4-Bromofluorobenzene	4280			ng/L	5000		85.6	75-125			
LCS (BNG0097-BS1)											
						Prepared: 07-Jul-2025 Analyzed: 07-Jul-2025 08:30					
Vinyl chloride	2060	10.0	20.0	ng/L	2000		103	62-141			
Surrogate: 1,2-Dichloroethane-d4	5050			ng/L	5000		101	80-129			
Surrogate: Toluene-d8	5200			ng/L	5000		104	80-120			
Surrogate: 4-Bromofluorobenzene	5090			ng/L	5000		102	75-125			
LCS Dup (BNG0097-BSD1)											
						Prepared: 07-Jul-2025 Analyzed: 07-Jul-2025 08:51					
Vinyl chloride	2250	10.0	20.0	ng/L	2000		113	62-141	8.92	30	
Surrogate: 1,2-Dichloroethane-d4	4940			ng/L	5000		98.7	80-129			
Surrogate: Toluene-d8	5480			ng/L	5000		110	80-120			
Surrogate: 4-Bromofluorobenzene	5000			ng/L	5000		100	75-125			



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNF0579 - 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 (BNF0579-BLK1)					Prepared: 30-Jun-2025 Analyzed: 03-Jul-2025 15:19					
1,4-Dioxane	ND	0.2	0.4	ug/L						U
Surrogate: 1,4-Dioxane-d8	7.95			ug/L	10.0		79.5	30-160		
LCS (BNF0579-BS1)					Prepared: 30-Jun-2025 Analyzed: 03-Jul-2025 15:44					
1,4-Dioxane	16.0	0.2	0.4	ug/L	10.0		160	30-160		
Surrogate: 1,4-Dioxane-d8	7.20			ug/L	10.0		72.0	30-160		



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Reported:
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Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNG0010 - EPA 8270E in Water

Instrument: NT17 Analyst: AA

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNG0010-BLK1)						Prepared: 01-Jul-2025 Analyzed: 03-Jul-2025 17:49					
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



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNG0010 - EPA 8270E in Water

Instrument: NT17 Analyst: AA

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNG0010-BLK1)						Prepared: 01-Jul-2025 Analyzed: 03-Jul-2025 17:49					
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
Diethyl phthalate	0.2	0.1	0.2	ug/L							J
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	0.2	0.2	0.2	ug/L							
Di-n-Octylphthalate	ND	0.1	0.2	ug/L							U
Benzo(a)fluoranthene, 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	5.82			ug/L	15.0		38.8	30-160			



Mott MacDonald
1601 5th Avenue Suite 800
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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNG0010 - EPA 8270E in Water

Instrument: NT17 Analyst: AA

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNG0010-BLK1)						Prepared: 01-Jul-2025 Analyzed: 03-Jul-2025 17:49					
Surrogate: Phenol-d5	3.40			ug/L	15.0		22.7	30-160			*
Surrogate: 2-Chlorophenol-d4	10.7			ug/L	15.0		71.1	30-160			
Surrogate: 1,2-Dichlorobenzene-d4	4.63			ug/L	10.0		46.3	30-160			Q
Surrogate: Nitrobenzene-d5	8.00			ug/L	10.0		80.0	30-160			
Surrogate: 2-Fluorobiphenyl	6.34			ug/L	10.0		63.4	30-160			
Surrogate: 2,4,6-Tribromophenol	9.48			ug/L	15.0		63.2	30-160			Q
Surrogate: p-Terphenyl-d14	7.99			ug/L	10.0		79.9	30-160			
LCS (BNG0010-BS2)						Prepared: 01-Jul-2025 Analyzed: 13-Jul-2025 22:10					
Phenol	3.2	0.1	0.2	ug/L	20.0		16.1	30-160			*
bis(2-chloroethyl) ether	7.1	0.1	0.2	ug/L	10.0		70.8	30-160			
2-Chlorophenol	11.1	0.1	0.2	ug/L	20.0		55.3	30-160			
1,3-Dichlorobenzene	3.7	0.1	0.2	ug/L	10.0		37.2	30-160			
1,4-Dichlorobenzene	3.8	0.1	0.2	ug/L	10.0		38.2	30-160			
1,2-Dichlorobenzene	4.1	0.1	0.2	ug/L	10.0		40.9	30-160			
Benzyl Alcohol	4.7	0.1	0.2	ug/L	10.0		46.9	30-160			
2,2'-Oxybis(1-chloropropane)	6.7	0.1	0.2	ug/L	10.0		67.0	30-160			
2-Methylphenol	8.8	0.1	0.2	ug/L	20.0		44.1	30-160			
Hexachloroethane	3.5	0.1	0.2	ug/L	10.0		35.1	30-160			
N-Nitroso-di-n-Propylamine	7.2	0.1	0.2	ug/L	10.0		72.1	30-160			
4-Methylphenol	7.8	0.1	0.2	ug/L	20.0		38.9	30-160			
Nitrobenzene	8.0	0.1	0.2	ug/L	10.0		79.7	30-160			
Isophorone	8.2	0.1	0.2	ug/L	10.0		81.6	30-160			
2-Nitrophenol	15.8	0.5	1.0	ug/L	20.0		78.8	30-160			
2,4-Dimethylphenol	7.6	0.5	1.0	ug/L	20.0		38.0	30-160			
Bis(2-Chloroethoxy)methane	7.4	0.1	0.2	ug/L	10.0		74.3	30-160			
2,4-Dichlorophenol	14.2	0.5	1.0	ug/L	20.0		70.8	30-160			
1,2,4-Trichlorobenzene	4.2	0.1	0.2	ug/L	10.0		41.6	30-160			
Naphthalene	5.7	0.1	0.2	ug/L	10.0		56.9	30-160			
Benzoic acid	5.0	1.0	2.0	ug/L	50.0		10.0	30-160			*
4-Chloroaniline	3.8	0.5	1.0	ug/L	10.0		38.3	30-160			
Hexachlorobutadiene	3.5	0.1	0.2	ug/L	10.0		35.2	30-160			
4-Chloro-3-Methylphenol	13.6	0.5	1.0	ug/L	20.0		67.9	30-160			
2-Methylnaphthalene	5.7	0.1	0.2	ug/L	10.0		57.5	30-160			
Hexachlorocyclopentadiene	1.7	0.5	1.0	ug/L	10.0		16.5	30-160			*



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNG0010 - EPA 8270E in Water

Instrument: NT17 Analyst: AA

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNG0010-BS2)						Prepared: 01-Jul-2025 Analyzed: 13-Jul-2025 22:10					
2,4,6-Trichlorophenol	16.7	0.5	1.0	ug/L	20.0		83.3	30-160			
2,4,5-Trichlorophenol	16.8	0.5	1.0	ug/L	20.0		84.2	30-160			
2-Chloronaphthalene	6.1	0.1	0.2	ug/L	10.0		61.0	30-160			
2-Nitroaniline	8.9	0.5	1.0	ug/L	10.0		89.4	30-160			
Acenaphthylene	7.3	0.1	0.2	ug/L	10.0		73.3	30-160			
Dimethylphthalate	8.2	0.1	0.2	ug/L	10.0		82.5	30-160			
2,6-Dinitrotoluene	9.3	0.5	1.0	ug/L	10.0		92.7	30-160			
Acenaphthene	7.1	0.1	0.2	ug/L	10.0		70.6	30-160			
3-Nitroaniline	9.1	0.5	1.0	ug/L	10.0		91.3	30-160			
2,4-Dinitrophenol	10.6	1.0	2.0	ug/L	20.0		53.0	30-160			Q
Dibenzofuran	7.3	0.1	0.2	ug/L	10.0		73.1	30-160			
4-Nitrophenol	4.0	0.5	1.0	ug/L	20.0		20.1	30-160			Q, *
2,4-Dinitrotoluene	8.8	0.5	1.0	ug/L	10.0		88.2	30-160			
Fluorene	8.3	0.1	0.2	ug/L	10.0		82.9	30-160			
4-Chlorophenylphenyl ether	8.1	0.1	0.2	ug/L	10.0		80.9	30-160			
Diethyl phthalate	8.6	0.1	0.2	ug/L	10.0		85.9	30-160			
4-Nitroaniline	5.3	0.5	1.0	ug/L	10.0		52.8	30-160			
4,6-Dinitro-2-methylphenol	16.2	1.0	2.0	ug/L	20.0		80.9	30-160			
N-Nitrosodiphenylamine	8.2	0.1	0.2	ug/L	10.0		82.0	30-160			
4-Bromophenyl phenyl ether	7.4	0.1	0.2	ug/L	10.0		74.0	30-160			
Hexachlorobenzene	7.7	0.1	0.2	ug/L	10.0		77.4	30-160			
Pentachlorophenol	16.7	0.5	1.0	ug/L	20.0		83.6	30-160			
Phenanthrene	8.1	0.1	0.2	ug/L	10.0		80.6	30-160			
Anthracene	8.0	0.1	0.2	ug/L	10.0		80.0	30-160			
Carbazole	8.1	0.1	0.2	ug/L	10.0		80.9	30-160			Q
Di-n-Butylphthalate	9.2	0.1	0.2	ug/L	10.0		91.7	30-160			
Fluoranthene	8.8	0.1	0.2	ug/L	10.0		87.6	30-160			
Pyrene	8.7	0.1	0.2	ug/L	10.0		86.7	30-160			
Butylbenzylphthalate	8.5	0.1	0.2	ug/L	10.0		85.5	30-160			
Benzo(a)anthracene	7.9	0.1	0.2	ug/L	10.0		79.5	30-160			
3,3'-Dichlorobenzidine	5.6	0.5	1.0	ug/L	10.0		56.0	30-160			Q
Chrysene	7.5	0.1	0.2	ug/L	10.0		75.4	30-160			
bis(2-Ethylhexyl)phthalate	9.6	0.2	0.2	ug/L	10.0		96.4	30-160			B
Di-n-Octylphthalate	10.0	0.1	0.2	ug/L	10.0		100	30-160			



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Project: Snipes MTN Landfill 2025
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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNG0010 - EPA 8270E in Water

Instrument: NT17 Analyst: AA

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BNG0010-BS2) Prepared: 01-Jul-2025 Analyzed: 13-Jul-2025 22:10											
Benzofluoranthenes, Total	17.6	0.2	0.4	ug/L	20.0		88.0	30-160			
Benzo(a)pyrene	8.2	0.1	0.2	ug/L	10.0		81.9	30-160			
Indeno(1,2,3-cd)pyrene	7.4	0.2	0.2	ug/L	10.0		73.5	30-160			
Dibenzo(a,h)anthracene	7.7	0.1	0.2	ug/L	10.0		76.5	30-160			
Benzo(g,h,i)perylene	7.1	0.1	0.2	ug/L	10.0		71.0	30-160			
1-Methylnaphthalene	6.0	0.1	0.2	ug/L	10.0		60.3	30-160			
2,3,4,6-Tetrachlorophenol	8.1	0.1	0.2	ug/L	10.0		80.6	60.9-120			
Surrogate: 2-Fluorophenol	3.67			ug/L	15.0		24.4	30-160			*
Surrogate: Phenol-d5	2.18			ug/L	15.0		14.6	30-160			*
Surrogate: 2-Chlorophenol-d4	8.05			ug/L	15.0		53.7	30-160			
Surrogate: 1,2-Dichlorobenzene-d4	4.64			ug/L	10.0		46.4	30-160			
Surrogate: Nitrobenzene-d5	8.09			ug/L	10.0		80.9	30-160			
Surrogate: 2-Fluorobiphenyl	6.17			ug/L	10.0		61.7	30-160			
Surrogate: 2,4,6-Tribromophenol	8.10			ug/L	15.0		54.0	30-160			Q
Surrogate: p-Terphenyl-d14	8.21			ug/L	10.0		82.1	30-160			
LCS Dup (BNG0010-BSD2) Prepared: 01-Jul-2025 Analyzed: 13-Jul-2025 22:45											
Phenol	5.0	0.1	0.2	ug/L	20.0		24.9	30-160	43.10	30	*
bis(2-chloroethyl) ether	8.5	0.1	0.2	ug/L	10.0		84.5	30-160	17.70	30	
2-Chlorophenol	15.5	0.1	0.2	ug/L	20.0		77.3	30-160	33.20	30	*
1,3-Dichlorobenzene	5.0	0.1	0.2	ug/L	10.0		49.6	30-160	28.50	30	
1,4-Dichlorobenzene	5.1	0.1	0.2	ug/L	10.0		51.4	30-160	29.40	30	
1,2-Dichlorobenzene	5.4	0.1	0.2	ug/L	10.0		54.3	30-160	28.20	30	
Benzyl Alcohol	5.8	0.1	0.2	ug/L	10.0		57.9	30-160	21.00	30	
2,2'-Oxybis(1-chloropropane)	8.0	0.1	0.2	ug/L	10.0		79.9	30-160	17.70	30	
2-Methylphenol	12.4	0.1	0.2	ug/L	20.0		62.1	30-160	33.90	30	*
Hexachloroethane	4.5	0.1	0.2	ug/L	10.0		44.8	30-160	24.10	30	
N-Nitroso-di-n-Propylamine	8.5	0.1	0.2	ug/L	10.0		85.0	30-160	16.40	30	
4-Methylphenol	11.2	0.1	0.2	ug/L	20.0		56.2	30-160	36.40	30	*
Nitrobenzene	9.5	0.1	0.2	ug/L	10.0		95.2	30-160	17.70	30	
Isophorone	9.5	0.1	0.2	ug/L	10.0		94.6	30-160	14.80	30	
2-Nitrophenol	19.5	0.5	1.0	ug/L	20.0		97.6	30-160	21.40	30	
2,4-Dimethylphenol	11.3	0.5	1.0	ug/L	20.0		56.4	30-160	39.10	30	*
Bis(2-Chloroethoxy)methane	8.7	0.1	0.2	ug/L	10.0		86.8	30-160	15.50	30	
2,4-Dichlorophenol	18.3	0.5	1.0	ug/L	20.0		91.4	30-160	25.30	30	



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Reported:
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Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNG0010 - EPA 8270E in Water

Instrument: NT17 Analyst: AA

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BNG0010-BSD2)						Prepared: 01-Jul-2025 Analyzed: 13-Jul-2025 22:45					
1,2,4-Trichlorobenzene	5.5	0.1	0.2	ug/L	10.0		54.5	30-160	26.90	30	
Naphthalene	7.4	0.1	0.2	ug/L	10.0		73.7	30-160	25.80	30	
Benzoic acid	3.3	1.0	2.0	ug/L	50.0		6.6	30-160	41.60	30	*
4-Chloroaniline	5.5	0.5	1.0	ug/L	10.0		55.2	30-160	36.10	30	*
Hexachlorobutadiene	4.4	0.1	0.2	ug/L	10.0		43.5	30-160	21.10	30	
4-Chloro-3-Methylphenol	17.8	0.5	1.0	ug/L	20.0		89.0	30-160	26.90	30	
2-Methylnaphthalene	7.3	0.1	0.2	ug/L	10.0		73.2	30-160	24.10	30	
Hexachlorocyclopentadiene	3.6	0.5	1.0	ug/L	10.0		35.7	30-160	73.30	30	*
2,4,6-Trichlorophenol	20.0	0.5	1.0	ug/L	20.0		100	30-160	18.30	30	
2,4,5-Trichlorophenol	20.4	0.5	1.0	ug/L	20.0		102	30-160	19.10	30	
2-Chloronaphthalene	7.4	0.1	0.2	ug/L	10.0		74.0	30-160	19.30	30	
2-Nitroaniline	10.4	0.5	1.0	ug/L	10.0		104	30-160	14.80	30	
Acenaphthylene	8.8	0.1	0.2	ug/L	10.0		88.0	30-160	18.20	30	
Dimethylphthalate	9.4	0.1	0.2	ug/L	10.0		94.2	30-160	13.30	30	
2,6-Dinitrotoluene	10.6	0.5	1.0	ug/L	10.0		106	30-160	13.10	30	
Acenaphthene	8.2	0.1	0.2	ug/L	10.0		82.4	30-160	15.40	30	
3-Nitroaniline	12.3	0.5	1.0	ug/L	10.0		123	30-160	29.40	30	E
2,4-Dinitrophenol	19.8	1.0	2.0	ug/L	20.0		99.2	30-160	60.70	30	*, Q
Dibenzofuran	8.5	0.1	0.2	ug/L	10.0		85.0	30-160	15.10	30	
4-Nitrophenol	6.7	0.5	1.0	ug/L	20.0		33.5	30-160	49.80	30	Q
2,4-Dinitrotoluene	10.2	0.5	1.0	ug/L	10.0		102	30-160	14.10	30	
Fluorene	9.6	0.1	0.2	ug/L	10.0		96.3	30-160	15.00	30	
4-Chlorophenylphenyl ether	9.4	0.1	0.2	ug/L	10.0		93.5	30-160	14.40	30	
Diethyl phthalate	11.3	0.1	0.2	ug/L	10.0		113	30-160	26.90	30	
4-Nitroaniline	6.8	0.5	1.0	ug/L	10.0		67.8	30-160	24.80	30	
4,6-Dinitro-2-methylphenol	21.3	1.0	2.0	ug/L	20.0		106	30-160	27.30	30	
N-Nitrosodiphenylamine	9.8	0.1	0.2	ug/L	10.0		98.2	30-160	18.00	30	
4-Bromophenyl phenyl ether	8.7	0.1	0.2	ug/L	10.0		87.0	30-160	16.20	30	
Hexachlorobenzene	9.0	0.1	0.2	ug/L	10.0		89.9	30-160	14.90	30	
Pentachlorophenol	20.1	0.5	1.0	ug/L	20.0		101	30-160	18.50	30	
Phenanthrene	9.4	0.1	0.2	ug/L	10.0		93.9	30-160	15.20	30	
Anthracene	9.5	0.1	0.2	ug/L	10.0		95.3	30-160	17.40	30	
Carbazole	9.9	0.1	0.2	ug/L	10.0		98.8	30-160	20.00	30	Q
Di-n-Butylphthalate	10.6	0.1	0.2	ug/L	10.0		106	30-160	14.20	30	



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Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BNG0010 - EPA 8270E in Water

Instrument: NT17 Analyst: AA

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BNG0010-BSD2)						Prepared: 01-Jul-2025 Analyzed: 13-Jul-2025 22:45					
Fluoranthene	10.1	0.1	0.2	ug/L	10.0		101	30-160	14.30	30	
Pyrene	10.0	0.1	0.2	ug/L	10.0		99.8	30-160	14.10	30	
Butylbenzylphthalate	9.8	0.1	0.2	ug/L	10.0		97.7	30-160	13.40	30	
Benzo(a)anthracene	9.2	0.1	0.2	ug/L	10.0		91.9	30-160	14.50	30	
3,3'-Dichlorobenzidine	8.8	0.5	1.0	ug/L	10.0		87.6	30-160	44.10	30	Q
Chrysene	8.6	0.1	0.2	ug/L	10.0		85.7	30-160	12.80	30	
bis(2-Ethylhexyl)phthalate	10.5	0.2	0.2	ug/L	10.0		105	30-160	8.40	30	B
Di-n-Octylphthalate	11.8	0.1	0.2	ug/L	10.0		118	30-160	16.30	30	
Benzo(a)fluoranthene, Total	20.6	0.2	0.4	ug/L	20.0		103	30-160	15.60	30	
Benzo(a)pyrene	9.6	0.1	0.2	ug/L	10.0		96.2	30-160	16.20	30	
Indeno(1,2,3-cd)pyrene	8.5	0.2	0.2	ug/L	10.0		84.5	30-160	13.90	30	
Dibenzo(a,h)anthracene	8.7	0.1	0.2	ug/L	10.0		87.5	30-160	13.30	30	
Benzo(g,h,i)perylene	8.1	0.1	0.2	ug/L	10.0		80.9	30-160	13.00	30	
1-Methylnaphthalene	7.6	0.1	0.2	ug/L	10.0		75.7	30-160	22.80	30	
2,3,4,6-Tetrachlorophenol	9.7	0.1	0.2	ug/L	10.0		96.7	60.9-120	18.20	30	
Surrogate: 2-Fluorophenol	5.84			ug/L	15.0		38.9	30-160			
Surrogate: Phenol-d5	3.46			ug/L	15.0		23.0	30-160			*
Surrogate: 2-Chlorophenol-d4	10.9			ug/L	15.0		72.5	30-160			
Surrogate: 1,2-Dichlorobenzene-d4	5.87			ug/L	10.0		58.7	30-160			
Surrogate: Nitrobenzene-d5	9.20			ug/L	10.0		92.0	30-160			
Surrogate: 2-Fluorobiphenyl	7.47			ug/L	10.0		74.7	30-160			
Surrogate: 2,4,6-Tribromophenol	9.68			ug/L	15.0		64.5	30-160			Q
Surrogate: p-Terphenyl-d14	8.79			ug/L	10.0		87.9	30-160			



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - SIM - Quality Control

Batch BNG0042 - EPA 8270E-SIM in Water

Instrument: NT8 Analyst: JZ

QC Sample/Alyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNG0042-BLK1)										
Prepared: 02-Jul-2025 Analyzed: 11-Jul-2025 20:55										
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	0.146			ug/L	0.300		48.6	42-120		
Surrogate: Dibenzo[a,h]anthracene-d14	0.149			ug/L	0.300		49.6	29-120		Q
Surrogate: Fluoranthene-d10	0.185			ug/L	0.300		61.5	57-120		
LCS (BNG0042-BS1)										
Prepared: 02-Jul-2025 Analyzed: 11-Jul-2025 21:27										
Naphthalene	0.069	0.010	0.010	ug/L	0.150		45.9	37-120		
2-Methylnaphthalene	0.068	0.010	0.010	ug/L	0.150		45.1	37-120		
1-Methylnaphthalene	0.067	0.010	0.010	ug/L	0.150		44.5	29-120		
Acenaphthylene	0.078	0.010	0.010	ug/L	0.150		51.9	41-120		
Acenaphthene	0.068	0.010	0.010	ug/L	0.150		45.2	41-120		
Dibenzofuran	0.076	0.010	0.010	ug/L	0.150		50.4	38-120		
Fluorene	0.075	0.005	0.010	ug/L	0.150		50.1	43-120		



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Semivolatile Organic Compounds - SIM - Quality Control

Batch BNG0042 - 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
LCS (BNG0042-BS1)						Prepared: 02-Jul-2025 Analyzed: 11-Jul-2025 21:27					
Phenanthrene	0.084	0.010	0.010	ug/L	0.150		56.3	41-120			
Anthracene	0.079	0.010	0.010	ug/L	0.150		52.8	40-120			
Carbazole	0.096	0.010	0.010	ug/L	0.150		63.9	30-160			
Fluoranthene	0.086	0.010	0.010	ug/L	0.150		57.4	45-120			
Pyrene	0.101	0.010	0.010	ug/L	0.150		67.3	41-120			
Benzo(a)anthracene	0.102	0.010	0.010	ug/L	0.150		68.3	42-120			
Chrysene	0.087	0.010	0.010	ug/L	0.150		57.8	44-120			
Benzo(b)fluoranthene	0.104	0.010	0.010	ug/L	0.150		69.5	44-120			
Benzo(k)fluoranthene	0.106	0.010	0.010	ug/L	0.150		70.9	50-120			
Benzo(j)fluoranthene	0.121	0.010	0.010	ug/L	0.150		80.9	39-160			
# Benzo(a)fluoranthenes, Total	0.325	0.010	0.010	ug/L	0.450		72.1	46-120			
Benzo(a)pyrene	0.092	0.010	0.010	ug/L	0.150		61.3	35-120			
Perylene	0.080	0.005	0.010	ug/L	0.150		53.6	30-160			
Indeno(1,2,3-cd)pyrene	0.058	0.010	0.010	ug/L	0.150		38.9	37-120			
Dibenzo(a,h)anthracene	0.062	0.010	0.010	ug/L	0.150		41.3	34-120			Q
Benzo(g,h,i)perylene	0.051	0.010	0.010	ug/L	0.150		33.8	38-120			*, Q
Surrogate: 2-Methylnaphthalene-d10	0.139			ug/L	0.300		46.5	42-120			
Surrogate: Dibenzo[a,h]anthracene-d14	0.134			ug/L	0.300		44.8	29-120			Q
Surrogate: Fluoranthene-d10	0.181			ug/L	0.300		60.3	57-120			

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



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - SIM - Quality Control

Batch BNG0315 - EPA 8270E-SIM in Water

Instrument: NT8 Analyst: JZ

QC Sample/Alyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNG0315-BLK1)											
						Prepared: 17-Jul-2025 Analyzed: 18-Jul-2025 19:53					
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	0.149			ug/L	0.300		49.7	42-120			
Surrogate: Dibenzo[a,h]anthracene-d14	0.159			ug/L	0.300		53.1	29-120			
Surrogate: Fluoranthene-d10	0.196			ug/L	0.300		65.5	57-120			
LCS (BNG0315-BS1)											
						Prepared: 17-Jul-2025 Analyzed: 18-Jul-2025 20:25					
Naphthalene	0.158	0.010	0.010	ug/L	0.300		52.8	37-120			
2-Methylnaphthalene	0.142	0.010	0.010	ug/L	0.300		47.2	37-120			
1-Methylnaphthalene	0.146	0.010	0.010	ug/L	0.300		48.7	29-120			
Acenaphthylene	0.167	0.010	0.010	ug/L	0.300		55.6	41-120			
Acenaphthene	0.166	0.010	0.010	ug/L	0.300		55.2	41-120			
Dibenzofuran	0.166	0.010	0.010	ug/L	0.300		55.2	38-120			
Fluorene	0.173	0.005	0.010	ug/L	0.300		57.7	43-120			



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Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - SIM - Quality Control

Batch BNG0315 - 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
LCS (BNG0315-BS1)						Prepared: 17-Jul-2025 Analyzed: 18-Jul-2025 20:25					
Phenanthrene	0.177	0.010	0.010	ug/L	0.300		59.0	41-120			
Anthracene	0.155	0.010	0.010	ug/L	0.300		51.6	40-120			
Carbazole	0.203	0.010	0.010	ug/L	0.300		67.5	30-160			
Fluoranthene	0.193	0.010	0.010	ug/L	0.300		64.4	45-120			
Pyrene	0.200	0.010	0.010	ug/L	0.300		66.6	41-120			
Benzo(a)anthracene	0.192	0.010	0.010	ug/L	0.300		64.0	42-120			
Chrysene	0.195	0.010	0.010	ug/L	0.300		65.0	44-120			
Benzo(b)fluoranthene	0.207	0.010	0.010	ug/L	0.300		69.0	44-120			
Benzo(k)fluoranthene	0.193	0.010	0.010	ug/L	0.300		64.3	50-120			
Benzo(j)fluoranthene	0.214	0.010	0.010	ug/L	0.300		71.5	39-160			
# Benzo(a)fluoranthenes, Total	0.599	0.010	0.010	ug/L	0.900		66.6	46-120			
Benzo(a)pyrene	0.146	0.010	0.010	ug/L	0.300		48.7	35-120			
Perylene	0.157	0.005	0.010	ug/L	0.300		52.3	30-160			
Indeno(1,2,3-cd)pyrene	0.177	0.010	0.010	ug/L	0.300		59.2	37-120			
Dibenzo(a,h)anthracene	0.167	0.010	0.010	ug/L	0.300		55.6	34-120			
Benzo(g,h,i)perylene	0.155	0.010	0.010	ug/L	0.300		51.6	38-120			
Surrogate: 2-Methylnaphthalene-d10	0.166			ug/L	0.300		55.3	42-120			
Surrogate: Dibenzo[a,h]anthracene-d14	0.189			ug/L	0.300		62.8	29-120			
Surrogate: Fluoranthene-d10	0.216			ug/L	0.300		71.9	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: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Chlorinated Pesticides - Quality Control

Batch BNG0044 - 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 (BNG0044-BLK1) Prepared: 02-Jul-2025 Analyzed: 25-Jul-2025 17:12											
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, technical	ND	0.0050	0.0050	ug/L							U
Surrogate: Decachlorobiphenyl	0.0524			ug/L	0.0800		65.4	30-160			
Surrogate: Decachlorobiphenyl [2C]	0.0485			ug/L	0.0800		60.6	30-160			
Surrogate: Tetrachlorometaxylene	0.0498			ug/L	0.0800		62.2	30-160			
Surrogate: Tetrachlorometaxylene [2C]	0.0572			ug/L	0.0800		71.5	30-160			
Blank (BNG0044-BLK2) Prepared: 02-Jul-2025 Analyzed: 01-Aug-2025 23:47											
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



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Chlorinated Pesticides - Quality Control

Batch BNG0044 - 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 (BNG0044-BLK2) Prepared: 02-Jul-2025 Analyzed: 01-Aug-2025 23:47											
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, technical	ND	0.0050	0.0050	ug/L							U
Surrogate: Decachlorobiphenyl	0.0505			ug/L	0.0800		63.1	30-160			
Surrogate: Decachlorobiphenyl [2C]	0.0467			ug/L	0.0800		58.4	30-160			
Surrogate: Tetrachlorometaxylene	0.0509			ug/L	0.0800		63.6	44-124			
Surrogate: Tetrachlorometaxylene [2C]	0.0533			ug/L	0.0800		66.6	44-124			
LCS (BNG0044-BS1) Prepared: 02-Jul-2025 Analyzed: 25-Jul-2025 17:27											
alpha-BHC	0.0080	0.0003	0.0006	ug/L	0.0100		79.5	45-137			
beta-BHC	0.0090	0.0003	0.0006	ug/L	0.0100		89.7	50-136			
gamma-BHC (Lindane)	0.0077	0.0003	0.0006	ug/L	0.0100		77.1	49-135			
delta-BHC	0.0097	0.0003	0.0006	ug/L	0.0100		96.9	47-139			
Heptachlor	0.0085	0.0003	0.0006	ug/L	0.0100		84.5	47-136			
Aldrin [2C]	0.0066	0.0003	0.0006	ug/L	0.0100		65.8	45-136			
Heptachlor Epoxide	0.0081	0.0003	0.0006	ug/L	0.0100		80.8	52-136			
trans-Chlordane (beta/gamma-Chlordane) [2C]	0.0080	0.0003	0.0006	ug/L	0.0100		80.4	56-136			
cis-Chlordane (alpha-chlordane) [2C]	0.0078	0.0003	0.0006	ug/L	0.0100		78.1	60-129			
Endosulfan I [2C]	0.0084	0.0003	0.0006	ug/L	0.0100		84.0	62-126			
4,4'-DDE	0.0166	0.0006	0.0013	ug/L	0.0200		83.2	57-135			
Endrin [2C]	0.0174	0.0006	0.0013	ug/L	0.0200		87.1	60-138			



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Analysis by: Analytical Resources, LLC

Chlorinated Pesticides - Quality Control

Batch BNG0044 - 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 (BNG0044-BS1) Prepared: 02-Jul-2025 Analyzed: 25-Jul-2025 17:27											
Endosulfan II	0.0172	0.0006	0.0013	ug/L	0.0200		86.1	52-135			
4,4'-DDD [2C]	0.0172	0.0006	0.0013	ug/L	0.0200		86.1	56-143			
Endrin Aldehyde	0.0178	0.0006	0.0013	ug/L	0.0200		89.0	51-132			
4,4'-DDT [2C]	0.0163	0.0006	0.0013	ug/L	0.0200		81.3	51-143			
Endosulfan Sulfate [2C]	0.0168	0.0006	0.0013	ug/L	0.0200		83.8	62-133			
Endrin Ketone [2C]	0.0171	0.0006	0.0013	ug/L	0.0200		85.3	58-134			
Methoxychlor [2C]	0.0810	0.0031	0.0063	ug/L	0.100		81.0	54-135			
Hexachlorobutadiene [2C]	0.0053	0.0006	0.0013	ug/L	0.0100		52.6	30-160			P1
Hexachlorobenzene	0.0072	0.0006	0.0013	ug/L	0.0100		72.2	30-136.5			
Surrogate: Decachlorobiphenyl	0.0431			ug/L	0.0800		53.9	30-160			
Surrogate: Decachlorobiphenyl [2C]	0.0402			ug/L	0.0800		50.3	30-160			
Surrogate: Tetrachlorometaxylene	0.0460			ug/L	0.0800		57.5	44-124			
Surrogate: Tetrachlorometaxylene [2C]	0.0515			ug/L	0.0800		64.4	44-124			
LCS (BNG0044-BS2) Prepared: 02-Jul-2025 Analyzed: 02-Aug-2025 00:02											
alpha-BHC	0.0075	0.0003	0.0006	ug/L	0.0100		74.5	45-137			
beta-BHC	0.0082	0.0003	0.0006	ug/L	0.0100		82.4	50-136			
gamma-BHC (Lindane)	0.0073	0.0003	0.0006	ug/L	0.0100		73.3	49-135			
delta-BHC	0.0081	0.0003	0.0006	ug/L	0.0100		81.2	47-139			
Heptachlor	0.0078	0.0003	0.0006	ug/L	0.0100		78.2	47-136			
Aldrin	0.0060	0.0003	0.0006	ug/L	0.0100		59.9	45-136			
Heptachlor Epoxide	0.0074	0.0003	0.0006	ug/L	0.0100		74.3	52-136			
trans-Chlordane (beta/gamma-Chlordane) [2C]	0.0073	0.0003	0.0006	ug/L	0.0100		73.0	56-136			
cis-Chlordane (alpha-chlordane) [2C]	0.0070	0.0003	0.0006	ug/L	0.0100		70.2	60-129			
Endosulfan I [2C]	0.0075	0.0003	0.0006	ug/L	0.0100		74.7	62-126			
4,4'-DDE	0.0150	0.0006	0.0013	ug/L	0.0200		75.1	57-135			
Endrin [2C]	0.0150	0.0006	0.0013	ug/L	0.0200		75.1	60-138			
Endosulfan II [2C]	0.0151	0.0006	0.0013	ug/L	0.0200		75.7	52-135			
4,4'-DDD [2C]	0.0155	0.0006	0.0013	ug/L	0.0200		77.6	56-143			
Endrin Aldehyde [2C]	0.0138	0.0006	0.0013	ug/L	0.0200		69.0	51-132			
4,4'-DDT [2C]	0.0142	0.0006	0.0013	ug/L	0.0200		70.8	51-143			
Endosulfan Sulfate [2C]	0.0146	0.0006	0.0013	ug/L	0.0200		73.1	62-133			
Endrin Ketone [2C]	0.0155	0.0006	0.0013	ug/L	0.0200		77.5	58-134			
Methoxychlor [2C]	0.0754	0.0031	0.0063	ug/L	0.100		75.4	54-135			
Hexachlorobutadiene [2C]	0.0047	0.0006	0.0013	ug/L	0.0100		47.2	30-160			



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Chlorinated Pesticides - Quality Control

Batch BNG0044 - EPA 8081B in Water

Instrument: ECD9 Analyst: RKT

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BNG0044-BS2)										
Prepared: 02-Jul-2025 Analyzed: 02-Aug-2025 00:02										
Hexachlorobenzene	0.0079	0.0006	0.0013	ug/L	0.0100		78.7 30-136.5			
Surrogate: Decachlorobiphenyl	0.0411			ug/L	0.0800		51.4 30-160			
Surrogate: Decachlorobiphenyl [2C]	0.0385			ug/L	0.0800		48.1 30-160			
Surrogate: Tetrachlorometaxylene	0.0463			ug/L	0.0800		57.8 44-124			
Surrogate: Tetrachlorometaxylene [2C]	0.0485			ug/L	0.0800		60.6 44-124			



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Dioxins/Furans - Quality Control

Batch BNG0286 - 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 (BNG0286-BLK1)											
						Prepared: 17-Jul-2025 Analyzed: 08-Aug-2025 03:45					
2,3,7,8-TCDF		0.655-0.886	3.84	10.0	ND	pg/L					U
2,3,7,8-TCDD		0.655-0.886	3.49	10.0	ND	pg/L					U
1,2,3,7,8-PeCDF		1.318-1.783	3.06	10.0	ND	pg/L					U
2,3,4,7,8-PeCDF		1.318-1.783	3.04	10.0	ND	pg/L					U
1,2,3,7,8-PeCDD		1.318-1.783	4.45	10.0	ND	pg/L					U
1,2,3,4,7,8-HxCDF		1.054-1.426	2.69	10.0	ND	pg/L					U
1,2,3,6,7,8-HxCDF		1.054-1.426	2.78	10.0	ND	pg/L					U
2,3,4,6,7,8-HxCDF		1.054-1.426	2.67	10.0	ND	pg/L					U
1,2,3,7,8,9-HxCDF		1.054-1.426	3.58	10.0	ND	pg/L					U
1,2,3,4,7,8-HxCDD		1.054-1.426	3.90	10.0	ND	pg/L					U
1,2,3,6,7,8-HxCDD		1.054-1.426	4.25	10.0	ND	pg/L					U
1,2,3,7,8,9-HxCDD		1.054-1.426	4.43	10.0	ND	pg/L					U
1,2,3,4,6,7,8-HpCDF		0.893-1.208	2.63	20.0	ND	pg/L					U
1,2,3,4,7,8,9-HpCDF		0.893-1.208	3.74	10.0	ND	pg/L					U
1,2,3,4,6,7,8-HpCDD		0.893-1.208	4.28	10.0	ND	pg/L					U
OCDF		0.757-1.024	3.91	20.0	ND	pg/L					U
OCDD	0.924	0.757-1.024		50.0	10.2	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): 5.94											
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): 5.94											
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0 EDL, EMPC=ND): 0.00											
Labeled compounds											
13C12-2,3,7,8-TCDF	0.758	0.655-0.886			36.9					24-169 %	
13C12-2,3,7,8-TCDD	0.773	0.655-0.886			58.5					25-164 %	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Dioxins/Furans - Quality Control

Batch BNG0286 - 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 (BNG0286-BLK1)					Prepared: 17-Jul-2025		Analyzed: 08-Aug-2025 03:45				
13C12-1,2,3,7,8-PeCDF	1.616	1.318-1.783			63.5				24-185 %		
13C12-2,3,4,7,8-PeCDF	1.584	1.318-1.783			62.3				21-178 %		
13C12-1,2,3,7,8-PeCDD	1.632	1.318-1.783			68.9				25-181 %		
13C12-1,2,3,4,7,8-HxCDF	0.520	0.434-0.587			62.0				26-152 %		
13C12-1,2,3,6,7,8-HxCDF	0.540	0.434-0.587			63.8				26-123 %		
13C12-2,3,4,6,7,8-HxCDF	0.509	0.434-0.587			57.2				28-136 %		
13C12-1,2,3,7,8,9-HxCDF	0.539	0.434-0.587			62.0				29-147 %		
13C12-1,2,3,4,7,8-HxCDD	1.265	1.054-1.426			65.9				32-141 %		
13C12-1,2,3,6,7,8-HxCDD	1.258	1.054-1.426			60.2				28-130 %		
13C12-1,2,3,4,6,7,8-HpCDF	0.451	0.374-0.506			51.9				28-143 %		
13C12-1,2,3,4,7,8,9-HpCDF	0.438	0.374-0.506			55.5				26-138 %		
13C12-1,2,3,4,6,7,8-HpCDD	1.137	0.893-1.208			68.6				23-140 %		
13C12-OCDD	0.916	0.757-1.024			68.6				17-157 %		
37Cl4-2,3,7,8-TCDD					71.9				35-197 %		
LCS (BNG0286-BS1)					Prepared: 17-Jul-2025		Analyzed: 08-Aug-2025 04:34				
2,3,7,8-TCDF	0.868	0.655-0.886		10.0	200	pg/L	99.8	75-158 %			
2,3,7,8-TCDD	0.774	0.655-0.886		10.0	178	pg/L	89.0	67-158 %			
1,2,3,7,8-PeCDF	1.589	1.318-1.783		10.0	930	pg/L	93.0	80-134 %			
2,3,4,7,8-PeCDF	1.647	1.318-1.783		10.0	933	pg/L	93.3	68-160 %			
1,2,3,7,8-PeCDD	1.576	1.318-1.783		10.0	982	pg/L	98.2	70-142 %			
1,2,3,4,7,8-HxCDF	1.260	1.054-1.426		10.0	939	pg/L	93.9	72-134 %			
1,2,3,6,7,8-HxCDF	1.275	1.054-1.426		10.0	1040	pg/L	104	84-130 %			
2,3,4,6,7,8-HxCDF	1.250	1.054-1.426		10.0	1040	pg/L	104	70-156 %			
1,2,3,7,8,9-HxCDF	1.295	1.054-1.426		10.0	1010	pg/L	101	78-130 %			
1,2,3,4,7,8-HxCDD	1.202	1.054-1.426		10.0	1020	pg/L	102	70-164 %			
1,2,3,6,7,8-HxCDD	1.308	1.054-1.426		10.0	1120	pg/L	112	76-134 %			
1,2,3,7,8,9-HxCDD	1.122	1.054-1.426		10.0	1080	pg/L	108	64-162 %			
1,2,3,4,6,7,8-HpCDF	1.028	0.893-1.208		20.0	1030	pg/L	103	82-122 %			
1,2,3,4,7,8,9-HpCDF	1.076	0.893-1.208		10.0	965	pg/L	96.5	78-138 %			
1,2,3,4,6,7,8-HpCDD	1.056	0.893-1.208		10.0	931	pg/L	93.1	70-140 %			
OCDF	0.962	0.757-1.024		20.0	1550	pg/L	77.4	63-170 %			
OCDD	0.943	0.757-1.024		50.0	1860	pg/L	92.9	78-144 %			B
Labeled compounds											
13C12-2,3,7,8-TCDF	0.768	0.655-0.886			41.7				24-169 %		



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Dioxins/Furans - Quality Control

Batch BNG0286 - 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 (BNG0286-BS1)					Prepared: 17-Jul-2025		Analyzed: 08-Aug-2025 04:34				
13C12-2,3,7,8-TCDD	0.779	0.655-0.886			64.9				25-164 %		
13C12-1,2,3,7,8-PeCDF	1.634	1.318-1.783			69.8				24-185 %		
13C12-2,3,4,7,8-PeCDF	1.554	1.318-1.783			67.7				21-178 %		
13C12-1,2,3,7,8-PeCDD	1.630	1.318-1.783			75.7				25-181 %		
13C12-1,2,3,4,7,8-HxCDF	0.522	0.434-0.587			61.1				26-152 %		
13C12-1,2,3,6,7,8-HxCDF	0.550	0.434-0.587			61.6				26-123 %		
13C12-2,3,4,6,7,8-HxCDF	0.541	0.434-0.587			59.7				28-136 %		
13C12-1,2,3,7,8,9-HxCDF	0.557	0.434-0.587			66.5				29-147 %		
13C12-1,2,3,4,7,8-HxCDD	1.232	1.054-1.426			66.9				32-141 %		
13C12-1,2,3,6,7,8-HxCDD	1.254	1.054-1.426			66.8				28-130 %		
13C12-1,2,3,4,6,7,8-HpCDF	0.459	0.374-0.506			52.8				28-143 %		
13C12-1,2,3,4,7,8,9-HpCDF	0.448	0.374-0.506			60.9				26-138 %		
13C12-1,2,3,4,6,7,8-HpCDD	1.078	0.893-1.208			71.8				23-140 %		
13C12-OCDD	0.940	0.757-1.024			73.1				17-157 %		
37Cl4-2,3,7,8-TCDD					75.0				35-197 %		
LCS Dup (BNG0286-BS1)					Prepared: 17-Jul-2025		Analyzed: 08-Aug-2025 05:24				
2,3,7,8-TCDF	0.809	0.655-0.886		10.0	205	pg/L	103	75-158 %	2.70	25	
2,3,7,8-TCDD	0.666	0.655-0.886		10.0	174	pg/L	86.9	67-158 %	2.39	25	
1,2,3,7,8-PeCDF	1.526	1.318-1.783		10.0	934	pg/L	93.4	80-134 %	0.39	25	
2,3,4,7,8-PeCDF	1.586	1.318-1.783		10.0	981	pg/L	98.1	68-160 %	5.05	25	
1,2,3,7,8-PeCDD	1.561	1.318-1.783		10.0	949	pg/L	94.9	70-142 %	3.37	25	
1,2,3,4,7,8-HxCDF	1.290	1.054-1.426		10.0	959	pg/L	95.9	72-134 %	2.06	25	
1,2,3,6,7,8-HxCDF	1.268	1.054-1.426		10.0	961	pg/L	96.1	84-130 %	7.84	25	
2,3,4,6,7,8-HxCDF	1.235	1.054-1.426		10.0	1050	pg/L	105	70-156 %	0.97	25	
1,2,3,7,8,9-HxCDF	1.228	1.054-1.426		10.0	1050	pg/L	105	78-130 %	3.76	25	
1,2,3,4,7,8-HxCDD	1.307	1.054-1.426		10.0	1030	pg/L	103	70-164 %	1.68	25	
1,2,3,6,7,8-HxCDD	1.235	1.054-1.426		10.0	1140	pg/L	114	76-134 %	0.96	25	
1,2,3,7,8,9-HxCDD	1.249	1.054-1.426		10.0	1120	pg/L	112	64-162 %	3.16	25	
1,2,3,4,6,7,8-HpCDF	1.010	0.893-1.208		20.0	1030	pg/L	103	82-122 %	0.36	25	
1,2,3,4,7,8,9-HpCDF	1.037	0.893-1.208		10.0	1020	pg/L	102	78-138 %	5.76	25	
1,2,3,4,6,7,8-HpCDD	1.020	0.893-1.208		10.0	984	pg/L	98.4	70-140 %	5.54	25	
OCDF	0.934	0.757-1.024		20.0	1580	pg/L	79.0	63-170 %	2.11	25	
OCDD	0.886	0.757-1.024		50.0	2020	pg/L	101	78-144 %	8.41	25	B



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Dioxins/Furans - Quality Control

Batch BNG0286 - EPA 1613B in Water

Instrument: AUTOSPEC01 Analyst: jg

QC Sample/Analyte	Ion Ratio	Ratio Limits	EDL	Reporting Limit	Result	Units	%REC	Limits	RPD	Limit	Notes
LCS Dup (BNG0286-BSD1)					Prepared: 17-Jul-2025 Analyzed: 08-Aug-2025 05:24						
Labeled compounds											
13C12-2,3,7,8-TCDF	0.769	0.655-0.886				45.5				24-169 %	
13C12-2,3,7,8-TCDD	0.780	0.655-0.886				69.3				25-164 %	
13C12-1,2,3,7,8-PeCDF	1.474	1.318-1.783				73.7				24-185 %	
13C12-2,3,4,7,8-PeCDF	1.641	1.318-1.783				71.5				21-178 %	
13C12-1,2,3,7,8-PeCDD	1.565	1.318-1.783				81.9				25-181 %	
13C12-1,2,3,4,7,8-HxCDF	0.531	0.434-0.587				66.9				26-152 %	
13C12-1,2,3,6,7,8-HxCDF	0.505	0.434-0.587				73.1				26-123 %	
13C12-2,3,4,6,7,8-HxCDF	0.516	0.434-0.587				65.0				28-136 %	
13C12-1,2,3,7,8,9-HxCDF	0.532	0.434-0.587				70.6				29-147 %	
13C12-1,2,3,4,7,8-HxCDD	1.245	1.054-1.426				72.7				32-141 %	
13C12-1,2,3,6,7,8-HxCDD	1.261	1.054-1.426				74.2				28-130 %	
13C12-1,2,3,4,6,7,8-HpCDF	0.462	0.374-0.506				59.2				28-143 %	
13C12-1,2,3,4,7,8,9-HpCDF	0.469	0.374-0.506				63.8				26-138 %	
13C12-1,2,3,4,6,7,8-HpCDD	1.066	0.893-1.208				78.9				23-140 %	
13C12-OCDD	0.911	0.757-1.024				79.8				17-157 %	
37Cl4-2,3,7,8-TCDD						84.0				35-197 %	



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Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Dioxins/Furans - Quality Control

Batch BNG0297 - EPA 1613B in Water

Instrument: AUTOSPEC01 Analyst: jg

QC Sample/Analyte	Ion Ratio	Ratio Limits	EDL	Reporting Limit	Result	Units	%REC	Limits	RPD	Limit	Notes
Blank (BNG0297-BLK1)				Prepared: 21-Jul-2025 Analyzed: 08-Aug-2025 15:14							
2,3,7,8-TCDF		0.655-0.886	4.34	10.0	ND	pg/L					U
2,3,7,8-TCDD		0.655-0.886	4.69	10.0	ND	pg/L					U
1,2,3,7,8-PeCDF		1.318-1.783	3.97	10.0	ND	pg/L					U
2,3,4,7,8-PeCDF		1.318-1.783	3.68	10.0	ND	pg/L					U
1,2,3,7,8-PeCDD		1.318-1.783	6.59	10.0	ND	pg/L					U
1,2,3,4,7,8-HxCDF		1.054-1.426	3.14	10.0	ND	pg/L					U
1,2,3,6,7,8-HxCDF		1.054-1.426	2.89	10.0	ND	pg/L					U
2,3,4,6,7,8-HxCDF		1.054-1.426	2.84	10.0	ND	pg/L					U
1,2,3,7,8,9-HxCDF		1.054-1.426	3.78	10.0	ND	pg/L					U
1,2,3,4,7,8-HxCDD		1.054-1.426	5.53	10.0	ND	pg/L					U
1,2,3,6,7,8-HxCDD		1.054-1.426	5.25	10.0	ND	pg/L					U
1,2,3,7,8,9-HxCDD		1.054-1.426	5.81	10.0	ND	pg/L					U
1,2,3,4,6,7,8-HpCDF		0.893-1.208	3.42	20.0	ND	pg/L					U
1,2,3,4,7,8,9-HpCDF		0.893-1.208	5.73	10.0	ND	pg/L					U
1,2,3,4,6,7,8-HpCDD		0.893-1.208	6.63	10.0	ND	pg/L					U
OCDF		0.757-1.024	7.27	20.0	ND	pg/L					U
OCDD		0.757-1.024	7.38	50.0	ND	pg/L					U
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):						8.01					
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):						8.01					
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0 EDL, EMPC=ND):						0.00					
Labeled compounds											
13C12-2,3,7,8-TCDF	0.747	0.655-0.886				63.8				24-169 %	
13C12-2,3,7,8-TCDD	0.829	0.655-0.886				96.9				25-164 %	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Dioxins/Furans - Quality Control

Batch BNG0297 - 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 (BNG0297-BLK1)					Prepared: 21-Jul-2025		Analyzed: 08-Aug-2025 15:14				
13C12-1,2,3,7,8-PeCDF	1.617	1.318-1.783			83.5				24-185 %		
13C12-2,3,4,7,8-PeCDF	1.663	1.318-1.783			83.8				21-178 %		
13C12-1,2,3,7,8-PeCDD	1.633	1.318-1.783			95.8				25-181 %		
13C12-1,2,3,4,7,8-HxCDF	0.517	0.434-0.587			75.0				26-152 %		
13C12-1,2,3,6,7,8-HxCDF	0.537	0.434-0.587			89.4				26-123 %		
13C12-2,3,4,6,7,8-HxCDF	0.509	0.434-0.587			79.1				28-136 %		
13C12-1,2,3,7,8,9-HxCDF	0.474	0.434-0.587			84.2				29-147 %		
13C12-1,2,3,4,7,8-HxCDD	1.240	1.054-1.426			83.8				32-141 %		
13C12-1,2,3,6,7,8-HxCDD	1.207	1.054-1.426			96.2				28-130 %		
13C12-1,2,3,4,6,7,8-HpCDF	0.424	0.374-0.506			71.5				28-143 %		
13C12-1,2,3,4,7,8,9-HpCDF	0.460	0.374-0.506			68.7				26-138 %		
13C12-1,2,3,4,6,7,8-HpCDD	1.117	0.893-1.208			90.9				23-140 %		
13C12-OCDD	0.923	0.757-1.024			87.4				17-157 %		
37Cl4-2,3,7,8-TCDD					107				35-197 %		
LCS (BNG0297-BS1)					Prepared: 21-Jul-2025		Analyzed: 08-Aug-2025 07:52				
2,3,7,8-TCDF	0.774	0.655-0.886		10.0	189	pg/L	94.5	75-158 %			
2,3,7,8-TCDD	0.800	0.655-0.886		10.0	172	pg/L	85.8	67-158 %			
1,2,3,7,8-PeCDF	1.630	1.318-1.783		10.0	889	pg/L	88.9	80-134 %			
2,3,4,7,8-PeCDF	1.585	1.318-1.783		10.0	933	pg/L	93.3	68-160 %			
1,2,3,7,8-PeCDD	1.509	1.318-1.783		10.0	943	pg/L	94.3	70-142 %			
1,2,3,4,7,8-HxCDF	1.304	1.054-1.426		10.0	941	pg/L	94.1	72-134 %			
1,2,3,6,7,8-HxCDF	1.250	1.054-1.426		10.0	982	pg/L	98.2	84-130 %			
2,3,4,6,7,8-HxCDF	1.298	1.054-1.426		10.0	990	pg/L	99.0	70-156 %			
1,2,3,7,8,9-HxCDF	1.214	1.054-1.426		10.0	1020	pg/L	102	78-130 %			
1,2,3,4,7,8-HxCDD	1.264	1.054-1.426		10.0	985	pg/L	98.5	70-164 %			
1,2,3,6,7,8-HxCDD	1.217	1.054-1.426		10.0	1000	pg/L	100	76-134 %			
1,2,3,7,8,9-HxCDD	1.174	1.054-1.426		10.0	1000	pg/L	100	64-162 %			
1,2,3,4,6,7,8-HpCDF	1.027	0.893-1.208		20.0	946	pg/L	94.6	82-122 %			
1,2,3,4,7,8,9-HpCDF	1.063	0.893-1.208		10.0	965	pg/L	96.5	78-138 %			
1,2,3,4,6,7,8-HpCDD	1.039	0.893-1.208		10.0	933	pg/L	93.3	70-140 %			
OCDF	0.896	0.757-1.024		20.0	1510	pg/L	75.4	63-170 %			
OCDD	0.905	0.757-1.024		50.0	1940	pg/L	96.8	78-144 %			
Labeled compounds											
13C12-2,3,7,8-TCDF	0.743	0.655-0.886			63.8				24-169 %		



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Dioxins/Furans - Quality Control

Batch BNG0297 - 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 (BNG0297-BS1)					Prepared: 21-Jul-2025		Analyzed: 08-Aug-2025 07:52				
13C12-2,3,7,8-TCDD	0.802	0.655-0.886			90.4				25-164 %		
13C12-1,2,3,7,8-PeCDF	1.555	1.318-1.783			80.0				24-185 %		
13C12-2,3,4,7,8-PeCDF	1.617	1.318-1.783			78.8				21-178 %		
13C12-1,2,3,7,8-PeCDD	1.635	1.318-1.783			86.8				25-181 %		
13C12-1,2,3,4,7,8-HxCDF	0.533	0.434-0.587			73.0				26-152 %		
13C12-1,2,3,6,7,8-HxCDF	0.519	0.434-0.587			75.6				26-123 %		
13C12-2,3,4,6,7,8-HxCDF	0.528	0.434-0.587			72.9				28-136 %		
13C12-1,2,3,7,8,9-HxCDF	0.525	0.434-0.587			78.7				29-147 %		
13C12-1,2,3,4,7,8-HxCDD	1.293	1.054-1.426			81.6				32-141 %		
13C12-1,2,3,6,7,8-HxCDD	1.240	1.054-1.426			78.1				28-130 %		
13C12-1,2,3,4,6,7,8-HpCDF	0.442	0.374-0.506			65.2				28-143 %		
13C12-1,2,3,4,7,8,9-HpCDF	0.433	0.374-0.506			71.0				26-138 %		
13C12-1,2,3,4,6,7,8-HpCDD	1.096	0.893-1.208			84.6				23-140 %		
13C12-OCDD	0.869	0.757-1.024			86.9				17-157 %		
37Cl4-2,3,7,8-TCDD					91.6				35-197 %		
LCS Dup (BNG0297-BS1)					Prepared: 21-Jul-2025		Analyzed: 08-Aug-2025 08:42				
2,3,7,8-TCDF	0.777	0.655-0.886		10.0	193	pg/L	96.5	75-158 %	2.13	25	
2,3,7,8-TCDD	0.769	0.655-0.886		10.0	177	pg/L	88.5	67-158 %	3.19	25	
1,2,3,7,8-PeCDF	1.590	1.318-1.783		10.0	897	pg/L	89.7	80-134 %	0.91	25	
2,3,4,7,8-PeCDF	1.645	1.318-1.783		10.0	915	pg/L	91.5	68-160 %	2.00	25	
1,2,3,7,8-PeCDD	1.569	1.318-1.783		10.0	969	pg/L	96.9	70-142 %	2.73	25	
1,2,3,4,7,8-HxCDF	1.304	1.054-1.426		10.0	925	pg/L	92.5	72-134 %	1.66	25	
1,2,3,6,7,8-HxCDF	1.244	1.054-1.426		10.0	973	pg/L	97.3	84-130 %	0.92	25	
2,3,4,6,7,8-HxCDF	1.270	1.054-1.426		10.0	996	pg/L	99.6	70-156 %	0.60	25	
1,2,3,7,8,9-HxCDF	1.338	1.054-1.426		10.0	1000	pg/L	100	78-130 %	1.68	25	
1,2,3,4,7,8-HxCDD	1.258	1.054-1.426		10.0	973	pg/L	97.3	70-164 %	1.22	25	
1,2,3,6,7,8-HxCDD	1.316	1.054-1.426		10.0	1090	pg/L	109	76-134 %	8.79	25	
1,2,3,7,8,9-HxCDD	1.201	1.054-1.426		10.0	1060	pg/L	106	64-162 %	5.88	25	
1,2,3,4,6,7,8-HpCDF	1.048	0.893-1.208		20.0	963	pg/L	96.3	82-122 %	1.73	25	
1,2,3,4,7,8,9-HpCDF	1.026	0.893-1.208		10.0	929	pg/L	92.9	78-138 %	3.79	25	
1,2,3,4,6,7,8-HpCDD	1.040	0.893-1.208		10.0	916	pg/L	91.6	70-140 %	1.82	25	
OCDF	0.922	0.757-1.024		20.0	1560	pg/L	78.0	63-170 %	3.38	25	
OCDD	0.911	0.757-1.024		50.0	1990	pg/L	99.5	78-144 %	2.75	25	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Dioxins/Furans - Quality Control

Batch BNG0297 - EPA 1613B in Water

Instrument: AUTOSPEC01 Analyst: jg

QC Sample/Analyte	Ion Ratio	Ratio Limits	EDL	Reporting Limit	Result	Units	%REC	Limits	RPD	Limit	Notes
LCS Dup (BNG0297-BSD1)					Prepared: 21-Jul-2025 Analyzed: 08-Aug-2025 08:42						
Labeled compounds											
13C12-2,3,7,8-TCDF	0.748	0.655-0.886				63.5				24-169 %	
13C12-2,3,7,8-TCDD	0.776	0.655-0.886				92.9				25-164 %	
13C12-1,2,3,7,8-PeCDF	1.581	1.318-1.783				83.0				24-185 %	
13C12-2,3,4,7,8-PeCDF	1.553	1.318-1.783				84.4				21-178 %	
13C12-1,2,3,7,8-PeCDD	1.618	1.318-1.783				87.2				25-181 %	
13C12-1,2,3,4,7,8-HxCDF	0.531	0.434-0.587				72.8				26-152 %	
13C12-1,2,3,6,7,8-HxCDF	0.535	0.434-0.587				76.4				26-123 %	
13C12-2,3,4,6,7,8-HxCDF	0.526	0.434-0.587				71.9				28-136 %	
13C12-1,2,3,7,8,9-HxCDF	0.558	0.434-0.587				81.0				29-147 %	
13C12-1,2,3,4,7,8-HxCDD	1.243	1.054-1.426				83.0				32-141 %	
13C12-1,2,3,6,7,8-HxCDD	1.160	1.054-1.426				80.6				28-130 %	
13C12-1,2,3,4,6,7,8-HpCDF	0.455	0.374-0.506				63.4				28-143 %	
13C12-1,2,3,4,7,8,9-HpCDF	0.446	0.374-0.506				71.8				26-138 %	
13C12-1,2,3,4,6,7,8-HpCDD	1.134	0.893-1.208				88.3				23-140 %	
13C12-OCDD	0.913	0.757-1.024				84.6				17-157 %	
37Cl4-2,3,7,8-TCDD						102				35-197 %	



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNG0158 - 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 (BNG0158-BLK1) Prepared: 10-Jul-2025 Analyzed: 17-Jul-2025 20:08											
Calcium, Dissolved	ND	0.0300	0.0500	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
LCS (BNG0158-BS1) Prepared: 10-Jul-2025 Analyzed: 17-Jul-2025 20:11											
Calcium, Dissolved	11.6	0.0303	0.0505	mg/L	10.0		116	80-120			
Iron, Dissolved	2.13	0.0545	0.101	mg/L	2.00		106	80-120			
Manganese, Dissolved	0.580	0.0020	0.0040	mg/L	0.500		116	80-120			
Potassium, Dissolved	11.5	0.253	0.505	mg/L	10.0		115	80-120			
Sodium, Dissolved	11.7	0.253	0.505	mg/L	10.0		117	80-120			
LCS (BNG0158-BS2) Prepared: 10-Jul-2025 Analyzed: 22-Jul-2025 18:48											
Calcium, Dissolved	10.8	0.0303	0.0505	mg/L	10.0		108	80-120			
Iron, Dissolved	2.11	0.0545	0.101	mg/L	2.00		106	80-120			
Magnesium, Dissolved	10.6	0.0253	0.0505	mg/L	10.0		106	80-120			
Manganese, Dissolved	0.529	0.0020	0.0040	mg/L	0.500		106	80-120			
Potassium, Dissolved	10.7	0.253	0.505	mg/L	10.0		107	80-120			
Sodium, Dissolved	10.7	0.253	0.505	mg/L	10.0		107	80-120			
Sodium, Dissolved	ND	25.3	50.5	mg/L	10.0			80-120			U
LCS (BNG0158-BS3) Prepared: 10-Jul-2025 Analyzed: 22-Jul-2025 18:50											
Magnesium, Dissolved	10.0	0.0253	0.0505	mg/L	10.0		100	80-120			



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNG0187 - 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 (BNG0187-BLK1) Prepared: 10-Jul-2025 Analyzed: 17-Jul-2025 20:14											
Calcium, Dissolved	ND	0.0300	0.0500	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
Sodium, Dissolved	ND	25.0	50.0	mg/L							U

LCS (BNG0187-BS3) Prepared: 10-Jul-2025 Analyzed: 22-Jul-2025 20:00											
Calcium, Dissolved	10.8	0.0306	0.0510	mg/L	10.0		108	80-120			
Iron, Dissolved	2.11	0.0551	0.102	mg/L	2.00		105	80-120			
Magnesium, Dissolved	10.4	0.0255	0.0510	mg/L	10.0		104	80-120			
Manganese, Dissolved	0.534	0.0020	0.0041	mg/L	0.500		107	80-120			
Potassium, Dissolved	10.8	0.255	0.510	mg/L	10.0		108	80-120			
Sodium, Dissolved	10.8	0.255	0.510	mg/L	10.0		108	80-120			

Duplicate (BNG0187-DUP1) Source: 25F0554-03 Prepared: 10-Jul-2025 Analyzed: 17-Jul-2025 21:39											
Calcium, Dissolved	41.7	0.0300	0.0500	mg/L		42.0			0.88	20	
Iron, Dissolved	0.146	0.0540	0.100	mg/L		0.151			3.17	20	
Magnesium, Dissolved	13.3	0.0250	0.0500	mg/L		13.7			2.89	20	
Manganese, Dissolved	0.0436	0.0020	0.0040	mg/L		0.0443			1.59	20	
Potassium, Dissolved	8.47	0.250	0.500	mg/L		8.49			0.34	20	
Sodium, Dissolved	21.6	0.250	0.500	mg/L		21.7			0.73	20	

Matrix Spike (BNG0187-MS1) Source: 25F0554-03 Prepared: 10-Jul-2025 Analyzed: 17-Jul-2025 21:42											
Calcium, Dissolved	54.4	0.0306	0.0510	mg/L	10.0	42.0	124	75-125			
Magnesium, Dissolved	24.4	0.0255	0.0510	mg/L	10.0	13.7	108	75-125			
Manganese, Dissolved	0.662	0.0020	0.0041	mg/L	0.500	0.0443	124	75-125			
Potassium, Dissolved	20.9	0.255	0.510	mg/L	10.0	8.49	124	75-125			
Sodium, Dissolved	34.1	0.255	0.510	mg/L	10.0	21.7	124	75-125			

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

Matrix Spike (BNG0187-MS2) Source: 25F0554-03 Prepared: 10-Jul-2025 Analyzed: 22-Jul-2025 19:10											
Iron, Dissolved	2.32	0.0551	0.102	mg/L	2.00	0.151	108	75-125			

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



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Project: Snipes MTN Landfill 2025
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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNG0206 - 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 (BNG0206-BLK1)						Prepared: 12-Jul-2025 Analyzed: 14-Jul-2025 10:30					
Mercury, Dissolved	ND	0.000013	0.000100	mg/L							U
LCS (BNG0206-BS1)						Prepared: 12-Jul-2025 Analyzed: 14-Jul-2025 10:38					
Mercury, Dissolved	0.00193	0.000013	0.000100	mg/L	0.00200		96.5	80-120			



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Project: Snipes MTN Landfill 2025
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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNG0213 - 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 (BNG0213-BLK1) Prepared: 14-Jul-2025 Analyzed: 14-Jul-2025 11:08											
Mercury, Dissolved	ND	0.000013	0.000100	mg/L							U
LCS (BNG0213-BS1) Prepared: 14-Jul-2025 Analyzed: 14-Jul-2025 11:10											
Mercury, Dissolved	0.00165	0.000013	0.000100	mg/L	0.00200		82.4	80-120			
Duplicate (BNG0213-DUP1) Source: 25F0554-01 Prepared: 14-Jul-2025 Analyzed: 14-Jul-2025 11:15											
Mercury, Dissolved	ND	0.000013	0.000100	mg/L		ND			20		U
Matrix Spike (BNG0213-MS1) Source: 25F0554-01 Prepared: 14-Jul-2025 Analyzed: 14-Jul-2025 11:17											
Mercury, Dissolved	0.000885	0.000013	0.000100	mg/L	0.00100	ND	88.5	75-125			

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



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNG0219 - 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 (BNG0219-BLK1)			Prepared: 14-Jul-2025 Analyzed: 15-Jul-2025 18:59									
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
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 (BNG0219-BS1)			Prepared: 14-Jul-2025 Analyzed: 15-Jul-2025 19:04									
Antimony, Dissolved	121	26.5	0.150	0.200	ug/L	25.0		106	80-120			
Arsenic UCT, Dissolved	75a UCT	29.0	0.100	0.200	ug/L	25.0		116	80-120			
Barium, Dissolved	135	28.4	0.250	0.500	ug/L	25.0		114	80-120			
Beryllium, Dissolved	9	27.4	0.100	0.200	ug/L	25.0		110	80-120			
Chromium, Dissolved	52	28.6	0.375	0.500	ug/L	25.0		114	80-120			
Copper UCT, Dissolved	63 UCT	29.0	0.200	0.500	ug/L	25.0		116	80-120			
Nickel UCT, Dissolved	60 UCT	28.7	0.250	0.500	ug/L	25.0		115	80-120			
Selenium UCT, Dissolved	78 UCT	96.3	0.500	1.00	ug/L	80.0		120	80-120			
Silver, Dissolved	107	26.9	0.100	0.200	ug/L	25.0		108	80-120			
Thallium, Dissolved	205	27.5	0.100	0.200	ug/L	25.0		110	80-120			
Zinc UCT, Dissolved	66 UCT	96.3	3.00	6.00	ug/L	80.0		120	80-120			
LCS (BNG0219-BS2)			Prepared: 14-Jul-2025 Analyzed: 16-Jul-2025 19:28									
Cadmium UCT, Dissolved	111 UCT	27.6	0.0500	0.100	ug/L	25.0		110	80-120			



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNG0252 - 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 (BNG0252-BLK1)						Prepared: 15-Jul-2025 Analyzed: 15-Jul-2025 20:04						
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	7.30	3.00	6.00	ug/L							
LCS (BNG0252-BS1)						Prepared: 15-Jul-2025 Analyzed: 15-Jul-2025 20:09						
Antimony, Dissolved	121	22.9	0.150	0.200	ug/L	25.0		91.6	80-120			
Arsenic UCT, Dissolved	75a UCT	28.1	0.100	0.200	ug/L	25.0		113	80-120			
Barium, Dissolved	135	27.9	0.250	0.500	ug/L	25.0		112	80-120			
Beryllium, Dissolved	9	26.1	0.100	0.200	ug/L	25.0		104	80-120			
Cadmium UCT, Dissolved	111 UCT	29.2	0.0500	0.100	ug/L	25.0		117	80-120			
Chromium, Dissolved	52	27.4	0.375	0.500	ug/L	25.0		110	80-120			
Copper UCT, Dissolved	63 UCT	28.5	0.200	0.500	ug/L	25.0		114	80-120			
Lead, Dissolved	208	29.9	0.100	0.200	ug/L	25.0		120	80-120			
Nickel UCT, Dissolved	60 UCT	28.1	0.250	0.500	ug/L	25.0		112	80-120			
Selenium UCT, Dissolved	78 UCT	92.2	0.500	1.00	ug/L	80.0		115	80-120			
Silver, Dissolved	107	26.3	0.100	0.200	ug/L	25.0		105	80-120			
Thallium, Dissolved	205	26.3	0.100	0.200	ug/L	25.0		105	80-120			
Zinc UCT, Dissolved	66 UCT	94.5	3.00	6.00	ug/L	80.0		118	80-120			B
Duplicate (BNG0252-DUP1)						Source: 25F0554-02 Prepared: 15-Jul-2025 Analyzed: 15-Jul-2025 20:39						
Antimony, Dissolved	121	0.674	0.150	0.200	ug/L		0.692			2.64	20	
Arsenic UCT, Dissolved	75a UCT	5.94	0.100	0.200	ug/L		6.18			3.95	20	
Barium, Dissolved	135	24.8	0.250	0.500	ug/L		25.8			4.10	20	
Beryllium, Dissolved	9	ND	0.100	0.200	ug/L		ND				20	U
Cadmium UCT, Dissolved	111 UCT	ND	0.0500	0.100	ug/L		ND				20	U



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNG0252 - 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
Duplicate (BNG0252-DUP1)		Source: 25F0554-02			Prepared: 15-Jul-2025		Analyzed: 15-Jul-2025 20:39					
Copper UCT, Dissolved	63 UCT	ND	0.200	0.500	ug/L		0.316				20	U
Lead, Dissolved	208	ND	0.100	0.200	ug/L		0.130				20	U
Nickel UCT, Dissolved	60 UCT	87.6	0.250	0.500	ug/L		91.6			4.51	20	
Selenium UCT, Dissolved	78 UCT	3.09	0.500	1.00	ug/L		3.20			3.49	20	
Silver, Dissolved	107	ND	0.100	0.200	ug/L		ND				20	U
Thallium, Dissolved	205	ND	0.100	0.200	ug/L		ND				20	U
Zinc UCT, Dissolved	66 UCT	3.53	3.00	6.00	ug/L		3.54			0.14	20	J, B
Duplicate (BNG0252-DUP2)		Source: 25F0554-02RE1			Prepared: 15-Jul-2025		Analyzed: 16-Jul-2025 19:51					
Chromium, Dissolved	52	ND	7.50	10.0	ug/L		ND				20	U
Matrix Spike (BNG0252-MS1)		Source: 25F0554-02			Prepared: 15-Jul-2025		Analyzed: 15-Jul-2025 20:44					
Antimony, Dissolved	121	25.5	0.150	0.200	ug/L	25.0	0.692	99.3	75-125			
Arsenic UCT, Dissolved	75a UCT	33.9	0.100	0.200	ug/L	25.0	6.18	111	75-125			
Barium, Dissolved	135	53.1	0.250	0.500	ug/L	25.0	25.8	109	75-125			
Beryllium, Dissolved	9	26.0	0.100	0.200	ug/L	25.0	ND	104	75-125			
Cadmium UCT, Dissolved	111 UCT	27.7	0.0500	0.100	ug/L	25.0	ND	111	75-125			
Copper UCT, Dissolved	63 UCT	27.1	0.200	0.500	ug/L	25.0	0.316	107	75-125			
Lead, Dissolved	208	27.9	0.100	0.200	ug/L	25.0	0.130	111	75-125			
Nickel UCT, Dissolved	60 UCT	118	0.250	0.500	ug/L	25.0	91.6	107	75-125			
Selenium UCT, Dissolved	78 UCT	88.0	0.500	1.00	ug/L	80.0	3.20	106	75-125			
Silver, Dissolved	107	24.1	0.100	0.200	ug/L	25.0	ND	96.4	75-125			
Thallium, Dissolved	205	25.3	0.100	0.200	ug/L	25.0	ND	101	75-125			
Zinc UCT, Dissolved	66 UCT	85.1	3.00	6.00	ug/L	80.0	3.54	102	75-125			B
Recovery limits for target analytes in MS/MSD QC samples are advisory only.												
Matrix Spike (BNG0252-MS2)		Source: 25F0554-02RE1			Prepared: 15-Jul-2025		Analyzed: 16-Jul-2025 19:55					
Chromium, Dissolved	52	24.2	7.50	10.0	ug/L	25.0	ND	96.7	75-125			D
Recovery limits for target analytes in MS/MSD QC samples are advisory only.												



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNG0350 - 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 (BNG0350-BLK1)			Prepared: 18-Jul-2025 Analyzed: 23-Jul-2025 01:39									
Copper UCT, Dissolved	63 UCT	ND	0.200	0.500	ug/L							U
Lead, Dissolved	208	ND	0.100	0.200	ug/L							U
Blank (BNG0350-BLK2)			Prepared: 18-Jul-2025 Analyzed: 23-Jul-2025 19:25									
Zinc UCT, Dissolved	66 UCT	ND	3.00	6.00	ug/L							U
LCS (BNG0350-BS1)			Prepared: 18-Jul-2025 Analyzed: 22-Jul-2025 18:08									
Barium, Dissolved	135	27.6	0.250	0.500	ug/L	25.0		110	80-120			
Cadmium UCT, Dissolved	111 UCT	27.4	0.0500	0.100	ug/L	25.0		110	80-120			
Chromium, Dissolved	52	27.0	0.375	0.500	ug/L	25.0		108	80-120			
Copper UCT, Dissolved	63 UCT	28.5	0.200	0.500	ug/L	25.0		114	80-120			
Lead, Dissolved	208	27.7	0.100	0.200	ug/L	25.0		111	80-120			
Nickel UCT, Dissolved	60 UCT	28.6	0.250	0.500	ug/L	25.0		115	80-120			
Selenium UCT, Dissolved	78 UCT	94.4	0.500	1.00	ug/L	80.0		118	80-120			
Silver, Dissolved	107	26.9	0.100	0.200	ug/L	25.0		108	80-120			
Zinc UCT, Dissolved	66 UCT	90.4	3.00	6.00	ug/L	80.0		113	80-120			



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNF0559 - 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 (BNF0559-BLK1)										
					Prepared: 27-Jun-2025 Analyzed: 27-Jun-2025 18:23					
Nitrite-N	ND	0.010	0.010	mg/L						U
LCS (BNF0559-BS1)										
					Prepared: 27-Jun-2025 Analyzed: 27-Jun-2025 18:24					
Nitrite-N	0.500	0.010	0.010	mg/L	0.500	100	90-110			



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNF0604 - EPA 375.2 in Water

Instrument: LACHAT2 Analyst: CRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNF0604-BLK1)					Prepared: 30-Jun-2025 Analyzed: 02-Jul-2025 13:27						
Sulfate	2.08	2.00	2.00	mg/L							
LCS (BNF0604-BS1)					Prepared: 30-Jun-2025 Analyzed: 02-Jul-2025 13:28						
Sulfate	14.1	2.00	2.00	mg/L	15.0		94.0	90-110			B
Duplicate (BNF0604-DUP1)					Source: 25F0554-01 Prepared: 30-Jun-2025 Analyzed: 02-Jul-2025 14:47						
Sulfate	21.0	2.00	2.00	mg/L		22.6			7.34	20	B
Matrix Spike (BNF0604-MS1)					Source: 25F0554-01 Prepared: 30-Jun-2025 Analyzed: 02-Jul-2025 14:49						
Sulfate	111	2.00	10.0	mg/L	100	22.6	88.4	75-125			D, B

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



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNG0006 - SM 2540 D-11 in Water

Instrument: BAL2 Analyst: AG

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNG0006-BLK1)										
Prepared: 01-Jul-2025 Analyzed: 01-Jul-2025 09:02										
Suspended Solids	ND	1	1	mg/L						U
LCS (BNG0006-BS1)										
Prepared: 01-Jul-2025 Analyzed: 01-Jul-2025 09:02										
Suspended Solids	48	1	1	mg/L	50.40		95.0 90-110			



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNG0011 - SM 2540 C-11 in Water

Instrument: BAL2 Analyst: AG

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BNG0011-BLK1)										
Prepared: 01-Jul-2025 Analyzed: 01-Jul-2025 10:06										
Dissolved Solids	ND	5	5	mg/L						U
LCS (BNG0011-BS1)										
Prepared: 01-Jul-2025 Analyzed: 01-Jul-2025 10:06										
Dissolved Solids	482	10	10	mg/L	500		96.4 90-110			



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Reported:
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Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNG0041 - 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	%REC Limits	RPD	RPD Limit	Notes
Blank (BNG0041-BLK1)											
						Prepared: 02-Jul-2025 Analyzed: 02-Jul-2025 10:49					
Alkalinity, Total	ND	1.00	1.00	mg/L CaCO ₃							U
Reference (BNG0041-SRM1)											
						Prepared: 02-Jul-2025 Analyzed: 02-Jul-2025 10:49					
Alkalinity, Total	93.0	1.00	1.00	mg/L CaCO ₃	93.4		99.6	85.01-114.56			



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNG0078 - 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 (BNG0078-BLK1)					Prepared: 03-Jul-2025 Analyzed: 03-Jul-2025 15:39					
# Chloride	ND	1.00	1.00	mg/L						U
LCS (BNG0078-BS1)					Prepared: 03-Jul-2025 Analyzed: 03-Jul-2025 15:40					
# Chloride	4.89	1.00	1.00	mg/L	5.00		97.8 90-110			

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



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNG0111 - SM 4500-NH3 H-11 in Water

Instrument: LCHAT1 Analyst: CB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNG0111-BLK1)											
						Prepared: 07-Jul-2025 Analyzed: 08-Jul-2025 16:38					
Ammonia-N	ND	0.040	0.040	mg/L							U
LCS (BNG0111-BS1)											
						Prepared: 07-Jul-2025 Analyzed: 08-Jul-2025 16:40					
Ammonia-N	0.467	0.040	0.040	mg/L	0.500		93.4	90-110			



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNG0246 - 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 (BNG0246-BLK1)										
Prepared: 15-Jul-2025 Analyzed: 15-Jul-2025 09:29										
Total Organic Carbon	ND	0.50	0.50	mg/L						U
LCS (BNG0246-BS1)										
Prepared: 15-Jul-2025 Analyzed: 15-Jul-2025 09:48										
Total Organic Carbon	18.24	0.50	0.50	mg/L	20.00		91.2 90-110			



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNG0305 - 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 (BNG0305-BLK1)										
Prepared: 16-Jul-2025 Analyzed: 16-Jul-2025 16:59										
Nitrate + Nitrite as N	ND	0.010	0.010	mg/L						U
LCS (BNG0305-BS1)										
Prepared: 16-Jul-2025 Analyzed: 16-Jul-2025 17:00										
Nitrate + Nitrite as N	0.516	0.010	0.010	mg/L	0.500	103	90-110			



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Reported:
14-Aug-2025 12:47

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNG0395 - EPA 410.4 in Water

Instrument: UV1800-1 Analyst: CDE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNG0395-BLK1)					Prepared: 21-Jul-2025 Analyzed: 23-Jul-2025 16:52						
COD	ND	10.0	10.0	mg/L							U
DL (BNG0395-BLK2)					Prepared: 21-Jul-2025 Analyzed: 23-Jul-2025 16:58						
COD	ND	10.0	10.0	mg/L							U
Blank (BNG0395-BLK3)					Prepared: 21-Jul-2025 Analyzed: 23-Jul-2025 17:21						
COD	ND	10.0	10.0	mg/L							U
LCS (BNG0395-BS1)					Prepared: 21-Jul-2025 Analyzed: 23-Jul-2025 16:55						
COD	106	10.0	10.0	mg/L	100		106	90-110			
DL (BNG0395-BS2)					Prepared: 21-Jul-2025 Analyzed: 23-Jul-2025 16:59						
COD	108	10.0	10.0	mg/L	100		108	90-110			
LCS (BNG0395-BS3)					Prepared: 21-Jul-2025 Analyzed: 23-Jul-2025 17:22						
COD	109	10.0	10.0	mg/L	100		109	90-110			



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Uncertified Analytes included in this Report

Analysis Matrix & Analyte

EPA 325.2 in Water

Chloride

EPA 8081B in Water

Chlordane, technical [2C]

Chlordane, technical

EPA 8270E-SIM in Water

Benzofluoranthenes, Total

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



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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



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13C12-1,2,3,6,7,8-HxCDF
13C12-2,3,4,6,7,8-HxCDF
13C12-1,2,3,7,8,9-HxCDF
13C12-1,2,3,4,7,8-HxCDD
13C12-1,2,3,6,7,8-HxCDD
13C12-1,2,3,4,6,7,8-HpCDF
13C12-1,2,3,4,7,8,9-HpCDF
13C12-1,2,3,4,6,7,8-HpCDD
13C12-OCDD
37Cl4-2,3,7,8-TCDD

DoD-ELAP
DoD-ELAP
DoD-ELAP
DoD-ELAP
DoD-ELAP
DoD-ELAP
DoD-ELAP
DoD-ELAP
DoD-ELAP

EPA 353.2 in Water

Nitrate + Nitrite as N
Nitrate-N
Nitrite-N

DoD-ELAP,NELAP,WADOE
DoD-ELAP,NELAP,WADOE
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
Iron
Magnesium
Manganese
Potassium
Sodium
Sodium-1

DoD-ELAP,NELAP,WADOE
DoD-ELAP,NELAP,WADOE
DoD-ELAP,NELAP,WADOE
DoD-ELAP,NELAP,WADOE
DoD-ELAP,NELAP,WADOE
DoD-ELAP,NELAP,WADOE
DoD-ELAP

EPA 6020B in Water

Antimony-121
Arsenic-75a UCT
Barium-135
Beryllium-9
Cadmium-111 UCT
Chromium-52
Copper-63 UCT

DoD-ELAP,NELAP,WADOE
DoD-ELAP,WADOE
DoD-ELAP,NELAP,WADOE,ADEC
DoD-ELAP,NELAP,WADOE
DoD-ELAP,WADOE
DoD-ELAP,NELAP,WADOE,ADEC
DoD-ELAP,WADOE



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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
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



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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
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



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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
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



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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
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



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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
Diethyl phthalate	WADOE,DoD-ELAP,NELAP
4-Nitroaniline	WADOE,DoD-ELAP,NELAP



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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



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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
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, 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	08/31/2025
WA-DW	Ecology - Drinking Water	C558	08/31/2025



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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)
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.
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: Eric Cutler
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JOB DESCRIPTION

Snipes Landfill, Yakima County

JOB NUMBER

320-122984-1

Eurofins Sacramento

Job Notes

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Definitions/Glossary

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

Job ID: 320-122984-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: 320-122984-1

Job ID: 320-122984-1

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Job Narrative 320-122984-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 6/28/2025 9:15 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 2.2°C.

Herbicides

Method 8151A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-591774. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8151A: The following sample formed emulsions during the extraction procedure: SMW-5S (320-122984-2). The emulsions were broken up via centrifuge.

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

PFAS

Method 1633_Final: Per client directive, the following sample with elevated total suspended solids (TSS) in the sample container was fortified with Extracted Internal Standards (EIS), equilibrated, and centrifuged. The aqueous phase was separated and then extracted using Solid Phase Extraction (SPE). A rinse of the solid residue was added to the aqueous sample prior to extraction. Potential outcomes of this approach include elevated reporting limits and poor EIS recoveries that may preferentially sorb to the particulates leading to qualified QC in the final results. SMW-5S (320-122984-2)

Method 1633_Final: Due to low Isotope Dilution Analyte (IDA) in the initial extraction, the volume used for the re-extraction (RE) of the following sample was reduced and reporting limits (RLs) have been adjusted proportionately. SMW-5S (320-122984-2)

Method 1633_Final: Internal standard (ISTD) response for the following sample was outside control limits: SMW-5S (320-122984-2). The sample was re-analyzed with concurring results and ISTD response was outside control limits.

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: 320-122984-1

Client Sample ID: SMW-5D

Lab Sample ID: 320-122984-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1.5	J	3.4	0.85	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	1.3	J	1.7	0.43	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.54	J	1.7	0.43	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.3		1.7	0.43	ng/L	1		1633	Total/NA

Client Sample ID: SMW-5S

Lab Sample ID: 320-122984-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	27		1.3	0.34	ng/L	1		1633	Total/NA
3:3 FTCA	2.6	J	2.7	0.67	ng/L	1		1633	Total/NA
Perfluorobutanoic acid (PFBA) - RE	66		40	10	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-122984-1

Client Sample ID: SMW-5D

Lab Sample ID: 320-122984-1

Date Collected: 06/24/25 10:00

Matrix: Water

Date Received: 06/28/25 09:15

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	ND		2.4	2.1	ug/L		07/01/25 11:52	07/09/25 09:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	70		20 - 161				07/01/25 11:52	07/09/25 09:16	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)	1.5	J	3.4	0.85	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluoropentanoic acid (PFPeA)	1.3	J	1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluorooctanoic acid (PFOA)	0.54	J	1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.47	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.7	0.49	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.69	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluorooctanesulfonic acid (PFOS)	4.3		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.45	ng/L		07/18/25 04:11	07/19/25 08:27	1
4:2 FTS	ND		3.4	0.85	ng/L		07/18/25 04:11	07/19/25 08:27	1
6:2 FTS	ND		3.4	0.85	ng/L		07/18/25 04:11	07/19/25 08:27	1
8:2 FTS	ND		3.4	0.85	ng/L		07/18/25 04:11	07/19/25 08:27	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
NMeFOSA	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
NEtFOSA	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
NMeFOSAA	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
NEtFOSAA	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
NMeFOSE	ND		8.5	2.1	ng/L		07/18/25 04:11	07/19/25 08:27	1
NEtFOSE	ND		8.5	2.1	ng/L		07/18/25 04:11	07/19/25 08:27	1
HFPO-DA (GenX)	ND		1.3	0.33	ng/L		07/18/25 04:11	07/19/25 08:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
PFMPA	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
PFMBA	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
NFDHA	ND		1.7	0.61	ng/L		07/18/25 04:11	07/19/25 08:27	1
9Cl-PF3ONS	ND		1.7	0.49	ng/L		07/18/25 04:11	07/19/25 08:27	1
11Cl-PF3OUdS	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
PFEESA	ND		1.7	0.43	ng/L		07/18/25 04:11	07/19/25 08:27	1
3:3 FTCA	ND		3.4	0.85	ng/L		07/18/25 04:11	07/19/25 08:27	1
5:3 FTCA	ND		8.5	2.1	ng/L		07/18/25 04:11	07/19/25 08:27	1

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Client Sample Results

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

Job ID: 320-122984-1

Client Sample ID: SMW-5D

Lab Sample ID: 320-122984-1

Date Collected: 06/24/25 10:00

Matrix: Water

Date Received: 06/28/25 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
7:3 FTCA	ND		8.5	2.1	ng/L		07/18/25 04:11	07/19/25 08:27	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	98.1		5 - 130				07/18/25 04:11	07/19/25 08:27	1
13C5 PFPeA	102		40 - 130				07/18/25 04:11	07/19/25 08:27	1
13C5 PFHxA	102		40 - 130				07/18/25 04:11	07/19/25 08:27	1
13C4 PFHpA	99.4		40 - 130				07/18/25 04:11	07/19/25 08:27	1
13C8 PFOA	93.3		40 - 130				07/18/25 04:11	07/19/25 08:27	1
13C9 PFNA	94.3		40 - 130				07/18/25 04:11	07/19/25 08:27	1
13C6 PFDA	95.0		40 - 130				07/18/25 04:11	07/19/25 08:27	1
13C7 PFUnA	95.0		30 - 130				07/18/25 04:11	07/19/25 08:27	1
13C2 PFDoA	70.2		10 - 130				07/18/25 04:11	07/19/25 08:27	1
13C2 PFTeDA	74.3		10 - 130				07/18/25 04:11	07/19/25 08:27	1
13C3 PFBS	96.0		40 - 135				07/18/25 04:11	07/19/25 08:27	1
13C3 PFHxS	93.5		40 - 130				07/18/25 04:11	07/19/25 08:27	1
13C8 PFOS	103		40 - 130				07/18/25 04:11	07/19/25 08:27	1
13C8 FOSA	98.1		40 - 130				07/18/25 04:11	07/19/25 08:27	1
d3-NMeFOSAA	108		40 - 170				07/18/25 04:11	07/19/25 08:27	1
d5-NEtFOSAA	107		25 - 135				07/18/25 04:11	07/19/25 08:27	1
13C2 4:2 FTS	123		40 - 200				07/18/25 04:11	07/19/25 08:27	1
13C2 6:2 FTS	105		40 - 200				07/18/25 04:11	07/19/25 08:27	1
13C2 8:2 FTS	137		40 - 300				07/18/25 04:11	07/19/25 08:27	1
13C3 HFPO-DA	107		40 - 130				07/18/25 04:11	07/19/25 08:27	1
d7-N-MeFOSE-M	87.2		10 - 130				07/18/25 04:11	07/19/25 08:27	1
d9-N-EtFOSE-M	95.2		10 - 130				07/18/25 04:11	07/19/25 08:27	1
d5-NEtPFOSA	94.0		10 - 130				07/18/25 04:11	07/19/25 08:27	1
d3-NMePFOSA	89.0		10 - 130				07/18/25 04:11	07/19/25 08:27	1

Client Sample Results

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

Job ID: 320-122984-1

Client Sample ID: SMW-5S

Lab Sample ID: 320-122984-2

Date Collected: 06/25/25 10:00

Matrix: Water

Date Received: 06/28/25 09:15

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	ND		2.4	2.1	ug/L		07/01/25 11:52	07/09/25 09:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	38		20 - 161				07/01/25 11:52	07/09/25 09:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	27		1.3	0.34	ng/L		07/18/25 21:23	07/20/25 13:45	1
4:2 FTS	ND		2.7	0.67	ng/L		07/18/25 21:23	07/20/25 13:45	1
PFMPA	ND		1.3	0.34	ng/L		07/18/25 21:23	07/20/25 13:45	1
PFMBA	ND		1.3	0.34	ng/L		07/18/25 21:23	07/20/25 13:45	1
3:3 FTCA	2.6 J		2.7	0.67	ng/L		07/18/25 21:23	07/20/25 13:45	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFPeA	69.5		40 - 130				07/18/25 21:23	07/20/25 13:45	1
13C2 4:2 FTS	41.2		40 - 200				07/18/25 21:23	07/20/25 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	66		40	10	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluorohexanoic acid (PFHxA)	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluoroheptanoic acid (PFHpA)	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluorooctanoic acid (PFOA)	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluorononanoic acid (PFNA)	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluorodecanoic acid (PFDA)	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluoroundecanoic acid (PFUnA)	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluorododecanoic acid (PFDoA)	ND		20	5.5	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluorotridecanoic acid (PFTrDA)	ND		20	5.8	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluorotetradecanoic acid (PFTeDA)	ND		20	8.1	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluorobutanesulfonic acid (PFBS)	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluoropentanesulfonic acid (PFPeS)	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluorohexanesulfonic acid (PFHxS)	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluorooctanesulfonic acid (PFOS)	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluorononanesulfonic acid (PFNS)	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluorodecanesulfonic acid (PFDS)	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluorododecanesulfonic acid (PFDoS)	ND		20	5.3	ng/L		07/21/25 19:57	07/22/25 13:17	1
6:2 FTS	ND		40	10	ng/L		07/21/25 19:57	07/22/25 13:17	1
8:2 FTS	ND		40	10	ng/L		07/21/25 19:57	07/22/25 13:17	1
Perfluorooctanesulfonamide (PFOSA)	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
NMeFOSA	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
NEtFOSA	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
NMeFOSAA	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
NEtFOSAA	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
NMeFOSE	ND		100	25	ng/L		07/21/25 19:57	07/22/25 13:17	1
NEtFOSE	ND		100	25	ng/L		07/21/25 19:57	07/22/25 13:17	1
HFPO-DA (GenX)	ND		15	3.9	ng/L		07/21/25 19:57	07/22/25 13:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1

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Client Sample Results

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

Job ID: 320-122984-1

Client Sample ID: SMW-5S

Lab Sample ID: 320-122984-2

Date Collected: 06/25/25 10:00

Matrix: Water

Date Received: 06/28/25 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NFDHA	ND		20	7.2	ng/L		07/21/25 19:57	07/22/25 13:17	1
9CI-PF3ONS	ND		20	5.8	ng/L		07/21/25 19:57	07/22/25 13:17	1
11CI-PF3OUdS	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
PFEESA	ND		20	5.0	ng/L		07/21/25 19:57	07/22/25 13:17	1
5:3 FTCA	ND		100	25	ng/L		07/21/25 19:57	07/22/25 13:17	1
7:3 FTCA	ND		100	25	ng/L		07/21/25 19:57	07/22/25 13:17	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	91.9		5 - 130				07/21/25 19:57	07/22/25 13:17	1
13C5 PFHxA	106		40 - 130				07/21/25 19:57	07/22/25 13:17	1
13C4 PFHpA	101		40 - 130				07/21/25 19:57	07/22/25 13:17	1
13C8 PFOA	103		40 - 130				07/21/25 19:57	07/22/25 13:17	1
13C9 PFNA	106		40 - 130				07/21/25 19:57	07/22/25 13:17	1
13C6 PFDA	106		40 - 130				07/21/25 19:57	07/22/25 13:17	1
13C7 PFUnA	107		30 - 130				07/21/25 19:57	07/22/25 13:17	1
13C2 PFDoA	109		10 - 130				07/21/25 19:57	07/22/25 13:17	1
13C2 PFTeDA	111		10 - 130				07/21/25 19:57	07/22/25 13:17	1
13C3 PFBS	102		40 - 135				07/21/25 19:57	07/22/25 13:17	1
13C3 PFHxS	101		40 - 130				07/21/25 19:57	07/22/25 13:17	1
13C8 PFOS	106		40 - 130				07/21/25 19:57	07/22/25 13:17	1
13C8 FOSA	93.1		40 - 130				07/21/25 19:57	07/22/25 13:17	1
d3-NMeFOSAA	131		40 - 170				07/21/25 19:57	07/22/25 13:17	1
d5-NEtFOSAA	134		25 - 135				07/21/25 19:57	07/22/25 13:17	1
13C2 6:2 FTS	115		40 - 200				07/21/25 19:57	07/22/25 13:17	1
13C2 8:2 FTS	115		40 - 300				07/21/25 19:57	07/22/25 13:17	1
13C3 HFPO-DA	102		40 - 130				07/21/25 19:57	07/22/25 13:17	1
d7-N-MeFOSE-M	96.4		10 - 130				07/21/25 19:57	07/22/25 13:17	1
d9-N-EtFOSE-M	103		10 - 130				07/21/25 19:57	07/22/25 13:17	1
d5-NEtPFOSA	77.7		10 - 130				07/21/25 19:57	07/22/25 13:17	1
d3-NMePFOSA	82.4		10 - 130				07/21/25 19:57	07/22/25 13:17	1

Surrogate Summary

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

Job ID: 320-122984-1

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

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	DCPAA1 (20-161)
320-122984-1	SMW-5D	70
320-122984-2	SMW-5S	38
LCS 570-591774/2-A	Lab Control Sample	79
LCSD 570-591774/3-A	Lab Control Sample Dup	78
MB 570-591774/1-A	Method Blank	54
Surrogate Legend		
DCPAA = 2,4-Dichlorophenylacetic acid (Surr)		

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Isotope Dilution Summary

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

Job ID: 320-122984-1

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)
320-122984-1	SMW-5D	98.1	102	102	99.4	93.3	94.3	95.0	95.0
320-122984-2	SMW-5S		69.5						
320-122984-2 - RE	SMW-5S	91.9		106	101	103	106	106	107
LCS 320-863876/3-A	Lab Control Sample	98.2	95.4	97.4	98.7	94.4	95.3	94.1	90.9
LCS 320-864195/3-A	Lab Control Sample	92.1	91.6	94.6	94.5	102	100	95.9	96.9
LCS 320-864678/3-A	Lab Control Sample	87.4		94.6	92.4	101	96.7	102	117
LCSD 320-864195/4-A	Lab Control Sample Dup	95.0	90.0	96.5	93.6	107	97.2	96.2	96.5
LCSD 320-864678/4-A	Lab Control Sample Dup	88.3		101	99.2	101	99.4	108	121
LLCS 320-863876/2-A	Lab Control Sample	101	98.1	103	101	89.7	90.5	97.8	98.6
LLCS 320-864195/2-A	Lab Control Sample	94.3	93.6	98.0	91.8	101	96.8	94.6	104
LLCS 320-864678/2-A	Lab Control Sample	84.8		101	100	103	92.3	106	111
MB 320-863876/1-A	Method Blank	98.2	104	104	101	90.0	93.0	90.9	86.8
MB 320-864195/1-A	Method Blank	99.9	92.1	95.8	85.9	106	97.4	106	107
MB 320-864678/1-A	Method Blank	81.5		109	104	107	96.7	104	104

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)
320-122984-1	SMW-5D	70.2	74.3	96.0	93.5	103	98.1	108	107
320-122984-2	SMW-5S								
320-122984-2 - RE	SMW-5S	109	111	102	101	106	93.1	131	134
LCS 320-863876/3-A	Lab Control Sample	74.8	82.0	88.7	98.7	96.2	88.8	96.4	85.4
LCS 320-864195/3-A	Lab Control Sample	83.0	91.5	96.5	97.8	88.2	85.2	118	118
LCS 320-864678/3-A	Lab Control Sample	116	116	92.4	98.4	107	90.5	128	134
LCSD 320-864195/4-A	Lab Control Sample Dup	76.7	79.0	90.8	99.1	89.7	77.1	116	108
LCSD 320-864678/4-A	Lab Control Sample Dup	119	113	91.0	101	100	85.7	126	127
LLCS 320-863876/2-A	Lab Control Sample	77.1	86.6	86.9	99.2	95.2	83.1	91.8	82.0
LLCS 320-864195/2-A	Lab Control Sample	87.4	98.2	90.6	96.3	93.5	88.0	122	123
LLCS 320-864678/2-A	Lab Control Sample	104	104	94.3	102	103	85.6	122	126
MB 320-863876/1-A	Method Blank	70.3	77.8	88.7	95.9	92.7	83.6	89.2	83.3
MB 320-864195/1-A	Method Blank	97.1	96.4	105	104	97.0	88.7	122	122
MB 320-864678/1-A	Method Blank	101	106	95.5	100	103	83.4	128	127

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)
320-122984-1	SMW-5D	123	105	137	107	87.2	95.2	94.0	89.0
320-122984-2	SMW-5S	41.2							
320-122984-2 - RE	SMW-5S		115	115	102	96.4	103	77.7	82.4
LCS 320-863876/3-A	Lab Control Sample	100	100	108	103	85.1	82.9	76.4	71.6
LCS 320-864195/3-A	Lab Control Sample	103	110	130	81.2	85.0	85.6	64.6	67.4
LCS 320-864678/3-A	Lab Control Sample		107	114	93.8	108	117	82.8	85.6
LCSD 320-864195/4-A	Lab Control Sample Dup	103	98.9	126	80.1	73.3	75.9	58.0	60.8
LCSD 320-864678/4-A	Lab Control Sample Dup		113	113	97.3	92.4	99.5	78.7	81.6
LLCS 320-863876/2-A	Lab Control Sample	112	107	121	106	80.7	76.8	69.2	69.0
LLCS 320-864195/2-A	Lab Control Sample	101	111	132	78.2	87.3	89.4	64.1	66.4
LLCS 320-864678/2-A	Lab Control Sample		119	117	99.1	91.8	97.8	72.2	76.7
MB 320-863876/1-A	Method Blank	107	95.8	116	103	72.7	74.9	71.5	71.7
MB 320-864195/1-A	Method Blank	109	116	134	74.3	86.1	88.1	62.4	64.4
MB 320-864678/1-A	Method Blank		119	116	102	89.7	100	78.7	81.7

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Isotope Dilution Summary

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

Job ID: 320-122984-1

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
d3NMFSA = d3-NMePFOSA

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QC Sample Results

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

Job ID: 320-122984-1

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 570-591774/1-A

Matrix: Water

Analysis Batch: 594682

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 591774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	ND		2.5	2.2	ug/L		07/01/25 11:52	07/09/25 08:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	54		20 - 161				07/01/25 11:52	07/09/25 08:08	1

Lab Sample ID: LCS 570-591774/2-A

Matrix: Water

Analysis Batch: 594682

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 591774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dinoseb	5.00	5.41		ug/L		108	10 - 180
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2,4-Dichlorophenylacetic acid (Surr)	79		20 - 161				

Lab Sample ID: LCSD 570-591774/3-A

Matrix: Water

Analysis Batch: 594682

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 591774

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dinoseb	5.00	4.70		ug/L		94	10 - 180	14	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
2,4-Dichlorophenylacetic acid (Surr)	78		20 - 161						

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

Lab Sample ID: MB 320-863876/1-A

Matrix: Water

Analysis Batch: 864184

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 863876

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.0	1.0	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluorotridecanoic acid (PFTTrDA)	ND		2.0	0.58	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.81	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1

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QC Sample Results

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

Job ID: 320-122984-1

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

Lab Sample ID: MB 320-863876/1-A

Matrix: Water

Analysis Batch: 864184

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 863876

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.53	ng/L		07/18/25 04:11	07/19/25 07:05	1
4:2 FTS	ND		4.0	1.0	ng/L		07/18/25 04:11	07/19/25 07:05	1
6:2 FTS	ND		4.0	1.0	ng/L		07/18/25 04:11	07/19/25 07:05	1
8:2 FTS	ND		4.0	1.0	ng/L		07/18/25 04:11	07/19/25 07:05	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
NMeFOSA	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
NEtFOSA	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
NMeFOSAA	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
NEtFOSAA	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
NMeFOSE	ND		10	2.5	ng/L		07/18/25 04:11	07/19/25 07:05	1
NEtFOSE	ND		10	2.5	ng/L		07/18/25 04:11	07/19/25 07:05	1
HFPO-DA (GenX)	ND		1.5	0.39	ng/L		07/18/25 04:11	07/19/25 07:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
PFMPA	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
PFMBA	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
NFDHA	ND		2.0	0.72	ng/L		07/18/25 04:11	07/19/25 07:05	1
9CI-PF3ONS	ND		2.0	0.58	ng/L		07/18/25 04:11	07/19/25 07:05	1
11CI-PF3OUdS	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
PFEESA	ND		2.0	0.50	ng/L		07/18/25 04:11	07/19/25 07:05	1
3:3 FTCA	ND		4.0	1.0	ng/L		07/18/25 04:11	07/19/25 07:05	1
5:3 FTCA	ND		10	2.5	ng/L		07/18/25 04:11	07/19/25 07:05	1
7:3 FTCA	ND		10	2.5	ng/L		07/18/25 04:11	07/19/25 07:05	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	98.2		5 - 130	07/18/25 04:11	07/19/25 07:05	1
13C5 PFPeA	104		40 - 130	07/18/25 04:11	07/19/25 07:05	1
13C5 PFHxA	104		40 - 130	07/18/25 04:11	07/19/25 07:05	1
13C4 PFHpA	101		40 - 130	07/18/25 04:11	07/19/25 07:05	1
13C8 PFOA	90.0		40 - 130	07/18/25 04:11	07/19/25 07:05	1
13C9 PFNA	93.0		40 - 130	07/18/25 04:11	07/19/25 07:05	1
13C6 PFDA	90.9		40 - 130	07/18/25 04:11	07/19/25 07:05	1
13C7 PFUnA	86.8		30 - 130	07/18/25 04:11	07/19/25 07:05	1
13C2 PFDoA	70.3		10 - 130	07/18/25 04:11	07/19/25 07:05	1
13C2 PFTeDA	77.8		10 - 130	07/18/25 04:11	07/19/25 07:05	1
13C3 PFBS	88.7		40 - 135	07/18/25 04:11	07/19/25 07:05	1
13C3 PFHxS	95.9		40 - 130	07/18/25 04:11	07/19/25 07:05	1
13C8 PFOS	92.7		40 - 130	07/18/25 04:11	07/19/25 07:05	1
13C8 FOSA	83.6		40 - 130	07/18/25 04:11	07/19/25 07:05	1
d3-NMeFOSAA	89.2		40 - 170	07/18/25 04:11	07/19/25 07:05	1
d5-NEtFOSAA	83.3		25 - 135	07/18/25 04:11	07/19/25 07:05	1
13C2 4:2 FTS	107		40 - 200	07/18/25 04:11	07/19/25 07:05	1
13C2 6:2 FTS	95.8		40 - 200	07/18/25 04:11	07/19/25 07:05	1

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QC Sample Results

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

Job ID: 320-122984-1

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

Lab Sample ID: MB 320-863876/1-A

Matrix: Water

Analysis Batch: 864184

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 863876

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 8:2 FTS	116		40 - 300	07/18/25 04:11	07/19/25 07:05	1
13C3 HFPO-DA	103		40 - 130	07/18/25 04:11	07/19/25 07:05	1
d7-N-MeFOSE-M	72.7		10 - 130	07/18/25 04:11	07/19/25 07:05	1
d9-N-EtFOSE-M	74.9		10 - 130	07/18/25 04:11	07/19/25 07:05	1
d5-NEtPFOSA	71.5		10 - 130	07/18/25 04:11	07/19/25 07:05	1
d3-NMePFOSA	71.7		10 - 130	07/18/25 04:11	07/19/25 07:05	1

Lab Sample ID: LCS 320-863876/3-A

Matrix: Water

Analysis Batch: 864184

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 863876

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	96.7		ng/L		121	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	42.7		ng/L		107	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	43.7		ng/L		109	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	39.3		ng/L		98	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	40.9		ng/L		102	70 - 150
Perfluorononanoic acid (PFNA)	40.0	42.6		ng/L		106	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	42.2		ng/L		105	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	41.7		ng/L		104	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	44.9		ng/L		112	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	40.0	44.7		ng/L		112	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	42.5		ng/L		106	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	38.2		ng/L		108	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	35.3		ng/L		94	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	38.3		ng/L		105	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	42.2		ng/L		111	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	40.9		ng/L		110	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	38.2		ng/L		99	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	37.0		ng/L		96	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	35.2		ng/L		91	50 - 145
4:2 FTS	75.0	79.3		ng/L		106	70 - 145
6:2 FTS	76.2	85.6		ng/L		112	65 - 155
8:2 FTS	76.8	78.0		ng/L		102	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	43.4		ng/L		108	70 - 145
NMeFOSA	40.0	44.7		ng/L		112	60 - 150
NEtFOSA	40.0	41.4		ng/L		104	65 - 145
NMeFOSAA	40.0	41.6		ng/L		104	50 - 140
NEtFOSAA	40.0	45.1		ng/L		113	70 - 145

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QC Sample Results

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

Job ID: 320-122984-1

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

Lab Sample ID: LCS 320-863876/3-A

Matrix: Water

Analysis Batch: 864184

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 863876

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSE	200	212		ng/L		106	70 - 145
NEtFOSE	200	202		ng/L		101	70 - 135
HFPO-DA (GenX)	30.0	31.8		ng/L		106	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	42.3		ng/L		112	65 - 145
PFMPA	40.0	44.7		ng/L		112	55 - 140
PFMBA	40.0	44.3		ng/L		111	60 - 150
NFDHA	40.0	36.4		ng/L		91	50 - 150
9Cl-PF3ONS	37.4	37.8		ng/L		101	70 - 155
11Cl-PF3OUdS	37.8	37.3		ng/L		99	55 - 160
PFEESA	35.7	37.9		ng/L		106	70 - 140
3:3 FTCA	80.0	84.0		ng/L		105	65 - 130
5:3 FTCA	200	194		ng/L		97	70 - 135
7:3 FTCA	200	191		ng/L		95	50 - 145

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	98.2		5 - 130
13C5 PFPeA	95.4		40 - 130
13C5 PFHxA	97.4		40 - 130
13C4 PFHpA	98.7		40 - 130
13C8 PFOA	94.4		40 - 130
13C9 PFNA	95.3		40 - 130
13C6 PFDA	94.1		40 - 130
13C7 PFUnA	90.9		30 - 130
13C2 PFDoA	74.8		10 - 130
13C2 PFTeDA	82.0		10 - 130
13C3 PFBS	88.7		40 - 135
13C3 PFHxS	98.7		40 - 130
13C8 PFOS	96.2		40 - 130
13C8 FOSA	88.8		40 - 130
d3-NMeFOSAA	96.4		40 - 170
d5-NEtFOSAA	85.4		25 - 135
13C2 4:2 FTS	100		40 - 200
13C2 6:2 FTS	100		40 - 200
13C2 8:2 FTS	108		40 - 300
13C3 HFPO-DA	103		40 - 130
d7-N-MeFOSE-M	85.1		10 - 130
d9-N-EtFOSE-M	82.9		10 - 130
d5-NEtPFOSA	76.4		10 - 130
d3-NMePFOSA	71.6		10 - 130

Lab Sample ID: LLCS 320-863876/2-A

Matrix: Water

Analysis Batch: 864184

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 863876

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	9.60		ng/L		120	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	4.40		ng/L		110	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	4.47		ng/L		112	70 - 145

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QC Sample Results

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

Job ID: 320-122984-1

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

Lab Sample ID: LLCS 320-863876/2-A

Matrix: Water

Analysis Batch: 864184

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 863876

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanoic acid (PFHpA)	4.00	4.13		ng/L		103	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	4.35		ng/L		109	70 - 150
Perfluorononanoic acid (PFNA)	4.00	4.62		ng/L		115	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	4.69		ng/L		117	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	4.09		ng/L		102	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	4.58		ng/L		115	70 - 140
Perfluorotridecanoic acid (PFTrDA)	4.00	4.52		ng/L		113	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	3.66		ng/L		92	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	4.29		ng/L		121	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.53		ng/L		94	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	4.07		ng/L		112	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	4.22		ng/L		110	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	4.31		ng/L		116	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.84		ng/L		100	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.70		ng/L		96	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.58		ng/L		92	50 - 145
4:2 FTS	7.50	8.26		ng/L		110	70 - 145
6:2 FTS	7.62	8.80		ng/L		115	65 - 155
8:2 FTS	7.68	7.50		ng/L		98	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	4.44		ng/L		111	70 - 145
NMeFOSA	4.00	4.38		ng/L		110	60 - 150
NEtFOSA	4.00	4.12		ng/L		103	65 - 145
NMeFOSAA	4.00	4.17		ng/L		104	50 - 140
NEtFOSAA	4.00	4.34		ng/L		108	70 - 145
NMeFOSE	20.0	19.8		ng/L		99	70 - 145
NEtFOSE	20.0	21.2		ng/L		106	70 - 135
HFPO-DA (GenX)	3.00	3.19		ng/L		106	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	4.19		ng/L		111	65 - 145
PFMPA	4.00	4.60		ng/L		115	55 - 140
PFMBA	4.00	4.31		ng/L		108	60 - 150
NFDHA	4.00	4.20		ng/L		105	50 - 150
9Cl-PF3ONS	3.74	4.10		ng/L		110	70 - 155
11Cl-PF3OUdS	3.78	3.90		ng/L		103	55 - 160
PFEESA	3.57	3.74		ng/L		105	70 - 140
3:3 FTCA	8.00	8.44		ng/L		106	65 - 130
5:3 FTCA	20.0	20.2		ng/L		101	70 - 135
7:3 FTCA	20.0	18.1		ng/L		91	50 - 145

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QC Sample Results

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

Job ID: 320-122984-1

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

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	101		5 - 130
13C5 PFPeA	98.1		40 - 130
13C5 PFHxA	103		40 - 130
13C4 PFHpA	101		40 - 130
13C8 PFOA	89.7		40 - 130
13C9 PFNA	90.5		40 - 130
13C6 PFDA	97.8		40 - 130
13C7 PFUnA	98.6		30 - 130
13C2 PFDoA	77.1		10 - 130
13C2 PFTeDA	86.6		10 - 130
13C3 PFBS	86.9		40 - 135
13C3 PFHxS	99.2		40 - 130
13C8 PFOS	95.2		40 - 130
13C8 FOSA	83.1		40 - 130
d3-NMeFOSAA	91.8		40 - 170
d5-NEtFOSAA	82.0		25 - 135
13C2 4:2 FTS	112		40 - 200
13C2 6:2 FTS	107		40 - 200
13C2 8:2 FTS	121		40 - 300
13C3 HFPO-DA	106		40 - 130
d7-N-MeFOSE-M	80.7		10 - 130
d9-N-EtFOSE-M	76.8		10 - 130
d5-NEtPFOSA	69.2		10 - 130
d3-NMePFOSA	69.0		10 - 130

Lab Sample ID: MB 320-864195/1-A

Matrix: Water

Analysis Batch: 864302

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 864195

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	ND		4.0	1.0	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluorotridecanoic acid (PFTTrDA)	ND		2.0	0.58	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.81	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.53	ng/L		07/18/25 21:23	07/20/25 11:50	1
4:2 FTS	ND		4.0	1.0	ng/L		07/18/25 21:23	07/20/25 11:50	1

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QC Sample Results

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

Job ID: 320-122984-1

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

Lab Sample ID: MB 320-864195/1-A

Matrix: Water

Analysis Batch: 864302

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 864195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	ND		4.0	1.0	ng/L		07/18/25 21:23	07/20/25 11:50	1
8:2 FTS	ND		4.0	1.0	ng/L		07/18/25 21:23	07/20/25 11:50	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
NMeFOSA	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
NEtFOSA	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
NMeFOSAA	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
NEtFOSAA	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
NMeFOSE	ND		10	2.5	ng/L		07/18/25 21:23	07/20/25 11:50	1
NEtFOSE	ND		10	2.5	ng/L		07/18/25 21:23	07/20/25 11:50	1
HFPO-DA (GenX)	ND		1.5	0.39	ng/L		07/18/25 21:23	07/20/25 11:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
PFMPA	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
PFMBA	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
NFDHA	ND		2.0	0.72	ng/L		07/18/25 21:23	07/20/25 11:50	1
9CI-PF3ONS	ND		2.0	0.58	ng/L		07/18/25 21:23	07/20/25 11:50	1
11CI-PF3OUdS	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
PFEESA	ND		2.0	0.50	ng/L		07/18/25 21:23	07/20/25 11:50	1
3:3 FTCA	ND		4.0	1.0	ng/L		07/18/25 21:23	07/20/25 11:50	1
5:3 FTCA	ND		10	2.5	ng/L		07/18/25 21:23	07/20/25 11:50	1
7:3 FTCA	ND		10	2.5	ng/L		07/18/25 21:23	07/20/25 11:50	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	99.9		5 - 130	07/18/25 21:23	07/20/25 11:50	1
13C5 PFPeA	92.1		40 - 130	07/18/25 21:23	07/20/25 11:50	1
13C5 PFHxA	95.8		40 - 130	07/18/25 21:23	07/20/25 11:50	1
13C4 PFHpA	85.9		40 - 130	07/18/25 21:23	07/20/25 11:50	1
13C8 PFOA	106		40 - 130	07/18/25 21:23	07/20/25 11:50	1
13C9 PFNA	97.4		40 - 130	07/18/25 21:23	07/20/25 11:50	1
13C6 PFDA	106		40 - 130	07/18/25 21:23	07/20/25 11:50	1
13C7 PFUnA	107		30 - 130	07/18/25 21:23	07/20/25 11:50	1
13C2 PFDoA	97.1		10 - 130	07/18/25 21:23	07/20/25 11:50	1
13C2 PFTeDA	96.4		10 - 130	07/18/25 21:23	07/20/25 11:50	1
13C3 PFBS	105		40 - 135	07/18/25 21:23	07/20/25 11:50	1
13C3 PFHxS	104		40 - 130	07/18/25 21:23	07/20/25 11:50	1
13C8 PFOS	97.0		40 - 130	07/18/25 21:23	07/20/25 11:50	1
13C8 FOSA	88.7		40 - 130	07/18/25 21:23	07/20/25 11:50	1
d3-NMeFOSAA	122		40 - 170	07/18/25 21:23	07/20/25 11:50	1
d5-NEtFOSAA	122		25 - 135	07/18/25 21:23	07/20/25 11:50	1
13C2 4:2 FTS	109		40 - 200	07/18/25 21:23	07/20/25 11:50	1
13C2 6:2 FTS	116		40 - 200	07/18/25 21:23	07/20/25 11:50	1
13C2 8:2 FTS	134		40 - 300	07/18/25 21:23	07/20/25 11:50	1
13C3 HFPO-DA	74.3		40 - 130	07/18/25 21:23	07/20/25 11:50	1
d7-N-MeFOSE-M	86.1		10 - 130	07/18/25 21:23	07/20/25 11:50	1
d9-N-EtFOSE-M	88.1		10 - 130	07/18/25 21:23	07/20/25 11:50	1
d5-NEtPFOSA	62.4		10 - 130	07/18/25 21:23	07/20/25 11:50	1
d3-NMePFOSA	64.4		10 - 130	07/18/25 21:23	07/20/25 11:50	1

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QC Sample Results

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

Job ID: 320-122984-1

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

Lab Sample ID: LCS 320-864195/3-A

Matrix: Water

Analysis Batch: 864302

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 864195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	85.2		ng/L		106	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	40.0		ng/L		100	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	39.0		ng/L		97	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	40.3		ng/L		101	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	37.5		ng/L		94	70 - 150
Perfluorononanoic acid (PFNA)	40.0	39.5		ng/L		99	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	41.2		ng/L		103	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	39.4		ng/L		98	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	43.4		ng/L		109	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	40.0	47.0		ng/L		118	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	38.6		ng/L		96	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	37.2		ng/L		105	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	35.5		ng/L		94	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	37.9		ng/L		104	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	36.9		ng/L		97	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	35.5		ng/L		95	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	38.6		ng/L		100	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	38.3		ng/L		99	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	32.0		ng/L		82	50 - 145
4:2 FTS	75.0	73.9		ng/L		99	70 - 145
6:2 FTS	76.2	81.3		ng/L		107	65 - 155
8:2 FTS	76.8	69.9		ng/L		91	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	39.8		ng/L		100	70 - 145
NMeFOSA	40.0	37.9		ng/L		95	60 - 150
NEtFOSA	40.0	38.4		ng/L		96	65 - 145
NMeFOSAA	40.0	39.8		ng/L		100	50 - 140
NEtFOSAA	40.0	38.7		ng/L		97	70 - 145
NMeFOSE	200	203		ng/L		101	70 - 145
NEtFOSE	200	196		ng/L		98	70 - 135
HFPO-DA (GenX)	30.0	29.9		ng/L		100	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	41.3		ng/L		109	65 - 145
PFMPA	40.0	39.4		ng/L		98	55 - 140
PFMBA	40.0	42.4		ng/L		106	60 - 150
NFDHA	40.0	47.5		ng/L		119	50 - 150
9CI-PF3ONS	37.4	41.1		ng/L		110	70 - 155
11CI-PF3OUdS	37.8	46.3		ng/L		123	55 - 160
PFEESA	35.7	34.9		ng/L		98	70 - 140
3:3 FTCA	80.0	87.1		ng/L		109	65 - 130

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QC Sample Results

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

Job ID: 320-122984-1

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

Lab Sample ID: LCS 320-864195/3-A

Matrix: Water

Analysis Batch: 864302

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 864195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
5:3 FTCA	200	232		ng/L		116	70 - 135
7:3 FTCA	200	205		ng/L		102	50 - 145

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	92.1		5 - 130
13C5 PFPeA	91.6		40 - 130
13C5 PFHxA	94.6		40 - 130
13C4 PFHpA	94.5		40 - 130
13C8 PFOA	102		40 - 130
13C9 PFNA	100		40 - 130
13C6 PFDA	95.9		40 - 130
13C7 PFUnA	96.9		30 - 130
13C2 PFDoA	83.0		10 - 130
13C2 PFTeDA	91.5		10 - 130
13C3 PFBS	96.5		40 - 135
13C3 PFHxS	97.8		40 - 130
13C8 PFOS	88.2		40 - 130
13C8 FOSA	85.2		40 - 130
d3-NMeFOSAA	118		40 - 170
d5-NEtFOSAA	118		25 - 135
13C2 4:2 FTS	103		40 - 200
13C2 6:2 FTS	110		40 - 200
13C2 8:2 FTS	130		40 - 300
13C3 HFPO-DA	81.2		40 - 130
d7-N-MeFOSE-M	85.0		10 - 130
d9-N-EtFOSE-M	85.6		10 - 130
d5-NEtPFOSA	64.6		10 - 130
d3-NMePFOSA	67.4		10 - 130

Lab Sample ID: LCSD 320-864195/4-A

Matrix: Water

Analysis Batch: 864302

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 864195

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	80.0	90.4		ng/L		113	70 - 140	6	30
Perfluoropentanoic acid (PFPeA)	40.0	42.7		ng/L		107	65 - 135	7	30
Perfluorohexanoic acid (PFHxA)	40.0	41.3		ng/L		103	70 - 145	6	30
Perfluoroheptanoic acid (PFHpA)	40.0	41.2		ng/L		103	70 - 150	2	30
Perfluorooctanoic acid (PFOA)	40.0	36.7		ng/L		92	70 - 150	2	30
Perfluorononanoic acid (PFNA)	40.0	41.7		ng/L		104	70 - 150	6	30
Perfluorodecanoic acid (PFDA)	40.0	42.0		ng/L		105	70 - 140	2	30
Perfluoroundecanoic acid (PFUnA)	40.0	40.1		ng/L		100	70 - 145	2	30
Perfluorododecanoic acid (PFDoA)	40.0	43.6		ng/L		109	70 - 140	0	30
Perfluorotridecanoic acid (PFTTrDA)	40.0	43.9		ng/L		110	65 - 140	7	30
Perfluorotetradecanoic acid (PFTeDA)	40.0	38.5		ng/L		96	60 - 140	0	30

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QC Sample Results

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

Job ID: 320-122984-1

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

Lab Sample ID: LCSD 320-864195/4-A

Matrix: Water

Analysis Batch: 864302

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 864195

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanesulfonic acid (PFBS)	35.5	39.7		ng/L		112	60 - 145	7	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	35.2		ng/L		94	65 - 140	1	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	36.3		ng/L		99	65 - 145	4	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	37.6		ng/L		99	70 - 150	2	30
Perfluorooctanesulfonic acid (PFOS)	37.2	35.7		ng/L		96	55 - 150	1	30
Perfluorononanesulfonic acid (PFNS)	38.5	38.6		ng/L		100	65 - 145	0	30
Perfluorodecanesulfonic acid (PFDS)	38.6	37.1		ng/L		96	60 - 145	3	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	27.4		ng/L		71	50 - 145	15	30
4:2 FTS	75.0	75.2		ng/L		100	70 - 145	2	30
6:2 FTS	76.2	88.3		ng/L		116	65 - 155	8	30
8:2 FTS	76.8	74.4		ng/L		97	60 - 150	6	30
Perfluorooctanesulfonamide (PFOSA)	40.0	42.1		ng/L		105	70 - 145	5	30
NMeFOSA	40.0	39.7		ng/L		99	60 - 150	5	30
NEtFOSA	40.0	39.7		ng/L		99	65 - 145	3	30
NMeFOSAA	40.0	41.9		ng/L		105	50 - 140	5	30
NEtFOSAA	40.0	40.0		ng/L		100	70 - 145	3	30
NMeFOSE	200	206		ng/L		103	70 - 145	2	30
NEtFOSE	200	195		ng/L		97	70 - 135	1	30
HFPO-DA (GenX)	30.0	31.6		ng/L		105	70 - 140	6	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	41.9		ng/L		111	65 - 145	2	30
PFMPA	40.0	43.0		ng/L		108	55 - 140	9	30
PFMBA	40.0	44.7		ng/L		112	60 - 150	5	30
NFDHA	40.0	50.3		ng/L		126	50 - 150	6	30
9CI-PF3ONS	37.4	41.4		ng/L		111	70 - 155	1	30
11CI-PF3OUdS	37.8	42.6		ng/L		113	55 - 160	8	30
PFEESA	35.7	36.5		ng/L		102	70 - 140	5	30
3:3 FTCA	80.0	92.1		ng/L		115	65 - 130	6	30
5:3 FTCA	200	226		ng/L		113	70 - 135	3	30
7:3 FTCA	200	202		ng/L		101	50 - 145	1	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	95.0		5 - 130
13C5 PFPeA	90.0		40 - 130
13C5 PFHxA	96.5		40 - 130
13C4 PFHpA	93.6		40 - 130
13C8 PFOA	107		40 - 130
13C9 PFNA	97.2		40 - 130
13C6 PFDA	96.2		40 - 130
13C7 PFUnA	96.5		30 - 130
13C2 PFDoA	76.7		10 - 130
13C2 PFTeDA	79.0		10 - 130

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QC Sample Results

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

Job ID: 320-122984-1

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

Lab Sample ID: LCSD 320-864195/4-A

Matrix: Water

Analysis Batch: 864302

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 864195

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C3 PFBS	90.8		40 - 135
13C3 PFHxS	99.1		40 - 130
13C8 PFOS	89.7		40 - 130
13C8 FOSA	77.1		40 - 130
d3-NMeFOSAA	116		40 - 170
d5-NEtFOSAA	108		25 - 135
13C2 4:2 FTS	103		40 - 200
13C2 6:2 FTS	98.9		40 - 200
13C2 8:2 FTS	126		40 - 300
13C3 HFPO-DA	80.1		40 - 130
d7-N-MeFOSE-M	73.3		10 - 130
d9-N-EtFOSE-M	75.9		10 - 130
d5-NEtPFOSA	58.0		10 - 130
d3-NMePFOSA	60.8		10 - 130

Lab Sample ID: LLCS 320-864195/2-A

Matrix: Water

Analysis Batch: 864302

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 864195

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	8.99		ng/L		112	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	4.04		ng/L		101	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	4.06		ng/L		101	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	4.03		ng/L		101	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	3.80		ng/L		95	70 - 150
Perfluorononanoic acid (PFNA)	4.00	4.32		ng/L		108	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	4.40		ng/L		110	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	3.99		ng/L		100	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	4.42		ng/L		110	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	4.00	4.42		ng/L		111	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	3.65		ng/L		91	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	4.15		ng/L		117	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.44		ng/L		91	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.91		ng/L		107	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	3.59		ng/L		94	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	3.69		ng/L		99	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.59		ng/L		93	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.48		ng/L		90	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.08		ng/L		79	50 - 145
4:2 FTS	7.50	7.67		ng/L		102	70 - 145

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QC Sample Results

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

Job ID: 320-122984-1

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

Lab Sample ID: LLCS 320-864195/2-A

Matrix: Water

Analysis Batch: 864302

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 864195

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
6:2 FTS	7.62	8.29		ng/L		109	65 - 155
8:2 FTS	7.68	7.26		ng/L		95	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	4.08		ng/L		102	70 - 145
NMeFOSA	4.00	3.68		ng/L		92	60 - 150
NEtFOSA	4.00	3.63		ng/L		91	65 - 145
NMeFOSAA	4.00	4.16		ng/L		104	50 - 140
NEtFOSAA	4.00	3.86		ng/L		96	70 - 145
NMeFOSE	20.0	19.4		ng/L		97	70 - 145
NEtFOSE	20.0	18.6		ng/L		93	70 - 135
HFPO-DA (GenX)	3.00	2.99		ng/L		100	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	4.36		ng/L		115	65 - 145
PFMPA	4.00	3.82		ng/L		96	55 - 140
PFMBA	4.00	4.14		ng/L		103	60 - 150
NFDHA	4.00	5.05		ng/L		126	50 - 150
9Cl-PF3ONS	3.74	4.24		ng/L		114	70 - 155
11Cl-PF3OUdS	3.78	4.81		ng/L		127	55 - 160
PFEESA	3.57	3.36		ng/L		94	70 - 140
3:3 FTCA	8.00	8.79		ng/L		110	65 - 130
5:3 FTCA	20.0	21.3		ng/L		107	70 - 135
7:3 FTCA	20.0	20.6		ng/L		103	50 - 145

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4 PFBA	94.3		5 - 130
13C5 PFPeA	93.6		40 - 130
13C5 PFHxA	98.0		40 - 130
13C4 PFHpA	91.8		40 - 130
13C8 PFOA	101		40 - 130
13C9 PFNA	96.8		40 - 130
13C6 PFDA	94.6		40 - 130
13C7 PFUnA	104		30 - 130
13C2 PFDoA	87.4		10 - 130
13C2 PFTeDA	98.2		10 - 130
13C3 PFBS	90.6		40 - 135
13C3 PFHxS	96.3		40 - 130
13C8 PFOS	93.5		40 - 130
13C8 FOSA	88.0		40 - 130
d3-NMeFOSAA	122		40 - 170
d5-NEtFOSAA	123		25 - 135
13C2 4:2 FTS	101		40 - 200
13C2 6:2 FTS	111		40 - 200
13C2 8:2 FTS	132		40 - 300
13C3 HFPO-DA	78.2		40 - 130
d7-N-MeFOSE-M	87.3		10 - 130
d9-N-EtFOSE-M	89.4		10 - 130
d5-NEtPFOSA	64.1		10 - 130
d3-NMePFOSA	66.4		10 - 130

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QC Sample Results

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

Job ID: 320-122984-1

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

Lab Sample ID: MB 320-864678/1-A

Matrix: Water

Analysis Batch: 864766

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 864678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.0	1.0	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.58	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.81	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.53	ng/L		07/21/25 19:57	07/22/25 11:54	1
6:2 FTS	ND		4.0	1.0	ng/L		07/21/25 19:57	07/22/25 11:54	1
8:2 FTS	ND		4.0	1.0	ng/L		07/21/25 19:57	07/22/25 11:54	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
NMeFOSA	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
NEtFOSA	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
NMeFOSAA	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
NEtFOSAA	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
NMeFOSE	ND		10	2.5	ng/L		07/21/25 19:57	07/22/25 11:54	1
NEtFOSE	ND		10	2.5	ng/L		07/21/25 19:57	07/22/25 11:54	1
HFPO-DA (GenX)	ND		1.5	0.39	ng/L		07/21/25 19:57	07/22/25 11:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
NFDHA	ND		2.0	0.72	ng/L		07/21/25 19:57	07/22/25 11:54	1
9Cl-PF3ONS	ND		2.0	0.58	ng/L		07/21/25 19:57	07/22/25 11:54	1
11Cl-PF3OUdS	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
PFEESA	ND		2.0	0.50	ng/L		07/21/25 19:57	07/22/25 11:54	1
5:3 FTCA	ND		10	2.5	ng/L		07/21/25 19:57	07/22/25 11:54	1
7:3 FTCA	ND		10	2.5	ng/L		07/21/25 19:57	07/22/25 11:54	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	81.5		5 - 130	07/21/25 19:57	07/22/25 11:54	1
13C5 PFHxA	109		40 - 130	07/21/25 19:57	07/22/25 11:54	1
13C4 PFHpA	104		40 - 130	07/21/25 19:57	07/22/25 11:54	1
13C8 PFOA	107		40 - 130	07/21/25 19:57	07/22/25 11:54	1
13C9 PFNA	96.7		40 - 130	07/21/25 19:57	07/22/25 11:54	1
13C6 PFDA	104		40 - 130	07/21/25 19:57	07/22/25 11:54	1
13C7 PFUnA	104		30 - 130	07/21/25 19:57	07/22/25 11:54	1
13C2 PFDoA	101		10 - 130	07/21/25 19:57	07/22/25 11:54	1

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QC Sample Results

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

Job ID: 320-122984-1

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

Lab Sample ID: MB 320-864678/1-A

Matrix: Water

Analysis Batch: 864766

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 864678

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	106		10 - 130	07/21/25 19:57	07/22/25 11:54	1
13C3 PFBS	95.5		40 - 135	07/21/25 19:57	07/22/25 11:54	1
13C3 PFHxS	100		40 - 130	07/21/25 19:57	07/22/25 11:54	1
13C8 PFOS	103		40 - 130	07/21/25 19:57	07/22/25 11:54	1
13C8 FOSA	83.4		40 - 130	07/21/25 19:57	07/22/25 11:54	1
d3-NMeFOSAA	128		40 - 170	07/21/25 19:57	07/22/25 11:54	1
d5-NEtFOSAA	127		25 - 135	07/21/25 19:57	07/22/25 11:54	1
13C2 6:2 FTS	119		40 - 200	07/21/25 19:57	07/22/25 11:54	1
13C2 8:2 FTS	116		40 - 300	07/21/25 19:57	07/22/25 11:54	1
13C3 HFPO-DA	102		40 - 130	07/21/25 19:57	07/22/25 11:54	1
d7-N-MeFOSE-M	89.7		10 - 130	07/21/25 19:57	07/22/25 11:54	1
d9-N-EtFOSE-M	100		10 - 130	07/21/25 19:57	07/22/25 11:54	1
d5-NEtPFOSA	78.7		10 - 130	07/21/25 19:57	07/22/25 11:54	1
d3-NMePFOSA	81.7		10 - 130	07/21/25 19:57	07/22/25 11:54	1

Lab Sample ID: LCS 320-864678/3-A

Matrix: Water

Analysis Batch: 864766

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 864678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	86.9		ng/L		109	70 - 140
Perfluorohexanoic acid (PFHxA)	40.0	38.9		ng/L		97	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	39.5		ng/L		99	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	34.5		ng/L		86	70 - 150
Perfluorononanoic acid (PFNA)	40.0	42.1		ng/L		105	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	40.2		ng/L		101	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	37.5		ng/L		94	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	40.2		ng/L		100	70 - 140
Perfluorotridecanoic acid (PFTrDA)	40.0	36.1		ng/L		90	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	34.0		ng/L		85	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	39.6		ng/L		112	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	35.4		ng/L		94	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.9		ng/L		98	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	31.8		ng/L		83	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	32.8		ng/L		88	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	37.4		ng/L		97	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	37.8		ng/L		98	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	32.9		ng/L		85	50 - 145
6:2 FTS	76.2	76.2		ng/L		100	65 - 155
8:2 FTS	76.8	71.5		ng/L		93	60 - 150

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QC Sample Results

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

Job ID: 320-122984-1

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

Lab Sample ID: LCS 320-864678/3-A

Matrix: Water

Analysis Batch: 864766

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 864678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (PFOSA)	40.0	40.3		ng/L		101	70 - 145
NMeFOSA	40.0	39.1		ng/L		98	60 - 150
NEtFOSA	40.0	42.5		ng/L		106	65 - 145
NMeFOSAA	40.0	38.7		ng/L		97	50 - 140
NEtFOSAA	40.0	39.0		ng/L		97	70 - 145
NMeFOSE	200	198		ng/L		99	70 - 145
NEtFOSE	200	179		ng/L		90	70 - 135
HFPO-DA (GenX)	30.0	27.5		ng/L		92	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	37.4		ng/L		99	65 - 145
NFDHA	40.0	38.0		ng/L		95	50 - 150
9Cl-PF3ONS	37.4	35.5		ng/L		95	70 - 155
11Cl-PF3OUdS	37.8	44.7		ng/L		118	55 - 160
PFEESA	35.7	31.6		ng/L		89	70 - 140
5:3 FTCA	200	185		ng/L		93	70 - 135
7:3 FTCA	200	168		ng/L		84	50 - 145

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	87.4		5 - 130
13C5 PFHxA	94.6		40 - 130
13C4 PFHpA	92.4		40 - 130
13C8 PFOA	101		40 - 130
13C9 PFNA	96.7		40 - 130
13C6 PFDA	102		40 - 130
13C7 PFUnA	117		30 - 130
13C2 PFDoA	116		10 - 130
13C2 PFTeDA	116		10 - 130
13C3 PFBS	92.4		40 - 135
13C3 PFHxS	98.4		40 - 130
13C8 PFOS	107		40 - 130
13C8 FOSA	90.5		40 - 130
d3-NMeFOSAA	128		40 - 170
d5-NEtFOSAA	134		25 - 135
13C2 6:2 FTS	107		40 - 200
13C2 8:2 FTS	114		40 - 300
13C3 HFPO-DA	93.8		40 - 130
d7-N-MeFOSE-M	108		10 - 130
d9-N-EtFOSE-M	117		10 - 130
d5-NEtPFOSA	82.8		10 - 130
d3-NMePFOSA	85.6		10 - 130

Lab Sample ID: LCSD 320-864678/4-A

Matrix: Water

Analysis Batch: 864766

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 864678

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Perfluorobutanoic acid (PFBA)	80.0	82.6		ng/L		103	70 - 140	5		30
Perfluorohexanoic acid (PFHxA)	40.0	40.4		ng/L		101	70 - 145	4		30

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QC Sample Results

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

Job ID: 320-122984-1

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

Lab Sample ID: LCSD 320-864678/4-A

Matrix: Water

Analysis Batch: 864766

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 864678

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroheptanoic acid (PFHpA)	40.0	37.2		ng/L		93	70 - 150	6	30
Perfluorooctanoic acid (PFOA)	40.0	38.2		ng/L		95	70 - 150	10	30
Perfluorononanoic acid (PFNA)	40.0	41.7		ng/L		104	70 - 150	1	30
Perfluorodecanoic acid (PFDA)	40.0	38.1		ng/L		95	70 - 140	5	30
Perfluoroundecanoic acid (PFUnA)	40.0	37.8		ng/L		94	70 - 145	1	30
Perfluorododecanoic acid (PFDoA)	40.0	39.1		ng/L		98	70 - 140	3	30
Perfluorotridecanoic acid (PFTrDA)	40.0	36.0		ng/L		90	65 - 140	0	30
Perfluorotetradecanoic acid (PFTeDA)	40.0	38.5		ng/L		96	60 - 140	12	30
Perfluorobutanesulfonic acid (PFBS)	35.5	40.7		ng/L		115	60 - 145	3	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	35.4		ng/L		94	65 - 140	0	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.6		ng/L		98	65 - 145	1	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	33.7		ng/L		88	70 - 150	6	30
Perfluorooctanesulfonic acid (PFOS)	37.2	34.7		ng/L		93	55 - 150	6	30
Perfluorononanesulfonic acid (PFNS)	38.5	36.8		ng/L		96	65 - 145	2	30
Perfluorodecanesulfonic acid (PFDS)	38.6	36.7		ng/L		95	60 - 145	3	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	30.7		ng/L		79	50 - 145	7	30
6:2 FTS	76.2	72.8		ng/L		96	65 - 155	5	30
8:2 FTS	76.8	70.1		ng/L		91	60 - 150	2	30
Perfluorooctanesulfonamide (PFOSA)	40.0	39.7		ng/L		99	70 - 145	2	30
NMeFOSA	40.0	39.9		ng/L		100	60 - 150	2	30
NEtFOSA	40.0	40.9		ng/L		102	65 - 145	4	30
NMeFOSAA	40.0	38.2		ng/L		96	50 - 140	1	30
NEtFOSAA	40.0	37.7		ng/L		94	70 - 145	3	30
NMeFOSE	200	207		ng/L		104	70 - 145	5	30
NEtFOSE	200	191		ng/L		95	70 - 135	6	30
HFPO-DA (GenX)	30.0	29.0		ng/L		97	70 - 140	5	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	38.6		ng/L		102	65 - 145	3	30
NFDHA	40.0	40.0		ng/L		100	50 - 150	5	30
9Cl-PF3ONS	37.4	37.8		ng/L		101	70 - 155	6	30
11Cl-PF3OUdS	37.8	42.0		ng/L		111	55 - 160	6	30
PFEESA	35.7	32.1		ng/L		90	70 - 140	1	30
5:3 FTCA	200	188		ng/L		94	70 - 135	1	30
7:3 FTCA	200	176		ng/L		88	50 - 145	5	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C4 PFBA	88.3		5 - 130
13C5 PFHxA	101		40 - 130
13C4 PFHpA	99.2		40 - 130

Eurofins Sacramento

QC Sample Results

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

Job ID: 320-122984-1

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

Lab Sample ID: LCSD 320-864678/4-A

Matrix: Water

Analysis Batch: 864766

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 864678

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C8 PFOA	101		40 - 130
13C9 PFNA	99.4		40 - 130
13C6 PFDA	108		40 - 130
13C7 PFUnA	121		30 - 130
13C2 PFDoA	119		10 - 130
13C2 PFTeDA	113		10 - 130
13C3 PFBS	91.0		40 - 135
13C3 PFHxS	101		40 - 130
13C8 PFOS	100		40 - 130
13C8 FOSA	85.7		40 - 130
d3-NMeFOSAA	126		40 - 170
d5-NEtFOSAA	127		25 - 135
13C2 6:2 FTS	113		40 - 200
13C2 8:2 FTS	113		40 - 300
13C3 HFPO-DA	97.3		40 - 130
d7-N-MeFOSE-M	92.4		10 - 130
d9-N-EtFOSE-M	99.5		10 - 130
d5-NEtPFOSA	78.7		10 - 130
d3-NMePFOSA	81.6		10 - 130

Lab Sample ID: LLCS 320-864678/2-A

Matrix: Water

Analysis Batch: 864766

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 864678

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	7.78		ng/L		97	70 - 140
Perfluorohexanoic acid (PFHxA)	4.00	3.31		ng/L		83	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	3.62		ng/L		90	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	3.85		ng/L		96	70 - 150
Perfluorononanoic acid (PFNA)	4.00	4.59		ng/L		115	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	3.50		ng/L		87	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	3.57		ng/L		89	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	3.86		ng/L		97	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	4.00	3.37		ng/L		84	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	2.94		ng/L		74	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.68		ng/L		103	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.35		ng/L		89	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.16		ng/L		87	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	2.93		ng/L		77	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	3.47		ng/L		93	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.25		ng/L		84	65 - 145

Eurofins Sacramento

QC Sample Results

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

Job ID: 320-122984-1

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

Lab Sample ID: LLCS 320-864678/2-A

Matrix: Water

Analysis Batch: 864766

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 864678

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorodecanesulfonic acid (PFDS)	3.86	3.13		ng/L		81	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	2.52		ng/L		65	50 - 145
6:2 FTS	7.62	6.26		ng/L		82	65 - 155
8:2 FTS	7.68	6.26		ng/L		82	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	3.63		ng/L		91	70 - 145
NMeFOSA	4.00	3.46		ng/L		87	60 - 150
NEtFOSA	4.00	3.75		ng/L		94	65 - 145
NMeFOSAA	4.00	3.42		ng/L		85	50 - 140
NEtFOSAA	4.00	3.22		ng/L		81	70 - 145
NMeFOSE	20.0	17.6		ng/L		88	70 - 145
NEtFOSE	20.0	16.4		ng/L		82	70 - 135
HFPO-DA (GenX)	3.00	2.46		ng/L		82	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.72		ng/L		98	65 - 145
NFDHA	4.00	3.73		ng/L		93	50 - 150
9Cl-PF3ONS	3.74	3.25		ng/L		87	70 - 155
11Cl-PF3OUdS	3.78	3.65		ng/L		97	55 - 160
PFEESA	3.57	3.01		ng/L		84	70 - 140
5:3 FTCA	20.0	15.6		ng/L		78	70 - 135
7:3 FTCA	20.0	14.7		ng/L		74	50 - 145

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	LLCS Limits
13C4 PFBA	84.8		5 - 130
13C5 PFHxA	101		40 - 130
13C4 PFHpA	100		40 - 130
13C8 PFOA	103		40 - 130
13C9 PFNA	92.3		40 - 130
13C6 PFDA	106		40 - 130
13C7 PFUnA	111		30 - 130
13C2 PFDoA	104		10 - 130
13C2 PFTeDA	104		10 - 130
13C3 PFBS	94.3		40 - 135
13C3 PFHxS	102		40 - 130
13C8 PFOS	103		40 - 130
13C8 FOSA	85.6		40 - 130
d3-NMeFOSAA	122		40 - 170
d5-NEtFOSAA	126		25 - 135
13C2 6:2 FTS	119		40 - 200
13C2 8:2 FTS	117		40 - 300
13C3 HFPO-DA	99.1		40 - 130
d7-N-MeFOSE-M	91.8		10 - 130
d9-N-EtFOSE-M	97.8		10 - 130
d5-NEtPFOSA	72.2		10 - 130
d3-NMePFOSA	76.7		10 - 130

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-122984-1

GC Semi VOA

Prep Batch: 591774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-122984-1	SMW-5D	Total/NA	Water	8151A	
320-122984-2	SMW-5S	Total/NA	Water	8151A	
MB 570-591774/1-A	Method Blank	Total/NA	Water	8151A	
LCS 570-591774/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 570-591774/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 594682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-122984-1	SMW-5D	Total/NA	Water	8151A	591774
320-122984-2	SMW-5S	Total/NA	Water	8151A	591774
MB 570-591774/1-A	Method Blank	Total/NA	Water	8151A	591774
LCS 570-591774/2-A	Lab Control Sample	Total/NA	Water	8151A	591774
LCSD 570-591774/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	591774

LCMS

Prep Batch: 863876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-122984-1	SMW-5D	Total/NA	Water	1633	
MB 320-863876/1-A	Method Blank	Total/NA	Water	1633	
LCS 320-863876/3-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 320-863876/2-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 864184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-122984-1	SMW-5D	Total/NA	Water	1633	863876
MB 320-863876/1-A	Method Blank	Total/NA	Water	1633	863876
LCS 320-863876/3-A	Lab Control Sample	Total/NA	Water	1633	863876
LLCS 320-863876/2-A	Lab Control Sample	Total/NA	Water	1633	863876

Prep Batch: 864195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-122984-2	SMW-5S	Total/NA	Water	1633	
MB 320-864195/1-A	Method Blank	Total/NA	Water	1633	
LCS 320-864195/3-A	Lab Control Sample	Total/NA	Water	1633	
LCSD 320-864195/4-A	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 320-864195/2-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 864302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-122984-2	SMW-5S	Total/NA	Water	1633	864195
MB 320-864195/1-A	Method Blank	Total/NA	Water	1633	864195
LCS 320-864195/3-A	Lab Control Sample	Total/NA	Water	1633	864195
LCSD 320-864195/4-A	Lab Control Sample Dup	Total/NA	Water	1633	864195
LLCS 320-864195/2-A	Lab Control Sample	Total/NA	Water	1633	864195

Prep Batch: 864678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-122984-2 - RE	SMW-5S	Total/NA	Water	1633	
MB 320-864678/1-A	Method Blank	Total/NA	Water	1633	
LCS 320-864678/3-A	Lab Control Sample	Total/NA	Water	1633	

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-122984-1

LCMS (Continued)

Prep Batch: 864678 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 320-864678/4-A	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 320-864678/2-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 864766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-122984-2 - RE	SMW-5S	Total/NA	Water	1633	864678
MB 320-864678/1-A	Method Blank	Total/NA	Water	1633	864678
LCS 320-864678/3-A	Lab Control Sample	Total/NA	Water	1633	864678
LCSD 320-864678/4-A	Lab Control Sample Dup	Total/NA	Water	1633	864678
LLCS 320-864678/2-A	Lab Control Sample	Total/NA	Water	1633	864678

Lab Chronicle

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

Job ID: 320-122984-1

Client Sample ID: SMW-5D

Lab Sample ID: 320-122984-1

Date Collected: 06/24/25 10:00

Matrix: Water

Date Received: 06/28/25 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			1042.3 mL	5 mL	591774	07/01/25 11:52	ZE2W	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	594682	07/09/25 09:16	ZE2W	EET CAL 4
Total/NA	Prep	1633			146.9 mL	5.0 mL	863876	07/18/25 04:11	BMS	EET SAC
Total/NA	Analysis	1633		1	1 mL	1 mL	864184	07/19/25 08:27	N1K	EET SAC

Client Sample ID: SMW-5S

Lab Sample ID: 320-122984-2

Date Collected: 06/25/25 10:00

Matrix: Water

Date Received: 06/28/25 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			1025.4 mL	5 mL	591774	07/01/25 11:52	ZE2W	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	594682	07/09/25 09:38	ZE2W	EET CAL 4
Total/NA	Prep	1633			185.7 mL	5.0 mL	864195	07/18/25 21:23	JS	EET SAC
Total/NA	Analysis	1633		1			864302	07/20/25 13:45	C1P	EET SAC
Total/NA	Prep	1633	RE		12.5 mL	5.0 mL	864678	07/21/25 19:57	CJS	EET SAC
Total/NA	Analysis	1633	RE	1			864766	07/22/25 13:17	K1S	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 Landfill, Yakima County

Job ID: 320-122984-1

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

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C916	10-11-25

Method Summary

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

Job ID: 320-122984-1

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 Landfill, Yakima County

Job ID: 320-122984-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-122984-1	SMW-5D	Water	06/24/25 10:00	06/28/25 09:15
320-122984-2	SMW-5S	Water	06/25/25 10:00	06/28/25 09:15

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

Ver 01/16/2019



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc 320

122984

Tracking # 8823 7075 7391

Job _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations
File in the job folder with the COC

Therm ID 212 Corr Factor (+/-) _____ °C

Ice _____ Wet _____ Gel _____ Other _____

Cooler Custody Seal 2697808 / 2697809

Cooler ID _____

Temp Observed 2.2 °C Corrected 2.2 °C

From Temp Blank ☐ Sandwich ☒ Sidewall ☐**Opening/Processing The Shipment** Yes No NACooler compromised/tampered with? ☐ ☒ ☐Cooler Temperature is acceptable? ☒ ☐ ☐Frozen samples show signs of thaw? ☐ ☐ ☒

Initials M Date 6/28/25

Unpacking/Labeling The Samples Yes No NAContainers are not broken or leaking? ☒ ☐ ☐Samples compromised/tampered with? ☐ ☒ ☐COC is complete w/o discrepancies ☒ ☐ ☐Sample custody seal? ☐ ☐ ☒Sample containers have legible labels? ☒ ☐ ☐Sample date/times are provided? ☒ ☐ ☐Appropriate containers are used? ☒ ☐ ☐Sample bottles are completely filled? ☒ ☐ ☐Sample preservatives verified? ☐ ☐ ☒Is the Field Sampler's name on COC? ☒ ☐ ☐Samples w/o discrepancies? ☒ ☐ ☐Zero headspace?* ☐ ☐ ☒Alkalinity has no headspace? ☐ ☐ ☒Perchlorate has headspace?
(Methods 314, 331, 6850) ☐ ☐ ☒Multiphasic samples are not present? ☒ ☐ ☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials M Date 6/28/25

Notes: _____

Trizma Lot #(s) _____

Ammonium

Acetate Lot #(s) _____

Login Completion Yes No NAReceipt Temperature on COC? ☒ ☐ ☐NCM Filed? ☐ ☐ ☒Samples received within hold time? ☒ ☐ ☐Log Release checked in TALS? ☒ ☐ ☐

Initials M Date 6/28/25



Loc: 320

122984

[illegible]

Login Sample Receipt Checklist

Client: Mott MacDonald Consultants, Inc.

Job Number: 320-122984-1

Login Number: 122984

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 07/01/25 10:41 AM

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	2730729
Sample custody seals, if present, are intact.	N/A	
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	2.1
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	

August 15, 2025

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

Re: Results of June 24, 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 June 24, 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. Samples 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 acetone (6.48 ug/L) and PCE (0.84 ug/L). Results for the June 2025 sampling and an excerpt of the laboratory analytical report are provided in the attached summary.

The O.L. Luther well has been sampled 12 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). Acetone was detected above the lab reporting limit in April 2019 (13.9 ug/L) and June 2025 (6.48 ug/L) and does not have an applicable MCL. TCE has been regularly historically detected at the O.L. Luther well and was not detected in June 2025. No other VOCs have been regularly detected historically at the O.L. Luther well.¹

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 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.

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 September 2025. We will coordinate sampling approximately one week in advance.

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

Sincerely,

Mott MacDonald

Eric Cutler, LHG

Senior Project Manager/Hydrogeologist

eric.cutler@mottmac.com

(650) 823-4947

Attachments:

Table 1. Summary of June 2025 Analytical Results, Volatile Organic Compounds
Excerpt of ARI Laboratory Data Report 25F0554 August 14, 2025

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

Closed Snipes Mountain Landfill, Yakima County, Washington

Constituent	Units	MCL	O.L. Luther Well
			6/24/2025
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		6.48
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 June 2025 Analytical Results, Volatile Organic Compounds

Closed Snipes Mountain Landfill, Yakima County, Washington

Constituent	Units	MCL	O.L. Luther Well
			6/24/2025
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		0.2U
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	0.84
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	0.2U
Trichlorofluoromethane (CFC 11)	ug/L		0.2U
Vinyl Acetate	ug/L		0.2U
Vinyl Chloride	ug/L	2	0.2U

Notes:

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

Bold, boxed 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



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

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT3 Analyst: FCL

Sampled: 06/24/2025 15:00

Analyzed: 07/01/2025 18:01

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNG0018 Sample Size: 10 mL
Prepared: 07/01/2025 Final Volume: 10 mL

Extract ID: 25F0554-06 E

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	6.48	ug/L	
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



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/24/2025 15:00

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 18:01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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	0.84	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



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/24/2025 15:00

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 18:01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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 %	107	%	
Surrogate: Toluene-d8				80-120 %	97.1	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	94.6	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	101	%	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 06/24/2025 15:00

Analyzed: 07/17/2025 20:58

Sample Preparation: Preparation Method: WMN (No Prep) Sample Size: 25 mL
Preparation Batch: BNG0187 Final Volume: 25 mL
Prepared: 07/10/2025 Extract ID: 25F0554-06 G 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	36.4	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	10.9	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	7.15	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	20.0	mg/L	



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Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B
Instrument: ICPMS1 Analyst: HAL
Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
Preparation Batch: BNG0219 Sample Size: 25 mL
Prepared: 07/14/2025 Final Volume: 25 mL

Sampled: 06/24/2025 15:00

Analyzed: 07/15/2025 21:24

Extract ID: 25F0554-06 G 01

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	4.58	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	10.4	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	1.41	ug/L	
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	1.23	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	5.66	ug/L	J



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A	Sampled: 06/24/2025 15:00
Instrument: HYDRA Analyst: ML	Analyzed: 07/14/2025 11:06
Sample Preparation:	Preparation Method: TWM EPA 7470A
	Preparation Batch: BNG0206
	Prepared: 07/12/2025
	Sample Size: 20 mL
	Final Volume: 20 mL
	Extract ID: 25F0554-06 G

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



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/24/2025 15:00
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/16/2025 20:31
Sample Preparation:	Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
	Preparation Batch: BNG0219
	Prepared: 07/14/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25F0554-06RE1 G 03

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chromium, Dissolved	7440-47-3	20	7.50	10.0	ND	ug/L	U



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Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06RE1 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 06/24/2025 15:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/03/2025 16:36

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-06RE1 F

Preparation Batch: BNG0078

Sample Size: 10 mL

Prepared: 07/03/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
# Chloride	16887-00-6	2	2.00	2.00	10.2	mg/L	D



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Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06RE1 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 06/24/2025 15:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/02/2025 14:08

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-06RE1 F

Preparation Batch: BNF0604

Sample Size: 10 mL

Prepared: 06/30/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	2	4.00	4.00	34.2	mg/L	D, B



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06RE2 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/24/2025 15:00
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/24/2025 01:28
Sample Preparation:	Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
	Preparation Batch: BNG0350
	Prepared: 07/18/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25F0554-06RE2 G 04

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Lead, Dissolved	7439-92-1	1	0.100	0.200	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

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)
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.
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.

August 15, 2025

Barb Evans
Sage Orchards
Outlook, WA

Re: Results of June 24, 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. The sample from the DNR Residence drinking water spigot exceeded the Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Tetrachloroethene (PCE) (5 ug/L [micrograms per liter]).

Sampling and Results

The O.L. Luther well sample was collected on June 24, 2025 from a hose bib in piping located near the wellhead. The DNR Residence drinking water spigot sample (served by the O.L. Luther well) was collected on June 24, 2025 from a blue spigot nearest to the residence. 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. Samples 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 acetone (6.48 ug/L) and PCE (0.84 ug/L). Results for the June 2025 sampling and an excerpt of the laboratory analytical report are provided in the attached summary.

The O.L. Luther well has been sampled 12 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). Acetone was detected above the lab reporting limit in April 2019 (13.9 ug/L) and June 2025 (6.48 ug/L) and does not have an applicable MCL. TCE has been regularly

historically detected at the O.L. Luther well and was not detected in June 2025. No other VOCs have been regularly detected historically at the O.L. Luther well.¹

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

PCE was detected at 6.01 ug/L in the DNR Residence drinking water spigot. The detection for PCE in the DNR Residence drinking water spigot is above the MCL for PCE at 5 ug/L. TCE was detected in the DNR Residence drinking water spigot at 0.33 ug/L, below the MCL (4 ug/L). Cis-1,2-DCE was detected in the DNR Residence drinking water spigot at 0.11J ug/L. The “J” after the numerical result indicates that cis-1,2-DCE is estimated above the detection limit but below the reporting limit. Dichlorodifluoromethane (CFC 12) was detected in the DNR Residence drinking water spigot at 0.39 ug/L. This is the first detection of CFC 12 from the DNR Residence drinking water spigot. Results for the June 2025 sampling are provided in the attached summary and excerpt of the laboratory analytical report.

A DNR Residence drinking water spigot was first sampled in 2012 and was non-detect for VOCs. In June 2024, PCE and TCE were detected below the MCLs (1.43 ug/L and 0.08J ug/L, respectively). In July 2024, PCE was detected below the MCL (1.26 ug/L) and TCE was not detected. In November 2024, PCE and TCE were detected below the MCLs (2.29 ug/L and 0.13J ug/L). In February 2025, PCE was detected above the MCL (5.77 ug/L) and TCE was detected below the MCL (0.31 ug/L).

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.

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

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 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.

Road property again in September 2025. We will coordinate sampling approximately one week in advance.

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

Sincerely,

Mott MacDonald

Eric Cutler, LHG

Senior Project Manager/Hydrogeologist

eric.cutler@mottmac.com

(650) 823-4947

Attachments:

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

Excerpt of ARI Laboratory Data Report 25F0554 August 14, 2025

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

Closed Snipes Mountain Landfill, Yakima County, Washington

Constituent	Units	MCL	DNR Residence (source from O.L. Luther well)	O.L. Luther Well
			6/24/2025	6/24/2025
1,1,1,2-Tetrachloroethane	ug/L		0.2U	0.2U
1,1,1-Trichloroethane (TCA)	ug/L	200	0.2U	0.2U
1,1,2,2-Tetrachloroethane	ug/L		0.2U	0.2U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l		0.2U	0.2U
1,1,2-Trichloroethane	ug/L	5	0.2U	0.2U
1,1-Dichloroethane	ug/L	1	0.2U	0.2U
1,1-Dichloroethene	ug/L	7	0.2U	0.2U
1,1-Dichloropropene	ug/L		0.2U	0.2U
1,2,3-Trichlorobenzene	ug/L		0.5U	0.5U
1,2,3-Trichloropropane	ug/L		0.5U	0.5U
1,2,4-Trichlorobenzene	ug/L	70	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L		0.2U	0.2U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L		0.5U	0.5U
1,2-Dibromoethane (EDB)	ug/L		0.2U	0.2U
1,2-Dichlorobenzene	ug/L		0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	5	0.2U	0.2U
1,2-Dichloropropane	ug/L	5	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L		0.2U	0.2U
1,3-Dichlorobenzene	ug/L		0.2U	0.2U
1,3-Dichloropropane	ug/L		0.2U	0.2U
1,4-Dichlorobenzene	ug/L	75	0.2U	0.2U
2,2-Dichloropropane	ug/L		0.2U	0.2U
2-Butanone (MEK)	ug/L		5U	5U
2-Chloroethyl Vinyl Ether	ug/L		1U	1U
2-Chlorotoluene	ug/L		0.2U	0.2U
2-Hexanone	ug/L		5U	5U
2-Pentanone	ug/L		5U	5U
4-Chlorotoluene	ug/L		0.2U	0.2U
4-Isopropyltoluene	ug/L		0.2U	0.2U
4-Methyl-2-Pentanone (MIBK)	ug/L		5U	5U
Acetone	ug/L		5U	6.48
Acrolein	ug/L		5U	5U
Acrylonitrile	ug/L		1U	1U
Benzene	ug/L	5	0.2U	0.2U
Bromobenzene	ug/L		0.2U	0.2U
Bromochloromethane	ug/L		0.2U	0.2U
Bromodichloromethane	ug/L	80	0.2U	0.2U
Bromoform	ug/L	80	0.2U	0.2U
Bromomethane	ug/L		1U	1U
Carbon Disulfide	ug/L		0.2U	0.2U
Carbon Tetrachloride	ug/L	5	0.2U	0.2U
Chlorobenzene	ug/L	100	0.2U	0.2U
Chloroethane	ug/L		0.2U	0.2U
Chloroform	ug/L	80	0.2U	0.2U
Chloromethane	ug/L		0.5U	0.5U
cis-1,2-Dichloroethene (cis-1,2-DCE)	ug/L	70	0.11J	0.2U
cis-1,3-Dichloropropene	ug/L		0.2U	0.2U
Dibromochloromethane	ug/L		0.2U	0.2U
Dibromomethane	ug/L		0.2U	0.2U
Dichlorodifluoromethane (CFC 12)	ug/L		0.39	0.2U
Dichloromethane (Methylene Chloride)	ug/L	5	1U	1U
Ethylbenzene	ug/L	700	0.2U	0.2U
Hexachlorobutadiene	ug/L		0.5U	0.5U
Iodomethane	ug/L		1U	1U

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

Closed Snipes Mountain Landfill, Yakima County, Washington

Constituent	Units	MCL	DNR Residence (source from O.L. Luther well)	O.L. Luther Well
			6/24/2025	6/24/2025
Isopropylbenzene (Cumene)	ug/L		0.2U	0.2U
m,p-Xylene	ug/L		0.4U	0.4U
Methyl tert-Butyl Ether	ug/L		0.5U	0.5U
Naphthalene	ug/L		0.5U	0.5U
n-Butylbenzene	ug/L		0.2U	0.2U
n-Propylbenzene	ug/L		0.2U	0.2U
o-Xylene	ug/L		0.2U	0.2U
sec-Butylbenzene	ug/L		0.2U	0.2U
Styrene	ug/L	100	0.2U	0.2U
tert-Butylbenzene	ug/L		0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	5	6.01	0.84
Toluene	ug/L	1000	0.2U	0.2U
Total Xylenes	ug/L	10000	0.6U	0.6U
trans-1,2-Dichloroethene	ug/L	100	0.2U	0.2U
trans-1,3-Dichloropropene	ug/L		0.2U	0.2U
trans-1,4-Dichloro-2-butene	ug/L		1U	1U
Trichloroethene (TCE)	ug/L	5	0.33	0.2U
Trichlorofluoromethane (CFC 11)	ug/L		0.2U	0.2U
Vinyl Acetate	ug/L		0.2U	0.2U
Vinyl Chloride	ug/L	2	0.2U	0.2U

Notes:

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

Bold, boxed 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



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

Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Evans
25F0554-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT3 Analyst: FCL

Sampled: 06/24/2025 14:10

Analyzed: 07/01/2025 17:39

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) Sample Size: 10 mL
Preparation Batch: BNG0018 Final Volume: 10 mL
Prepared: 07/01/2025 Extract ID: 25F0554-05 E

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	0.11	ug/L	J
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	0.33	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



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Project: Snipes MTN Landfill 2025
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Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Evans
25F0554-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/24/2025 14:10

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 17:39

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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	6.01	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



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Evans
25F0554-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/24/2025 14:10

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 17:39

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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	0.39	ug/L	
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 %	106	%	
Surrogate: Toluene-d8				80-120 %	98.6	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	95.5	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	102	%	



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Evans
25F0554-05 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 06/24/2025 14:10

Analyzed: 07/17/2025 20:55

Sample Preparation: Preparation Method: WMN (No Prep) Sample Size: 25 mL
Preparation Batch: BNG0187 Final Volume: 25 mL
Prepared: 07/10/2025 Extract ID: 25F0554-05 G 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	83.4	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	28.4	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	6.88	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	27.0	mg/L	



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Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Evans
25F0554-05 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/24/2025 14:10
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/15/2025 21:18
Sample Preparation:	Extract ID: 25F0554-05 G 01
Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix	
Preparation Batch: BNG0219	Sample Size: 25 mL
Prepared: 07/14/2025	Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
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	3.50	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	30.8	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	7.39	ug/L	
Nickel UCT, Dissolved	7440-02-0	1	0.250	0.500	0.458	ug/L	J
Selenium UCT, Dissolved	7782-49-2	1	0.500	1.00	2.37	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	36.0	ug/L	



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Reported:
14-Aug-2025 12:47

Evans
25F0554-05 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A	Sampled: 06/24/2025 14:10
Instrument: HYDRA Analyst: ML	Analyzed: 07/14/2025 10:59
Sample Preparation:	Preparation Method: TWM EPA 7470A
	Preparation Batch: BNG0206
	Prepared: 07/12/2025
	Sample Size: 20 mL
	Final Volume: 20 mL
	Extract ID: 25F0554-05 G

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



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

Evans
25F0554-05RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/24/2025 14:10
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/16/2025 20:27
Sample Preparation:	Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
	Preparation Batch: BNG0219
	Prepared: 07/14/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25F0554-05RE1 G 03

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chromium, Dissolved	7440-47-3	20	7.50	10.0	ND	ug/L	U



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Evans
25F0554-05RE1 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 06/24/2025 14:10

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/03/2025 16:34

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-05RE1 F

Preparation Batch: BNG0078

Sample Size: 10 mL

Prepared: 07/03/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
# Chloride	16887-00-6	10	10.0	10.0	38.7	mg/L	D



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Evans
25F0554-05RE1 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 06/24/2025 14:10

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/02/2025 14:07

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-05RE1 F

Preparation Batch: BNF0604

Sample Size: 10 mL

Prepared: 06/30/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	5	10.0	10.0	96.0	mg/L	D, B



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Project Manager: Jeff Parker

Reported:
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Evans
25F0554-05RE2 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/24/2025 14:10
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/24/2025 01:23
Sample Preparation:	Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
	Preparation Batch: BNG0350
	Prepared: 07/18/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25F0554-05RE2 G 04

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Lead, Dissolved	7439-92-1	1	0.100	0.200	ND	ug/L	U



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
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Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT3 Analyst: FCL

Sampled: 06/24/2025 15:00

Analyzed: 07/01/2025 18:01

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNG0018 Sample Size: 10 mL
Prepared: 07/01/2025 Final Volume: 10 mL

Extract ID: 25F0554-06 E

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	6.48	ug/L	
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



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Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/24/2025 15:00

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 18:01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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	0.84	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



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Reported:
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O.L. Luther
25F0554-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 06/24/2025 15:00

Instrument: NT3 Analyst: FCL

Analyzed: 07/01/2025 18:01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
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 %	107	%	
Surrogate: Toluene-d8				80-120 %	97.1	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	94.6	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	101	%	



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Reported:
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O.L. Luther
25F0554-06 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D
Instrument: ICP3 Analyst: SH

Sampled: 06/24/2025 15:00

Analyzed: 07/17/2025 20:58

Sample Preparation: Preparation Method: WMN (No Prep) Sample Size: 25 mL
Preparation Batch: BNG0187 Final Volume: 25 mL
Prepared: 07/10/2025 Extract ID: 25F0554-06 G 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Calcium, Dissolved	7440-70-2	1	0.0300	0.0500	36.4	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	10.9	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	7.15	mg/L	
Sodium, Dissolved	7440-23-5	1	0.250	0.500	20.0	mg/L	



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O.L. Luther
25F0554-06 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B
Instrument: ICPMS1 Analyst: HAL
Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
Preparation Batch: BNG0219 Sample Size: 25 mL
Prepared: 07/14/2025 Final Volume: 25 mL
Sampled: 06/24/2025 15:00
Analyzed: 07/15/2025 21:24
Extract ID: 25F0554-06 G 01

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	4.58	ug/L	
Barium, Dissolved	7440-39-3	1	0.250	0.500	10.4	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	1.41	ug/L	
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	1.23	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	5.66	ug/L	J



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Reported:
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O.L. Luther
25F0554-06 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 7470A	Sampled: 06/24/2025 15:00
Instrument: HYDRA Analyst: ML	Analyzed: 07/14/2025 11:06
Sample Preparation:	Preparation Method: TWM EPA 7470A
	Preparation Batch: BNG0206
	Prepared: 07/12/2025
	Sample Size: 20 mL
	Final Volume: 20 mL
	Extract ID: 25F0554-06 G

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



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Reported:
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O.L. Luther
25F0554-06RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/24/2025 15:00
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/16/2025 20:31
Sample Preparation:	Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
	Preparation Batch: BNG0219
	Prepared: 07/14/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25F0554-06RE1 G 03

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chromium, Dissolved	7440-47-3	20	7.50	10.0	ND	ug/L	U



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Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06RE1 (Water)

Wet Chemistry

Method: EPA 325.2

Sampled: 06/24/2025 15:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/03/2025 16:36

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-06RE1 F

Preparation Batch: BNG0078

Sample Size: 10 mL

Prepared: 07/03/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
# Chloride	16887-00-6	2	2.00	2.00	10.2	mg/L	D



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Reported:
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O.L. Luther
25F0554-06RE1 (Water)

Wet Chemistry

Method: EPA 375.2

Sampled: 06/24/2025 15:00

Instrument: LACHAT2 Analyst: CRB

Analyzed: 07/02/2025 14:08

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0554-06RE1 F

Preparation Batch: BNF0604

Sample Size: 10 mL

Prepared: 06/30/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	2	4.00	4.00	34.2	mg/L	D, B



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Project: Snipes MTN Landfill 2025
Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
14-Aug-2025 12:47

O.L. Luther
25F0554-06RE2 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6020B	Sampled: 06/24/2025 15:00
Instrument: ICPMS1 Analyst: HAL	Analyzed: 07/24/2025 01:28
Sample Preparation:	Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
	Preparation Batch: BNG0350
	Prepared: 07/18/2025
	Sample Size: 25 mL
	Final Volume: 25 mL
	Extract ID: 25F0554-06RE2 G 04

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Lead, Dissolved	7439-92-1	1	0.100	0.200	ND	ug/L	U



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Project Number: Snipes MTN Landfill 2025
Project Manager: Jeff Parker

Reported:
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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)
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.
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.

Memorandum

Subject Proposed Revisions to Remedial Investigation Sampling at Closed Snipes Mountain Landfill, Agreed Order No. DE 22514

To Luke LeMond, Washington State Department of Ecology

From Ashley Parkhurst

Date September 2, 2025

This memo reports on the results from the Remedial Investigation (RI) expanded analyte list as performed under the Closed Snipes Mountain Landfill Agreed Order (No. DE 22514, 2/29/2024) and recommends reduction in the expanded analyte list in wells SMW-5s and SMW-5d for the 2025 Quarter (Q)3, 2025 Q4, and ongoing quarterly RI monitoring events. The expanded analyte list is required quarterly at site monitoring wells (SMW-1, SMW-4, SMW-5s, SMW-5d) and includes include WAC 173-351-990 Appendix I, and II parameters, as well as 1,4-dioxane and PFAS. Groundwater sampling in 2025 Q1 and 2025 Q2 from onsite monitoring wells north of the anticline (SMW-1, SMW-4, SMW-5s, SMW-5d) included the expanded analyte list.

The Final RI Work Plan (Mott MacDonald 2025) specifies quarterly monitoring using an expanded analyte list for four onsite monitoring wells at Closed Snipes Mountain Landfill (Snipes), in addition to monitoring for volatile organic compounds (VOCs) at the O.L. Luther, Inc. well and the Washington Department of Natural Resources (DNR) house. The additional analytes per Table A1-1 of the Final RI Work Plan are:

- 1,4-Dioxane
- Alkalinity
- Chlorinated Phenols
- Dioxin/Furans
- Polycyclic aromatic hydrocarbons (PAHs)
- Pentachlorophenol
- Pesticides
- Per- and polyfluoroalkyl substances (PFAS)
- Semi-volatile organic compounds (SVOCs)

The Minimum Functional Standards (MFS) parameters and VOCs continue to be sampled quarterly at onsite monitoring wells north of the anticline and semiannually at SMW-2.

1 Proposed Revisions to RI Sampling at Closed Snipes Mountain Landfill

Onsite monitoring wells SMW-5s and SMW-5d were sampled for MFS, VOCs, and the expanded analyte list in 2025 Q1 and 2025 Q2 (Tables 1a and 1b). The groundwater analytical results from 2025 Q1 and 2025 Q2 indicate several constituents were consistently not detected. Per the Final RI Work Plan, “After the Q1 2025, Q2 2025 RI quarterly sampling events are completed, reductions in the sampling suite for Q3 2025 and Q4 2025 quarterly monitoring will be recommended for analytes that are not of concern in any of the monitoring wells” (Mott MacDonald 2025). In accordance with the Final RI Work Plan, we propose a modification to reduce the analytes for samples collected from SMW-5s and SMW-5d. We recommend discontinuing the

analyses of 1,4-dioxane, dinoseb, and chlorinated pesticides at SMW-5s and SMW-5d because these analytes were non-detect in both 2025 Q1 and 2025 Q2.

Samples collected from SMW-1 and SMW-4 were also non-detect for 1,4-dioxane, dinoseb, and chlorinated pesticides in 2025 Q1. In 2025 Q2, SMW-1 was dry and could not be sampled, and adequate pressure could not be achieved for the bladder pump in SMW-4 so the well could not be sampled. Therefore, no modifications to the RI expanded analyte list are proposed for SMW-1 or SMW-4 at this time.

Quarterly samples of MFS parameters and VOCs have been collected from SMW-5s and SMW-5d in five consecutive quarters (2024 Q2 – 2025 Q2). The concentrations for tetrachloroethene (PCE) and PCE degradation products, trichloroethene (TCE) and cis-1,2-dichloroethene (cis-1,2-DCE), during this time period are consistently low and do not exhibit seasonality. The concentrations for leachate indicators chloride, nitrate, and sulfate additionally do not exhibit seasonality.

Detections of other VOCs at SMW-5s in the previous 5 years include 1,1,2-trichloro-1,2,2-trifluoroethane, acetone, carbon disulfide, chloroethane, and dichlorodifluoromethane (CFC-12). These detections are relatively low and do not exhibit seasonality. Detections of other VOCs at SMW-5d in the previous 5 years include 1,2,4-trimethylbenzene in 2024 Q2 (Table 2).

Time series plots for onsite monitoring wells north of the anticline, O.L. Luther, and the DNR House are included for PCE, TCE, cis-1,2-DCE, chloride, nitrate, and sulfate. Between 2012 and 2013, the reporting limit for PCE, TCE, and cis-1,2-DCE was reduced from 1 µg/L to 0.2 µg/L, resulting in visible dips on Figures 2a and 3a. Each time series plot is paired with plots of constituent variability that show the change in the concentrations of PCE, TCE, cis-1,2-DCE, chloride, nitrate, and sulfate with an approximate 6-month time lag. The deviation at a given data point was calculated by subtracting the value of the constituent at that well one to two sampling events prior from the value at a given quarter. The time-lagged deviation was calculated for each quarter in which a prior sample occurred within the previous five to nine months. Non-detects are included in the data set at the reporting limit.

References

Mott MacDonald, 2025. Final Remedial Investigation Work Plan, Closed Snipes Mountain Landfill. January 2025.

Table 1a. Groundwater Monitoring Data, Snipes Mountain Landfill

2025 Q1

Sample Name		SMW-1	SMW-4	SMW-5s	SMW-5d	DNR House	O.L. Luther
Constituent	GWQC						
Field Parameters							
Depth to water, Ft.		232.39	232.81	182.84	182.58		
Dissolved oxygen, mg/L		8.37	0.41	2.91	3.05	2.15	2.98
Oxidation Reduction Potential, mV		122.2	148.2	148.1	172.1	195.7	177.6
pH, Field, std. units	6.5-8.5	7.30	7.46	5.86	7.92	7.52	7.5
Specific Conductance @ 25C, Field, umhos/cm	700	434	292	645	236	489	480
Temperature, C		15.7	16.6	16.2	15.9	4.2	20.8
Inorganics							
Alkalinity as CaCO ₃ , Total, mg/L CaCO ₃		199	145	153	118	208	209
Ammonia, Total, mg/L as N		0.04U	0.04U	0.04U	0.04U		
Carbon, Total Organic, mg/L		0.5U	0.5U	5.26	0.5U		
Chemical Oxygen Demand (COD), mg/L		10U	10U	27.9	10U		
Chloride, mg/L	250	17.4D	8.40	35.6D	4.32	37.3D	37.6D
Nitrate, mg/L as N	10	2.03H	0.02UH	0.488	0.02UH		
Nitrate + Nitrite (NO ₂ + NO ₃), mg-N/L	10	2.03D	0.01U	0.488	0.01U		
Nitrite, mg/L as N	1	0.01UH	0.01UH	0.01U	0.01UH		
Solids, Total Suspended, mg/L		1U	1U	11	3	1U	1U
Sulfate, mg/L	250	84.5D	40.9D	72.5D	27.4D	92.0D	89.5D
Metals							
Antimony, Dissolved, ug/L		0.2U	0.2U	0.667	0.195J	0.2U	0.2U
Arsenic, Dissolved, mg/L	0.00005	0.00631	0.00395	0.00494	0.00863	0.00336	0.00329D
Barium, Dissolved, mg/L	1	0.00614	0.00762	0.00952	0.0155	0.0332	0.0268
Cadmium, Dissolved, mg/L	0.005	0.0001U	0.0001U	0.000102	0.0001U	0.0001U	0.0001U
Calcium, mg/L		68.0	35.9	45.5	26.0	76.8	77.3
Chromium, Dissolved, mg/L	0.05	0.0026D	0.0025U	0.0132D	0.00259D	0.0025U	0.0025U
Copper, Dissolved, ug/L	1000	3.85	0.5U	1.14	0.5U	0.0015	0.000785
Iron, Dissolved, mg/L	0.3	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Lead, Dissolved, ug/L	50	0.635	0.2U	0.2U	0.2U	0.2U	0.2U
Magnesium, Dissolved, mg/L		23.5	11.7	13.5	7.23	25.2	25.2
Manganese, Dissolved, mg/L	0.05	0.0059	0.004U	0.184	0.004U	0.0044	0.004U
Mercury, Dissolved, mg/L	0.002	0.0001U	0.0001U	0.0001U	0.0001U	0.0001U	0.0001U
Potassium, Dissolved, mg/L		6.67	6.73	3.95	5.93	7.43	7.00
Selenium, Dissolved, mg/L	0.01	0.0016	0.001U	0.00113	0.001U	0.00179	0.00173
Silver, Dissolved, mg/L	0.1	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U
Sodium, Dissolved, mg/L		17.5	20.1	22.0	20.4	26.1	25.3
Zinc, Dissolved, mg/L	5	0.0158	0.006U	0.0151	0.006U	0.0675	0.00783
VOC							
1,1,1,2-Tetrachloroethane, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,1-Trichloroethane (TCA), ug/L	200	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2,2-Tetrachloroethane, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloro-1,2,2-trifluoroetha, ug/L		0.2U	0.2U	0.27	0.2U	0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms.

** Indicates detected in the trip blank but not qualified.

No result indicates analyte not analyzed for.

Q - Indicates quarter of the year (ie: Q1 = first quarter).

J - Estimated value. B - Compound found in blank.

M - Estimated value - low spectral match parameters.

U - Not detected above indicated detection limit.

Y - Not detected at raised detection limit.

GWQC - Groundwater Quality Criteria as outlined in WAC 173-200, Appendix A. These values are the most stringent levels derived from WAC 173-200 (10/1990) and WAC 246-290 (7/2004). The Groundwater Quality Criteria for pH is 6.5 to 8.5.

Table 1a. Groundwater Monitoring Data, Snipes Mountain Landfill

2025 Q1

Sample Name		SMW-1	SMW-4	SMW-5s	SMW-5d	DNR House	O.L. Luther
Constituent	GWQC						
1,1,2-Trichloroethane, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane, ug/L	1	0.11J	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene, ug/L		0.17J	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloropropene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2,3-Trichlorobenzene, ug/L		0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,3-Trichloropropane, ug/L		0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trichlorobenzene, ug/L	70	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dibromo-3-chloropropane (DBCP), ug/L		0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2-Dibromoethane (EDB), ug/L	0.001	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichlorobenzene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC), ug/L	0.5	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichloropropane, ug/L	0.6	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichloropropane, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,4-Dichlorobenzene, ug/L	4	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2,2-Dichloropropane, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Butanone (MEK), ug/L		5U	5U	5U	5U	5U	5U
2-Chloroethyl Vinyl Ether, ug/L		1U	1U	1U	1U	1U	1U
2-Chlorotoluene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Hexanone, ug/L		5U	5U	5U	5U	5U	5U
2-Pentanone, ug/L		5U	5U	5U	5U	5U	5U
4-Chlorotoluene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Methyl-2-Pentanone (MIBK), ug/L		5U	5U	5U	5U	5U	5U
Acetone, ug/L		5U	5U	5U	5U	5U	5U
Acrolein, ug/L		5U	5U	5U	5U	5U	5U
Acrylonitrile, ug/L	0.07	1U	1U	1U	1U	1U	1U
Benzene, ug/L	1	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromochloromethane, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromodichloromethane, ug/L	0.3	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromoform, ug/L	5	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromomethane, ug/L		1U	1U	1U	1U	1U	1U
Carbon Disulfide, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Carbon Tetrachloride, ug/L	0.3	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chlorobenzene, ug/L	100	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform, ug/L	7	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane, ug/L		0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
cis-1,2-Dichloroethene, ug/L		0.17J	0.77	0.2U	0.2U	0.11J	0.14J
cis-1,3-Dichloropropene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Dibromochloromethane, ug/L	0.5	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms.

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J - Estimated value. B - Compound found in blank.

M - Estimated value - low spectral match parameters.

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Table 1a. Groundwater Monitoring Data, Snipes Mountain Landfill

2025 Q1

Sample Name		SMW-1	SMW-4	SMW-5s	SMW-5d	DNR House	O.L. Luther
Constituent	GWQC						
Dibromomethane, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Dichlorodifluoromethane (CFC 12), ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Dichloromethane(Methylene Chloride), ug/L	5	1U	1U	1U	1U	1U	1U
Ethylbenzene, ug/L	700	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Iodomethane, ug/L		1U	1U	1U	1U	1U	1U
Isopropylbenzene (Cumene), ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
m,p-Xylene, ug/L		0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Methyl tert-Butyl Ether, ug/L		0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene, ug/L		0.01U	0.01U	0.01U	0.01U	0.5U	0.5U
n-Butylbenzene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
n-Propylbenzene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Styrene, ug/L	100	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
tert-Butylbenzene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Tetrachloroethene (PCE), ug/L	0.8	7.61	3.79	1.11	0.2U	5.77	5.94
Toluene, ug/L	1000	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Total Xylenes, ug/L	10000	0.6U	0.6U	0.6U	0.6U	0.6U	0.6U
trans-1,2-Dichloroethene, ug/L	100	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
trans-1,3-Dichloropropene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
trans-1,4-Dichloro-2-butene, ug/L		1U	1U	1U	1U	1U	1U
Trichloroethene (TCE), ug/L	3	0.49	0.92	0.2U	0.2U	0.31	0.34
Trichlorofluoromethane (CFC 11), ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Vinyl Acetate, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Vinyl Chloride, ug/L	0.02	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U
Chlorinated Pesticides							
4,4'-DDD, ug/L	0.3	0.05U	0.05U	0.05U	0.05U		
4,4'-DDE, ug/L	0.3	0.05U	0.05U	0.05U	0.05U		
4,4'-DDT, ug/L	0.3	0.05U	0.05U	0.05U	0.05U		
Aldrin, ug/L	0.005	0.025U	0.025U	0.025U	0.025U		
Alpha-BHC, ug/L		0.025U	0.025U	0.025U	0.025U		
Alpha-Chlordane, ug/L		0.025U	0.025U	0.025U	0.025U		
beta-BHC, ug/L		0.025U	0.025U	0.025U	0.025U		
Chlordane, technical, ug/L	0.06	0.1U	0.1U	0.1U	0.1U		
delta-BHC, ug/L		0.025U	0.025U	0.025U	0.025U		
Endosulfan I, ug/L		0.025U	0.025U	0.025U	0.025U		
Endosulfan II, ug/L		0.05U	0.05U	0.05U	0.05U		
Endosulfan sulfate, ug/L		0.05U	0.05U	0.05U	0.05U		
Endrin, ug/L	0.2	0.05U	0.05U	0.05U	0.05U		
Endrin aldehyde, ug/L		0.05U	0.05U	0.05U	0.05U		
Endrin ketone, ug/L		0.05U	0.05U	0.05U	0.05U		
gamma-BHC (Lindane), ug/L	0.06	0.025U	0.025U	0.025U	0.025U		
Heptachlor, ug/L	0.02	0.025U	0.025U	0.025U	0.025U		

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Table 1a. Groundwater Monitoring Data, Snipes Mountain Landfill

2025 Q1

Sample Name		SMW-1	SMW-4	SMW-5s	SMW-5d	DNR House	O.L. Luther
Constituent	GWQC						
Heptachlor Epoxide, ug/L	0.009	0.05U	0.05U	0.05U	0.05U		
Hexachlorobenzene, ug/L	0.05	0.05U	0.05U	0.05U	0.05U		
Hexachlorobutadiene, ug/L		0.05U	0.05U	0.05U	0.05U	0.5U	0.5U
Methoxychlor, ug/L	100	0.25U	0.25U	0.25U	0.25U		
Oxychlorane, ug/L		0.05U	0.05U	0.05U	0.05U		
trans-Chlordane, ug/L		0.025U	0.025U	0.025U	0.025U		
Dioxins/Furans							
1,2,3,4,6,7,8-HpCDD, pg/L		9.52U	9.43U	14.5U	10.9U		
1,2,3,4,6,7,8-HpCDF, pg/L		19U	18.9U	29U	21.7U		
1,2,3,4,7,8,9-HpCDF, pg/L		9.52U	9.43U	14.5U	10.9U		
1,2,3,4,7,8-HxCDD, pg/L		9.52U	9.43U	14.5U	10.9U		
1,2,3,4,7,8-HxCDF, pg/L		9.52U	9.43U	14.5U	10.9U		
1,2,3,6,7,8-HxCDD, pg/L		9.52U	9.43U	14.5U	10.9U		
1,2,3,6,7,8-HxCDF, pg/L		9.52U	9.43U	14.5U	10.9U		
1,2,3,7,8,9-HxCDD, pg/L		9.52U	9.43U	14.5U	10.9U		
1,2,3,7,8,9-HxCDF, pg/L		9.52U	9.43U	14.5U	10.9U		
1,2,3,7,8-PeCDD, pg/L		9.52U	9.43U	14.5U	10.9U		
1,2,3,7,8-PeCDF, pg/L		9.52U	9.43U	14.5U	10.9U		
2,3,4,6,7,8-HxCDF, pg/L		9.52U	9.43U	14.5U	10.9U		
2,3,4,7,8-PeCDF, pg/L		9.52U	9.43U	14.5U	10.9U		
2,3,7,8-TCDD, pg/L		9.52U	9.43U	14.5U	10.9U		
2,3,7,8-TCDF, pg/L		9.52U	9.43U	14.5U	10.9U		
OCDD, pg/L		47.6U	47.2U	72.5U	54.3U		
OCDF, pg/L		19U	18.9U	29U	21.7U		
Total HpCDD, pg/L		9.52U	9.43U	14.5U	10.9U		
Total HpCDF, pg/L		9.52U	9.43U	14.5U	10.9U		
Total HxCDD, pg/L		9.52U	9.43U	14.5U	10.9U		
Total HxCDF, pg/L		9.52U	9.43U	14.5U	10.9U		
Total PeCDD, pg/L		9.52U	9.43U	14.5U	10.9U		
Total PeCDF, pg/L		9.52U	9.43U	14.5U	10.9U		
Total TCDD, pg/L		9.52U	9.43U	14.5U	10.9U		
Total TCDF, pg/L		9.52U	9.43U	14.5U	10.9U		
Herbicides							
Dinoseb, ug/L	7	2.5U	2.5U	2.5U	2.5U		
PFAS							
11Cl-PF3OUdS, ng/L		1.6U	1.6U	1.7U	1.7U		
3:3 FTCA, ng/L		3.2U	3.3U	7.6	3.4U		
4,8-Dioxa-3H-perfluorononanoic acid, ng/L		1.6U	1.6U	1.7U	1.7U		
4:2 FTS, ng/L		3.2U	3.3U	3.4U	3.4U		
5:3 FTCA, ng/L		7.9U	8.2U	8.4U	8.6U		
6:2 FTS, ng/L		3.2U	3.3U	3.4U	3.4U		
7:3 FTCA, ng/L		7.9U	8.2U	8.4U	8.6U		

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Table 1a. Groundwater Monitoring Data, Snipes Mountain Landfill

2025 Q1

Sample Name		SMW-1	SMW-4	SMW-5s	SMW-5d	DNR House	O.L. Luther
Constituent	GWQC						
8:2 FTS, ng/L		3.2U	3.3U	3.4U	3.4U		
9CI-PF3ONS, ng/L		1.6U	1.6U	1.7U	1.7U		
HFPO-DA (GenX), ng/L	10	1.2U	1.2U	1.3U	1.3U		
NEtFOSA, ng/L		1.6U	1.6U	1.7U	1.7U		
NEtFOSAA, ng/L		1.6U	1.6U	1.7U	1.7U		
NEtFOSE, ng/L		7.9U	8.2U	8.4U	8.6U		
NFDHA, ng/L		1.6U	1.6U	1.7U	1.7U		
NMeFOSA, ng/L		1.6U	1.6U	1.7U	1.7U		
NMeFOSAA, ng/L		1.6U	1.6U	1.4J	1.7U		
NMeFOSE, ng/L		7.9U	8.2U	8.4U	8.6U		
Perfluorobutanesulfonic acid (PFBS), ng/L	2000	1.6U	1.6U	1.7U	1.7U		
Perfluorobutanoic acid (PFBA), ng/L		3.2U	3.3U	420	3.2J		
Perfluorodecanesulfonic acid (PFDS), ng/L		1.6U	1.6U	1.7U	1.7U		
Perfluorodecanoic acid (PFDA), ng/L		1.6U	1.6U	1.7U	0.91J		
Perfluorododecanesulfonic acid, ng/L		1.6U	1.6U	1.7U	1.7U		
Perfluorododecanoic acid (PFDoA), ng/L		1.6U	1.6U	1.7U	1.7U		
Perfluoroheptanesulfonic acid, ng/L		1.6U	1.6U	1.7U	1.7U		
Perfluoroheptanoic acid (PFHpA), ng/L		1.6U	1.6U	0.49J	1.7U		
Perfluorohexanesulfonic acid, ng/L	10	1.6U	1.6U	1.7U	1.7U		
Perfluorohexanoic acid (PFHxA), ng/L		1.6U	1.6U	0.86J	1.7U		
Perfluorononanesulfonic acid (PFNS), ng/L		1.6U	1.6U	1.7U	1.7U		
Perfluorononanoic acid (PFNA), ng/L	10	1.6U	1.6U	1.7U	1.7U		
Perfluorooctanesulfonamide (PFOSA), ng/L		1.6U	1.6U	1.7U	1.7U		
Perfluorooctanesulfonic acid (PFOS), ng/L	4	1.6U	1.6U	2.1	1.7U		
Perfluorooctanoic acid (PFOA), ng/L	4	0.7J	1.6U	3.1	4.7		
Perfluoropentanesulfonic acid, ng/L		1.6U	1.6U	1.7U	1.7U		
Perfluoropentanoic acid (PFPeA), ng/L		1.6U	1.6U	130	3.9		
Perfluorotetradecanoic acid, ng/L		1.6U	1.6U	1.7U	1.7U		
Perfluorotridecanoic acid (PFTrDA), ng/L		1.6U	1.6U	1.7U	1.7U		
Perfluoroundecanoic acid (PFUnA), ng/L		1.6U	1.6U	1.7U	1.7U		
PFEESA, ng/L		1.6U	1.6U	1.7U	1.7U		
PFMBA, ng/L		1.6U	1.6U	1.7U	1.7U		
PFMPA, ng/L		1.6U	1.6U	1.7U	1.7U		

SVOC

1,2,4-Trichlorobenzene, ug/L	70	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2-Dichlorobenzene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene, ug/L		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,4-Dichlorobenzene, ug/L	4	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,4-Dioxane, ug/L	7	0.4U	0.4U	0.4U	0.4U		
1-Methylnaphthalene, ug/L		0.01U	0.01U	0.01U	0.01U		
2,3,4,6-Tetrachlorophenol, ug/L		1U					
2,4,5-Trichlorophenol, ug/L		5U	5U	5U	5U		
2,4,6-Trichlorophenol, ug/L	4	3U	3U	3U	3U		

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Table 1a. Groundwater Monitoring Data, Snipes Mountain Landfill

2025 Q1

Sample Name		SMW-1	SMW-4	SMW-5s	SMW-5d	DNR House	O.L. Luther
Constituent	GWQC						
2,4-Dichlorophenol, ug/L		3U	3U	3U	3U		
2,4-Dimethylphenol, ug/L		3U	3U	3U	3U		
2,4-Dinitrophenol, ug/L		10U	10U	10U	10U		
2,4-Dinitrotoluene, ug/L	0.1	3U	3U	3U	3U		
2,6-Dinitrotoluene, ug/L	0.1	3U	3U	3U	3U		
2-Chloronaphthalene, ug/L		1U	1U	1U	1U		
2-Chlorophenol, ug/L		1U	1U	1U	1U		
2-Methyl-4,6-dinitrophenol, ug/L		10U	10U	10U	10U		
2-Methylnaphthalene, ug/L		0.01U	0.01U	0.01U	0.01U		
2-Methylphenol, ug/L		1U	1U	1U	1U		
2-Nitroaniline, ug/L		3U	3U	3U	3U		
2-Nitrophenol, ug/L		3U	3U	3U	3U		
3,3'-Dichlorobenzidine, ug/L	0.2	10U	10U	10U	10U		
3-Nitroaniline, ug/L		3U	3U	3U	3U		
4-Bromophenyl Phenyl Ether, ug/L		1U	1U	1U	1U		
4-Chloro-3-methylphenol, ug/L		3U	3U	3U	3U		
4-Chloroaniline, ug/L		5U	5U	5U	5U		
4-Chlorophenyl Phenyl Ether, ug/L		1U	1U	1U	1U		
4-Methylphenol, ug/L		2U	2U	2U	2U		
4-Nitroaniline, ug/L		3U	3U	3U	3U		
4-Nitrophenol, ug/L		5U	5U	5U	5U		
Acenaphthene, ug/L		0.01U	0.01U	0.01U	0.01U		
Acenaphthylene, ug/L		0.01U	0.01U	0.01U	0.01U		
Anthracene, ug/L		0.01U	0.01U	0.01U	0.01U		
Benz(a)anthracene, ug/L		0.01U	0.01U	0.01U	0.01U		
Benzo(a)pyrene, ug/L	0.008	0.01U	0.01U	0.01U	0.01U		
Benzo(b)fluoranthene, ug/L		0.01U	0.01U	0.01U	0.01U		
Benzo(g,h,i)perylene, ug/L		0.01U	0.01U	0.01U	0.01U		
Benzo(j)fluoranthene, ug/L		0.01U	0.01U	0.01U	0.01U		
Benzo(k)fluoranthene, ug/L		0.01U	0.01U	0.01U	0.01U		
Benzo(a)fluoranthenes, Total, ug/L		0.03U	0.03U	0.03U	0.03U		
Benzoic Acid, ug/L		10U	10U	10U	10U		
Benzyl Alcohol, ug/L		2U	2U	2U	2U		
Bis(2-chloroethoxy)methane, ug/L		1U	1U	1U	1U		
Bis(2-chloroethyl) Ether, ug/L		1U	1U	1U	1U		
Bis(2-chloroisopropyl) Ether, ug/L		1U	1U	1U	1U		
Bis(2-ethylhexyl) Phthalate, ug/L	6	3.8	3U	3U	3U		
Butylbenzyl Phthalate, ug/L		1U	1U	1U	1U		
Carbazole, ug/L	5	0.01U	0.01U	0.039	0.011		
Chrysene, ug/L		0.01U	0.01U	0.01U	0.01U		
Dibenz(a,h)anthracene, ug/L		0.01U	0.01U	0.01U	0.01U		
Dibenzofuran, ug/L		0.01U	0.01U	0.01U	0.01U		
Diethyl Phthalate, ug/L		1U	1U	1U	1U		
Dimethyl Phthalate, ug/L		1U	1U	1U	1U		

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Table 1a. Groundwater Monitoring Data, Snipes Mountain Landfill

2025 Q1

Sample Name		SMW-1	SMW-4	SMW-5s	SMW-5d	DNR House	O.L. Luther
Constituent	GWQC						
Di-n-butyl Phthalate, ug/L		1U	1U	1U	1U		
Di-n-Octyl phthalate, ug/L		1U	1U	1U	1U		
Fluoranthene, ug/L		0.01U	0.01U	0.01U	0.01U		
Fluorene, ug/L		0.01U	0.01U	0.01U	0.01U		
Hexachlorocyclopentadiene, ug/L		5U	5U	5U	5U		
Hexachloroethane, ug/L		2U	2U	2U	2U		
Indeno(1,2,3-cd)pyrene, ug/L		0.01U	0.01U	0.01U	0.01U		
Isophorone, ug/L		1U	1U	1U	1U		
Naphthalene, ug/L		0.01U	0.01U	0.01U	0.01U	0.5U	0.5U
Nitrobenzene, ug/L		1U	1U	1U	1U		
N-Nitroso-Di-N-Propylamine, ug/L	0.01	1U	1U	1U	1U		
N-Nitrosodiphenylamine, ug/L	17	1U	1U	1U	1U		
Pentachlorophenol, ug/L		5U	5U	5U	5U		
Perylene, ug/L		0.01U	0.01U	0.01U	0.01U		
Phenanthrene, ug/L		0.01U	0.01U	0.01U	0.01U		
Phenol, ug/L		1U	1U	1U	1U		
Pyrene, ug/L		0.01U	0.01U	0.01U	0.01U		

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Table 1b. Groundwater Monitoring Data, Snipes Mountain Landfill

2025 Q2

Sample Name	SMW-1	SMW-4	SMW-5s	SMW-5d	DNR House	O.L. Luther
Constituent	GWQC					
Field Parameters						
Depth to Water, Ft.	241.41	247.06	183.71	205.22		
Dissolved oxygen, mg/L			39.3	28.5	56.2	37.7
Oxidation Reduction Potential, mV			22.1	117.0	108.4	107.6
pH, Field, std. units	6.5-8.5		7.34	7.88	7.62	8.09
Specific Conductance @ 25C, Field, umhos/cm	700		525.0	273.7	714.0	350.8
Temperature, C			20.6	23.9	18.3	17.8
Inorganics						
Alkalinity as CaCO3, Total, mg/L CaCO3			236	117		
Ammonia, Total, mg/L as N			0.055	0.04U		
Carbon, Total Organic, mg/L			2.18	6.06		
Chemical Oxygen Demand (COD), mg/L			71	41		
Chloride, mg/L	250		23.3D	4.16	38.7D	10.2D
Nitrate, mg/L as N	10		1.13H	0.02UH		
Nitrate + Nitrite (NO2 + NO3), mg-N/L	10		1.17D	0.01U		
Nitrite, mg/L as N	1		0.044H	0.01UH		
Solids, Total Suspended, mg/L			1510	7		
Sulfate, mg/L	250		68BD	22.6B	96BD	34.2BD
Metals						
Antimony, Dissolved, ug/L			0.692	0.173J	0.2U	0.2U
Arsenic, Dissolved, mg/L	0.00005		0.00618	0.00955	0.0035	0.00458
Barium, Dissolved, mg/L	1		0.0258	0.0181	0.0308	0.0104
Cadmium, Dissolved, mg/L	0.005		0.0001U	0.0001U	0.0001U	0.0001U
Calcium, mg/L			56.2	25.4	83.4	36.4
Chromium, Dissolved, mg/L	0.05		0.01U	0.01U	0.01U	0.01U
Copper, Dissolved, ug/L	1000		0.316J	0.5U	7.39	1.41
Iron, Dissolved, mg/L	0.3		0.1U	0.1U	0.1U	0.1U
Lead, Dissolved, ug/L	50		0.13J	0.2U	0.2U	0.2U
Magnesium, Dissolved, mg/L			16	6.91	28.4	10.9
Manganese, Dissolved, mg/L	0.05		0.049	0.004U	0.004U	0.004U
Mercury, Dissolved, mg/L	0.002		0.0001U	0.0001U	0.0001U	0.0001U
Potassium, Dissolved, mg/L			4.53	5.16	6.88	7.15
Selenium, Dissolved, mg/L	0.01		0.0032	0.001U	0.00237	0.00123
Silver, Dissolved, mg/L	0.1		0.0002U	0.0002U	0.0002U	0.0002U
Sodium, Dissolved, mg/L			25.6	20	27	20
Zinc, Dissolved, mg/L	5		0.00354JB	0.0045JB	0.036	0.00566J
VOC						
1,1,1,2-Tetrachloroethane, ug/L			0.2U	0.2U	0.2U	0.2U
1,1,1-Trichloroethane (TCA), ug/L	200		0.2U	0.2U	0.2U	0.2U
1,1,2,2-Tetrachloroethane, ug/L			0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloro-1,2,2-trifluoroetha, ug/L			0.2U	0.2U	0.2U	0.2U

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Table 1b. Groundwater Monitoring Data, Snipes Mountain Landfill

2025 Q2

Sample Name	SMW-1	SMW-4	SMW-5s	SMW-5d	DNR House	O.L. Luther
Constituent	GWQC					
1,1,2-Trichloroethane, ug/L			0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane, ug/L	1		0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene, ug/L			0.2U	0.2U	0.2U	0.2U
1,1-Dichloropropene, ug/L			0.2U	0.2U	0.2U	0.2U
1,2,3-Trichlorobenzene, ug/L			0.5U	0.5U	0.5U	0.5U
1,2,3-Trichloropropane, ug/L			0.5U	0.5U	0.5U	0.5U
1,2,4-Trichlorobenzene, ug/L	70		0.4U	0.4U	0.5U	0.5U
1,2,4-Trimethylbenzene, ug/L			0.2U	0.2U	0.2U	0.2U
1,2-Dibromo-3-chloropropane (DBCP), ug/L			0.5U	0.5U	0.5U	0.5U
1,2-Dibromoethane (EDB), ug/L	0.001		0.2U	0.2U	0.2U	0.2U
1,2-Dichlorobenzene, ug/L			0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC), ug/L	0.5		0.2U	0.2U	0.2U	0.2U
1,2-Dichloropropane, ug/L	0.6		0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene, ug/L			0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene, ug/L			0.2U	0.2U	0.2U	0.2U
1,3-Dichloropropane, ug/L			0.2U	0.2U	0.2U	0.2U
1,4-Dichlorobenzene, ug/L	4		0.2U	0.2U	0.2U	0.2U
2,2-Dichloropropane, ug/L			0.2U	0.2U	0.2U	0.2U
2-Butanone (MEK), ug/L			5U	5U	5U	5U
2-Chloroethyl Vinyl Ether, ug/L			1U	1U	1U	1U
2-Chlorotoluene, ug/L			0.2U	0.2U	0.2U	0.2U
2-Hexanone, ug/L			5U	5U	5U	5U
2-Pentanone, ug/L			5U	5U	5U	5U
4-Chlorotoluene, ug/L			0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene, ug/L			0.2U	0.2U	0.2U	0.2U
4-Methyl-2-Pentanone (MIBK), ug/L			5U	5U	5U	5U
Acetone, ug/L			7.78	5U	5U	6.48
Acrolein, ug/L			5U	5U	5U	5U
Acrylonitrile, ug/L	0.07		1U	1U	1U	1U
Benzene, ug/L	1		0.2U	0.2U	0.2U	0.2U
Bromobenzene, ug/L			0.2U	0.2U	0.2U	0.2U
Bromochloromethane, ug/L			0.2U	0.2U	0.2U	0.2U
Bromodichloromethane, ug/L	0.3		0.2U	0.2U	0.2U	0.2U
Bromoform, ug/L	5		0.2U	0.2U	0.2U	0.2U
Bromomethane, ug/L			1U	1U	1U	1U
Carbon Disulfide, ug/L			1.13	0.2U	0.2U	0.2U
Carbon Tetrachloride, ug/L	0.3		0.2U	0.2U	0.2U	0.2U
Chlorobenzene, ug/L	100		0.2U	0.2U	0.2U	0.2U
Chloroethane, ug/L			0.2U	0.2U	0.2U	0.2U
Chloroform, ug/L	7		0.2U	0.2U	0.2U	0.2U
Chloromethane, ug/L			0.5U	0.5U	0.5U	0.5U
cis-1,2-Dichloroethene, ug/L			0.2U	0.2U	0.11J	0.2U
cis-1,3-Dichloropropene, ug/L			0.2U	0.2U	0.2U	0.2U
Dibromochloromethane, ug/L	0.5		0.2U	0.2U	0.2U	0.2U

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Table 1b. Groundwater Monitoring Data, Snipes Mountain Landfill

2025 Q2

Sample Name		SMW-1	SMW-4	SMW-5s	SMW-5d	DNR House	O.L. Luther
Constituent	GWQC						
Dibromomethane, ug/L				0.2U	0.2U	0.2U	0.2U
Dichlorodifluoromethane (CFC 12), ug/L				0.2U	0.2U	0.39	0.2U
Dichloromethane(Methylene Chloride), ug/L	5			1U	1U	1U	1U
Ethylbenzene, ug/L	700			0.2U	0.2U	0.2U	0.2U
Iodomethane, ug/L				1U	1U	1U	1U
Isopropylbenzene (Cumene), ug/L				0.2U	0.2U	0.2U	0.2U
m,p-Xylene, ug/L				0.4U	0.4U	0.4U	0.4U
Methyl tert-Butyl Ether, ug/L				0.5U	0.5U	0.5U	0.5U
Naphthalene, ug/L				0.02U	0.02U	0.5U	0.5U
n-Butylbenzene, ug/L				0.2U	0.2U	0.2U	0.2U
n-Propylbenzene, ug/L				0.2U	0.2U	0.2U	0.2U
o-Xylene, ug/L				0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene, ug/L				0.2U	0.2U	0.2U	0.2U
Styrene, ug/L	100			0.2U	0.2U	0.2U	0.2U
tert-Butylbenzene, ug/L				0.2U	0.2U	0.2U	0.2U
Tetrachloroethene (PCE), ug/L	0.8			1.01	0.13J	6.01	0.84
Toluene, ug/L	1000			0.2U	0.2U	0.2U	0.2U
Total Xylenes, ug/L	10000			0.6U	0.6U	0.6U	0.6U
trans-1,2-Dichloroethene, ug/L	100			0.2U	0.2U	0.2U	0.2U
trans-1,3-Dichloropropene, ug/L				0.2U	0.2U	0.2U	0.2U
trans-1,4-Dichloro-2-butene, ug/L				1U	1U	1U	1U
Trichloroethene (TCE), ug/L	3			0.2U	0.2U	0.33	0.2U
Trichlorofluoromethane (CFC 11), ug/L				0.2U	0.2U	0.2U	0.2U
Vinyl Acetate, ug/L				0.2U	0.2U	0.2U	0.2U
Vinyl Chloride, ug/L	0.02			0.02U	0.02U	0.2U	0.2U
Chlorinated Pesticides							
4,4'-DDD, ug/L	0.3			0.0025U	0.0025U		
4,4'-DDE, ug/L	0.3			0.0025U	0.0025U		
4,4'-DDT, ug/L	0.3			0.0025U	0.0025U		
Aldrin, ug/L	0.005			0.0013U	0.0013U		
alpha-BHC, ug/L				0.0013U	0.0013U		
Alpha-Chlordane, ug/L				0.0013U	0.0013U		
beta-BHC, ug/L				0.0013U	0.0013U		
Chlordane, technical, ug/L	0.06			0.01U	0.01U		
delta-BHC, ug/L				0.0013U	0.0013U		
Endosulfan I, ug/L				0.0013U	0.0013U		
Endosulfan II, ug/L				0.0025U	0.0025U		
Endosulfan sulfate, ug/L				0.0025U	0.0025U		
Endrin, ug/L	0.2			0.0025U	0.0025U		
Endrin aldehyde, ug/L				0.0025U	0.0025U		
Endrin ketone, ug/L				0.0025U	0.0025U		
gamma-BHC (Lindane), ug/L	0.06			0.0013U	0.0013U		
Heptachlor, ug/L	0.02			0.0013U	0.0013U		

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M - Estimated value - low spectral match parameters.

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Table 1b. Groundwater Monitoring Data, Snipes Mountain Landfill

2025 Q2

Sample Name	SMW-1	SMW-4	SMW-5s	SMW-5d	DNR House	O.L. Luther
Constituent	GWQC					
Heptachlor Epoxide, ug/L	0.009		0.0013U	0.0013U		
Hexachlorobenzene, ug/L	0.05		0.0025U	0.0025U		
Hexachlorobutadiene, ug/L			0.0025U	0.0025U	0.5U	0.5U
Methoxychlor, ug/L	100		0.0125U	0.0125U		
Oxychlorane, ug/L			0.0025U	0.0025U		
trans-Chlordane, ug/L			0.0013U	0.0013U		
Dioxins/Furans						
1,2,3,4,6,7,8-HpCDD, pg/L			9.8U	10.3U		
1,2,3,4,6,7,8-HpCDF, pg/L			19.6U	20.6U		
1,2,3,4,7,8,9-HpCDF, pg/L			9.8U	10.3U		
1,2,3,4,7,8-HxCDD, pg/L			9.8U	10.3U		
1,2,3,4,7,8-HxCDF, pg/L			9.8U	10.3U		
1,2,3,6,7,8-HxCDD, pg/L			9.8U	10.3U		
1,2,3,6,7,8-HxCDF, pg/L			9.8U	10.3U		
1,2,3,7,8,9-HxCDD, pg/L			9.8U	10.3U		
1,2,3,7,8,9-HxCDF, pg/L			9.8U	10.3U		
1,2,3,7,8-PeCDD, pg/L			9.8U	10.3U		
1,2,3,7,8-PeCDF, pg/L			9.8U	10.3U		
2,3,4,6,7,8-HxCDF, pg/L			9.8U	10.3U		
2,3,4,7,8-PeCDF, pg/L			9.8U	10.3U		
2,3,7,8-TCDD, pg/L			9.8U	10.3U		
2,3,7,8-TCDF, pg/L			9.8U	10.3U		
OCDD, pg/L			57.9B	51.5U		
OCDF, pg/L			19.6U	20.6U		
Total HpCDD, pg/L			9.8U	10.3U		
Total HpCDF, pg/L			9.8U	10.3U		
Total HxCDD, pg/L			9.8U	10.3U		
Total HxCDF, pg/L			9.8U	10.3U		
Total PeCDD, pg/L			9.8U	10.3U		
Total PeCDF, pg/L			9.8U	10.3U		
Total TCDD, pg/L			9.8U	10.3U		
Total TCDF, pg/L			9.8U	10.3U		
Herbicides						
Dinoseb, ug/L	7		2.4U	2.4U		
PFAS						
11CI-PF3OUdS, ng/L			20U	1.7U		
3:3 FTCA, ng/L			2.6J	3.4U		
4,8-Dioxa-3H-perfluorononanoic acid, ng/L			20U	1.7U		
4:2 FTS, ng/L			2.7U	3.4U		
5:3 FTCA, ng/L			100U	8.5U		
6:2 FTS, ng/L			40U	3.4U		
7:3 FTCA, ng/L			100U	8.5U		

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Table 1b. Groundwater Monitoring Data, Snipes Mountain Landfill

2025 Q2

Sample Name		SMW-1	SMW-4	SMW-5s	SMW-5d	DNR House	O.L. Luther
Constituent	GWQC						
8:2 FTS, ng/L				40U	3.4U		
9Cl-PF3ONS, ng/L				20U	1.7U		
HFPO-DA (GenX), ng/L	10			15U	1.3U		
NEtFOSA, ng/L				20U	1.7U		
NEtFOSAA, ng/L				20U	1.7U		
NEtFOSE, ng/L				100U	8.5U		
NFDHA, ng/L				20U	1.7U		
NMeFOSA, ng/L				20U	1.7U		
NMeFOSAA, ng/L				20U	1.7U		
NMeFOSE, ng/L				100U	8.5U		
Perfluorobutanesulfonic acid (PFBS), ng/L	2000			20U	1.7U		
Perfluorobutanoic acid (PFBA), ng/L				66	1.5J		
Perfluorodecanesulfonic acid (PFDS), ng/L				20U	1.7U		
Perfluorodecanoic acid (PFDA), ng/L				20U	1.7U		
Perfluorododecanesulfonic acid, ng/L				20U	1.7U		
Perfluorododecanoic acid (PFDoA), ng/L				20U	1.7U		
Perfluoroheptanesulfonic acid, ng/L				20U	1.7U		
Perfluoroheptanoic acid (PFHpA), ng/L				20U	1.7U		
Perfluorohexanesulfonic acid, ng/L	10			20U	1.7U		
Perfluorohexanoic acid (PFHxA), ng/L				20U	1.7U		
Perfluorononanesulfonic acid (PFNS), ng/L				20U	1.7U		
Perfluorononanoic acid (PFNA), ng/L	10			20U	1.7U		
Perfluorooctanesulfonamide (PFOSA), ng/L				20U	1.7U		
Perfluorooctanesulfonic acid (PFOS), ng/L	4			20U	4.3		
Perfluorooctanoic acid (PFOA), ng/L	4			20U	0.54J		
Perfluoropentanesulfonic acid, ng/L				20U	1.7U		
Perfluoropentanoic acid (PFPeA), ng/L				27	1.3J		
Perfluorotetradecanoic acid, ng/L				20U	1.7U		
Perfluorotridecanoic acid (PFTrDA), ng/L				20U	1.7U		
Perfluoroundecanoic acid (PFUnA), ng/L				20U	1.7U		
PFEESA, ng/L				20U	1.7U		
PFMBA, ng/L				1.3U	1.7U		
PFMPA, ng/L				1.3U	1.7U		
SVOC							
1,2,4-Trichlorobenzene, ug/L	70			0.4U	0.4U	0.5U	0.5U
1,2-Dichlorobenzene, ug/L				0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene, ug/L				0.2U	0.2U	0.2U	0.2U
1,4-Dichlorobenzene, ug/L	4			0.2U	0.2U	0.2U	0.2U
1,4-Dioxane, ug/L	7			0.4U	0.4U		
1-Methylnaphthalene, ug/L				0.02U	0.02U		
2,3,4,6-Tetrachlorophenol, ug/L				0.4U	0.4U		
2,4,5-Trichlorophenol, ug/L				2U	2U		
2,4,6-Trichlorophenol, ug/L	4			2U	2U		

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Table 1b. Groundwater Monitoring Data, Snipes Mountain Landfill

2025 Q2

Sample Name	SMW-1	SMW-4	SMW-5s	SMW-5d	DNR House	O.L. Luther
Constituent	GWQC					
2,4-Dichlorophenol, ug/L			2U	2U		
2,4-Dimethylphenol, ug/L			2U	2U		
2,4-Dinitrophenol, ug/L			4U	4U		
2,4-Dinitrotoluene, ug/L	0.1		2U	2U		
2,6-Dinitrotoluene, ug/L	0.1		2U	2U		
2-Chloronaphthalene, ug/L			0.4U	0.4U		
2-Chlorophenol, ug/L			0.4U	0.4U		
2-Methyl-4,6-dinitrophenol, ug/L			4U	4U		
2-Methylnaphthalene, ug/L			0.02U	0.02U		
2-Methylphenol, ug/L			0.4U	0.4U		
2-Nitroaniline, ug/L			2U	2U		
2-Nitrophenol, ug/L			2U	2U		
3,3'-Dichlorobenzidine, ug/L	0.2		2U	2U		
3-Nitroaniline, ug/L			2U	2U		
4-Bromophenyl Phenyl Ether, ug/L			0.4U	0.4U		
4-Chloro-3-methylphenol, ug/L			2U	2U		
4-Chloroaniline, ug/L			2U	2U		
4-Chlorophenyl Phenyl Ether, ug/L			0.4U	0.4U		
4-Methylphenol, ug/L			0.4U	0.4U		
4-Nitroaniline, ug/L			2U	2U		
4-Nitrophenol, ug/L			2U	2U		
Acenaphthene, ug/L			0.02U	0.02U		
Acenaphthylene, ug/L			0.02U	0.02U		
Anthracene, ug/L			0.02U	0.02U		
Benz(a)anthracene, ug/L			0.02U	0.02U		
Benzo(a)pyrene, ug/L	0.008		0.02U	0.02U		
Benzo(b)fluoranthene, ug/L			0.02U	0.02U		
Benzo(g,h,i)perylene, ug/L			0.02U	0.02U		
Benzo(j)fluoranthene, ug/L			0.02U	0.02U		
Benzo(k)fluoranthene, ug/L			0.02U	0.02U		
Benzofluoranthenes, Total, ug/L			0.02U	0.02U		
Benzoic Acid, ug/L			4U	4U		
Benzyl Alcohol, ug/L			0.4U	0.4U		
Bis(2-chloroethoxy)methane, ug/L			0.4U	0.4U		
Bis(2-chloroethyl) Ether, ug/L			0.4U	0.4U		
Bis(2-chloroisopropyl) Ether, ug/L			0.4U	0.4U		
Bis(2-ethylhexyl) Phthalate, ug/L	6		7.7B	2.3B		
Butylbenzyl Phthalate, ug/L			0.4U	0.4U		
Carbazole, ug/L	5		0.02U	0.02U		
Chrysene, ug/L			0.02U	0.02U		
Dibenz(a,h)anthracene, ug/L			0.02U	0.02U		
Dibenzofuran, ug/L			0.02U	0.025H		
Diethyl Phthalate, ug/L			0.3J	0.4U		
Dimethyl Phthalate, ug/L			0.4U	0.4U		

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Table 1b. Groundwater Monitoring Data, Snipes Mountain Landfill

2025 Q2

Sample Name	SMW-1	SMW-4	SMW-5s	SMW-5d	DNR House	O.L. Luther
Constituent	GWQC					
Di-n-butyl Phthalate, ug/L			0.4U	0.4U		
Di-n-Octyl phthalate, ug/L			0.4U	0.4U		
Fluoranthene, ug/L			0.02U	0.02U		
Fluorene, ug/L			0.02U	0.02U		
Hexachlorocyclopentadiene, ug/L			2U	2U		
Hexachloroethane, ug/L			0.4U	0.4U		
Indeno(1,2,3-cd)pyrene, ug/L			0.02U	0.02U		
Isophorone, ug/L			0.4U	0.4U		
Naphthalene, ug/L			0.02U	0.02U	0.5U	0.5U
Nitrobenzene, ug/L			0.4U	0.4U		
N-Nitroso-Di-N-Propylamine, ug/L	0.01		0.4U	0.4U		
N-Nitrosodiphenylamine, ug/L	17		0.4U	0.4U		
Pentachlorophenol, ug/L			2U	2U		
Perylene, ug/L			0.02U	0.02U		
Phenanthrene, ug/L			0.02U	0.02U		
Phenol, ug/L			0.4U	0.4U		
Pyrene, ug/L			0.02U	0.02U		

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GWQC - Groundwater Quality Criteria as outlined in WAC 173-200, Appendix A. These values are the most stringent levels derived from WAC 173-200 (10/1990) and WAC 246-290 (7/2004). The Groundwater Quality Criteria for pH is 6.5 to 8.5.

Table 2. Detected VOCs in SMW-5s and SMW-5d, 2020 Q2-2025 Q2

Closed Snipes Mountain Landfill

Detected VOC	Sample Date	Units	SMW-5d	SMW-5s
1,1,2-Trichloro-1,2,2-trifluoroethane	6/9/2020	µg/L	NC	0.33
1,1,2-Trichloro-1,2,2-trifluoroethane	1/10/2023	µg/L	0.20U	0.79
1,1,2-Trichloro-1,2,2-trifluoroethane	5/23/2023	µg/L	0.20U	1.45
1,1,2-Trichloro-1,2,2-trifluoroethane	6/12/2024	µg/L	0.11U	0.16J
1,1,2-Trichloro-1,2,2-trifluoroethane	8/29/2024	µg/L	0.20U	1.49
1,1,2-Trichloro-1,2,2-trifluoroethane	2/26/2025	µg/L	0.20U	0.27
1,2,4-Trimethylbenzene	6/12/2024	µg/L	0.08J	0.05U
Acetone	6/12/2024	µg/L	1.91U	2.13J
Acetone	11/20/2024	µg/L	5.00U	14.2
Acetone	6/24/2025	µg/L	5.00U	7.78
Carbon Disulfide	6/9/2020	µg/L	NC	0.29
Carbon Disulfide	6/10/2021	µg/L	NC	0.25
Carbon Disulfide	1/10/2023	µg/L	0.20U	0.7
Carbon Disulfide	5/23/2023	µg/L	0.20U	1.71
Carbon Disulfide	8/29/2024	µg/L	0.20U	0.26
Carbon Disulfide	6/24/2025	µg/L	0.20U	1.13
Chloroethane	6/10/2021	µg/L	NC	0.29
Dichlorodifluoromethane (CFC 12)	6/9/2020	µg/L	NC	0.3
Dichlorodifluoromethane (CFC 12)	12/29/2020	µg/L	NC	0.3Q
Dichlorodifluoromethane (CFC 12)	6/10/2021	µg/L	NC	0.35
Dichlorodifluoromethane (CFC 12)	1/10/2023	µg/L	0.20U	0.22
Dichlorodifluoromethane (CFC 12)	6/12/2024	µg/L	0.13U	0.18J
Tetrachloroethene (PCE)	6/9/2020	µg/L	NC	2.63
Tetrachloroethene (PCE)	12/29/2020	µg/L	NC	2.43
Tetrachloroethene (PCE)	6/10/2021	µg/L	NC	3.11
Tetrachloroethene (PCE)	12/8/2021	µg/L	NC	1.73
Tetrachloroethene (PCE)	1/10/2023	µg/L	0.20U	0.97
Tetrachloroethene (PCE)	5/23/2023	µg/L	0.20U	0.49
Tetrachloroethene (PCE)	12/5/2023	µg/L	0.20U	1.33
Tetrachloroethene (PCE)	6/12/2024	µg/L	0.09U	1.56
Tetrachloroethene (PCE)	8/29/2024	µg/L	0.14J	0.57
Tetrachloroethene (PCE)	11/20/2024	µg/L	0.10U	0.88
Tetrachloroethene (PCE)	2/26/2025	µg/L	0.10U	1.11
Tetrachloroethene (PCE)	6/24/2025	µg/L	0.13J	1.01
Trichloroethene (TCE)	6/10/2021	µg/L	NC	0.23
Trichloroethene (TCE)	6/12/2024	µg/L	0.07U	0.1J

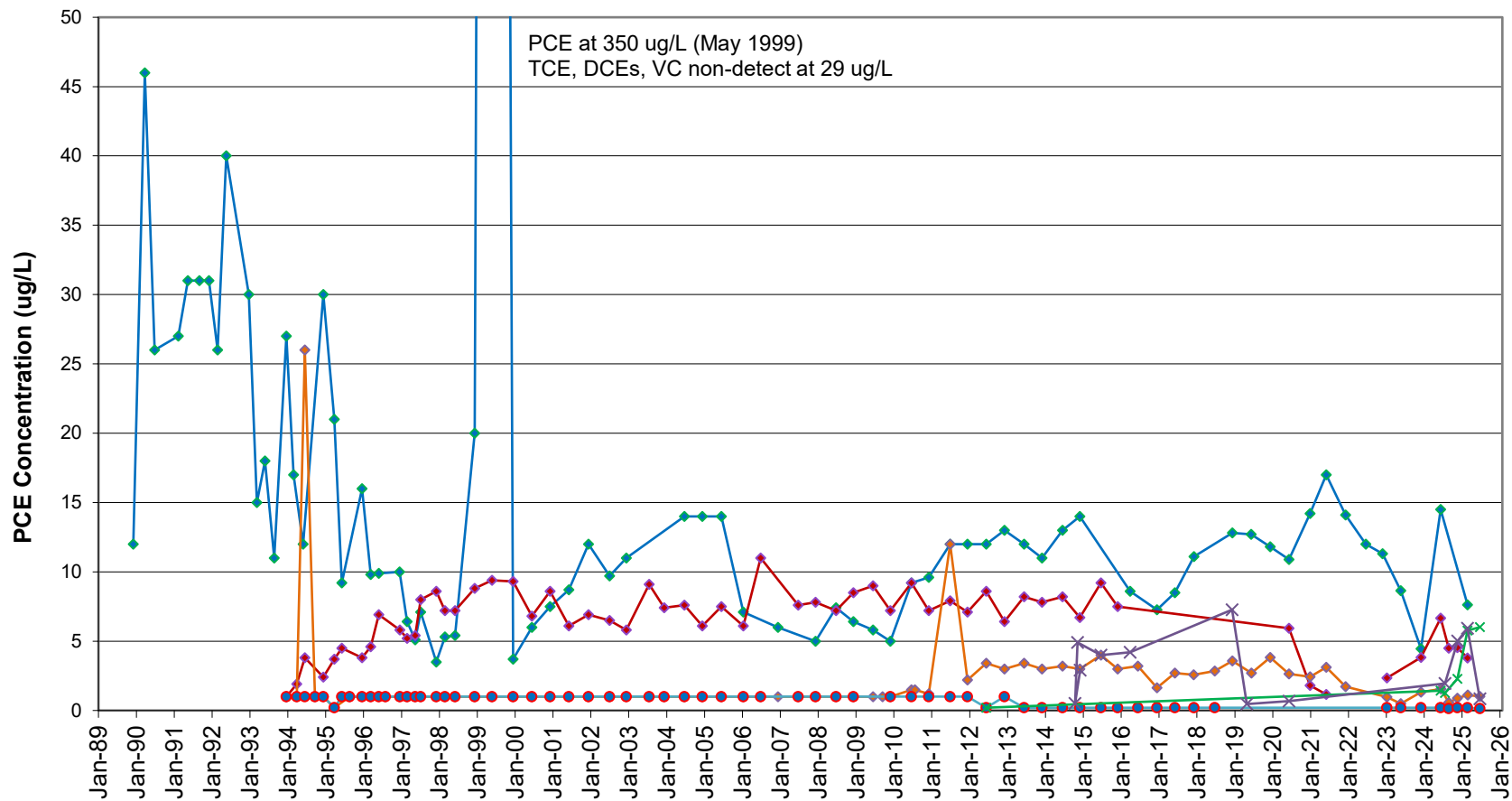
ug/L = micrograms per liter

J = Estimated concentration value detected below the reporting limit.

NC = Sample not collected

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)

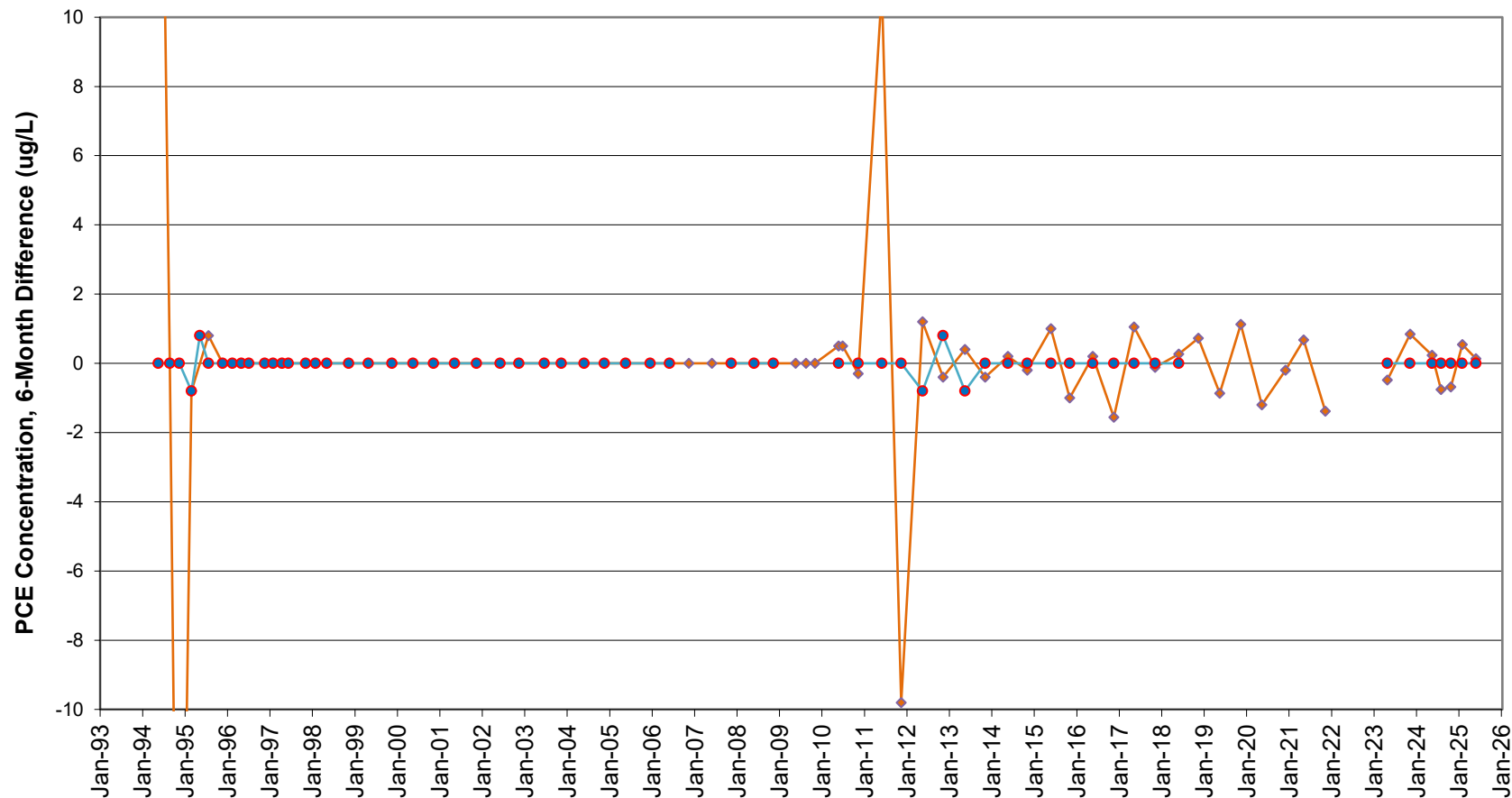
U = This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD)



SMW-1 SMW-4 SMW-5S
 SMW-5D DNR House O.L. Luther

Non-detects plotted at reporting limit

Figure 1a. Tetrachloroethene (PCE) Time Series Plot
Closed Snipes Mountain Landfill

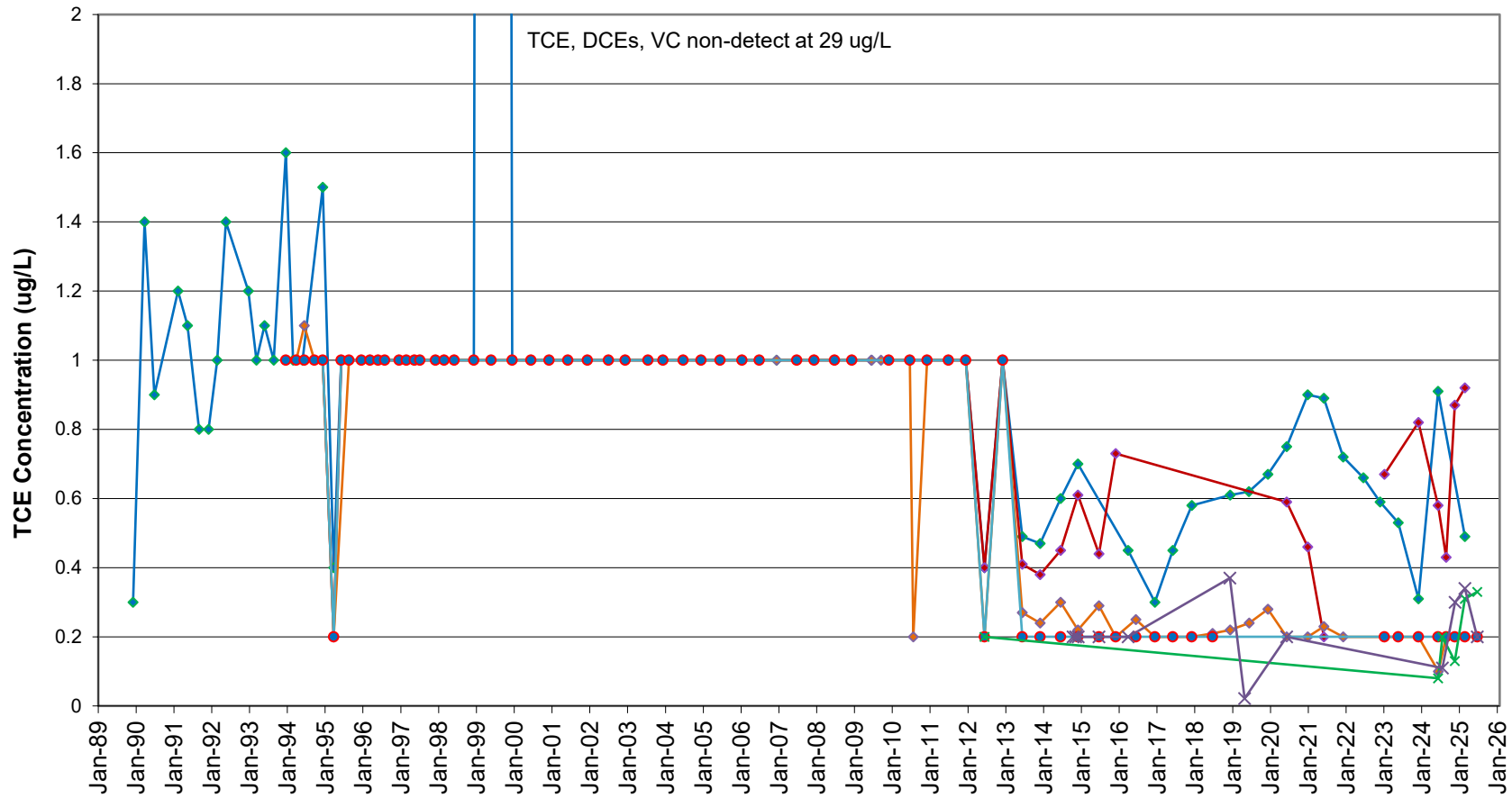


—◆— SMW-5S
 —●— SMW-5D

Non-detects plotted at reporting limit

Figure 1b. Tetrachloroethene (PCE) Time Series Plot, 6-Month Difference

Closed Snipes Mountain Landfill

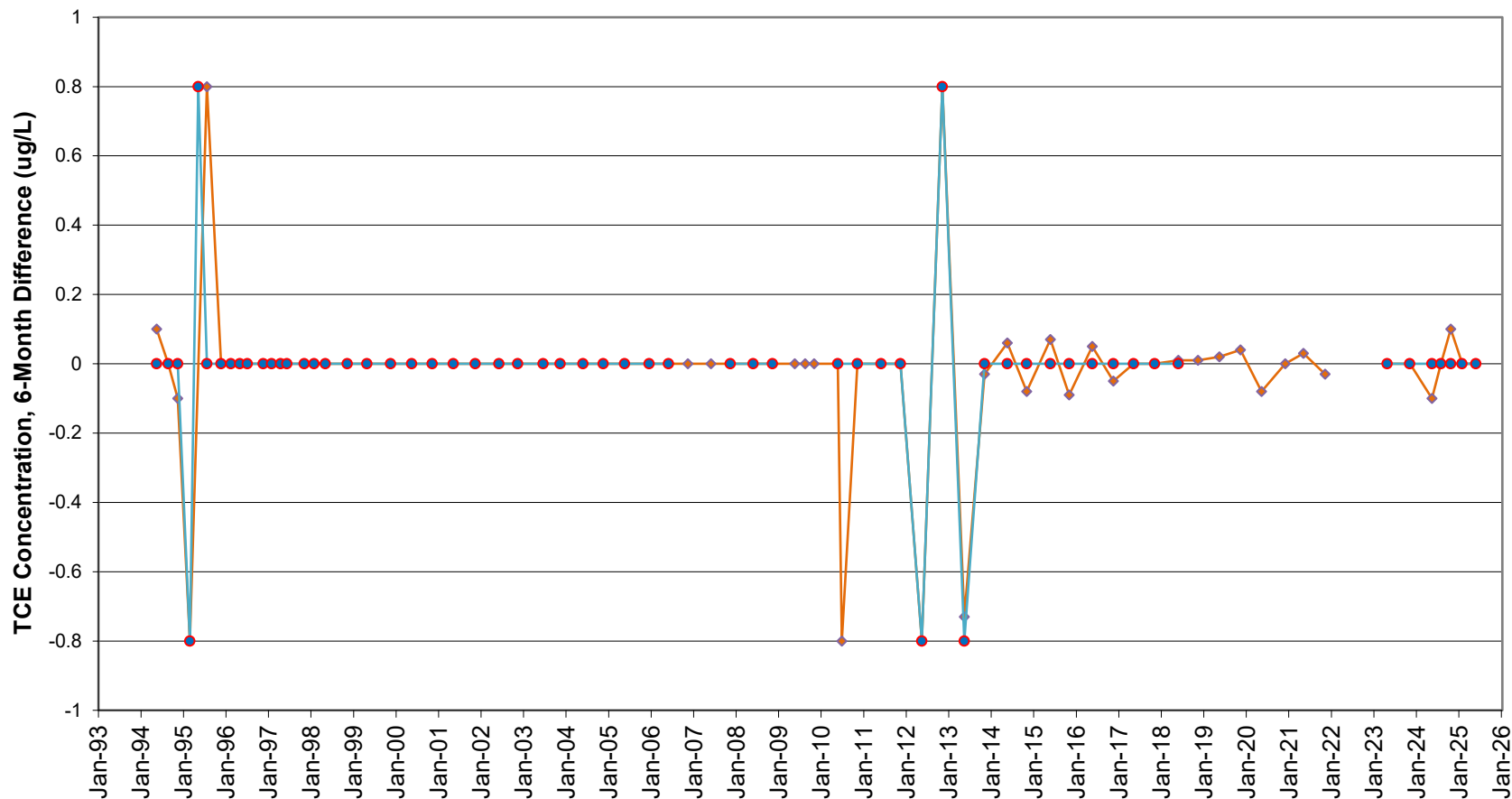


SMW-1 SMW-4 SMW-5S
 SMW-5D DNR House O.L. Luther

Non-detects plotted at reporting limit

Figure 2a. Trichloroethene (TCE) Time Series Plot

Closed Snipes Mountain Landfill



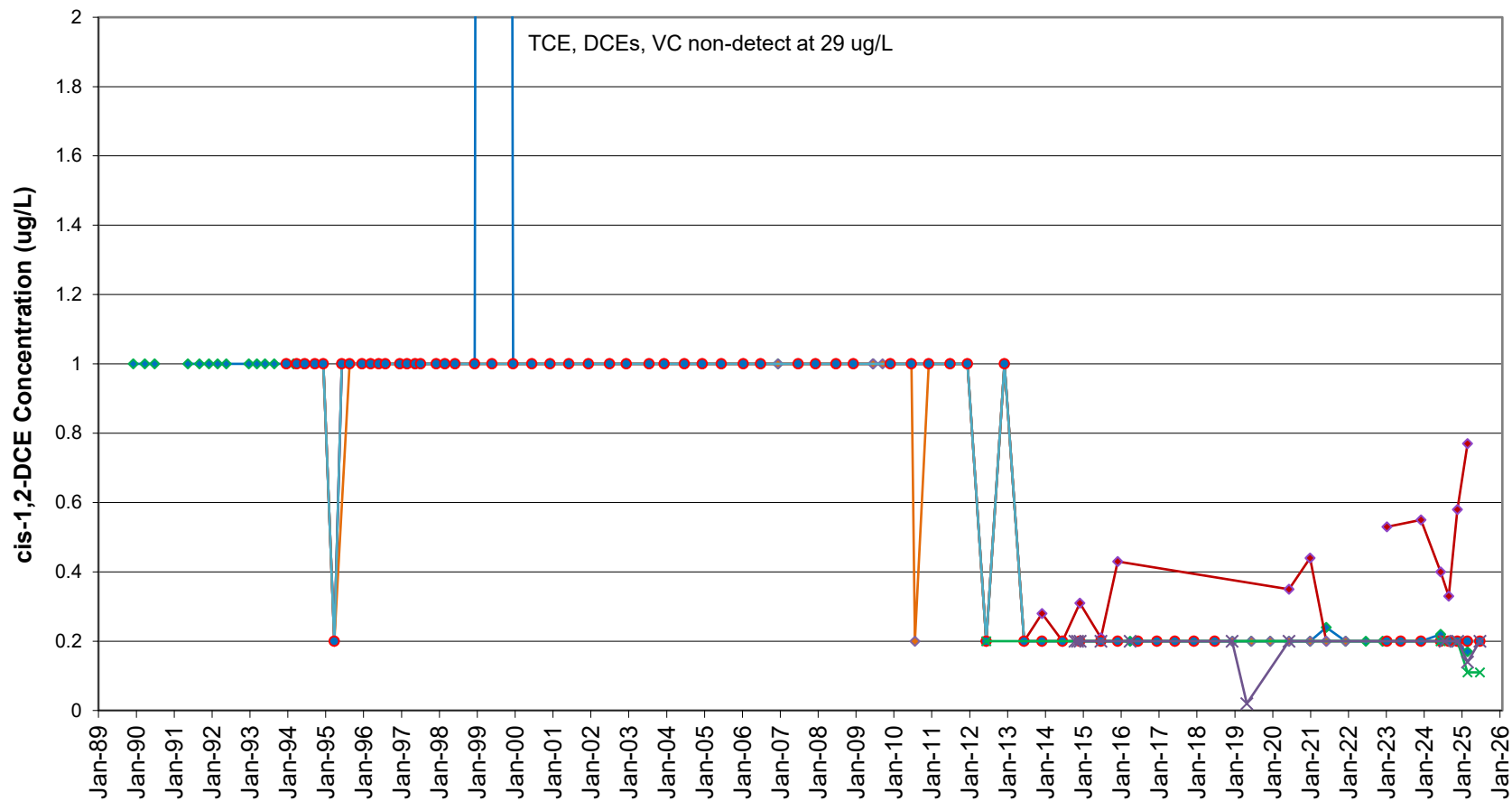
SMW-5S

SMW-5D

Non-detects plotted at reporting limit

Figure 2b. Trichloroethene (TCE) Time Series Plot, 6-Month Difference

Closed Snipes Mountain Landfill

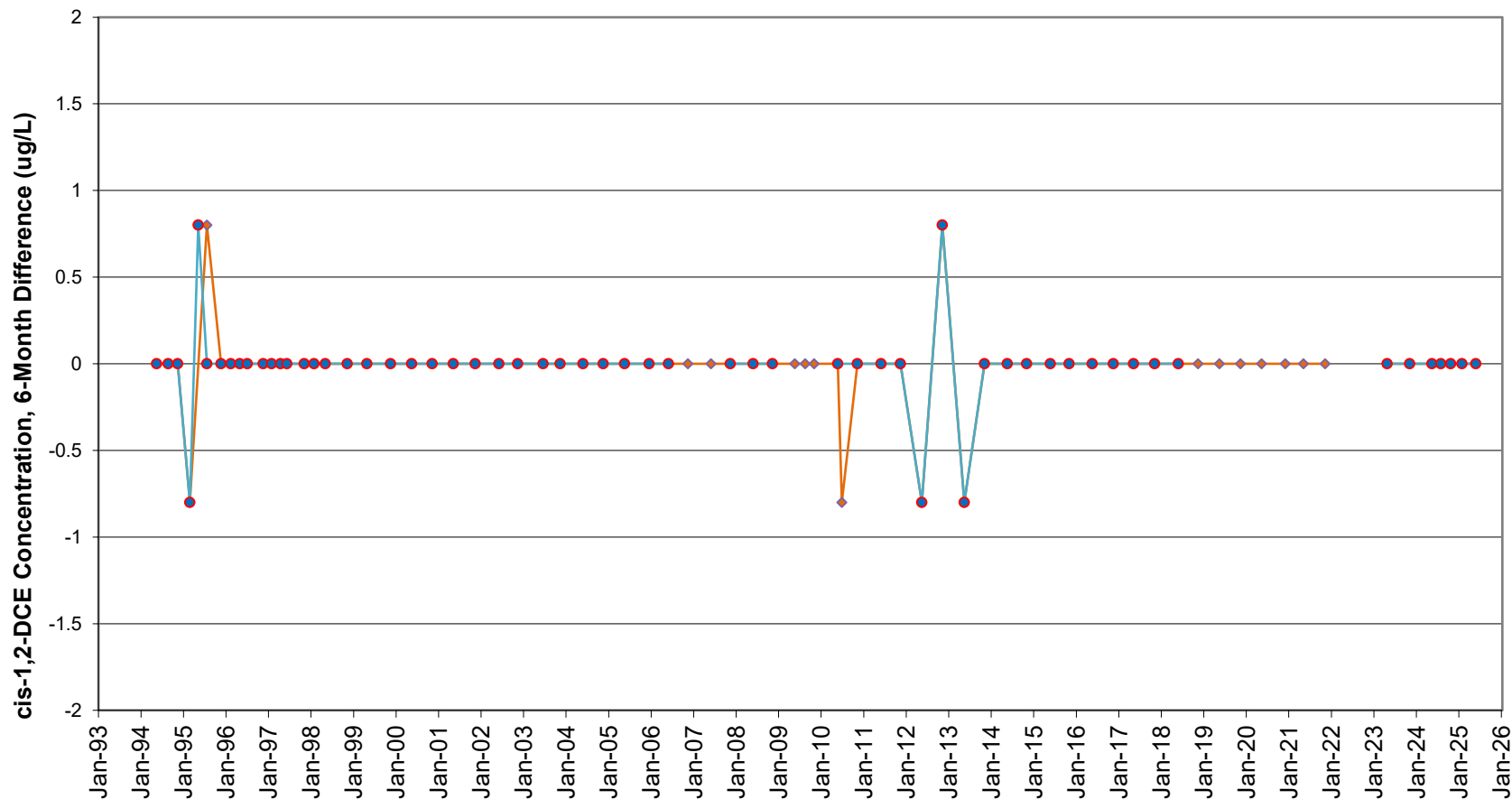


SMW-1 SMW-4 SMW-5S
 SMW-5D DNR House O.L. Luther

Non-detects plotted at reporting limit

Figure 3a. cis-1,2-dichloroethene (cis-1,2-DCE) Time Series Plot

Closed Snipes Mountain Landfill



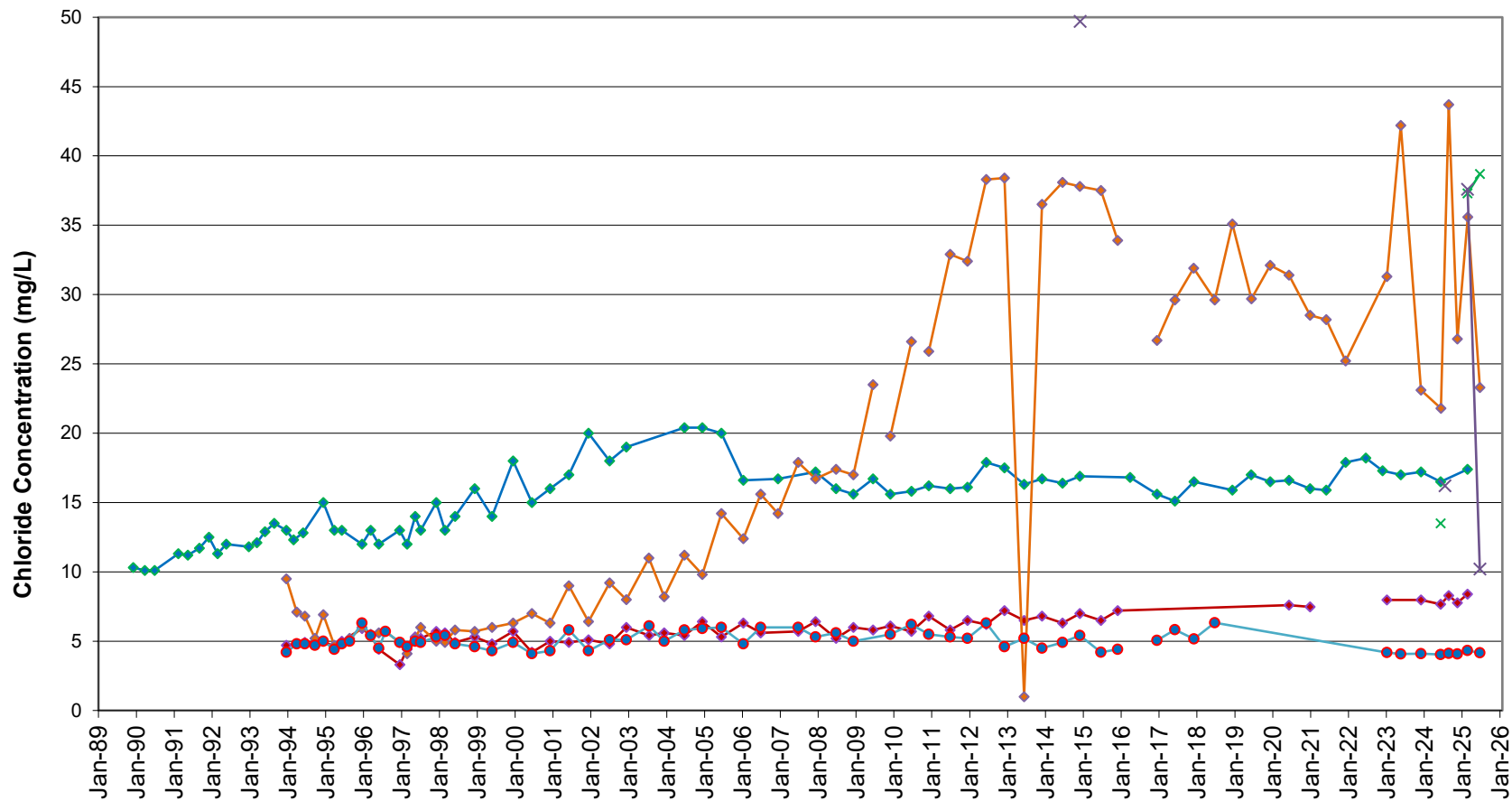
SMW-5S

SMW-5D

Non-detects plotted at reporting limit

Figure 3b. cis-1,2-dichloroethene (cis-1,2-DCE) Time Series Plot, 6-Month Difference

Closed Snipes Mountain Landfill

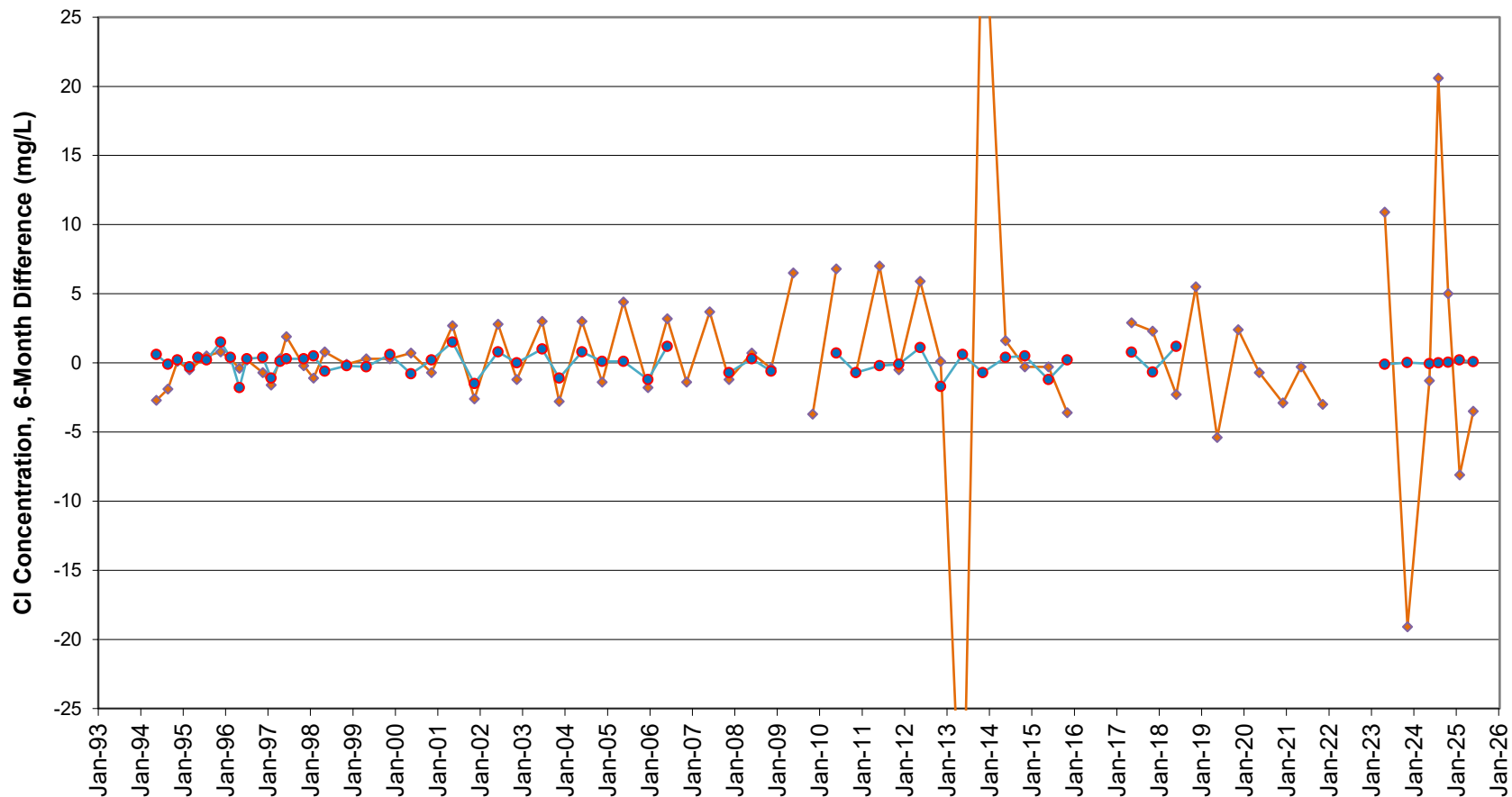


◆ SMW-1 ◆ SMW-4 ◆ SMW-5S
 ● SMW-5D × DNR House × O.L. Luther

Non-detects plotted at reporting limit

Figure 4a. Chloride Time Series Plot

Closed Snipes Mountain Landfill



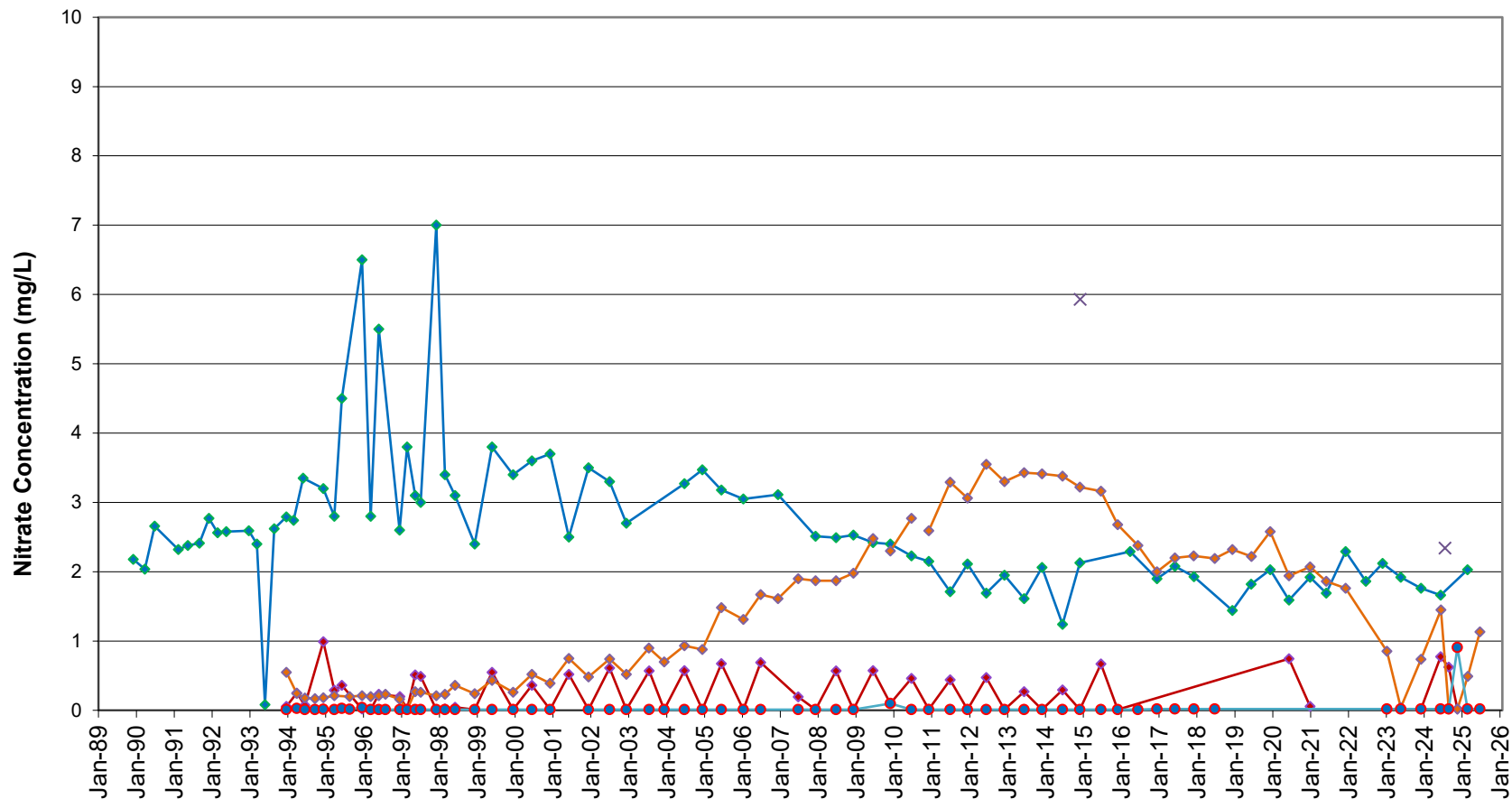
SMW-5S

SMW-5D

Non-detects plotted at reporting limit

Figure 4b. Chloride Time Series Plot, 6-Month Difference

Closed Snipes Mountain Landfill

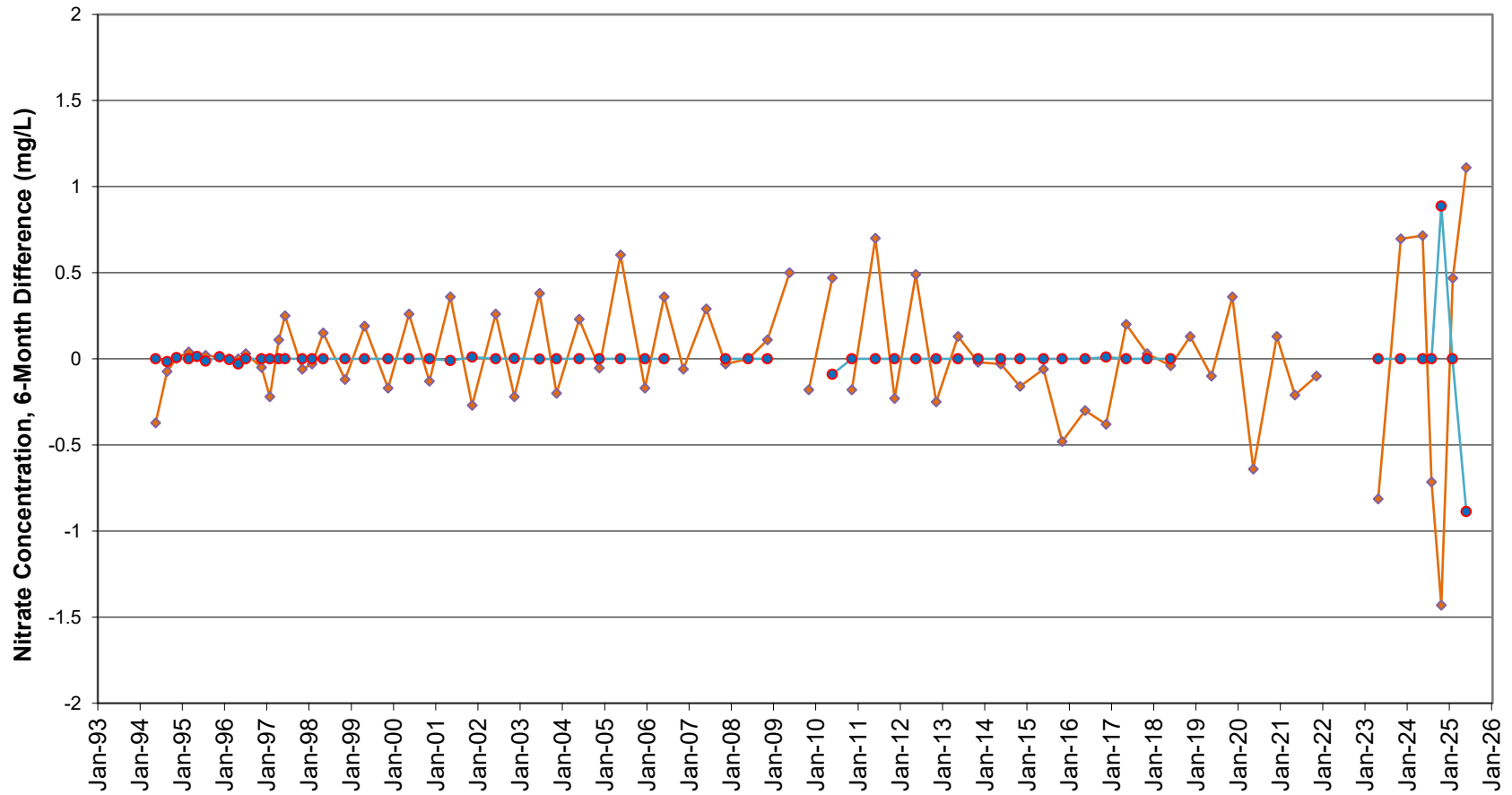


◆ SMW-1 ◆ SMW-4 ◆ SMW-5S
 ◆ SMW-5D ◆ DNR House ✕ O.L. Luther

Non-detects plotted at reporting limit

Figure 5a. Nitrate Time Series Plot

Closed Snipes Mountain Landfill



—◆— SMW-5S

—●— SMW-5D

Non-detects plotted at reporting limit

Figure 5b. Nitrate Time Series Plot, 6-Month Difference

Closed Snipes Mountain Landfill

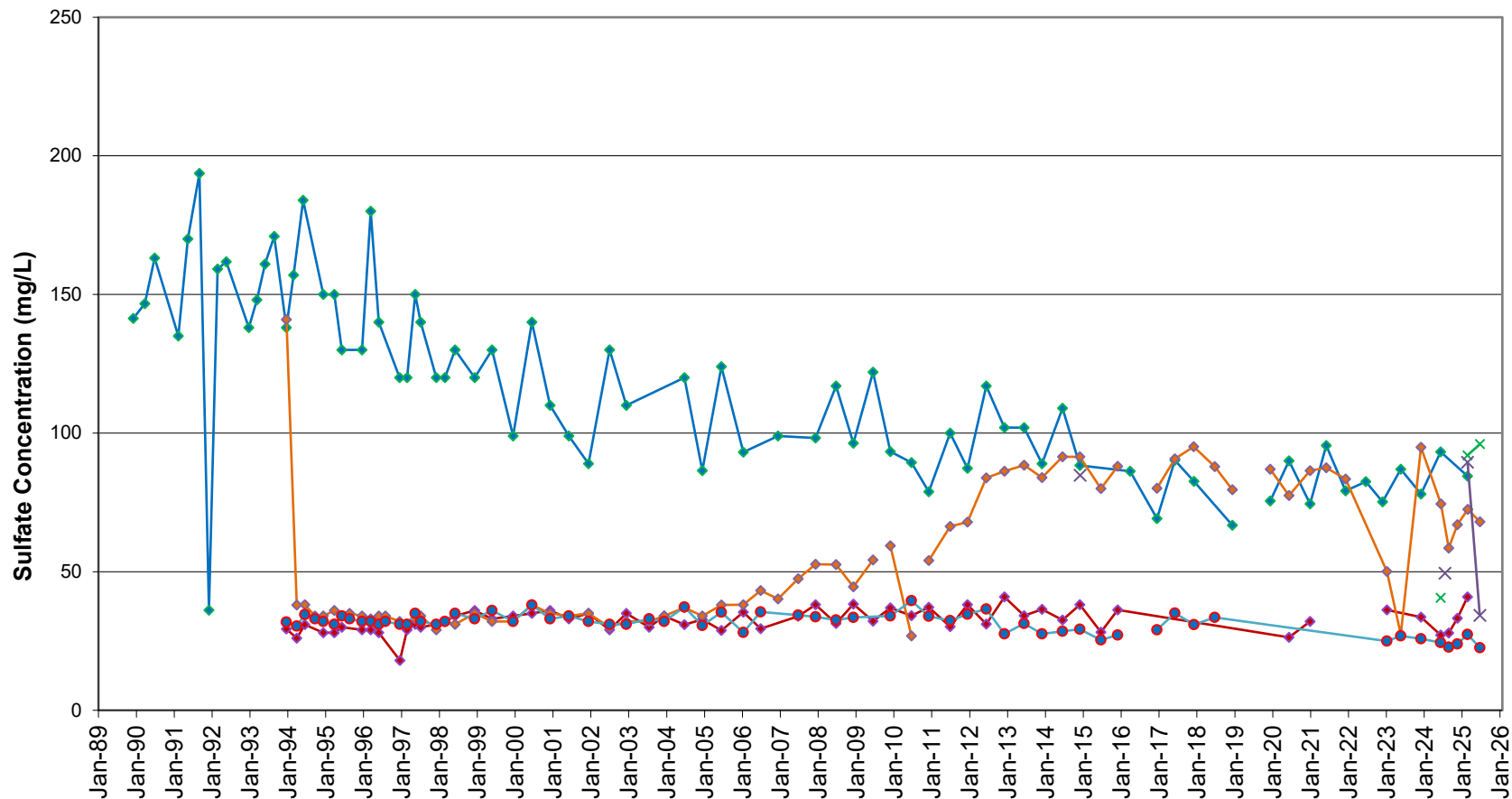


Figure 6a. Sulfate Time Series Plot

Closed Snipes Mountain Landfill

Non-detects plotted at reporting limit



SMW-5S

SMW-5D

Non-detects plotted at reporting limit

Figure 6b. Sulfate Time Series Plot, 6-Month Difference

Closed Snipes Mountain Landfill