

From: [Alec Rizzo](#)
To: [Campbell, Peter C \(DEC\)](#)
Cc: krviteso@gmail.com
Subject: ADEC File No. 2319.26.002 Kasilof Riverview Lodge
Date: Wednesday, February 21, 2024 1:01:56 PM
Attachments: [image001.png](#)
[1236845.pdf](#)
[Field Notes.pdf](#)

You don't often get email from alec.rizzo@shanwil.com. [Learn why this is important](#)

CAUTION: This email originated from outside the State of Alaska mail system. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon,

Shannon & Wilson conducted quarterly groundwater monitoring activities in December 2023. Similarly to the September 2023 quarterly event, analytical results showed benzene (maximum 11.9 ug/L) exceeding ADEC Table C cleanup criteria in Well MW5. The remaining groundwater wells either had concentrations of GRO, DRO, VOCs, and/or PAHs below cleanup criteria or the tested analytes were reported as non-detect. In addition, all of the drinking water sample results were reported as non-detect. I have attached the SGS laboratory report and sampling field notes. The next quarterly groundwater event is in March 2024.

Thank you and please let me know if you have any questions,
Alec

Alec J. Rizzo

PROFESSIONAL IV

 SHANNON & WILSON

5430 Fairbanks Street, Suite 3
Anchorage, AK 99518
shannonwilson.com

Phone: **(907) 561-2120**
Direct: **(907) 433-3228**

alec.rizzo@shanwil.com

Please note, my email address has been updated. You can still reach me at the old address.



LOW-FLOW WATER SAMPLING LOG

Shannon & Wilson, Inc.

Job No: 110026 Location: Kasilof River Lodge Weather: 15° overcast
 Well No.: MW1
 Date: 12/20/23 Time Started: 11:02 Time Completed: 12:00

INITIAL GROUNDWATER LEVEL DATA

Time of Depth Measurement: 18:16 Date of Depth Measurement: 12/19/23
 Measuring Point (MP): Top of PVC Casing / Top of Steel Protective Casing / Other:
 Diameter of Casing: 2" Well Screen Interval: Bottom 10'
 Total Depth of Well Below MP: 34.37 Product Thickness, if noted: _____
 Depth-to-Water (DTW) Below MP: 23.41
 Water Column in Well: 10.96 (Total Depth of Well Below MP - DTW Below MP)
 Gallons per foot: 0.16
 Gallons in Well: 1.75 (Water Column in Well x Gallons per foot)

PURGING DATA

Date Purged: 12/20/23 Time Started: 11:22 Time Completed: 11:51
 Three Well Volumes: 5.26 (Gallons in Well x 3)
 Gallons Purged: 1.2 Depth of Pump (generally 2 ft from bottom): ~25.5'
 Max. Drawdown (generally 0.3 ft): 0.27 Pump Rate: 0.3 L/min
 Well Purged Dry: Yes No (If yes, use Well Purged Dry Log)

Time:	Gallons:	Pump Rate (L/min):	DTW (ft BMP):	Drawdown (ft):	Temp: (°C)	Sp. Cond.: (uS/cm)	DO: (mg/L)	pH: (S.U.)	ORP: (mV)	Turb: (NTU)
<u>11:27</u>	<u>0.4</u>	<u>0.3</u>	<u>23.68</u>	<u>0.27</u>	<u>4.38</u>	<u>460</u>	<u>↓</u>	<u>5.96</u>	<u>↓</u>	<u>19.33</u>
<u>11:32</u>	<u>0.8</u>	<u>0.3</u>	<u>23.68</u>	<u>0.27</u>	<u>3.60</u>	<u>454</u>	<u>↓</u>	<u>5.92</u>	<u>↓</u>	<u>8.48</u>
<u>11:35</u>	<u>1.0</u>	<u>0.3</u>	<u>23.68</u>	<u>0.27</u>	<u>3.52</u>	<u>451</u>	<u>↓</u>	<u>5.88</u>	<u>↓</u>	<u>6.94</u>
<u>11:38</u>	<u>1.2</u>	<u>0.3</u>	<u>23.68</u>	<u>0.27</u>	<u>3.48</u>	<u>449</u>	<u>↓</u>	<u>5.87</u>	<u>↓</u>	<u>5.29</u>

SAMPLING DATA

Odor: None Color: Clear
 Sample Designation: 110026-MW1 Time / Date: 11:39 12/20/23
 QC Sample Designation: _____ Time / Date: _____
 QA Sample Designation: _____ Time / Date: _____

Evacuation Method: Submersible Pump / Other: Double Whale
 Sampling Method: Submersible Pump / Other: Double Whale

Water Quality Instruments Used/Manufacturer/Model Number KSI 556 + Micro TPW

Calibration Info (Time, Ranges, etc) 8:00 12/20/23

Remarks: _____

Sampling Personnel: ZJT

WELL CASING VOLUMES (GAL/FT): 1" = 0.04 2" = 0.16 4" = 0.65
 ANNULAR SPACE VOLUME (GAL/FT): 4" casing and 2" well = 0.23



LOW-FLOW WATER SAMPLING LOG

Shannon & Wilson, Inc.

Job No: 110026 Location: Kasilof River Lodge Weather: 15° overcast
 Well No.: MW2
 Date: 12/20/23 Time Started: 13:05 Time Completed: 16:05

INITIAL GROUNDWATER LEVEL DATA

Time of Depth Measurement: 18:28 Date of Depth Measurement: 12/19/23
 Measuring Point (MP): Top of PVC Casing / Top of Steel Protective Casing / Other:
 Diameter of Casing: 2" Well Screen Interval: Bottom 10'
 Total Depth of Well Below MP: 35.12 Product Thickness, if noted: _____
 Depth-to-Water (DTW) Below MP: 29.82
 Water Column in Well: 5.3 (Total Depth of Well Below MP - DTW Below MP)
 Gallons per foot: 0.16
 Gallons in Well: 0.85 (Water Column in Well x Gallons per foot)

PURGING DATA

Date Purged: 12/20/23 Time Started: 15:19 Time Completed: 15:50
 Three Well Volumes: 2.54 (Gallons in Well x 3)
 Gallons Purged: 1.2 Depth of Pump (generally 2 ft from bottom): ~32.0'
 Max. Drawdown (generally 0.3 ft): 0.23 Pump Rate: 0.3 L/min
 Well Purged Dry: Yes No (If yes, use Well Purged Dry Log)

Time:	Gallons:	Pump Rate (L/min):	DTW (ft BMP):	Drawdown (ft):	Temp: (°C)	Sp. Cond.: (uS/cm)	DQ: (mg/L)	pH: (S.U.)	ORP: (mV)	Turb: (NTU)
15:24	0.4	0.3	29.99	0.17	2.79	448	↓	6.35	↓	7.79
15:29	0.8	0.3	30.05	0.23	2.78	446	↓	6.31	↓	5.44
15:32	1.0	0.3	30.05	0.23	2.72	445	↓	6.28	↓	7.78
15:35	1.2	0.3	30.05	0.23	2.69	445	↓	6.28	↓	8.47
							↓		↓	

SAMPLING DATA

Odor: None Color: Clear
 Sample Designation: 110026-MW2 Time / Date: 15:36 12/20/23
 QC Sample Designation: _____ Time / Date: _____
 QA Sample Designation: _____ Time / Date: _____

Evacuation Method: Submersible Pump / Other: Double Whale
 Sampling Method: Submersible Pump / Other: Double Whale
 Water Quality Instruments Used/Manufacturer/Model Number YSI 556 + Micro TPW

Calibration Info (Time, Ranges, etc) 8:00 12/20/23

Remarks: _____

Sampling Personnel: ZST

WELL CASING VOLUMES (GAL/FT): 1" = 0.04 2" = 0.16 4" = 0.65
 ANNULAR SPACE VOLUME (GAL/FT): 4" casing and 2" well = 0.23



LOW-FLOW WATER SAMPLING LOG

Shannon & Wilson, Inc.

Job No: 110026 Location: Kasilof River Lodge Weather: 15° overcast
 Well No.: MW3
 Date: 12/20/23 Time Started: 1350 Time Completed: 15:00

INITIAL GROUNDWATER LEVEL DATA

Time of Depth Measurement: 18:22 Date of Depth Measurement: 12/19/23
 Measuring Point (MP): Top of PVC Casing / Top of Steel Protective Casing / Other:
 Diameter of Casing: 2" Well Screen Interval: Bottom 10'
 Total Depth of Well Below MP: 32.69 Product Thickness, if noted: ---
 Depth-to-Water (DTW) Below MP: 26.80
 Water Column in Well: 5.89 (Total Depth of Well Below MP - DTW Below MP)
 Gallons per foot: 0.16
 Gallons in Well: 0.94 (Water Column in Well x Gallons per foot)

PURGING DATA

Date Purged: 12/20/23 Time Started: 14:10 Time Completed: 14:50
 Three Well Volumes: 2.83 (Gallons in Well x 3)
 Gallons Purged: 0.8 Depth of Pump (generally 2 ft from bottom): ~29.0'
 Max. Drawdown (generally 0.3 ft): 0.45 Pump Rate: 0.1 L/min
 Well Purged Dry: Yes No (If yes, use Well Purged Dry Log)

Time:	Gallons:	Pump Rate (L/min):	DTW (ft BMP):	Drawdown (ft):	Temp: (°C)	Sp. Cond.: (uS/cm)	DO: (mg/L)	pH: (S.U.)	ORP: (mV)	Turb: (NTU)
14:15	0.3	0.2	27.09	0.29	3.60	196	↓	6.07	↓	5.35
14:20	0.5	0.1	27.21	0.41	4.26	197	↓	6.07	↓	5.22
14:25	0.6	0.1	27.24	0.44	4.60	198	↓	6.06	↓	5.36
14:28	0.7	0.1	27.25	0.45	4.68	197	↓	6.06	↓	5.08
14:31	0.8	0.1	27.25	0.45	4.69	198	↓	6.06	↓	4.84

SAMPLING DATA

Odor: None Color: Clear
 Sample Designation: 110026-MW3 Time / Date: 14:32 12/20/23
 QC Sample Designation: / Time / Date: /
 QA Sample Designation: / Time / Date: /

Evacuation Method: Submersible Pump / Other: Double Whale
 Sampling Method: Submersible Pump / Other: Double Whale

Water Quality Instruments Used/Manufacturer/Model Number YSI 556 + Micro TPW

Calibration Info (Time, Ranges, etc) 8:00 12/20/23

Remarks: _____

Sampling Personnel: ZJT

WELL CASING VOLUMES (GAL/FT): 1" = 0.04 2" = 0.16 4" = 0.65
 ANNULAR SPACE VOLUME (GAL/FT): 4" casing and 2" well = 0.23



LOW-FLOW WATER SAMPLING LOG

Shannon & Wilson, Inc.

Job No: 110026 Location: Kasilof River Lodge Weather: 15° overcast
 Well No.: MW4
 Date: 12/20/23 Time Started: 12:15 Time Completed: 13:30

INITIAL GROUNDWATER LEVEL DATA

Time of Depth Measurement: 18:33 Date of Depth Measurement: 12/19/23
 Measuring Point (MP): Top of PVC Casing / Top of Steel Protective Casing / Other:
 Diameter of Casing: 2" Well Screen Interval: Bottom 10'
 Total Depth of Well Below MP: 17.76 Product Thickness, if noted: —
 Depth-to-Water (DTW) Below MP: 8.27
 Water Column in Well: 9.49 (Total Depth of Well Below MP - DTW Below MP)
 Gallons per foot: 0.16
 Gallons in Well: 1.52 (Water Column in Well x Gallons per foot)

PURGING DATA

Date Purged: 12/20/23 Time Started: 12:35 Time Completed: 13:05
 Three Well Volumes: 4.56 (Gallons in Well x 3)
 Gallons Purged: 0.6 Depth of Pump (generally 2 ft from bottom): ~10.5'
 Max. Drawdown (generally 0.3 ft): 0.42 Pump Rate: 0.1 L/min
 Well Purged Dry: Yes No (If yes, use Well Purged Dry Log)

Time:	Gallons:	Pump Rate (L/min):	DTW (ft BMP):	Drawdown (ft):	Temp: (°C)	Sp. Cond.: (uS/cm)	DO: (mg/L)	pH: (S.U.)	ORP: (mV)	Turb: (NTU)
<u>1240</u>	<u>0.2</u>	<u>0.1</u>	<u>8.50</u>	<u>0.23</u>	<u>2.29</u>	<u>237</u>	↓	<u>5.95</u>	↓	<u>11.69</u>
<u>1245</u>	<u>0.4</u>	<u>0.1</u>	<u>8.60</u>	<u>0.33</u>	<u>2.78</u>	<u>239</u>	↓	<u>6.11</u>	↓	<u>9.71</u>
<u>12:48</u>	<u>0.5</u>	<u>0.1</u>	<u>8.65</u>	<u>0.38</u>	<u>2.83</u>	<u>240</u>	↓	<u>6.15</u>	↓	<u>6.40</u>
<u>12:51</u>	<u>0.6</u>	<u>0.1</u>	<u>8.69</u>	<u>0.42</u>	<u>2.89</u>	<u>240</u>	↓	<u>6.17</u>	↓	<u>7.22</u>

SAMPLING DATA

Odor: None Color: clear
 Sample Designation: 110026-MW4 Time / Date: 12:52 12/20/23
 QC Sample Designation: / Time / Date: /
 QA Sample Designation: / Time / Date: /

Evacuation Method: Submersible Pump / Other: Double Whake
 Sampling Method: Submersible Pump / Other: Double Whake

Water Quality Instruments Used/Manufacturer/Model Number YSI 556 + Micro TPW

Calibration Info (Time, Ranges, etc) 8:00 12/20/23

Remarks: _____

Sampling Personnel: ZSY

WELL CASING VOLUMES (GAL/FT): 1" = 0.04 2" = 0.16 4" = 0.65
 ANNULAR SPACE VOLUME (GAL/FT): 4" casing and 2" well = 0.23



LOW-FLOW WATER SAMPLING LOG

Shannon & Wilson, Inc.

Job No: 110026 Location: Kaslof River Lodge Weather: 18° overcast
 Well No.: MW5
 Date: 12/20/23 Time Started: 9:00 Time Completed: 10:00

INITIAL GROUNDWATER LEVEL DATA

Time of Depth Measurement: 17:45 Date of Depth Measurement: 12/19/23
 Measuring Point (MP): Top of PVC Casing / Top of Steel Protective Casing / Other:
 Diameter of Casing: 2" Well Screen Interval: Bottom 10'
 Total Depth of Well Below MP: 32.08 Product Thickness, if noted: —
 Depth-to-Water (DTW) Below MP: 25.09
 Water Column in Well: 6.99 (Total Depth of Well Below MP - DTW Below MP)
 Gallons per foot: 0.16
 Gallons in Well: 1.12 (Water Column in Well x Gallons per foot)

PURGING DATA

Date Purged: 12/20/23 Time Started: 9:45 Time Completed: 10:51
 Three Well Volumes: 3.36 (Gallons in Well x 3)
 Gallons Purged: 4.2 Depth of Pump (generally 2 ft from bottom): ~27.0'
 Max. Drawdown (generally 0.3 ft): 0.11 Pump Rate: 0.5 L/min
 Well Purged Dry: Yes No (If yes, use Well Purged Dry Log)

Time:	Gallons:	Pump Rate (L/min):	DTW (ft BMP):	Drawdown (ft):	Temp: (°C)	Sp. Cond.: (uS/cm)	DO: (mg/L)	pH: (S.U.)	ORP: (mV)	Turb: (NTU)
<u>9:50</u>	<u>0.6</u>	<u>0.5</u>	<u>25.20</u>	<u>0.11</u>	<u>5.35</u>	<u>533</u>	—	<u>5.71</u>	—	<u>128.5</u>
<u>9:55</u>	<u>1.2</u>	<u>0.5</u>	<u>25.78</u>	<u>0.09</u>	<u>4.25</u>	<u>519</u>	—	<u>5.74</u>	—	<u>77.29</u>
<u>10:00</u>	<u>1.8</u>	<u>0.5</u>	<u>25.18</u>	<u>0.09</u>	<u>4.29</u>	<u>516</u>	—	<u>5.68</u>	—	<u>54.08</u>
<u>10:05</u>	<u>2.4</u>	<u>0.5</u>	<u>25.18</u>	<u>0.09</u>	<u>4.27</u>	<u>518</u>	—	<u>5.64</u>	—	<u>25.10</u>
<u>10:10</u>	<u>3.0</u>	<u>0.5</u>	<u>25.18</u>	<u>0.09</u>	<u>4.22</u>	<u>520</u>	—	<u>5.01</u>	—	<u>13.27</u>
<u>10:13</u>	<u>3.4</u>	<u>0.5</u>	<u>25.18</u>	<u>0.09</u>	<u>4.22</u>	<u>520</u>	—	<u>6.05</u>	—	<u>9.46</u>

SAMPLING DATA

Odor: None Color: Tan tint
 Sample Designation: 110026-MW5 Time / Date: 10:20 12/20/23
 QC Sample Designation: 110026-MW15 Time / Date: 10:50 12/20/23
 QA Sample Designation: — Time / Date: —

Evacuation Method: Submersible Pump / Other: Double Whale
 Sampling Method: Submersible Pump / Other: Double Whale

Water Quality Instruments Used/Manufacturer/Model Number YSI 556 + Micro TPW

Calibration Info (Time, Ranges, etc) 8:00 12/20/23

Remarks: —

Sampling Personnel: ZJT

WELL CASING VOLUMES (GAL/FT): 1" = 0.04 2" = 0.16 4" = 0.65
 ANNULAR SPACE VOLUME (GAL/FT): 4" casing and 2" well = 0.23

WATER SUPPLY WELL SAMPLING LOG

Address Sterling Hwy, Kasilof, AK Project Number 110026
 Owner/Occupant Joe, B Project Name Kasilof Riverview Lodge
 Mailing address — Date 12/19/23
 Telephone — Time 1525
 Sampling Personnel ZST

Sample Location utility room adjacent to the restroom

Sample Number 110026 - DW1 Time 1541 12/19/23
 Duplicate _____ Time _____

Analysis BTEX Lab SGS

Purge Volume ~ 5 gal

PARAMETERS [stabilization criteria]

Start 1525 Time	Temp. (°C) [± 0.5]	Conductivity (µS/cm) [± 3%]	pH (std. units) [± 0.1]	Water Clarity (visual)
1530	10.01	221	5.62	Clear
1535	10.08	220	6.06	"
1540	10.10	219	6.10	"

Notes: Pre-Treatment drinking water

WATER SUPPLY WELL SAMPLING LOG

Address Sterling Hwy, Kasilof, Ak
 Owner/Occupant Joe B.
 Mailing address —
 Telephone —

Project Number 110026
 Project Name Kasilof Riverview Lodge
 Date 12/19/23
 Time 15:48
 Sampling Personnel ZST

Sample Location Restroom faucet

Sample Number 110026-DWZ
 Duplicate _____

Time 16:00 12/19/23
 Time _____

Analysis BTEX

Lab SGS

Purge Volume ~ 5 gal

PARAMETERS [stabilization criteria]

Start 1550 Time	Temp. (°C) [± 0.5]	Conductivity (µS/cm) [± 3%]	pH (std. units) [± 0.1]	Water Clarity (visual)
15:55	12.08	232	6.77	clear
16:00	11.84	224	6.82	"
16:05	10.79	216	6.85	"

Notes: Post Treatment drinking water



Laboratory Report of Analysis

To: Shannon & Wilson, Inc.
5430 Fairbanks Street, Suite 3
Anchorage, AK 99518
(907)433-3228

Report Number: **1236845**

Client Project: **110026-002; Kasilof Riverview**

Dear Alec Rizzo,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Justin Nelson
Project Manager
Justin.Nelson@sgs.com

Date

Case Narrative

SGS Client: **Shannon & Wilson, Inc.**
SGS Project: **1236845**
Project Name/Site: **110026-002; Kasilof Riverview**
Project Contact: **Alec Rizzo**

Refer to sample receipt form for information on sample condition.

110026-MW1 (1236845003) PS

8270D SIM - PAH LCS recoveries for several analytes do not meet QC criteria. Sample was re-extracted outside of hold and results confirmed. In hold data is reported.

110026-MW2 (1236845004) PS

8270D SIM - PAH LCS recoveries for several analytes do not meet QC criteria. Sample was re-extracted outside of hold and results confirmed. In hold data is reported.

110026-MW3 (1236845005) PS

8270D SIM - PAH LCS recoveries for several analytes do not meet QC criteria. Sample was re-extracted outside of hold and results confirmed. In hold data is reported.

110026-MW4 (1236845006) PS

8270D SIM - PAH LCS recoveries for several analytes do not meet QC criteria. Sample was re-extracted outside of hold and results confirmed. In hold data is reported.

110026-MW5 (1236845007) PS

8270D SIM - PAH LCS recoveries for several analytes do not meet QC criteria. Sample was re-extracted outside of hold and results confirmed. In hold data is reported.

110026-MW15 (1236845008) PS

8270D SIM - PAH LCS recoveries for several analytes do not meet QC criteria. Sample was re-extracted outside of hold and results confirmed. In hold data is reported.

LCS for HBN 1869655 [XXX/49129 (1750099) LCS

8270D SIM - PAH LCS recoveries for several analytes do not meet QC criteria.

MB for HBN 1870032 [XXX/49140] (1750676) MB

AK103 - RRO is detect in the MB greater than one-half the LOQ, but less than the LOQ.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
110026-DW1	1236845001	12/19/2023	12/21/2023	Water (Surface, Eff., Ground)
110026-DW2	1236845002	12/19/2023	12/21/2023	Water (Surface, Eff., Ground)
110026-MW1	1236845003	12/20/2023	12/21/2023	Water (Surface, Eff., Ground)
110026-MW2	1236845004	12/20/2023	12/21/2023	Water (Surface, Eff., Ground)
110026-MW3	1236845005	12/20/2023	12/21/2023	Water (Surface, Eff., Ground)
110026-MW4	1236845006	12/20/2023	12/21/2023	Water (Surface, Eff., Ground)
110026-MW5	1236845007	12/20/2023	12/21/2023	Water (Surface, Eff., Ground)
110026-MW15	1236845008	12/20/2023	12/21/2023	Water (Surface, Eff., Ground)
110026-WTB	1236845009	12/19/2023	12/21/2023	Water (Surface, Eff., Ground)

<u>Method</u>	<u>Method Description</u>
8270D SIM LV (PAH)	8270 PAH SIM GC/MS LV
SW8021B	BTEX 8021
AK102	DRO Low Volume (W)
AK101	Gasoline Range Organics (W)
SW8260D	Volatile Organic Compounds (W) FULL

Print Date: 01/08/2024 10:21:52AM

Detectable Results Summary

Client Sample ID: **110026-MW1**

Lab Sample ID: 1236845003

Semivolatile Organic Fuels

Volatile GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Diesel Range Organics	0.624	mg/L
Benzene	0.680	ug/L

Client Sample ID: **110026-MW2**

Lab Sample ID: 1236845004

Semivolatile Organic Fuels

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Diesel Range Organics	0.414J	mg/L

Client Sample ID: **110026-MW3**

Lab Sample ID: 1236845005

Semivolatile Organic Fuels

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Diesel Range Organics	0.359J	mg/L

Client Sample ID: **110026-MW4**

Lab Sample ID: 1236845006

Semivolatile Organic Fuels

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Diesel Range Organics	0.284J	mg/L

Client Sample ID: **110026-MW5**

Lab Sample ID: 1236845007

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
2-Methylnaphthalene	0.0153J	ug/L
Benzo(a)Anthracene	0.0193J	ug/L
Benzo[b]Fluoranthene	0.0167J	ug/L
Fluoranthene	0.0190J	ug/L
Pyrene	0.0174J	ug/L
Diesel Range Organics	0.324J	mg/L
Gasoline Range Organics	0.0984J	mg/L
1,2-Dichloroethane	0.200J	ug/L
1,3,5-Trimethylbenzene	0.520J	ug/L
Benzene	11.9	ug/L
Ethylbenzene	0.420J	ug/L
Isopropylbenzene (Cumene)	0.540J	ug/L
n-Propylbenzene	0.390J	ug/L

Semivolatile Organic Fuels

Volatile Fuels

Volatile GC/MS

Client Sample ID: **110026-MW15**

Lab Sample ID: 1236845008

Semivolatile Organic Fuels

Volatile Fuels

Volatile GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Diesel Range Organics	0.379J	mg/L
Gasoline Range Organics	0.0962J	mg/L
1,2-Dichloroethane	0.210J	ug/L
1,3,5-Trimethylbenzene	0.510J	ug/L
Benzene	11.1	ug/L
Ethylbenzene	0.390J	ug/L
Isopropylbenzene (Cumene)	0.520J	ug/L
n-Propylbenzene	0.380J	ug/L



Results of 110026-DW1

Client Sample ID: **110026-DW1**
Client Project ID: **110026-002; Kasilof Riverview**
Lab Sample ID: 1236845001
Lab Project ID: 1236845

Collection Date: 12/19/23 15:41
Received Date: 12/21/23 10:14
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile Fuels

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Benzene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:36
Ethylbenzene	0.500	U	1.00	0.500	0.500	ug/L	1		12/22/23 22:36
o-Xylene	0.500	U	1.00	0.500	0.500	ug/L	1		12/22/23 22:36
P & M -Xylene	1.00	U	2.00	0.900	1.00	ug/L	1		12/22/23 22:36
Toluene	0.500	U	1.00	0.500	0.500	ug/L	1		12/22/23 22:36
Xylenes (total)	1.50	U	3.00	1.40	1.50	ug/L	1		12/22/23 22:36
Surrogates									
1,4-Difluorobenzene (surr)	101		77-115			%	1		12/22/23 22:36

Batch Information

Analytical Batch: VFC16715
Analytical Method: SW8021B
Analyst: JY
Analytical Date/Time: 12/22/23 22:36
Container ID: 1236845001-A

Prep Batch: VXX40872
Prep Method: SW5030B
Prep Date/Time: 12/22/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of 110026-DW2

Client Sample ID: **110026-DW2**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845002
 Lab Project ID: 1236845

Collection Date: 12/19/23 16:06
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile Fuels

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:54
Ethylbenzene	0.500	U	1.00	0.500	0.500	ug/L	1		12/22/23 22:54
o-Xylene	0.500	U	1.00	0.500	0.500	ug/L	1		12/22/23 22:54
P & M -Xylene	1.00	U	2.00	0.900	1.00	ug/L	1		12/22/23 22:54
Toluene	0.500	U	1.00	0.500	0.500	ug/L	1		12/22/23 22:54
Xylenes (total)	1.50	U	3.00	1.40	1.50	ug/L	1		12/22/23 22:54

Surrogates

1,4-Difluorobenzene (surr)	101		77-115			%	1		12/22/23 22:54
----------------------------	-----	--	--------	--	--	---	---	--	----------------

Batch Information

Analytical Batch: VFC16715
 Analytical Method: SW8021B
 Analyst: JY
 Analytical Date/Time: 12/22/23 22:54
 Container ID: 1236845002-A

Prep Batch: VXX40872
 Prep Method: SW5030B
 Prep Date/Time: 12/22/23 06:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL



Results of 110026-MW1

Client Sample ID: **110026-MW1**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845003
 Lab Project ID: 1236845

Collection Date: 12/20/23 11:39
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Polynuclear Aromatics GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:11
2-Methylnaphthalene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:11
Acenaphthene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:11
Acenaphthylene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:11
Anthracene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:11
Benzo(a)Anthracene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:11
Benzo[a]pyrene	0.00960	U	0.0192	0.00596	0.00960	ug/L	1		12/27/23 22:11
Benzo[b]Fluoranthene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:11
Benzo[g,h,i]perylene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:11
Benzo[k]fluoranthene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:11
Chrysene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:11
Dibenzo[a,h]anthracene	0.00960	U	0.0192	0.00596	0.00960	ug/L	1		12/27/23 22:11
Fluoranthene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:11
Fluorene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:11
Indeno[1,2,3-c,d] pyrene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:11
Naphthalene	0.0481	U	0.0962	0.0298	0.0481	ug/L	1		12/27/23 22:11
Phenanthrene	0.0481	U	0.0962	0.0298	0.0481	ug/L	1		12/27/23 22:11
Pyrene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:11

Surrogates

2-Methylnaphthalene-d10 (surr)	64.1		38-100			%	1		12/27/23 22:11
Fluoranthene-d10 (surr)	76.1		30-111			%	1		12/27/23 22:11

Batch Information

Analytical Batch: XMS14140
 Analytical Method: 8270D SIM LV (PAH)
 Analyst: HMW
 Analytical Date/Time: 12/27/23 22:11
 Container ID: 1236845003-I

Prep Batch: XXX49129
 Prep Method: SW3535A
 Prep Date/Time: 12/22/23 16:00
 Prep Initial Wt./Vol.: 260 mL
 Prep Extract Vol: 1 mL



Results of **110026-MW1**

Client Sample ID: **110026-MW1**
Client Project ID: **110026-002; Kasilof Riverview**
Lab Sample ID: 1236845003
Lab Project ID: 1236845

Collection Date: 12/20/23 11:39
Received Date: 12/21/23 10:14
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Diesel Range Organics	0.624		0.577	0.192	0.288	mg/L	1		01/04/24 14:46
Surrogates									
5a Androstane (surr)	60.6		50-150			%	1		01/04/24 14:46

Batch Information

Analytical Batch: XFC16777
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 01/04/24 14:46
Container ID: 1236845003-G

Prep Batch: XXX49140
Prep Method: SW3520C
Prep Date/Time: 01/03/24 18:30
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL



Results of 110026-MW1

Client Sample ID: **110026-MW1**
Client Project ID: **110026-002; Kasilof Riverview**
Lab Sample ID: 1236845003
Lab Project ID: 1236845

Collection Date: 12/20/23 11:39
Received Date: 12/21/23 10:14
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile Fuels

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Gasoline Range Organics	0.0500	U	0.100	0.0450	0.0500	mg/L	1		12/22/23 00:56
Surrogates									
4-Bromofluorobenzene (surr)	89.1		50-150			%	1		12/22/23 00:56

Batch Information

Analytical Batch: VFC16713
Analytical Method: AK101
Analyst: JY
Analytical Date/Time: 12/22/23 00:56
Container ID: 1236845003-A

Prep Batch: VXX40868
Prep Method: SW5030B
Prep Date/Time: 12/21/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL



Results of 110026-MW1

Client Sample ID: **110026-MW1**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845003
 Lab Project ID: 1236845

Collection Date: 12/20/23 11:39
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:23
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:23
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		12/22/23 21:23
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:23
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		12/22/23 21:23
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
1,2-Dichloroethane	0.250	U	0.500	0.200	0.250	ug/L	1		12/22/23 21:23
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:23
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:23
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:23
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:23
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
4-Isopropyltoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:23
Benzene	0.680		0.400	0.120	0.200	ug/L	1		12/22/23 21:23
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:23
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		12/22/23 22:23
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:23
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:23
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23

Print Date: 01/08/2024 10:21:56AM

J flagging is activated



Results of 110026-MW1

Client Sample ID: **110026-MW1**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845003
 Lab Project ID: 1236845

Collection Date: 12/20/23 11:39
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
Chloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:23
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:23
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
Ethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:23
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:23
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:23
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
n-Propylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		12/22/23 21:23
sec-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:23
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:23
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:23
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		12/22/23 22:23
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		12/22/23 21:23

Surrogates

1,2-Dichloroethane-D4 (surr)	104		81-118			%	1		12/22/23 21:23
4-Bromofluorobenzene (surr)	94.7		85-114			%	1		12/22/23 21:23
Toluene-d8 (surr)	101		89-112			%	1		12/22/23 21:23

Results of 110026-MW1

Client Sample ID: **110026-MW1**
Client Project ID: **110026-002; Kasilof Riverview**
Lab Sample ID: 1236845003
Lab Project ID: 1236845

Collection Date: 12/20/23 11:39
Received Date: 12/21/23 10:14
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS23048
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 12/22/23 21:23
Container ID: 1236845003-D

Prep Batch: VXX40879
Prep Method: SW5030B
Prep Date/Time: 12/22/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Analytical Batch: VMS23049
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 12/22/23 22:23
Container ID: 1236845003-D

Prep Batch: VXX40880
Prep Method: SW5030B
Prep Date/Time: 12/22/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL



Results of 110026-MW2

Client Sample ID: **110026-MW2**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845004
 Lab Project ID: 1236845

Collection Date: 12/20/23 15:36
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Polynuclear Aromatics GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:27
2-Methylnaphthalene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:27
Acenaphthene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:27
Acenaphthylene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:27
Anthracene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:27
Benzo(a)Anthracene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:27
Benzo[a]pyrene	0.00960	U	0.0192	0.00596	0.00960	ug/L	1		12/27/23 22:27
Benzo[b]Fluoranthene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:27
Benzo[g,h,i]perylene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:27
Benzo[k]fluoranthene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:27
Chrysene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:27
Dibenzo[a,h]anthracene	0.00960	U	0.0192	0.00596	0.00960	ug/L	1		12/27/23 22:27
Fluoranthene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:27
Fluorene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:27
Indeno[1,2,3-c,d] pyrene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:27
Naphthalene	0.0481	U	0.0962	0.0298	0.0481	ug/L	1		12/27/23 22:27
Phenanthrene	0.0481	U	0.0962	0.0298	0.0481	ug/L	1		12/27/23 22:27
Pyrene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 22:27

Surrogates

2-Methylnaphthalene-d10 (surr)	76.8		38-100			%	1		12/27/23 22:27
Fluoranthene-d10 (surr)	84.8		30-111			%	1		12/27/23 22:27

Batch Information

Analytical Batch: XMS14140
 Analytical Method: 8270D SIM LV (PAH)
 Analyst: HMW
 Analytical Date/Time: 12/27/23 22:27
 Container ID: 1236845004-I

Prep Batch: XXX49129
 Prep Method: SW3535A
 Prep Date/Time: 12/22/23 16:00
 Prep Initial Wt./Vol.: 260 mL
 Prep Extract Vol: 1 mL



Results of 110026-MW2

Client Sample ID: **110026-MW2**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845004
 Lab Project ID: 1236845

Collection Date: 12/20/23 15:36
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Semivolatile Organic Fuels

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Diesel Range Organics	0.414	J	0.577	0.192	0.288	mg/L	1		01/04/24 14:59
Surrogates									
5a Androstane (surr)	63.9		50-150			%	1		01/04/24 14:59

Batch Information

Analytical Batch: XFC16777
 Analytical Method: AK102
 Analyst: T.L
 Analytical Date/Time: 01/04/24 14:59
 Container ID: 1236845004-G

Prep Batch: XXX49140
 Prep Method: SW3520C
 Prep Date/Time: 01/03/24 18:30
 Prep Initial Wt./Vol.: 260 mL
 Prep Extract Vol: 1 mL



Results of **110026-MW2**

Client Sample ID: **110026-MW2**
Client Project ID: **110026-002; Kasilof Riverview**
Lab Sample ID: 1236845004
Lab Project ID: 1236845

Collection Date: 12/20/23 15:36
Received Date: 12/21/23 10:14
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Gasoline Range Organics	0.0500	U	0.100	0.0450	0.0500	mg/L	1		12/22/23 01:15
Surrogates									
4-Bromofluorobenzene (surr)	91.2		50-150			%	1		12/22/23 01:15

Batch Information

Analytical Batch: VFC16713
Analytical Method: AK101
Analyst: JY
Analytical Date/Time: 12/22/23 01:15
Container ID: 1236845004-A

Prep Batch: VXX40868
Prep Method: SW5030B
Prep Date/Time: 12/21/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL



Results of 110026-MW2

Client Sample ID: **110026-MW2**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845004
 Lab Project ID: 1236845

Collection Date: 12/20/23 15:36
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:38
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:38
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		12/22/23 21:38
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:38
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		12/22/23 21:38
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
1,2-Dichloroethane	0.250	U	0.500	0.200	0.250	ug/L	1		12/22/23 21:38
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:38
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:38
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:38
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:38
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
4-Isopropyltoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:38
Benzene	0.200	U	0.400	0.120	0.200	ug/L	1		12/22/23 21:38
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:38
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		12/22/23 22:39
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:38
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:38
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38

Print Date: 01/08/2024 10:21:56AM

J flagging is activated



Results of 110026-MW2

Client Sample ID: **110026-MW2**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845004
 Lab Project ID: 1236845

Collection Date: 12/20/23 15:36
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
Chloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:38
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:38
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
Ethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:38
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:38
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:38
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
n-Propylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		12/22/23 21:38
sec-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:38
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:38
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:38
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		12/22/23 22:39
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		12/22/23 21:38

Surrogates

1,2-Dichloroethane-D4 (surr)	112		81-118			%	1		12/22/23 21:38
4-Bromofluorobenzene (surr)	97.6		85-114			%	1		12/22/23 21:38
Toluene-d8 (surr)	103		89-112			%	1		12/22/23 21:38

Results of 110026-MW2

Client Sample ID: **110026-MW2**
Client Project ID: **110026-002; Kasilof Riverview**
Lab Sample ID: 1236845004
Lab Project ID: 1236845

Collection Date: 12/20/23 15:36
Received Date: 12/21/23 10:14
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS23048
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 12/22/23 21:38
Container ID: 1236845004-D

Prep Batch: VXX40879
Prep Method: SW5030B
Prep Date/Time: 12/22/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Analytical Batch: VMS23049
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 12/22/23 22:39
Container ID: 1236845004-D

Prep Batch: VXX40880
Prep Method: SW5030B
Prep Date/Time: 12/22/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL



Results of 110026-MW3

Client Sample ID: **110026-MW3**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845005
 Lab Project ID: 1236845

Collection Date: 12/20/23 14:32
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Polynuclear Aromatics GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:43
2-Methylnaphthalene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:43
Acenaphthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:43
Acenaphthylene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:43
Anthracene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:43
Benzo(a)Anthracene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:43
Benzo[a]pyrene	0.00980	U	0.0196	0.00608	0.00980	ug/L	1		12/27/23 22:43
Benzo[b]Fluoranthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:43
Benzo[g,h,i]perylene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:43
Benzo[k]fluoranthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:43
Chrysene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:43
Dibenzo[a,h]anthracene	0.00980	U	0.0196	0.00608	0.00980	ug/L	1		12/27/23 22:43
Fluoranthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:43
Fluorene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:43
Indeno[1,2,3-c,d] pyrene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:43
Naphthalene	0.0490	U	0.0980	0.0304	0.0490	ug/L	1		12/27/23 22:43
Phenanthrene	0.0490	U	0.0980	0.0304	0.0490	ug/L	1		12/27/23 22:43
Pyrene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:43

Surrogates

2-Methylnaphthalene-d10 (surr)	73.7		38-100			%	1		12/27/23 22:43
Fluoranthene-d10 (surr)	79.5		30-111			%	1		12/27/23 22:43

Batch Information

Analytical Batch: XMS14140
 Analytical Method: 8270D SIM LV (PAH)
 Analyst: HMW
 Analytical Date/Time: 12/27/23 22:43
 Container ID: 1236845005-I

Prep Batch: XXX49129
 Prep Method: SW3535A
 Prep Date/Time: 12/22/23 16:00
 Prep Initial Wt./Vol.: 255 mL
 Prep Extract Vol: 1 mL



Results of 110026-MW3

Client Sample ID: **110026-MW3**
Client Project ID: **110026-002; Kasilof Riverview**
Lab Sample ID: 1236845005
Lab Project ID: 1236845

Collection Date: 12/20/23 14:32
Received Date: 12/21/23 10:14
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Semivolatile Organic Fuels

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Diesel Range Organics	0.359	J	0.588	0.196	0.294	mg/L	1		01/04/24 15:11
Surrogates									
5a Androstane (surr)	71.9		50-150			%	1		01/04/24 15:11

Batch Information

Analytical Batch: XFC16777
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 01/04/24 15:11
Container ID: 1236845005-G

Prep Batch: XXX49140
Prep Method: SW3520C
Prep Date/Time: 01/03/24 18:30
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL



Results of 110026-MW3

Client Sample ID: **110026-MW3**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845005
 Lab Project ID: 1236845

Collection Date: 12/20/23 14:32
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile Fuels

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Gasoline Range Organics	0.0500	U	0.100	0.0450	0.0500	mg/L	1		12/22/23 01:33

Surrogates

4-Bromofluorobenzene (surr)	90.9		50-150			%	1		12/22/23 01:33
-----------------------------	------	--	--------	--	--	---	---	--	----------------

Batch Information

Analytical Batch: VFC16713
 Analytical Method: AK101
 Analyst: JY
 Analytical Date/Time: 12/22/23 01:33
 Container ID: 1236845005-A

Prep Batch: VXX40868
 Prep Method: SW5030B
 Prep Date/Time: 12/21/23 06:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL



Results of 110026-MW3

Client Sample ID: **110026-MW3**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845005
 Lab Project ID: 1236845

Collection Date: 12/20/23 14:32
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:53
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:53
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		12/22/23 21:53
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:53
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		12/22/23 21:53
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
1,2-Dichloroethane	0.250	U	0.500	0.200	0.250	ug/L	1		12/22/23 21:53
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:53
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:53
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:53
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:53
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
4-Isopropyltoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:53
Benzene	0.200	U	0.400	0.120	0.200	ug/L	1		12/22/23 21:53
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:53
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		12/22/23 22:54
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:53
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:53
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53

Print Date: 01/08/2024 10:21:56AM

J flagging is activated



Results of 110026-MW3

Client Sample ID: **110026-MW3**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845005
 Lab Project ID: 1236845

Collection Date: 12/20/23 14:32
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
Chloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:53
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:53
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
Ethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:53
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:53
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:53
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
n-Propylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		12/22/23 21:53
sec-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 21:53
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 21:53
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 21:53
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		12/22/23 22:54
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		12/22/23 21:53

Surrogates

1,2-Dichloroethane-D4 (surr)	115		81-118			%	1		12/22/23 21:53
4-Bromofluorobenzene (surr)	96.1		85-114			%	1		12/22/23 21:53
Toluene-d8 (surr)	102		89-112			%	1		12/22/23 21:53

Results of 110026-MW3

Client Sample ID: **110026-MW3**
Client Project ID: **110026-002; Kasilof Riverview**
Lab Sample ID: 1236845005
Lab Project ID: 1236845

Collection Date: 12/20/23 14:32
Received Date: 12/21/23 10:14
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS23048
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 12/22/23 21:53
Container ID: 1236845005-D

Prep Batch: VXX40879
Prep Method: SW5030B
Prep Date/Time: 12/22/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Analytical Batch: VMS23049
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 12/22/23 22:54
Container ID: 1236845005-D

Prep Batch: VXX40880
Prep Method: SW5030B
Prep Date/Time: 12/22/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL



Results of 110026-MW4

Client Sample ID: **110026-MW4**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845006
 Lab Project ID: 1236845

Collection Date: 12/20/23 12:52
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Polynuclear Aromatics GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:59
2-Methylnaphthalene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:59
Acenaphthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:59
Acenaphthylene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:59
Anthracene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:59
Benzo(a)Anthracene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:59
Benzo[a]pyrene	0.00980	U	0.0196	0.00608	0.00980	ug/L	1		12/27/23 22:59
Benzo[b]Fluoranthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:59
Benzo[g,h,i]perylene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:59
Benzo[k]fluoranthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:59
Chrysene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:59
Dibenzo[a,h]anthracene	0.00980	U	0.0196	0.00608	0.00980	ug/L	1		12/27/23 22:59
Fluoranthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:59
Fluorene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:59
Indeno[1,2,3-c,d] pyrene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:59
Naphthalene	0.0490	U	0.0980	0.0304	0.0490	ug/L	1		12/27/23 22:59
Phenanthrene	0.0490	U	0.0980	0.0304	0.0490	ug/L	1		12/27/23 22:59
Pyrene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 22:59

Surrogates

2-Methylnaphthalene-d10 (surr)	80.5		38-100			%	1		12/27/23 22:59
Fluoranthene-d10 (surr)	88.9		30-111			%	1		12/27/23 22:59

Batch Information

Analytical Batch: XMS14140
 Analytical Method: 8270D SIM LV (PAH)
 Analyst: HMW
 Analytical Date/Time: 12/27/23 22:59
 Container ID: 1236845006-I

Prep Batch: XXX49129
 Prep Method: SW3535A
 Prep Date/Time: 12/22/23 16:00
 Prep Initial Wt./Vol.: 255 mL
 Prep Extract Vol: 1 mL



Results of **110026-MW4**

Client Sample ID: **110026-MW4**
Client Project ID: **110026-002; Kasilof Riverview**
Lab Sample ID: 1236845006
Lab Project ID: 1236845

Collection Date: 12/20/23 12:52
Received Date: 12/21/23 10:14
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Diesel Range Organics	0.284	J	0.577	0.192	0.288	mg/L	1		01/04/24 15:24
Surrogates									
5a Androstane (surr)	67.2		50-150			%	1		01/04/24 15:24

Batch Information

Analytical Batch: XFC16777
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 01/04/24 15:24
Container ID: 1236845006-G

Prep Batch: XXX49140
Prep Method: SW3520C
Prep Date/Time: 01/03/24 18:30
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL



Results of 110026-MW4

Client Sample ID: **110026-MW4**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845006
 Lab Project ID: 1236845

Collection Date: 12/20/23 12:52
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile Fuels

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Gasoline Range Organics	0.0500	U	0.100	0.0450	0.0500	mg/L	1		12/22/23 01:52
Surrogates									
4-Bromofluorobenzene (surr)	90.2		50-150			%	1		12/22/23 01:52

Batch Information

Analytical Batch: VFC16713
 Analytical Method: AK101
 Analyst: JY
 Analytical Date/Time: 12/22/23 01:52
 Container ID: 1236845006-A

Prep Batch: VXX40868
 Prep Method: SW5030B
 Prep Date/Time: 12/21/23 06:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL



Results of 110026-MW4

Client Sample ID: **110026-MW4**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845006
 Lab Project ID: 1236845

Collection Date: 12/20/23 12:52
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:08
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:08
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		12/22/23 22:08
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:08
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		12/22/23 22:08
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
1,2-Dichloroethane	0.250	U	0.500	0.200	0.250	ug/L	1		12/22/23 22:08
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:08
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:08
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:08
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:08
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
4-Isopropyltoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:08
Benzene	0.200	U	0.400	0.120	0.200	ug/L	1		12/22/23 22:08
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:08
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		12/22/23 23:10
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:08
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:08
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08

Print Date: 01/08/2024 10:21:56AM

J flagging is activated

SGS North America Inc.

200 West Potter Drive Anchorage, AK 95518
 t 907.562.2343 f 907.561.5301 www.us.sgs.com

Member of SGS Group



Results of 110026-MW4

Client Sample ID: **110026-MW4**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845006
 Lab Project ID: 1236845

Collection Date: 12/20/23 12:52
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
Chloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:08
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:08
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
Ethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:08
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:08
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:08
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
n-Propylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		12/22/23 22:08
sec-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:08
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:08
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:08
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		12/22/23 23:10
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		12/22/23 22:08

Surrogates

1,2-Dichloroethane-D4 (surr)	112		81-118			%	1		12/22/23 22:08
4-Bromofluorobenzene (surr)	96.2		85-114			%	1		12/22/23 22:08
Toluene-d8 (surr)	101		89-112			%	1		12/22/23 22:08

Results of 110026-MW4

Client Sample ID: **110026-MW4**
Client Project ID: **110026-002; Kasilof Riverview**
Lab Sample ID: 1236845006
Lab Project ID: 1236845

Collection Date: 12/20/23 12:52
Received Date: 12/21/23 10:14
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS23048
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 12/22/23 22:08
Container ID: 1236845006-D

Prep Batch: VXX40879
Prep Method: SW5030B
Prep Date/Time: 12/22/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Analytical Batch: VMS23049
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 12/22/23 23:10
Container ID: 1236845006-D

Prep Batch: VXX40880
Prep Method: SW5030B
Prep Date/Time: 12/22/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL



Results of 110026-MW5

Client Sample ID: **110026-MW5**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845007
 Lab Project ID: 1236845

Collection Date: 12/20/23 10:20
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Polynuclear Aromatics GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 23:15
2-Methylnaphthalene	0.0153	J	0.0481	0.0144	0.0240	ug/L	1		12/27/23 23:15
Acenaphthene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 23:15
Acenaphthylene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 23:15
Anthracene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 23:15
Benzo(a)Anthracene	0.0193	J	0.0481	0.0144	0.0240	ug/L	1		12/27/23 23:15
Benzo[a]pyrene	0.00960	U	0.0192	0.00596	0.00960	ug/L	1		12/27/23 23:15
Benzo[b]Fluoranthene	0.0167	J	0.0481	0.0144	0.0240	ug/L	1		12/27/23 23:15
Benzo[g,h,i]perylene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 23:15
Benzo[k]fluoranthene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 23:15
Chrysene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 23:15
Dibenzo[a,h]anthracene	0.00960	U	0.0192	0.00596	0.00960	ug/L	1		12/27/23 23:15
Fluoranthene	0.0190	J	0.0481	0.0144	0.0240	ug/L	1		12/27/23 23:15
Fluorene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 23:15
Indeno[1,2,3-c,d] pyrene	0.0240	U	0.0481	0.0144	0.0240	ug/L	1		12/27/23 23:15
Naphthalene	0.0481	U	0.0962	0.0298	0.0481	ug/L	1		12/27/23 23:15
Phenanthrene	0.0481	U	0.0962	0.0298	0.0481	ug/L	1		12/27/23 23:15
Pyrene	0.0174	J	0.0481	0.0144	0.0240	ug/L	1		12/27/23 23:15

Surrogates

2-Methylnaphthalene-d10 (surr)	82.6		38-100			%	1		12/27/23 23:15
Fluoranthene-d10 (surr)	87		30-111			%	1		12/27/23 23:15

Batch Information

Analytical Batch: XMS14140
 Analytical Method: 8270D SIM LV (PAH)
 Analyst: HMW
 Analytical Date/Time: 12/27/23 23:15
 Container ID: 1236845007-I

Prep Batch: XXX49129
 Prep Method: SW3535A
 Prep Date/Time: 12/22/23 16:00
 Prep Initial Wt./Vol.: 260 mL
 Prep Extract Vol: 1 mL



Results of 110026-MW5

Client Sample ID: **110026-MW5**
Client Project ID: **110026-002; Kasilof Riverview**
Lab Sample ID: 1236845007
Lab Project ID: 1236845

Collection Date: 12/20/23 10:20
Received Date: 12/21/23 10:14
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Semivolatile Organic Fuels

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Diesel Range Organics	0.324	J	0.577	0.192	0.288	mg/L	1		01/04/24 15:36
Surrogates									
5a Androstane (surr)	57.8		50-150			%	1		01/04/24 15:36

Batch Information

Analytical Batch: XFC16777
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 01/04/24 15:36
Container ID: 1236845007-G

Prep Batch: XXX49140
Prep Method: SW3520C
Prep Date/Time: 01/03/24 18:30
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL



Results of 110026-MW5

Client Sample ID: **110026-MW5**
Client Project ID: **110026-002; Kasilof Riverview**
Lab Sample ID: 1236845007
Lab Project ID: 1236845

Collection Date: 12/20/23 10:20
Received Date: 12/21/23 10:14
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile Fuels

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Gasoline Range Organics	0.0984	J	0.100	0.0450	0.0500	mg/L	1		12/22/23 02:10
Surrogates									
4-Bromofluorobenzene (surr)	95.7		50-150			%	1		12/22/23 02:10

Batch Information

Analytical Batch: VFC16713
Analytical Method: AK101
Analyst: JY
Analytical Date/Time: 12/22/23 02:10
Container ID: 1236845007-A

Prep Batch: VXX40868
Prep Method: SW5030B
Prep Date/Time: 12/21/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL



Results of 110026-MW5

Client Sample ID: **110026-MW5**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845007
 Lab Project ID: 1236845

Collection Date: 12/20/23 10:20
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:23
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:23
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		12/22/23 22:23
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:23
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		12/22/23 22:23
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
1,2-Dichloroethane	0.200	J	0.500	0.200	0.250	ug/L	1		12/22/23 22:23
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
1,3,5-Trimethylbenzene	0.520	J	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:23
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:23
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:23
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:23
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
4-Isopropyltoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:23
Benzene	11.9		0.400	0.120	0.200	ug/L	1		12/22/23 22:23
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:23
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		12/22/23 23:25
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:23
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:23
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23

Print Date: 01/08/2024 10:21:56AM

J flagging is activated



Results of 110026-MW5

Client Sample ID: **110026-MW5**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845007
 Lab Project ID: 1236845

Collection Date: 12/20/23 10:20
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
Chloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:23
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:23
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
Ethylbenzene	0.420	J	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:23
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
Isopropylbenzene (Cumene)	0.540	J	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:23
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:23
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
n-Propylbenzene	0.390	J	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		12/22/23 22:23
sec-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:23
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:23
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:23
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		12/22/23 23:25
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		12/22/23 22:23

Surrogates

1,2-Dichloroethane-D4 (surr)	118		81-118			%	1		12/22/23 22:23
4-Bromofluorobenzene (surr)	94.2		85-114			%	1		12/22/23 22:23
Toluene-d8 (surr)	102		89-112			%	1		12/22/23 22:23

Results of 110026-MW5

Client Sample ID: **110026-MW5**
Client Project ID: **110026-002; Kasilof Riverview**
Lab Sample ID: 1236845007
Lab Project ID: 1236845

Collection Date: 12/20/23 10:20
Received Date: 12/21/23 10:14
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS23048
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 12/22/23 22:23
Container ID: 1236845007-D

Prep Batch: VXX40879
Prep Method: SW5030B
Prep Date/Time: 12/22/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Analytical Batch: VMS23049
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 12/22/23 23:25
Container ID: 1236845007-D

Prep Batch: VXX40880
Prep Method: SW5030B
Prep Date/Time: 12/22/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL



Results of 110026-MW15

Client Sample ID: **110026-MW15**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845008
 Lab Project ID: 1236845

Collection Date: 12/20/23 10:50
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Polynuclear Aromatics GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 23:31
2-Methylnaphthalene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 23:31
Acenaphthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 23:31
Acenaphthylene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 23:31
Anthracene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 23:31
Benzo(a)Anthracene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 23:31
Benzo[a]pyrene	0.00980	U	0.0196	0.00608	0.00980	ug/L	1		12/27/23 23:31
Benzo[b]Fluoranthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 23:31
Benzo[g,h,i]perylene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 23:31
Benzo[k]fluoranthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 23:31
Chrysene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 23:31
Dibenzo[a,h]anthracene	0.00980	U	0.0196	0.00608	0.00980	ug/L	1		12/27/23 23:31
Fluoranthene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 23:31
Fluorene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 23:31
Indeno[1,2,3-c,d] pyrene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 23:31
Naphthalene	0.0490	U	0.0980	0.0304	0.0490	ug/L	1		12/27/23 23:31
Phenanthrene	0.0490	U	0.0980	0.0304	0.0490	ug/L	1		12/27/23 23:31
Pyrene	0.0245	U	0.0490	0.0147	0.0245	ug/L	1		12/27/23 23:31

Surrogates

2-Methylnaphthalene-d10 (surr)	76.5		38-100			%	1		12/27/23 23:31
Fluoranthene-d10 (surr)	85		30-111			%	1		12/27/23 23:31

Batch Information

Analytical Batch: XMS14140
 Analytical Method: 8270D SIM LV (PAH)
 Analyst: HMW
 Analytical Date/Time: 12/27/23 23:31
 Container ID: 1236845008-I

Prep Batch: XXX49129
 Prep Method: SW3535A
 Prep Date/Time: 12/22/23 16:00
 Prep Initial Wt./Vol.: 255 mL
 Prep Extract Vol: 1 mL

Results of 110026-MW15

Client Sample ID: **110026-MW15**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845008
 Lab Project ID: 1236845

Collection Date: 12/20/23 10:50
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Semivolatile Organic Fuels

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Diesel Range Organics	0.379	J	0.545	0.182	0.273	mg/L	1		01/04/24 15:48
Surrogates									
5a Androstane (surr)	66.1		50-150			%	1		01/04/24 15:48

Batch Information

Analytical Batch: XFC16777
 Analytical Method: AK102
 Analyst: T.L
 Analytical Date/Time: 01/04/24 15:48
 Container ID: 1236845008-G

Prep Batch: XXX49140
 Prep Method: SW3520C
 Prep Date/Time: 01/03/24 18:30
 Prep Initial Wt./Vol.: 275 mL
 Prep Extract Vol: 1 mL



Results of 110026-MW15

Client Sample ID: **110026-MW15**
Client Project ID: **110026-002; Kasilof Riverview**
Lab Sample ID: 1236845008
Lab Project ID: 1236845

Collection Date: 12/20/23 10:50
Received Date: 12/21/23 10:14
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile Fuels

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Gasoline Range Organics	0.0962	J	0.100	0.0450	0.0500	mg/L	1		12/22/23 02:29
Surrogates									
4-Bromofluorobenzene (surr)	95.7		50-150			%	1		12/22/23 02:29

Batch Information

Analytical Batch: VFC16713
Analytical Method: AK101
Analyst: JY
Analytical Date/Time: 12/22/23 02:29
Container ID: 1236845008-A

Prep Batch: VXX40868
Prep Method: SW5030B
Prep Date/Time: 12/21/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL



Results of 110026-MW15

Client Sample ID: **110026-MW15**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845008
 Lab Project ID: 1236845

Collection Date: 12/20/23 10:50
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:39
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:39
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		12/22/23 22:39
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:39
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		12/22/23 22:39
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
1,2-Dichloroethane	0.210	J	0.500	0.200	0.250	ug/L	1		12/22/23 22:39
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
1,3,5-Trimethylbenzene	0.510	J	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:39
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:39
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:39
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:39
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
4-Isopropyltoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:39
Benzene	11.1		0.400	0.120	0.200	ug/L	1		12/22/23 22:39
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:39
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		12/22/23 23:41
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:39
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:39
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39

Print Date: 01/08/2024 10:21:56AM

J flagging is activated

SGS North America Inc.

200 West Potter Drive Anchorage, AK 95518
 t 907.562.2343 f 907.561.5301 www.us.sgs.com

Member of SGS Group



Results of 110026-MW15

Client Sample ID: **110026-MW15**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845008
 Lab Project ID: 1236845

Collection Date: 12/20/23 10:50
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
Chloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:39
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:39
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
Ethylbenzene	0.390	J	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:39
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
Isopropylbenzene (Cumene)	0.520	J	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:39
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:39
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
n-Propylbenzene	0.380	J	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		12/22/23 22:39
sec-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 22:39
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 22:39
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 22:39
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		12/22/23 23:41
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		12/22/23 22:39

Surrogates

1,2-Dichloroethane-D4 (surr)	118		81-118			%	1		12/22/23 22:39
4-Bromofluorobenzene (surr)	94.3		85-114			%	1		12/22/23 22:39
Toluene-d8 (surr)	102		89-112			%	1		12/22/23 22:39

Results of 110026-MW15

Client Sample ID: **110026-MW15**
Client Project ID: **110026-002; Kasilof Riverview**
Lab Sample ID: 1236845008
Lab Project ID: 1236845

Collection Date: 12/20/23 10:50
Received Date: 12/21/23 10:14
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS23048
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 12/22/23 22:39
Container ID: 1236845008-D

Prep Batch: VXX40879
Prep Method: SW5030B
Prep Date/Time: 12/22/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Analytical Batch: VMS23049
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 12/22/23 23:41
Container ID: 1236845008-D

Prep Batch: VXX40880
Prep Method: SW5030B
Prep Date/Time: 12/22/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL



Results of **110026-WTB**

Client Sample ID: **110026-WTB**
Client Project ID: **110026-002; Kasilof Riverview**
Lab Sample ID: 1236845009
Lab Project ID: 1236845

Collection Date: 12/19/23 08:00
Received Date: 12/21/23 10:14
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Gasoline Range Organics	0.0500	U	0.100	0.0450	0.0500	mg/L	1		12/21/23 21:51
Surrogates									
4-Bromofluorobenzene (surr)	87.7		50-150			%	1		12/21/23 21:51

Batch Information

Analytical Batch: VFC16713
Analytical Method: AK101
Analyst: JY
Analytical Date/Time: 12/21/23 21:51
Container ID: 1236845009-A

Prep Batch: VXX40868
Prep Method: SW5030B
Prep Date/Time: 12/21/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL



Results of 110026-WTB

Client Sample ID: **110026-WTB**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845009
 Lab Project ID: 1236845

Collection Date: 12/19/23 08:00
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 19:51
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 19:51
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		12/22/23 19:51
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 19:51
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		12/22/23 19:51
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
1,2-Dichloroethane	0.250	U	0.500	0.200	0.250	ug/L	1		12/22/23 19:51
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 19:51
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 19:51
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 19:51
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 19:51
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
4-Isopropyltoluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 19:51
Benzene	0.200	U	0.400	0.120	0.200	ug/L	1		12/22/23 19:51
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 19:51
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		12/22/23 20:34
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 19:51
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 19:51
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51

Print Date: 01/08/2024 10:21:56AM

J flagging is activated



Results of 110026-WTB

Client Sample ID: **110026-WTB**
 Client Project ID: **110026-002; Kasilof Riverview**
 Lab Sample ID: 1236845009
 Lab Project ID: 1236845

Collection Date: 12/19/23 08:00
 Received Date: 12/21/23 10:14
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
Chloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 19:51
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 19:51
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
Ethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 19:51
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 19:51
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 19:51
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
n-Propylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		12/22/23 19:51
sec-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		12/22/23 19:51
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		12/22/23 19:51
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		12/22/23 19:51
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		12/22/23 20:34
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		12/22/23 19:51

Surrogates

1,2-Dichloroethane-D4 (surr)	115		81-118			%	1		12/22/23 19:51
4-Bromofluorobenzene (surr)	90.2		85-114			%	1		12/22/23 19:51
Toluene-d8 (surr)	101		89-112			%	1		12/22/23 19:51

Results of 110026-WTB

Client Sample ID: **110026-WTB**
Client Project ID: **110026-002; Kasilof Riverview**
Lab Sample ID: 1236845009
Lab Project ID: 1236845

Collection Date: 12/19/23 08:00
Received Date: 12/21/23 10:14
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS23048
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 12/22/23 19:51
Container ID: 1236845009-D

Prep Batch: VXX40879
Prep Method: SW5030B
Prep Date/Time: 12/22/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Analytical Batch: VMS23049
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 12/22/23 20:34
Container ID: 1236845009-D

Prep Batch: VXX40880
Prep Method: SW5030B
Prep Date/Time: 12/22/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Method Blank

Blank ID: MB for HBN 1869647 [VXX/40868]
 Blank Lab ID: 1750068

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1236845003, 1236845004, 1236845005, 1236845006, 1236845007, 1236845008, 1236845009

Results by AK101

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>
Gasoline Range Organics	0.0500U	0.100	0.0450	0.0500	mg/L
Surrogates					
1,4-Difluorobenzene (surr)	100	77-115		0	%
4-Bromofluorobenzene (surr)	88.8	50-150		0	%

Batch Information

Analytical Batch: VFC16713
 Analytical Method: AK101
 Instrument: Agilent 7890A PID/FID
 Analyst: JY
 Analytical Date/Time: 12/21/2023 1:47:00PM

Prep Batch: VXX40868
 Prep Method: SW5030B
 Prep Date/Time: 12/21/2023 6:00:00AM
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

Print Date: 01/08/2024 10:22:00AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1236845 [VXX40868]
 Blank Spike Lab ID: 1750069
 Date Analyzed: 12/21/2023 14:24

Spike Duplicate ID: LCSD for HBN 1236845 [VXX40868]
 Spike Duplicate Lab ID: 1750070
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1236845003, 1236845004, 1236845005, 1236845006, 1236845007, 1236845008, 1236845009

Results by AK101

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Gasoline Range Organics	1.00	0.904	90	1.00	0.921	92	(60-120)	1.80	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500		96	0.0500		94	(50-150)	2.60	

Batch Information

Analytical Batch: **VFC16713**
 Analytical Method: **AK101**
 Instrument: **Agilent 7890A PID/FID**
 Analyst: **JY**

Prep Batch: **VXX40868**
 Prep Method: **SW5030B**
 Prep Date/Time: **12/21/2023 06:00**
 Spike Init Wt./Vol.: 0.0500 mg/L Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 0.0500 mg/L Extract Vol: 5 mL

Print Date: 01/08/2024 10:22:03AM



Method Blank

Blank ID: MB for HBN 1869832 [VXX/40872]

Blank Lab ID: 1750125

QC for Samples:

1236845001, 1236845002

Matrix: Water (Surface, Eff., Ground)

Results by SW8021B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>
Benzene	0.250U	0.500	0.150	0.250	ug/L
Ethylbenzene	0.500U	1.00	0.500	0.500	ug/L
o-Xylene	0.500U	1.00	0.500	0.500	ug/L
P & M -Xylene	1.00U	2.00	0.900	1.00	ug/L
Toluene	0.500U	1.00	0.500	0.500	ug/L
Xylenes (total)	1.50U	3.00	1.40	1.50	ug/L

Surrogates

1,4-Difluorobenzene (surr)	100	77-115		0	%
----------------------------	-----	--------	--	---	---

Batch Information

Analytical Batch: VFC16715
 Analytical Method: SW8021B
 Instrument: Agilent 7890A PID/FID
 Analyst: JY
 Analytical Date/Time: 12/22/2023 2:34:00PM

Prep Batch: VXX40872
 Prep Method: SW5030B
 Prep Date/Time: 12/22/2023 6:00:00AM
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

Print Date: 01/08/2024 10:22:06AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1236845 [VXX40872]
 Blank Spike Lab ID: 1750126
 Date Analyzed: 12/22/2023 15:11

Spike Duplicate ID: LCSD for HBN 1236845 [VXX40872]
 Spike Duplicate Lab ID: 1750127
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1236845001, 1236845002

Results by SW8021B

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Benzene	100	118	118	100	117	117	(80-120)	1.10	(< 20)
Ethylbenzene	100	101	101	100	99.3	99	(75-125)	1.30	(< 20)
o-Xylene	100	96.9	97	100	95.6	96	(80-120)	1.30	(< 20)
P & M -Xylene	200	197	98	200	194	97	(75-130)	1.40	(< 20)
Toluene	100	110	110	100	108	108	(75-120)	1.30	(< 20)
Xylenes (total)	300	294	98	300	290	97	(79-121)	1.40	(< 20)
Surrogates									
1,4-Difluorobenzene (surr)	50		106	50		105	(77-115)	1.30	

Batch Information

Analytical Batch: VFC16715
 Analytical Method: SW8021B
 Instrument: Agilent 7890A PID/FID
 Analyst: JY

Prep Batch: VXX40872
 Prep Method: SW5030B
 Prep Date/Time: 12/22/2023 06:00
 Spike Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL



Method Blank

Blank ID: MB for HBN 1869872 [VXX/40879]
Blank Lab ID: 1750286

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1236845003, 1236845004, 1236845005, 1236845006, 1236845007, 1236845008, 1236845009

Results by SW8260D

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>
1,1,1,2-Tetrachloroethane	0.250U	0.500	0.150	0.250	ug/L
1,1,1-Trichloroethane	0.500U	1.00	0.310	0.500	ug/L
1,1,2,2-Tetrachloroethane	0.250U	0.500	0.150	0.250	ug/L
1,1,2-Trichloroethane	0.200U	0.400	0.120	0.200	ug/L
1,1-Dichloroethane	0.500U	1.00	0.310	0.500	ug/L
1,1-Dichloroethene	0.500U	1.00	0.310	0.500	ug/L
1,1-Dichloropropene	0.500U	1.00	0.310	0.500	ug/L
1,2,3-Trichlorobenzene	0.500U	1.00	0.310	0.500	ug/L
1,2,3-Trichloropropane	0.500U	1.00	0.310	0.500	ug/L
1,2,4-Trichlorobenzene	0.500U	1.00	0.310	0.500	ug/L
1,2,4-Trimethylbenzene	0.500U	1.00	0.310	0.500	ug/L
1,2-Dibromo-3-chloropropane	5.00U	10.0	3.10	5.00	ug/L
1,2-Dibromoethane	0.0375U	0.0750	0.0180	0.0375	ug/L
1,2-Dichlorobenzene	0.500U	1.00	0.310	0.500	ug/L
1,2-Dichloroethane	0.250U	0.500	0.200	0.250	ug/L
1,2-Dichloropropane	0.500U	1.00	0.310	0.500	ug/L
1,3,5-Trimethylbenzene	0.500U	1.00	0.310	0.500	ug/L
1,3-Dichlorobenzene	0.500U	1.00	0.310	0.500	ug/L
1,3-Dichloropropane	0.250U	0.500	0.150	0.250	ug/L
1,4-Dichlorobenzene	0.250U	0.500	0.150	0.250	ug/L
2,2-Dichloropropane	0.500U	1.00	0.310	0.500	ug/L
2-Butanone (MEK)	5.00U	10.0	3.10	5.00	ug/L
2-Chlorotoluene	0.500U	1.00	0.310	0.500	ug/L
2-Hexanone	5.00U	10.0	3.10	5.00	ug/L
4-Chlorotoluene	0.500U	1.00	0.310	0.500	ug/L
4-Isopropyltoluene	0.500U	1.00	0.310	0.500	ug/L
4-Methyl-2-pentanone (MIBK)	5.00U	10.0	3.10	5.00	ug/L
Benzene	0.200U	0.400	0.120	0.200	ug/L
Bromobenzene	0.500U	1.00	0.310	0.500	ug/L
Bromochloromethane	0.500U	1.00	0.310	0.500	ug/L
Bromodichloromethane	0.250U	0.500	0.150	0.250	ug/L
Bromoform	0.500U	1.00	0.310	0.500	ug/L
Carbon disulfide	5.00U	10.0	3.10	5.00	ug/L
Carbon tetrachloride	0.500U	1.00	0.310	0.500	ug/L
Chlorobenzene	0.250U	0.500	0.150	0.250	ug/L
Chloroethane	0.500U	1.00	0.310	0.500	ug/L
Chloroform	0.500U	1.00	0.310	0.500	ug/L
Chloromethane	0.500U	1.00	0.310	0.500	ug/L
cis-1,2-Dichloroethene	0.500U	1.00	0.310	0.500	ug/L
cis-1,3-Dichloropropene	0.250U	0.500	0.150	0.250	ug/L
Dibromochloromethane	0.250U	0.500	0.150	0.250	ug/L
Dibromomethane	0.500U	1.00	0.310	0.500	ug/L

Print Date: 01/08/2024 10:22:11AM



Method Blank

Blank ID: MB for HBN 1869872 [VXX/40879]
 Blank Lab ID: 1750286

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1236845003, 1236845004, 1236845005, 1236845006, 1236845007, 1236845008, 1236845009

Results by SW8260D

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>
Dichlorodifluoromethane	0.500U	1.00	0.310	0.500	ug/L
Ethylbenzene	0.500U	1.00	0.310	0.500	ug/L
Freon-113	5.00U	10.0	3.10	5.00	ug/L
Hexachlorobutadiene	0.500U	1.00	0.310	0.500	ug/L
Isopropylbenzene (Cumene)	0.500U	1.00	0.310	0.500	ug/L
Methylene chloride	5.00U	10.0	3.10	5.00	ug/L
Methyl-t-butyl ether	5.00U	10.0	3.10	5.00	ug/L
Naphthalene	0.500U	1.00	0.310	0.500	ug/L
n-Butylbenzene	0.500U	1.00	0.310	0.500	ug/L
n-Propylbenzene	0.500U	1.00	0.310	0.500	ug/L
o-Xylene	0.500U	1.00	0.310	0.500	ug/L
P & M -Xylene	1.00U	2.00	0.620	1.00	ug/L
sec-Butylbenzene	0.500U	1.00	0.310	0.500	ug/L
Styrene	0.500U	1.00	0.310	0.500	ug/L
tert-Butylbenzene	0.500U	1.00	0.310	0.500	ug/L
Tetrachloroethene	0.500U	1.00	0.310	0.500	ug/L
Toluene	0.500U	1.00	0.310	0.500	ug/L
trans-1,2-Dichloroethene	0.500U	1.00	0.310	0.500	ug/L
trans-1,3-Dichloropropene	0.500U	1.00	0.310	0.500	ug/L
Trichloroethene	0.250U	0.500	0.150	0.250	ug/L
Trichlorofluoromethane	0.500U	1.00	0.310	0.500	ug/L
Vinyl acetate	5.00U	10.0	3.10	5.00	ug/L
Xylenes (total)	1.50U	3.00	1.00	1.50	ug/L
Surrogates					
1,2-Dichloroethane-D4 (surr)	109	81-118		0	%
4-Bromofluorobenzene (surr)	90.8	85-114		0	%
Toluene-d8 (surr)	101	89-112		0	%

Batch Information

Analytical Batch: VMS23048
 Analytical Method: SW8260D
 Instrument: VPA 780/5975 GC/MS
 Analyst: JY
 Analytical Date/Time: 12/22/2023 2:55:00PM

Prep Batch: VXX40879
 Prep Method: SW5030B
 Prep Date/Time: 12/22/2023 6:00:00AM
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

Print Date: 01/08/2024 10:22:11AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1236845 [VXX40879]
 Blank Spike Lab ID: 1750287
 Date Analyzed: 12/22/2023 15:11

Spike Duplicate ID: LCSD for HBN 1236845 [VXX40879]
 Spike Duplicate Lab ID: 1750288
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1236845003, 1236845004, 1236845005, 1236845006, 1236845007, 1236845008, 1236845009

Results by SW8260D

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
1,1,1,2-Tetrachloroethane	30	33.8	113	30	34.7	116	(78-124)	2.60	(< 20)
1,1,1-Trichloroethane	30	30.8	103	30	31.0	103	(74-131)	0.52	(< 20)
1,1,2,2-Tetrachloroethane	30	28.6	95	30	29.0	97	(71-121)	1.40	(< 20)
1,1,2-Trichloroethane	30	30.8	103	30	31.3	104	(80-119)	1.60	(< 20)
1,1-Dichloroethane	30	28.7	96	30	28.8	96	(77-125)	0.45	(< 20)
1,1-Dichloroethene	30	30.4	101	30	30.4	101	(71-131)	0.07	(< 20)
1,1-Dichloropropene	30	29.9	100	30	30.2	101	(79-125)	1.00	(< 20)
1,2,3-Trichlorobenzene	30	30.0	100	30	30.1	100	(69-129)	0.57	(< 20)
1,2,3-Trichloropropane	30	30.1	100	30	30.2	101	(73-122)	0.40	(< 20)
1,2,4-Trichlorobenzene	30	30.1	100	30	30.2	101	(69-130)	0.37	(< 20)
1,2,4-Trimethylbenzene	30	27.8	93	30	28.3	95	(79-124)	2.00	(< 20)
1,2-Dibromo-3-chloropropane	30	27.8	93	30	28.1	94	(62-128)	1.10	(< 20)
1,2-Dibromoethane	30	34.2	114	30	35.0	117	(77-121)	2.50	(< 20)
1,2-Dichlorobenzene	30	28.7	96	30	28.8	96	(80-119)	0.35	(< 20)
1,2-Dichloroethane	30	28.9	96	30	29.5	98	(73-128)	2.30	(< 20)
1,2-Dichloropropane	30	31.1	104	30	31.3	104	(78-122)	0.58	(< 20)
1,3,5-Trimethylbenzene	30	27.9	93	30	27.9	93	(75-124)	0.04	(< 20)
1,3-Dichlorobenzene	30	28.4	95	30	28.8	96	(80-119)	1.30	(< 20)
1,3-Dichloropropane	30	31.5	105	30	32.0	107	(80-119)	1.60	(< 20)
1,4-Dichlorobenzene	30	28.5	95	30	28.7	96	(79-118)	0.60	(< 20)
2,2-Dichloropropane	30	29.4	98	30	30.0	100	(60-139)	2.00	(< 20)
2-Butanone (MEK)	90	109	121	90	107	119	(56-143)	1.70	(< 20)
2-Chlorotoluene	30	26.9	90	30	27.0	90	(79-122)	0.56	(< 20)
2-Hexanone	90	98.2	109	90	99.6	111	(57-139)	1.40	(< 20)
4-Chlorotoluene	30	26.6	89	30	26.5	89	(78-122)	0.08	(< 20)
4-Isopropyltoluene	30	28.2	94	30	28.7	96	(77-127)	1.70	(< 20)
4-Methyl-2-pentanone (MIBK)	90	103	115	90	105	116	(67-130)	1.10	(< 20)
Benzene	30	29.8	99	30	30.2	101	(79-120)	1.10	(< 20)
Bromobenzene	30	29.2	97	30	29.7	99	(80-120)	1.50	(< 20)
Bromochloromethane	30	33.3	111	30	33.7	112	(78-123)	1.40	(< 20)
Bromodichloromethane	30	31.6	105	30	31.9	106	(79-125)	0.98	(< 20)
Bromoform	30	34.7	116	30	35.3	118	(66-130)	1.80	(< 20)
Carbon disulfide	45	41.6	93	45	41.3	92	(64-133)	0.72	(< 20)

Print Date: 01/08/2024 10:22:15AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1236845 [VXX40879]
 Blank Spike Lab ID: 1750287
 Date Analyzed: 12/22/2023 15:11

Spike Duplicate ID: LCSD for HBN 1236845 [VXX40879]
 Spike Duplicate Lab ID: 1750288
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1236845003, 1236845004, 1236845005, 1236845006, 1236845007, 1236845008, 1236845009

Results by SW8260D

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Carbon tetrachloride	30	32.3	108	30	32.6	109	(72-136)	1.00	(< 20)
Chlorobenzene	30	31.3	104	30	31.9	106	(82-118)	2.00	(< 20)
Chloroethane	30	30.3	101	30	29.4	98	(60-138)	3.20	(< 20)
Chloroform	30	29.7	99	30	30.0	100	(79-124)	1.00	(< 20)
Chloromethane	30	24.9	83	30	25.1	84	(50-139)	0.56	(< 20)
cis-1,2-Dichloroethene	30	30.3	101	30	30.7	102	(78-123)	1.50	(< 20)
cis-1,3-Dichloropropene	30	32.3	108	30	32.9	110	(75-124)	1.80	(< 20)
Dibromochloromethane	30	34.6	115	30	35.1	117	(74-126)	1.50	(< 20)
Dibromomethane	30	31.2	104	30	32.2	107	(79-123)	3.20	(< 20)
Dichlorodifluoromethane	30	31.3	104	30	30.0	100	(32-152)	4.20	(< 20)
Ethylbenzene	30	30.6	102	30	30.8	103	(79-121)	0.62	(< 20)
Freon-113	45	45.9	102	45	45.3	101	(70-136)	1.40	(< 20)
Hexachlorobutadiene	30	29.7	99	30	30.1	100	(66-134)	1.20	(< 20)
Isopropylbenzene (Cumene)	30	30.0	100	30	30.1	100	(72-131)	0.57	(< 20)
Methylene chloride	30	32.4	108	30	32.3	108	(74-124)	0.19	(< 20)
Methyl-t-butyl ether	45	48.1	107	45	49.1	109	(71-124)	2.10	(< 20)
Naphthalene	30	31.1	104	30	31.3	104	(61-128)	0.90	(< 20)
n-Butylbenzene	30	26.7	89	30	26.9	90	(75-128)	0.71	(< 20)
n-Propylbenzene	30	26.7	89	30	26.7	89	(76-126)	0.26	(< 20)
o-Xylene	30	30.8	103	30	31.2	104	(78-122)	1.20	(< 20)
P & M -Xylene	60	61.4	102	60	61.8	103	(80-121)	0.50	(< 20)
sec-Butylbenzene	30	27.1	90	30	27.1	90	(77-126)	0.07	(< 20)
Styrene	30	31.6	105	30	32.1	107	(78-123)	1.70	(< 20)
tert-Butylbenzene	30	27.7	92	30	27.8	93	(78-124)	0.25	(< 20)
Tetrachloroethene	30	32.1	107	30	32.8	109	(74-129)	2.20	(< 20)
Toluene	30	29.4	98	30	30.1	100	(80-121)	2.20	(< 20)
trans-1,2-Dichloroethene	30	30.3	101	30	30.2	101	(75-124)	0.23	(< 20)
trans-1,3-Dichloropropene	30	32.9	110	30	33.6	112	(73-127)	2.00	(< 20)
Trichloroethene	30	30.9	103	30	30.9	103	(79-123)	0.10	(< 20)
Trichlorofluoromethane	30	36.0	120	30	34.5	115	(65-141)	4.50	(< 20)
Vinyl acetate	30	33.6	112	30	34.1	114	(54-146)	1.50	(< 20)
Xylenes (total)	90	92.3	103	90	92.9	103	(79-121)	0.73	(< 20)

Surrogates

Print Date: 01/08/2024 10:22:15AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1236845 [VXX40879]
 Blank Spike Lab ID: 1750287
 Date Analyzed: 12/22/2023 15:11

Spike Duplicate ID: LCSD for HBN 1236845 [VXX40879]
 Spike Duplicate Lab ID: 1750288
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1236845003, 1236845004, 1236845005, 1236845006, 1236845007, 1236845008, 1236845009

Results by SW8260D

Parameter	Blank Spike (%)			Spike Duplicate (%)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
1,2-Dichloroethane-D4 (surr)	30		100	30		100	(81-118)	0.03	
4-Bromofluorobenzene (surr)	30		91	30		92	(85-114)	0.33	
Toluene-d8 (surr)	30		101	30		102	(89-112)	0.66	

Batch Information

Analytical Batch: **VMS23048**
 Analytical Method: **SW8260D**
 Instrument: **VPA 780/5975 GC/MS**
 Analyst: **JY**

Prep Batch: **VXX40879**
 Prep Method: **SW5030B**
 Prep Date/Time: **12/22/2023 06:00**
 Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

Print Date: 01/08/2024 10:22:15AM



Method Blank

Blank ID: MB for HBN 1869874 [VXX/40880]
Blank Lab ID: 1750291

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1236845003, 1236845004, 1236845005, 1236845006, 1236845007, 1236845008, 1236845009

Results by SW8260D

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>
Bromomethane	3.00U	6.00	3.00	3.00	ug/L
Vinyl chloride	0.0750U	0.150	0.0500	0.0750	ug/L
Surrogates					
1,2-Dichloroethane-D4 (surr)	110	81-118		0	%
4-Bromofluorobenzene (surr)	106	85-114		0	%
Toluene-d8 (surr)	105	89-112		0	%

Batch Information

Analytical Batch: VMS23049
Analytical Method: SW8260D
Instrument: Agilent 7890-75MS
Analyst: JY
Analytical Date/Time: 12/22/2023 2:56:00PM

Prep Batch: VXX40880
Prep Method: SW5030B
Prep Date/Time: 12/22/2023 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 01/08/2024 10:22:18AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1236845 [VXX40880]
 Blank Spike Lab ID: 1750292
 Date Analyzed: 12/22/2023 15:11

Spike Duplicate ID: LCSD for HBN 1236845 [VXX40880]
 Spike Duplicate Lab ID: 1750293
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1236845003, 1236845004, 1236845005, 1236845006, 1236845007, 1236845008, 1236845009

Results by SW8260D

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Bromomethane	30	39.8	133	30	40.4	135	(53-141)	1.70	(< 20)
Vinyl chloride	30	25.1	84	30	24.5	82	(58-137)	2.60	(< 20)
Surrogates									
1,2-Dichloroethane-D4 (surr)	30		100	30		102	(81-118)	1.80	
4-Bromofluorobenzene (surr)	30		100	30		101	(85-114)	0.86	
Toluene-d8 (surr)	30		104	30		103	(89-112)	0.84	

Batch Information

Analytical Batch: **VMS23049**
 Analytical Method: **SW8260D**
 Instrument: **Agilent 7890-75MS**
 Analyst: **JY**

Prep Batch: **VXX40880**
 Prep Method: **SW5030B**
 Prep Date/Time: **12/22/2023 06:00**
 Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL



Method Blank

Blank ID: MB for HBN 1869655 [XXX/49129]
Blank Lab ID: 1750098

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1236845003, 1236845004, 1236845005, 1236845006, 1236845007, 1236845008

Results by 8270D SIM LV (PAH)

Parameter	Results	LOQ/CL	DL	LOD	Units
1-Methylnaphthalene	0.0250U	0.0500	0.0150	0.0250	ug/L
2-Methylnaphthalene	0.0250U	0.0500	0.0150	0.0250	ug/L
Acenaphthene	0.0250U	0.0500	0.0150	0.0250	ug/L
Acenaphthylene	0.0250U	0.0500	0.0150	0.0250	ug/L
Anthracene	0.0250U	0.0500	0.0150	0.0250	ug/L
Benzo(a)Anthracene	0.0250U	0.0500	0.0150	0.0250	ug/L
Benzo[a]pyrene	0.0100U	0.0200	0.00620	0.0100	ug/L
Benzo[b]Fluoranthene	0.0250U	0.0500	0.0150	0.0250	ug/L
Benzo[g,h,i]perylene	0.0250U	0.0500	0.0150	0.0250	ug/L
Benzo[k]fluoranthene	0.0250U	0.0500	0.0150	0.0250	ug/L
Chrysene	0.0250U	0.0500	0.0150	0.0250	ug/L
Dibenzo[a,h]anthracene	0.0100U	0.0200	0.00620	0.0100	ug/L
Fluoranthene	0.0250U	0.0500	0.0150	0.0250	ug/L
Fluorene	0.0250U	0.0500	0.0150	0.0250	ug/L
Indeno[1,2,3-c,d] pyrene	0.0250U	0.0500	0.0150	0.0250	ug/L
Naphthalene	0.0500U	0.100	0.0310	0.0500	ug/L
Phenanthrene	0.0500U	0.100	0.0310	0.0500	ug/L
Pyrene	0.0250U	0.0500	0.0150	0.0250	ug/L
Surrogates					
2-Methylnaphthalene-d10 (surr)	70.6	38-100		0	%
Fluoranthene-d10 (surr)	71.9	30-111		0	%

Batch Information

Analytical Batch: XMS14140
Analytical Method: 8270D SIM LV (PAH)
Instrument: Agilent 8890 GC/MS SYA
Analyst: HMW
Analytical Date/Time: 12/27/2023 8:51:00PM

Prep Batch: XXX49129
Prep Method: SW3535A
Prep Date/Time: 12/22/2023 4:00:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 01/08/2024 10:22:24AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1236845 [XXX49129]
 Blank Spike Lab ID: 1750099
 Date Analyzed: 12/27/2023 21:07

Spike Duplicate ID: LCSD for HBN 1236845 [XXX49129]
 Spike Duplicate Lab ID: 1750100
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1236845003, 1236845004, 1236845005, 1236845006, 1236845007, 1236845008

Results by 8270D SIM LV (PAH)

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
1-Methylnaphthalene	2	0.829	41	2	0.967	48	(41-115)	15.40	(< 20)
2-Methylnaphthalene	2	0.802	40	2	0.948	47	(39-114)	16.70	(< 20)
Acenaphthene	2	0.874	44	* 2	1.01	51	(48-114)	14.80	(< 20)
Acenaphthylene	2	0.924	46	2	1.04	52	(35-121)	12.00	(< 20)
Anthracene	2	0.956	48	* 2	1.06	53	* (53-119)	10.20	(< 20)
Benzo(a)Anthracene	2	1.42	71	2	1.48	74	(59-120)	3.90	(< 20)
Benzo[a]pyrene	2	1.59	80	2	1.64	82	(53-120)	3.00	(< 20)
Benzo[b]Fluoranthene	2	1.58	79	2	1.65	82	(53-126)	4.30	(< 20)
Benzo[g,h,i]perylene	2	1.88	94	2	1.93	97	(44-128)	3.00	(< 20)
Benzo[k]fluoranthene	2	1.67	84	2	1.74	87	(54-125)	3.70	(< 20)
Chrysene	2	1.51	76	2	1.57	79	(57-120)	3.70	(< 20)
Dibenzo[a,h]anthracene	2	1.93	97	2	1.97	99	(44-131)	2.30	(< 20)
Fluoranthene	2	1.13	57	* 2	1.22	61	(58-120)	7.70	(< 20)
Fluorene	2	0.925	46	* 2	1.08	54	(50-118)	15.00	(< 20)
Indeno[1,2,3-c,d] pyrene	2	1.90	95	2	1.96	98	(48-130)	3.10	(< 20)
Naphthalene	2	0.853	43	* 2	0.993	50	(43-114)	15.10	(< 20)
Phenanthrene	2	0.968	48	* 2	1.11	55	(53-115)	13.30	(< 20)
Pyrene	2	1.16	58	2	1.26	63	(53-121)	8.10	(< 20)

Surrogates

2-Methylnaphthalene-d10 (surr)	2		41	2		50	(38-100)	18.80	
Fluoranthene-d10 (surr)	2		58	2		63	(30-111)	9.70	

Batch Information

Analytical Batch: XMS14140
 Analytical Method: 8270D SIM LV (PAH)
 Instrument: Agilent 8890 GC/MS SYA
 Analyst: HMW

Prep Batch: XXX49129
 Prep Method: SW3535A
 Prep Date/Time: 12/22/2023 16:00
 Spike Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL
 Dupe Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL

Print Date: 01/08/2024 10:22:27AM



Method Blank

Blank ID: MB for HBN 1870032 [XXX/49140]
Blank Lab ID: 1750676

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1236845003, 1236845004, 1236845005, 1236845006, 1236845007, 1236845008

Results by AK102

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>
Diesel Range Organics	0.237J	0.600	0.200	0.300	mg/L
Surrogates					
5a Androstane (surr)	68.9	60-120		0	%

Batch Information

Analytical Batch: XFC16777
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: T.L
Analytical Date/Time: 1/4/2024 1:57:00PM

Prep Batch: XXX49140
Prep Method: SW3520C
Prep Date/Time: 1/3/2024 6:30:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 01/08/2024 10:22:31AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1236845 [XXX49140]
 Blank Spike Lab ID: 1750677
 Date Analyzed: 01/04/2024 14:09

Spike Duplicate ID: LCSD for HBN 1236845 [XXX49140]
 Spike Duplicate Lab ID: 1750678
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1236845003, 1236845004, 1236845005, 1236845006, 1236845007, 1236845008

Results by AK102

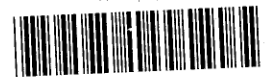
Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Diesel Range Organics	20	18.1	91	20	15.6	78	(75-125)	15.30	(< 20)
Surrogates									
5a Androstane (surr)	0.4		95	0.4		95	(60-120)	0.02	

Batch Information

Analytical Batch: **XFC16777**
 Analytical Method: **AK102**
 Instrument: **Agilent 7890B R**
 Analyst: **T.L**

Prep Batch: **XXX49140**
 Prep Method: **SW3520C**
 Prep Date/Time: **01/03/2024 18:30**
 Spike Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL
 Dupe Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL

Print Date: 01/08/2024 10:22:34AM



Shannon & Wilson, Inc.
5430 Fairbanks Street, Suite 3
Anchorage, Alaska 99518
(907) 561-2120
Fax (206) 695-6777

SGS North America Inc.

Profile # 365427 CSW

Date	Time	Sample ID	Total Containers	GRO-AK101	VOCs- EPA Method 8260D	DRO- AK102	PAHs- EPA Method 8270D SIM	BTEX - EPA 8021		
				VOA Vials HCl	VOA Vials HCl	Amber HCl	Amber 4C	VOA Vials HCl		
12/19/2023	15:41	110026-DW1	3							X
12/19/2023	16:06	110026-DW2	3							X
12/20/2023	11:39	110026-MW1	10	X	X	X	X			
12/20/2023	15:36	110026-MW2	10	X	X	X	X			
12/20/2023	14:32	110026-MW3	10	X	X	X	X			
12/20/2023	12:52	110026-MW4	10	X	X	X	X			
12/20/2023	10:20	110026-MW5	10	X	X	X	X			
12/20/2023	10:50	110026-MW15	10	X	X	X	X			
12/19/2023	8:00	110026-WTB	2 Sets	X	X					

Relinquished By:		Relinquished By:		Project Information	
Signature: <i>ZJT</i>	Signature:	Project Number: 110026-002			
Print Name: <i>Zach Thon</i>	Print Name:	Project Name: Kasilof Riverview Lodge			
Company: Shannon & Wilson, Inc.	Company:	Contact: Alec Rizzo / Zach Thon			
Date: <i>12/21/23</i>	Date:	Sampler: ZJT			
Time: <i>10:14</i>	Time:	Special Instructions:			
Received By:		Received By:		Sample Receipt	
Signature: <i>[Signature]</i>	Signature: <i>Jeremy Gorton</i>	Shipped Via: Hand Delivered			
Print Name:	Print Name: <i>Jeremy Gorton</i>	Cooler Temperature Upon Arrival: <i>1.2 D30</i>			
Company:	Company: <i>SES</i>	Sample Matrix: Water			
Date:	Date: <i>12/21/23 10:14</i>	10 Working DAY TAT			
Time:	Time: <i>10:14</i>				



1236845



SAMPLE RECEIPT FORM

Project Manager Completion				
Was all necessary information recorded on the COC upon receipt? (temperature, COC seals, etc.?)	<input checked="" type="radio"/> Yes	No	N/A	
Was temperature between 0-6 ° C?	<input checked="" type="radio"/> Yes	No	N/A	If "No", are the samples either exempt* or sampled <8 hours prior to receipt?
Were all analyses received within holding time*?	<input checked="" type="radio"/> Yes	No	N/A	
Was a method specified for each analysis, where applicable? If no, please note correct methods.	<input checked="" type="radio"/> Yes	No	N/A	
Are compound lists specified, where applicable? For project specific or special compound lists please note correct analysis code.	Yes	No	<input checked="" type="radio"/> N/A	
If rush was requested by the client, was the requested TAT approved?	Yes	No	<input checked="" type="radio"/> N/A	If "NO", what is the approved TAT?
If SEDD Deliverables are required, were Location ID's and an NPDL Number provided?	Yes	No	<input checked="" type="radio"/> N/A	If "NO", contact client for information.
Sample Login Completion				
Do ID's on sample containers match COC?	<input checked="" type="radio"/> Yes	No	N/A	
If provided on containers, do dates/times collected match COC?	<input checked="" type="radio"/> Yes	No	N/A	Note: If times differ <1 hr., record details below and login per COC.
Were all sample containers received in good condition?	<input checked="" type="radio"/> Yes	No	N/A	
Were proper containers (type/mass/volume/preservative) received for all samples? *See form F-083 "Sample Guide"	<input checked="" type="radio"/> Yes	No	N/A	Note: If 200.8/6020 Total Metals are received unpreserved, preserve and note HNO3 lot here: If 200.8/6020 Dissolved Metals are received unpreserved, log in for LABFILTER and do not preserve. For all non-metals methods, inform Project Manager.
Were Trip Blanks (VOC, GRO, Low-Level Hg, etc.) received with samples, where applicable*?	<input checked="" type="radio"/> Yes	No	N/A	
Were all VOA vials free of headspace >6mm?	<input checked="" type="radio"/> Yes	No	N/A	
Were all soil VOA samples received field extracted with Methanol?	Yes	No	<input checked="" type="radio"/> N/A	
Did all soil VOA samples have an accompanying unpreserved container for % solids?	Yes	No	<input checked="" type="radio"/> N/A	
If special handling is required, were containers labelled appropriately? e.g. MI/ISM, foreign soils, lab filter, Ref Lab, limited volume	Yes	No	<input checked="" type="radio"/> N/A	
For Rush/Short Holding time, was the lab notified?	<input checked="" type="radio"/> Yes	No	N/A	
For any question answered "NO", was the Project Manager notified?	Yes	No	<input checked="" type="radio"/> N/A	PM Initials:
Was Peer Review of sample numbering/labelling completed?	Yes	No	<input checked="" type="radio"/> N/A	Reviewer Initials:
Additional Notes/Clarification where Applicable, including resolution of "No" answers when a change order is not attached:				



Sample Containers and Preservatives

<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>	<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>
1236845001-A	HCL to pH < 2	OK	1236845007-E	HCL to pH < 2	OK
1236845001-B	HCL to pH < 2	OK	1236845007-F	HCL to pH < 2	OK
1236845001-C	HCL to pH < 2	OK	1236845007-G	HCL to pH < 2	OK
1236845002-A	HCL to pH < 2	OK	1236845007-H	HCL to pH < 2	OK
1236845002-B	HCL to pH < 2	OK	1236845007-I	No Preservative Required	OK
1236845002-C	HCL to pH < 2	OK	1236845007-J	No Preservative Required	OK
1236845003-A	HCL to pH < 2	OK	1236845008-A	HCL to pH < 2	OK
1236845003-B	HCL to pH < 2	OK	1236845008-B	HCL to pH < 2	OK
1236845003-C	HCL to pH < 2	OK	1236845008-C	HCL to pH < 2	OK
1236845003-D	HCL to pH < 2	OK	1236845008-D	HCL to pH < 2	OK
1236845003-E	HCL to pH < 2	OK	1236845008-E	HCL to pH < 2	OK
1236845003-F	HCL to pH < 2	OK	1236845008-F	HCL to pH < 2	OK
1236845003-G	HCL to pH < 2	OK	1236845008-G	HCL to pH < 2	OK
1236845003-H	HCL to pH < 2	OK	1236845008-H	HCL to pH < 2	OK
1236845003-I	No Preservative Required	OK	1236845008-I	No Preservative Required	OK
1236845003-J	No Preservative Required	OK	1236845008-J	No Preservative Required	OK
1236845004-A	HCL to pH < 2	OK	1236845009-A	HCL to pH < 2	OK
1236845004-B	HCL to pH < 2	OK	1236845009-B	HCL to pH < 2	OK
1236845004-C	HCL to pH < 2	OK	1236845009-C	HCL to pH < 2	OK
1236845004-D	HCL to pH < 2	OK	1236845009-D	HCL to pH < 2	OK
1236845004-E	HCL to pH < 2	OK	1236845009-E	HCL to pH < 2	OK
1236845004-F	HCL to pH < 2	OK	1236845009-F	HCL to pH < 2	OK
1236845004-G	HCL to pH < 2	OK	1236845009-G	HCL to pH < 2	OK
1236845004-H	HCL to pH < 2	OK	1236845009-H	HCL to pH < 2	OK
1236845004-I	No Preservative Required	OK	1236845009-I	HCL to pH < 2	OK
1236845004-J	No Preservative Required	OK			
1236845005-A	HCL to pH < 2	OK			
1236845005-B	HCL to pH < 2	OK			
1236845005-C	HCL to pH < 2	OK			
1236845005-D	HCL to pH < 2	OK			
1236845005-E	HCL to pH < 2	OK			
1236845005-F	HCL to pH < 2	OK			
1236845005-G	HCL to pH < 2	OK			
1236845005-H	HCL to pH < 2	OK			
1236845005-I	No Preservative Required	OK			
1236845005-J	No Preservative Required	OK			
1236845006-A	HCL to pH < 2	OK			
1236845006-B	HCL to pH < 2	OK			
1236845006-C	HCL to pH < 2	OK			
1236845006-D	HCL to pH < 2	OK			
1236845006-E	HCL to pH < 2	OK			
1236845006-F	HCL to pH < 2	OK			
1236845006-G	HCL to pH < 2	OK			
1236845006-H	HCL to pH < 2	OK			
1236845006-I	No Preservative Required	OK			
1236845006-J	No Preservative Required	OK			
1236845007-A	HCL to pH < 2	OK			
1236845007-B	HCL to pH < 2	OK			
1236845007-C	HCL to pH < 2	OK			
1236845007-D	HCL to pH < 2	OK			

Container Id

Preservative

Container
Condition

Container Id

Preservative

Container
Condition

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.

BU - The container was received with headspace greater than 6mm.

DM - The container was received damaged.

FR - The container was received frozen and not usable for Bacteria or BOD analyses.

IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.

NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.

PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

QN - Insufficient sample quantity provided.