

FIELD ACTIVITIES DAILY LOG

Date 9/13/23

Sheet 1 of 1

Project No. 110026

Project Name: Kasilof Riverview Lodge

Field Activity Subject: Quarterly Groundwater + Drinking H₂O Sampling

Calibration: 9/13/23 10:00 YSI 556 + Micro TPO

Description of daily activities and events: _____

10:00 - Load up gear; print logs; calibrate parameter meters. Gas truck

11:00 - Depart ANJC for site

14:09 - Arrive on-site; meet w/ property manager/owner.

14:15 - Begin well locales + collect DTW's

Well	DTW	Time	Date
MW1	22.07	14:37	9/13/23
MW2	28.33	14:55	
MW3	25.28	15:01	
MW4	7.14	15:07	
MW5	23.95	14:46	

15:10 - Set up to begin sampling. start @ MW-4

21:20 - MW1 through MW4 sampled - Meet manager - set up to collect drinking water samples

	Temp	Cond.	PH	ORP	Turb
110026 - DW1 - pretreat @ 21:40	17.06	479	6.44	9.8	1.29
110026 - DW2 - Post treat @ 21:59	21.22	564	6.69	6.8	0.89

22:15 - Load gear leave site

22:30 - Arrive @ hotel, demob End day.

9/14/23

11:00 - Arrive on-site; set up last well MW5, sample w/ dup

12:00 - Complete sampling. treat IDW

14:03 - IDW Treated, 4 drum soil land spread per Joe Browning direction. 3 drums cuttings remain on-site. (stW Boring 5) 2 drums rusted (old unknown source).

14:05 - leave site

stop for Gredech site visit.

18:50 - Anc office, de-mob gear, ice samples for next day shipping.

20:00 - End day.

Visitors on site: _____

Changes from plans/specifications are: _____

Weather conditions: _____

Important telephone call: _____

Personnel on site: _____

Signature: _____

Joe Sr.
 Cell
 -398-8123

 Home
 907-260-8000
 Joe Browning

visions: _____

Date: _____



LOW-FLOW WATER SAMPLING LOG

Shannon & Wilson, Inc.

Job No: 110026 Location: Kasilof River View / Jody Weather: 63° sunny
 Well No.: MW1
 Date: 9/13/23 Time Started: 20:00 Time Completed: 21:19
 Develop Date: — Develop End Time: — (24 hour break)

INITIAL GROUNDWATER LEVEL DATA

Time of Depth Measurement: 1437 Date of Depth Measurement: 9/13/23
 Measuring Point (MP): Top of PVC Casing / Top of Steel Protective Casing / Other: —
 Diameter of Casing: 2" Well Screen Interval: —
 Total Depth of Well Below MP: 34.37' Product Thickness, if noted: —
 Depth-to-Water (DTW) Below MP: 22.07
 Water Column in Well: 12.30 (Total Depth of Well Below MP - DTW Below MP)
 Gallons per foot: 0.16
 Gallons in Well: 1.97 (Water Column in Well x Gallons per foot)

PURGING DATA

Date Purged: 9/13/23 Time Started: 20:21 Time Completed: 21:08
 Three Well Volumes: 5.90 (Gallons in Well x 3)
 Gallons Purged: 1.6 Depth of Pump (generally 2 ft from bottom): 25.0'
 Max. Drawdown (generally 0.3 ft): 0.29 Pump Rate: 0.34/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>20:36</u>	<u>0.4</u>	<u>0.3</u>	<u>22.35</u>	<u>0.28</u>	<u>6.31</u>	<u>737</u>	↓	<u>6.59</u>	<u>-64.3</u>	<u>20.84</u>
<u>20:41</u>	<u>0.0</u>	<u>0.3</u>	<u>22.35</u>	<u>0.28</u>	<u>6.44</u>	<u>735</u>	↓	<u>6.58</u>	<u>-65.8</u>	<u>9.61</u>
<u>20:46</u>	<u>1.2</u>	<u>0.3</u>	<u>22.35</u>	<u>0.28</u>	<u>6.45</u>	<u>735</u>	↓	<u>6.58</u>	<u>-66.5</u>	<u>6.25</u>
<u>20:49</u>	<u>1.4</u>	<u>0.3</u>	<u>22.35</u>	<u>0.28</u>	<u>6.45</u>	<u>737</u>	↓	<u>6.57</u>	<u>-67.5</u>	<u>6.29</u>
<u>20:52</u>	<u>1.6</u>	<u>0.3</u>	<u>22.36</u>	<u>0.29</u>	<u>6.45</u>	<u>736</u>	↓	<u>6.58</u>	<u>-66.8</u>	<u>5.41</u>

SAMPLING DATA

Odor: Organic/Sulfur Color: Clear
 Sample Designation: 110026-MW1 Time / Date: 20:53 9/13/23
 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 YSF 556 + Micro TAW
 Calibration Info (Time, Ranges, etc) 10:00 9/13/23

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: 11026 - Location: Kasilof River near lodge Weather: 52° overcast
 Well No.: MW2
 Date: 9/13/23 Time Started: 1744 Time Completed: 18:33
 Develop Date: - Develop End Time: - (24 hour break)

INITIAL GROUNDWATER LEVEL DATA

Time of Depth Measurement: 1455 Date of Depth Measurement: 9/13/23
 Measuring Point (MP): Top of PVC Casing / Top of Steel Protective Casing / Other:
 Diameter of Casing: 2" Well Screen Interval: -
 Total Depth of Well Below MP: 35.12 Product Thickness, if noted: -
 Depth-to-Water (DTW) Below MP: 28.33
 Water Column in Well: 6.79 (Total Depth of Well Below MP - DTW Below MP)
 Gallons per foot: 0.16
 Gallons in Well: 1.09 (Water Column in Well x Gallons per foot)

PURGING DATA

Date Purged: 9/13/23 Time Started: 17:57 Time Completed: 18:27
 Three Well Volumes: 3.26 (Gallons in Well x 3)
 Gallons Purged: 1.5 Depth of Pump (generally 2 ft from bottom): ~30.0'
 Max. Drawdown (generally 0.3 ft): 0.22 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)
18:02	0.4	0.3	28.53	0.20	6.57	734		6.35	68.3	9.37
18:07	0.8	0.3	28.54	0.21	6.56	733		6.32	69.6	8.80
18:10	1.0	0.3	28.55	0.22	6.54	735		6.31	69.8	5.73
18:13	1.2	0.3	28.55	0.22	6.53	736		6.31	69.6	6.67
18:16	1.5	0.3	28.55	0.22	6.50	737		6.31	69.9	7.35

SAMPLING DATA

Odor: Organic Color: Clear
 Sample Designation: 11026-MW2 Time / Date: 18:17 9/13/23
 QC Sample Designation: - Time / Date: -
 QA Sample Designation: - Time / Date: -

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

Calibration Info (Time, Ranges, etc) 10:00 9/13/23

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 Riverview Lodge Weather: 50° overcast
 Well No.: MW3
 Date: 9/13/23 Time Started: 16:35 Time Completed: 17:43
 Develop Date: — Develop End Time: — (24 hour break)

INITIAL GROUNDWATER LEVEL DATA

Time of Depth Measurement: 15:01 Date of Depth Measurement: 9/13/23
 Measuring Point (MP): Top of PVC Casing / Top of Steel Protective Casing / Other: —
 Diameter of Casing: 2" Well Screen Interval: —
 Total Depth of Well Below MP: 32.69 Product Thickness, if noted: —
 Depth-to-Water (DTW) Below MP: 25.28
 Water Column in Well: 7.41 (Total Depth of Well Below MP - DTW Below MP)
 Gallons per foot: 0.16
 Gallons in Well: 1.19 (Water Column in Well x Gallons per foot)

PURGING DATA

Date Purged: 9/13/23 Time Started: 16:56 Time Completed: 17:33
 Three Well Volumes: 3.56 (Gallons in Well x 3)
 Gallons Purged: 1.3 Depth of Pump (generally 2 ft from bottom): ~27.0'
 Max. Drawdown (generally 0.3 ft): 0.25 Pump Rate: 0.2 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>17:01</u>	<u>0.3</u>	<u>0.2</u>	<u>25.53</u>	<u>0.25</u>	<u>6.43</u>	<u>309</u>	↓	<u>6.24</u>	<u>67.5</u>	<u>6.92</u>
<u>17:06</u>	<u>0.6</u>	<u>0.2</u>	<u>25.53</u>	<u>0.25</u>	<u>6.77</u>	<u>308</u>		<u>6.18</u>	<u>68.6</u>	<u>4.31</u>
<u>17:11</u>	<u>0.9</u>	<u>0.2</u>	<u>25.53</u>	<u>0.25</u>	<u>6.86</u>	<u>307</u>		<u>6.17</u>	<u>68.3</u>	<u>4.00</u>
<u>17:14</u>	<u>1.1</u>	<u>0.2</u>	<u>25.53</u>	<u>0.25</u>	<u>6.92</u>	<u>304</u>		<u>6.16</u>	<u>68.0</u>	<u>4.29</u>
<u>17:17</u>	<u>1.3</u>	<u>0.2</u>	<u>25.53</u>	<u>0.25</u>	<u>6.96</u>	<u>301</u>		<u>6.16</u>	<u>67.9</u>	<u>3.89</u>

SAMPLING DATA

Odor: None Color: Clear
 Sample Designation: 110026-MW3 Time / Date: 17:18 9/13/23
 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 YST 556 + Micro TRW
 Calibration Info (Time, Ranges, etc) 10:00 9/13/23

Remarks: —

Sampling Personnel: ST

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 View Lodge Weather: 52° partly cloudy
 Well No.: MW4
 Date: 9/13/23 Time Started: 15:10 Time Completed: 16:30
 Develop Date: - Develop End Time: - (24 hour break)

INITIAL GROUNDWATER LEVEL DATA

Time of Depth Measurement: 15:07 Date of Depth Measurement: 9/13/23
 Measuring Point (MP): Top of PVC Casing / Top of Steel Protective Casing / Other:
 Diameter of Casing: 2" Well Screen Interval: -
 Total Depth of Well Below MP: 17.76 Product Thickness, if noted: -
 Depth-to-Water (DTW) Below MP: 7.14
 Water Column in Well: 10.62 (Total Depth of Well Below MP - DTW Below MP)
 Gallons per foot: 0.16
 Gallons in Well: 1.70 (Water Column in Well x Gallons per foot)

PURGING DATA

Date Purged: 9/13/23 Time Started: 1532 Time Completed: 16:20
 Three Well Volumes: 5.10 (Gallons in Well x 3)
 Gallons Purged: 0.6 Depth of Pump (generally 2 ft from bottom): ~9.5'
 Max. Drawdown (generally 0.3 ft): 0.41 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>15:37</u>	<u>0.2</u>	<u>0.1</u>	<u>7.54</u>	<u>0.4</u>	<u>11.73</u>	<u>514</u>	↓	<u>6.52</u>	<u>-14.3</u>	<u>7.50</u>
<u>15:42</u>	<u>0.3</u>	<u>0.1</u>	<u>7.54</u>	<u>0.4</u>	<u>11.66</u>	<u>517</u>		<u>6.51</u>	<u>-16.0</u>	<u>6.30</u>
<u>15:45</u>	<u>0.4</u>	<u>0.1</u>	<u>7.55</u>	<u>0.41</u>	<u>11.59</u>	<u>519</u>		<u>6.51</u>	<u>-17.1</u>	<u>8.75</u>
<u>15:48</u>	<u>0.5</u>	<u>0.1</u>	<u>7.55</u>	<u>0.41</u>	<u>11.55</u>	<u>522</u>		<u>6.51</u>	<u>-18.5</u>	<u>8.08</u>
<u>15:51</u>	<u>0.6</u>	<u>0.1</u>	<u>7.55</u>	<u>0.41</u>	<u>11.57</u>	<u>520</u>		<u>6.51</u>	<u>-18.8</u>	

SAMPLING DATA

Odor: Organic Color: Clear
 Sample Designation: 110026-MW4 Time / Date: 15:52 9/13/23
 QC Sample Designation: / Time / Date: /
 QA Sample Designation: / Time / Date: /

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

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

Calibration Info (Time, Ranges, etc) 10:00 9/13/23

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 Riverview Lodge Weather: 48° rain
 Well No.: MW5
 Date: 9/14/23 Time Started: 11:00 Time Completed: 1300
 Develop Date: — Develop End Time: — (24 hour break)

INITIAL GROUNDWATER LEVEL DATA

Time of Depth Measurement: 14:46 Date of Depth Measurement: 9/13/23
 Measuring Point (MP): Top of PVC Casing / Top of Steel Protective Casing / Other: —
 Diameter of Casing: 2" Well Screen Interval: —
 Total Depth of Well Below MP: 32.08 Product Thickness, if noted: —
 Depth-to-Water (DTW) Below MP: 23.95
 Water Column in Well: 8.13 (Total Depth of Well Below MP - DTW Below MP)
 Gallons per foot: 0.16
 Gallons in Well: 130 (Water Column in Well x Gallons per foot)

PURGING DATA

Date Purged: 9/14/23 Time Started: 11:56 Time Completed: 12:45
 Three Well Volumes: 3.90 (Gallons in Well x 3)
 Gallons Purged: 2.9 Depth of Pump (generally 2 ft from bottom): ~26.0'
 Max. Drawdown (generally 0.3 ft): 0.03 Pump Rate: 0.4 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)
12:01	0.5	0.4	23.99	0.04	7.23	754	↓	6.62	-4.6	76.31
12:06	1.0	0.4	24.01	0.06	7.12	748	↓	6.60	-10.3	57.38
12:11	1.5	0.4	24.01	0.06	7.13	749	↓	6.71	-11.5	35.87
12:16	2.0	0.4	24.02	0.07	7.09	751	↓	6.73	-26.1	16.26
12:21	2.5	0.4	24.03	0.08	6.95	752	↓	6.77	-29.8	9.23
12:24	2.7	0.4	24.03	0.08	6.98	750	↓	6.77	-30.0	6.49
12:27	2.9	0.4	24.03	0.08	7.00	751	↓	6.77	-30.2	9.71

SAMPLING DATA

Odor: Organic Color: Tan tint
 Sample Designation: 110026-MW5 Time / Date: 12:30 9/14/23
 QC Sample Designation: 110026-MW5 Time / Date: 13:00 9/14/23
 QA Sample Designation: — Time / Date: —

Evacuation Method: Submersible Pump / Other: Double Whisk

Sampling Method: Submersible Pump / Other: Double Whisk

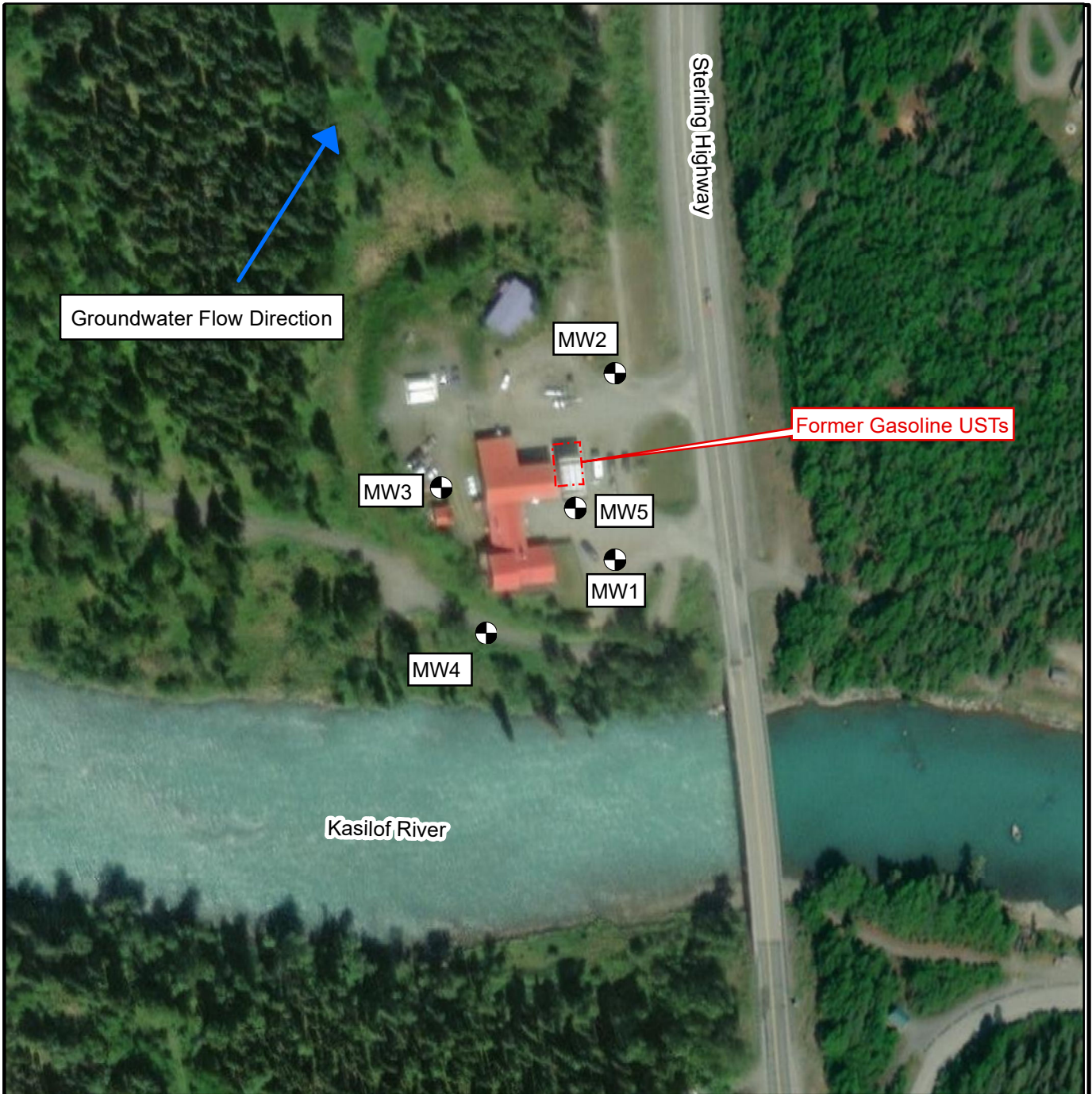
Water Quality Instruments Used/Manufacturer/Model Number YSI 556 + Micro TPW

Calibration Info (Time, Ranges, etc) 9:00 9/14/23

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



Groundwater Flow Direction

Sterling Highway

MW2

Former Gasoline USTs

MW3

MW5

MW1

MW4

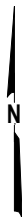
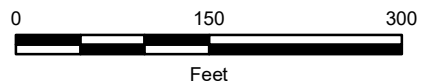
Kasilof River

Legend



Approximate location of Monitoring Well MW1.

Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



57440 Sterling Highway
Kasilof, Alaska

SITE PLAN

July 2023

110026-002

SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

FIG. 2



Laboratory Report of Analysis

To: Shannon & Wilson, Inc.
5430 Fairbanks Street, Suite 3
Anchorage, AK 99518
(907)433-3223

Report Number: **1235062**

Client Project: **110026;Kasilof Riverview Lodge**

Dear Dan McMahon,

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: **1235062**
Project Name/Site: **110026;Kasilof Riverview Lodge**
Project Contact: **Dan McMahon**

Refer to sample receipt form for information on sample condition.

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

Print Date: 09/28/2023 3:42:41PM

Report of Manual Integrations

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analytical Batch</u>	<u>Analyte</u>	<u>Reason</u>
8270D SIM LV (PAH)				
1235062002	110026-MW2	XMS13903	2-Methylnaphthalene	BLC
1235062006	110026-MW15	XMS13903	2-Methylnaphthalene	SP
SW8260D				
1235062001	110026-MW1	VMS22799	Chloromethane	SP
1235062006	110026-MW15	VMS22799	Chloromethane	SP

Manual Integration Reason Code Descriptions

Code	Description
O	Original Chromatogram
M	Modified Chromatogram
SS	Skimmed surrogate
BLG	Closed baseline gap
RP	Reassign peak name
PIR	Pattern integration required
IT	Included tail
SP	Split peak
RSP	Removed split peak
FPS	Forced peak start/stop
BLC	Baseline correction
PNF	Peak not found by software

All DRO/RRO analysis are integrated per SOP.

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-MW1	1235062001	09/13/2023	09/15/2023	Water (Surface, Eff., Ground)
110026-MW2	1235062002	09/13/2023	09/15/2023	Water (Surface, Eff., Ground)
110026-MW3	1235062003	09/13/2023	09/15/2023	Water (Surface, Eff., Ground)
110026-MW4	1235062004	09/13/2023	09/15/2023	Water (Surface, Eff., Ground)
110026-MW5	1235062005	09/14/2023	09/15/2023	Water (Surface, Eff., Ground)
110026-MW15	1235062006	09/14/2023	09/15/2023	Water (Surface, Eff., Ground)
110026-DW1	1235062007	09/13/2023	09/15/2023	Water (Surface, Eff., Ground)
110026-DW2	1235062008	09/13/2023	09/15/2023	Water (Surface, Eff., Ground)
110026-WTB	1235062009	09/13/2023	09/15/2023	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: 09/28/2023 3:42:46PM

Detectable Results Summary

Client Sample ID: **110026-MW1**

Lab Sample ID: 1235062001

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
1-Methylnaphthalene	0.0244J	ug/L
2-Methylnaphthalene	0.0220J	ug/L
Naphthalene	0.0419J	ug/L

Semivolatile Organic Fuels

Volatile GC/MS

Diesel Range Organics	0.413J	mg/L
1,2-Dichloroethane	0.230J	ug/L
Benzene	1.70	ug/L
Chloromethane	0.310J	ug/L

Client Sample ID: **110026-MW2**

Lab Sample ID: 1235062002

Polynuclear Aromatics GC/MS

Semivolatile Organic Fuels

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
2-Methylnaphthalene	0.0198J	ug/L
Diesel Range Organics	0.318J	mg/L

Client Sample ID: **110026-MW3**

Lab Sample ID: 1235062003

Polynuclear Aromatics GC/MS

Semivolatile Organic Fuels

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
2-Methylnaphthalene	0.0176J	ug/L
Phenanthrene	0.0374J	ug/L
Diesel Range Organics	0.213J	mg/L

Client Sample ID: **110026-MW4**

Lab Sample ID: 1235062004

Polynuclear Aromatics GC/MS

Semivolatile Organic Fuels

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
1-Methylnaphthalene	0.0188J	ug/L
2-Methylnaphthalene	0.0356J	ug/L
Phenanthrene	0.0485J	ug/L
Diesel Range Organics	0.234J	mg/L

Client Sample ID: **110026-MW5**

Lab Sample ID: 1235062005

Polynuclear Aromatics GC/MS

Semivolatile Organic Fuels

Volatile Fuels

Volatile GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
2-Methylnaphthalene	0.0196J	ug/L
Diesel Range Organics	0.315J	mg/L
Gasoline Range Organics	0.171	mg/L
1,2,4-Trimethylbenzene	0.720J	ug/L
1,2-Dichloroethane	0.540	ug/L
1,3,5-Trimethylbenzene	3.72	ug/L
4-Isopropyltoluene	0.370J	ug/L
Benzene	46.1	ug/L
Chloromethane	0.610J	ug/L
Ethylbenzene	6.28	ug/L
Isopropylbenzene (Cumene)	3.19	ug/L
n-Propylbenzene	3.71	ug/L
P & M -Xylene	2.17	ug/L
sec-Butylbenzene	0.480J	ug/L
Xylenes (total)	2.17J	ug/L

Print Date: 09/28/2023 3:42:48PM

Detectable Results Summary

Client Sample ID: **110026-MW15**

Lab Sample ID: 1235062006

Polynuclear Aromatics GC/MS

Semivolatile Organic Fuels

Volatile Fuels

Volatile GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
2-Methylnaphthalene	0.0175J	ug/L
Diesel Range Organics	0.295J	mg/L
Gasoline Range Organics	0.198	mg/L
1,2,4-Trimethylbenzene	0.690J	ug/L
1,2-Dichloroethane	0.530	ug/L
1,3,5-Trimethylbenzene	3.65	ug/L
4-Isopropyltoluene	0.390J	ug/L
Benzene	44.0	ug/L
Chloromethane	0.420J	ug/L
Ethylbenzene	5.79	ug/L
Isopropylbenzene (Cumene)	3.02	ug/L
n-Propylbenzene	3.62	ug/L
P & M -Xylene	2.06	ug/L
sec-Butylbenzene	0.460J	ug/L
Xylenes (total)	2.06J	ug/L

Client Sample ID: **110026-WTB**

Lab Sample ID: 1235062009

Volatile GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Carbon tetrachloride	0.330J	ug/L



Results of 110026-MW1

Client Sample ID: **110026-MW1**
 Client Project ID: **110026;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062001
 Lab Project ID: 1235062

Collection Date: 09/13/23 20:53
 Received Date: 09/15/23 12:38
 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	0.0244	J	0.0556	0.0167	0.0278	ug/L	1		09/19/23 05:22
2-Methylnaphthalene	0.0220	J	0.0556	0.0167	0.0278	ug/L	1		09/19/23 05:22
Acenaphthene	0.0278	U	0.0556	0.0167	0.0278	ug/L	1		09/19/23 05:22
Acenaphthylene	0.0278	U	0.0556	0.0167	0.0278	ug/L	1		09/19/23 05:22
Anthracene	0.0278	U	0.0556	0.0167	0.0278	ug/L	1		09/19/23 05:22
Benzo(a)Anthracene	0.0278	U	0.0556	0.0167	0.0278	ug/L	1		09/19/23 05:22
Benzo[a]pyrene	0.0111	U	0.0222	0.00689	0.0111	ug/L	1		09/19/23 05:22
Benzo[b]Fluoranthene	0.0278	U	0.0556	0.0167	0.0278	ug/L	1		09/19/23 05:22
Benzo[g,h,i]perylene	0.0278	U	0.0556	0.0167	0.0278	ug/L	1		09/19/23 05:22
Benzo[k]fluoranthene	0.0278	U	0.0556	0.0167	0.0278	ug/L	1		09/19/23 05:22
Chrysene	0.0278	U	0.0556	0.0167	0.0278	ug/L	1		09/19/23 05:22
Dibenzo[a,h]anthracene	0.0111	U	0.0222	0.00689	0.0111	ug/L	1		09/19/23 05:22
Fluoranthene	0.0278	U	0.0556	0.0167	0.0278	ug/L	1		09/19/23 05:22
Fluorene	0.0278	U	0.0556	0.0167	0.0278	ug/L	1		09/19/23 05:22
Indeno[1,2,3-c,d] pyrene	0.0278	U	0.0556	0.0167	0.0278	ug/L	1		09/19/23 05:22
Naphthalene	0.0419	J	0.111	0.0344	0.0555	ug/L	1		09/19/23 05:22
Phenanthrene	0.0555	U	0.111	0.0344	0.0555	ug/L	1		09/19/23 05:22
Pyrene	0.0278	U	0.0556	0.0167	0.0278	ug/L	1		09/19/23 05:22

Surrogates

2-Methylnaphthalene-d10 (surr)	79.7		38-100			%	1		09/19/23 05:22
Fluoranthene-d10 (surr)	88.4		30-111			%	1		09/19/23 05:22

Batch Information

Analytical Batch: XMS13903
 Analytical Method: 8270D SIM LV (PAH)
 Analyst: HMW
 Analytical Date/Time: 09/19/23 05:22
 Container ID: 1235062001-I

Prep Batch: XXX48630
 Prep Method: SW3535A
 Prep Date/Time: 09/18/23 12:00
 Prep Initial Wt./Vol.: 225 mL
 Prep Extract Vol: 1 mL

Results of 110026-MW1

Client Sample ID: **110026-MW1**
 Client Project ID: **110026;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062001
 Lab Project ID: 1235062

Collection Date: 09/13/23 20:53
 Received Date: 09/15/23 12:38
 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	0.413	J	0.612	0.204	0.306	mg/L	1		09/24/23 10:20

Surrogates

5a Androstane (surr)	92.5		50-150			%	1		09/24/23 10:20
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Batch Information

Analytical Batch: XFC16681
 Analytical Method: AK102
 Analyst: NGG
 Analytical Date/Time: 09/24/23 10:20
 Container ID: 1235062001-G

Prep Batch: XXX48650
 Prep Method: SW3520C
 Prep Date/Time: 09/20/23 14:30
 Prep Initial Wt./Vol.: 245 mL
 Prep Extract Vol: 1 mL

Results of 110026-MW1

Client Sample ID: **110026-MW1**
 Client Project ID: **110026;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062001
 Lab Project ID: 1235062

Collection Date: 09/13/23 20:53
 Received Date: 09/15/23 12:38
 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		09/19/23 03:20

Surrogates

4-Bromofluorobenzene (surr)	73.6		50-150			%	1		09/19/23 03:20
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Batch Information

Analytical Batch: VFC16608
 Analytical Method: AK101
 Analyst: CWD
 Analytical Date/Time: 09/19/23 03:20
 Container ID: 1235062001-A

Prep Batch: VXX40442
 Prep Method: SW5030B
 Prep Date/Time: 09/18/23 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;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062001
 Lab Project ID: 1235062

Collection Date: 09/13/23 20:53
 Received Date: 09/15/23 12:38
 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		09/25/23 14:48
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 14:48
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		09/25/23 14:48
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 14:48
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		09/25/23 14:48
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
1,2-Dichloroethane	0.230	J	0.500	0.200	0.250	ug/L	1		09/25/23 14:48
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 14:48
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 14:48
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 14:48
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 14:48
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
4-Isopropyltoluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 14:48
Benzene	1.70		0.400	0.120	0.200	ug/L	1		09/25/23 14:48
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 14:48
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		09/25/23 14:48
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 14:48
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 14:48
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48

Print Date: 09/28/2023 3:42:49PM

J flagging is activated



Results of 110026-MW1

Client Sample ID: **110026-MW1**
 Client Project ID: **110026;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062001
 Lab Project ID: 1235062

Collection Date: 09/13/23 20:53
 Received Date: 09/15/23 12:38
 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		09/25/23 14:48
Chloromethane	0.310	J	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 14:48
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 14:48
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
Ethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 14:48
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 14:48
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 14:48
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
n-Propylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		09/25/23 14:48
sec-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 14:48
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 14:48
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 14:48
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		09/25/23 14:48
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		09/25/23 14:48

Surrogates

1,2-Dichloroethane-D4 (surr)	109		81-118			%	1		09/25/23 14:48
4-Bromofluorobenzene (surr)	103		85-114			%	1		09/25/23 14:48
Toluene-d8 (surr)	99.3		89-112			%	1		09/25/23 14:48

Results of 110026-MW1

Client Sample ID: **110026-MW1**
Client Project ID: **110026;Kasilof Riverview Lodge**
Lab Sample ID: 1235062001
Lab Project ID: 1235062

Collection Date: 09/13/23 20:53
Received Date: 09/15/23 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS22799
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 09/25/23 14:48
Container ID: 1235062001-D

Prep Batch: VXX40479
Prep Method: SW5030B
Prep Date/Time: 09/25/23 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;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062002
 Lab Project ID: 1235062

Collection Date: 09/13/23 18:17
 Received Date: 09/15/23 12:38
 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	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 05:39
2-Methylnaphthalene	0.0198	J	0.0500	0.0150	0.0250	ug/L	1		09/19/23 05:39
Acenaphthene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 05:39
Acenaphthylene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 05:39
Anthracene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 05:39
Benzo(a)Anthracene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 05:39
Benzo[a]pyrene	0.0100	U	0.0200	0.00620	0.0100	ug/L	1		09/19/23 05:39
Benzo[b]Fluoranthene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 05:39
Benzo[g,h,i]perylene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 05:39
Benzo[k]fluoranthene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 05:39
Chrysene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 05:39
Dibenzo[a,h]anthracene	0.0100	U	0.0200	0.00620	0.0100	ug/L	1		09/19/23 05:39
Fluoranthene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 05:39
Fluorene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 05:39
Indeno[1,2,3-c,d] pyrene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 05:39
Naphthalene	0.0500	U	0.100	0.0310	0.0500	ug/L	1		09/19/23 05:39
Phenanthrene	0.0500	U	0.100	0.0310	0.0500	ug/L	1		09/19/23 05:39
Pyrene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 05:39

Surrogates

2-Methylnaphthalene-d10 (surr)	75.8		38-100			%	1		09/19/23 05:39
Fluoranthene-d10 (surr)	85.8		30-111			%	1		09/19/23 05:39

Batch Information

Analytical Batch: XMS13903
 Analytical Method: 8270D SIM LV (PAH)
 Analyst: HMW
 Analytical Date/Time: 09/19/23 05:39
 Container ID: 1235062002-I

Prep Batch: XXX48630
 Prep Method: SW3535A
 Prep Date/Time: 09/18/23 12:00
 Prep Initial Wt./Vol.: 250 mL
 Prep Extract Vol: 1 mL

Results of 110026-MW2

Client Sample ID: **110026-MW2**
 Client Project ID: **110026;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062002
 Lab Project ID: 1235062

Collection Date: 09/13/23 18:17
 Received Date: 09/15/23 12:38
 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	0.318	J	0.577	0.192	0.288	mg/L	1		09/24/23 10:33
Surrogates									
5a Androstane (surr)	84.5		50-150			%	1		09/24/23 10:33

Batch Information

Analytical Batch: XFC16681
 Analytical Method: AK102
 Analyst: NGG
 Analytical Date/Time: 09/24/23 10:33
 Container ID: 1235062002-G

Prep Batch: XXX48650
 Prep Method: SW3520C
 Prep Date/Time: 09/20/23 14:30
 Prep Initial Wt./Vol.: 260 mL
 Prep Extract Vol: 1 mL

Results of 110026-MW2

Client Sample ID: **110026-MW2**
 Client Project ID: **110026;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062002
 Lab Project ID: 1235062

Collection Date: 09/13/23 18:17
 Received Date: 09/15/23 12:38
 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		09/19/23 03:38

Surrogates

4-Bromofluorobenzene (surr)	71.9		50-150			%	1		09/19/23 03:38
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Batch Information

Analytical Batch: VFC16608
 Analytical Method: AK101
 Analyst: CWD
 Analytical Date/Time: 09/19/23 03:38
 Container ID: 1235062002-A

Prep Batch: VXX40442
 Prep Method: SW5030B
 Prep Date/Time: 09/18/23 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;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062002
 Lab Project ID: 1235062

Collection Date: 09/13/23 18:17
 Received Date: 09/15/23 12:38
 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		09/25/23 15:04
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:04
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		09/25/23 15:04
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:04
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		09/25/23 15:04
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
1,2-Dichloroethane	0.250	U	0.500	0.200	0.250	ug/L	1		09/25/23 15:04
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:04
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:04
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:04
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:04
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
4-Isopropyltoluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:04
Benzene	0.200	U	0.400	0.120	0.200	ug/L	1		09/25/23 15:04
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:04
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		09/25/23 15:04
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:04
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:04
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04

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J flagging is activated



Results of 110026-MW2

Client Sample ID: **110026-MW2**
 Client Project ID: **110026;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062002
 Lab Project ID: 1235062

Collection Date: 09/13/23 18:17
 Received Date: 09/15/23 12:38
 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		09/25/23 15:04
Chloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:04
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:04
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
Ethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:04
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:04
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:04
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
n-Propylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		09/25/23 15:04
sec-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:04
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:04
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:04
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		09/25/23 15:04
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		09/25/23 15:04
Surrogates									
1,2-Dichloroethane-D4 (surr)	112		81-118			%	1		09/25/23 15:04
4-Bromofluorobenzene (surr)	104		85-114			%	1		09/25/23 15:04
Toluene-d8 (surr)	101		89-112			%	1		09/25/23 15:04

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J flagging is activated

Results of 110026-MW2

Client Sample ID: **110026-MW2**
Client Project ID: **110026;Kasilof Riverview Lodge**
Lab Sample ID: 1235062002
Lab Project ID: 1235062

Collection Date: 09/13/23 18:17
Received Date: 09/15/23 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS22799
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 09/25/23 15:04
Container ID: 1235062002-D

Prep Batch: VXX40479
Prep Method: SW5030B
Prep Date/Time: 09/25/23 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;Kasilof Riverview Lodge
Lab Sample ID: 1235062003
Lab Project ID: 1235062

Collection Date: 09/13/23 17:18
Received Date: 09/15/23 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Polynuclear Aromatics GC/MS

Table with 9 columns: Parameter, Result, Qual, LOQ/CL, DL, LOD, Units, DF, Allowable Limits, Date Analyzed. Lists various polynuclear aromatic hydrocarbons and their detection results.

Surrogates

Table with 2 rows showing surrogate results for 2-Methylnaphthalene-d10 and Fluoranthene-d10.

Batch Information

Analytical Batch: XMS13903
Analytical Method: 8270D SIM LV (PAH)
Analyst: HMW
Analytical Date/Time: 09/19/23 05:55
Container ID: 1235062003-I
Prep Batch: XXX48630
Prep Method: SW3535A
Prep Date/Time: 09/18/23 12:00
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Results of 110026-MW3

Client Sample ID: **110026-MW3**
 Client Project ID: **110026;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062003
 Lab Project ID: 1235062

Collection Date: 09/13/23 17:18
 Received Date: 09/15/23 12:38
 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	0.213	J	0.577	0.192	0.288	mg/L	1		09/24/23 11:10
Surrogates									
5a Androstane (surr)	89.2		50-150			%	1		09/24/23 11:10

Batch Information

Analytical Batch: XFC16681
 Analytical Method: AK102
 Analyst: NGG
 Analytical Date/Time: 09/24/23 11:10
 Container ID: 1235062003-G

Prep Batch: XXX48650
 Prep Method: SW3520C
 Prep Date/Time: 09/20/23 14:30
 Prep Initial Wt./Vol.: 260 mL
 Prep Extract Vol: 1 mL



Results of 110026-MW3

Client Sample ID: **110026-MW3**
Client Project ID: **110026;Kasilof Riverview Lodge**
Lab Sample ID: 1235062003
Lab Project ID: 1235062

Collection Date: 09/13/23 17:18
Received Date: 09/15/23 12:38
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		09/19/23 03:57
Surrogates									
4-Bromofluorobenzene (surr)	71.9		50-150			%	1		09/19/23 03:57

Batch Information

Analytical Batch: VFC16608
Analytical Method: AK101
Analyst: CWD
Analytical Date/Time: 09/19/23 03:57
Container ID: 1235062003-A

Prep Batch: VXX40442
Prep Method: SW5030B
Prep Date/Time: 09/18/23 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;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062003
 Lab Project ID: 1235062

Collection Date: 09/13/23 17:18
 Received Date: 09/15/23 12:38
 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		09/25/23 15:19
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:19
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		09/25/23 15:19
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:19
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		09/25/23 15:19
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
1,2-Dichloroethane	0.250	U	0.500	0.200	0.250	ug/L	1		09/25/23 15:19
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:19
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:19
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:19
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:19
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
4-Isopropyltoluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:19
Benzene	0.200	U	0.400	0.120	0.200	ug/L	1		09/25/23 15:19
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:19
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		09/25/23 15:19
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:19
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:19
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19

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J flagging is activated



Results of 110026-MW3

Client Sample ID: **110026-MW3**
 Client Project ID: **110026;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062003
 Lab Project ID: 1235062

Collection Date: 09/13/23 17:18
 Received Date: 09/15/23 12:38
 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		09/25/23 15:19
Chloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:19
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:19
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
Ethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:19
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:19
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:19
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
n-Propylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		09/25/23 15:19
sec-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:19
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:19
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:19
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		09/25/23 15:19
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		09/25/23 15:19

Surrogates

1,2-Dichloroethane-D4 (surr)	111		81-118			%	1		09/25/23 15:19
4-Bromofluorobenzene (surr)	104		85-114			%	1		09/25/23 15:19
Toluene-d8 (surr)	99		89-112			%	1		09/25/23 15:19

Results of 110026-MW3

Client Sample ID: **110026-MW3**
Client Project ID: **110026;Kasilof Riverview Lodge**
Lab Sample ID: 1235062003
Lab Project ID: 1235062

Collection Date: 09/13/23 17:18
Received Date: 09/15/23 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS22799
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 09/25/23 15:19
Container ID: 1235062003-D

Prep Batch: VXX40479
Prep Method: SW5030B
Prep Date/Time: 09/25/23 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;Kasilof Riverview Lodge**
Lab Sample ID: 1235062004
Lab Project ID: 1235062

Collection Date: 09/13/23 15:52
Received Date: 09/15/23 12:38
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	0.0188	J	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:11
2-Methylnaphthalene	0.0356	J	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:11
Acenaphthene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:11
Acenaphthylene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:11
Anthracene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:11
Benzo(a)Anthracene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:11
Benzo[a]pyrene	0.0102	U	0.0204	0.00633	0.0102	ug/L	1		09/19/23 06:11
Benzo[b]Fluoranthene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:11
Benzo[g,h,i]perylene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:11
Benzo[k]fluoranthene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:11
Chrysene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:11
Dibenzo[a,h]anthracene	0.0102	U	0.0204	0.00633	0.0102	ug/L	1		09/19/23 06:11
Fluoranthene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:11
Fluorene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:11
Indeno[1,2,3-c,d] pyrene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:11
Naphthalene	0.0510	U	0.102	0.0316	0.0510	ug/L	1		09/19/23 06:11
Phenanthrene	0.0485	J	0.102	0.0316	0.0510	ug/L	1		09/19/23 06:11
Pyrene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:11

Surrogates

2-Methylnaphthalene-d10 (surr)	82.1		38-100			%	1		09/19/23 06:11
Fluoranthene-d10 (surr)	91.4		30-111			%	1		09/19/23 06:11

Batch Information

Analytical Batch: XMS13903
Analytical Method: 8270D SIM LV (PAH)
Analyst: HMW
Analytical Date/Time: 09/19/23 06:11
Container ID: 1235062004-I

Prep Batch: XXX48630
Prep Method: SW3535A
Prep Date/Time: 09/18/23 12:00
Prep Initial Wt./Vol.: 245 mL
Prep Extract Vol: 1 mL



Results of 110026-MW4

Client Sample ID: **110026-MW4**
Client Project ID: **110026;Kasilof Riverview Lodge**
Lab Sample ID: 1235062004
Lab Project ID: 1235062

Collection Date: 09/13/23 15:52
Received Date: 09/15/23 12:38
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	0.234	J	0.600	0.200	0.300	mg/L	1		09/24/23 11:23
Surrogates									
5a Androstane (surr)	94.8		50-150			%	1		09/24/23 11:23

Batch Information

Analytical Batch: XFC16681
Analytical Method: AK102
Analyst: NGG
Analytical Date/Time: 09/24/23 11:23
Container ID: 1235062004-G

Prep Batch: XXX48650
Prep Method: SW3520C
Prep Date/Time: 09/20/23 14:30
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL



Results of 110026-MW4

Client Sample ID: **110026-MW4**
 Client Project ID: **110026;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062004
 Lab Project ID: 1235062

Collection Date: 09/13/23 15:52
 Received Date: 09/15/23 12:38
 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		09/19/23 04:15

Surrogates

4-Bromofluorobenzene (surr)	71.9		50-150			%	1		09/19/23 04:15
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Batch Information

Analytical Batch: VFC16608
 Analytical Method: AK101
 Analyst: CWD
 Analytical Date/Time: 09/19/23 04:15
 Container ID: 1235062004-A

Prep Batch: VXX40442
 Prep Method: SW5030B
 Prep Date/Time: 09/18/23 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;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062004
 Lab Project ID: 1235062

Collection Date: 09/13/23 15:52
 Received Date: 09/15/23 12:38
 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		09/25/23 15:34
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:34
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		09/25/23 15:34
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:34
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		09/25/23 15:34
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
1,2-Dichloroethane	0.250	U	0.500	0.200	0.250	ug/L	1		09/25/23 15:34
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:34
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:34
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:34
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:34
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
4-Isopropyltoluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:34
Benzene	0.200	U	0.400	0.120	0.200	ug/L	1		09/25/23 15:34
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:34
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		09/25/23 15:34
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:34
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:34
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34

Print Date: 09/28/2023 3:42:49PM

J flagging is activated



Results of 110026-MW4

Client Sample ID: **110026-MW4**
 Client Project ID: **110026;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062004
 Lab Project ID: 1235062

Collection Date: 09/13/23 15:52
 Received Date: 09/15/23 12:38
 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		09/25/23 15:34
Chloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:34
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:34
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
Ethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:34
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:34
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:34
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
n-Propylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		09/25/23 15:34
sec-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:34
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:34
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:34
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		09/25/23 15:34
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		09/25/23 15:34
Surrogates									
1,2-Dichloroethane-D4 (surr)	112		81-118			%	1		09/25/23 15:34
4-Bromofluorobenzene (surr)	102		85-114			%	1		09/25/23 15:34
Toluene-d8 (surr)	98.5		89-112			%	1		09/25/23 15:34

Results of 110026-MW4

Client Sample ID: **110026-MW4**
Client Project ID: **110026;Kasilof Riverview Lodge**
Lab Sample ID: 1235062004
Lab Project ID: 1235062

Collection Date: 09/13/23 15:52
Received Date: 09/15/23 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS22799
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 09/25/23 15:34
Container ID: 1235062004-D

Prep Batch: VXX40479
Prep Method: SW5030B
Prep Date/Time: 09/25/23 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;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062005
 Lab Project ID: 1235062

Collection Date: 09/14/23 12:30
 Received Date: 09/15/23 12:38
 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	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 06:27
2-Methylnaphthalene	0.0196	J	0.0500	0.0150	0.0250	ug/L	1		09/19/23 06:27
Acenaphthene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 06:27
Acenaphthylene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 06:27
Anthracene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 06:27
Benzo(a)Anthracene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 06:27
Benzo[a]pyrene	0.0100	U	0.0200	0.00620	0.0100	ug/L	1		09/19/23 06:27
Benzo[b]Fluoranthene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 06:27
Benzo[g,h,i]perylene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 06:27
Benzo[k]fluoranthene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 06:27
Chrysene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 06:27
Dibenzo[a,h]anthracene	0.0100	U	0.0200	0.00620	0.0100	ug/L	1		09/19/23 06:27
Fluoranthene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 06:27
Fluorene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 06:27
Indeno[1,2,3-c,d] pyrene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 06:27
Naphthalene	0.0500	U	0.100	0.0310	0.0500	ug/L	1		09/19/23 06:27
Phenanthrene	0.0500	U	0.100	0.0310	0.0500	ug/L	1		09/19/23 06:27
Pyrene	0.0250	U	0.0500	0.0150	0.0250	ug/L	1		09/19/23 06:27

Surrogates

2-Methylnaphthalene-d10 (surr)	71.5		38-100			%	1		09/19/23 06:27
Fluoranthene-d10 (surr)	77.8		30-111			%	1		09/19/23 06:27

Batch Information

Analytical Batch: XMS13903
 Analytical Method: 8270D SIM LV (PAH)
 Analyst: HMW
 Analytical Date/Time: 09/19/23 06:27
 Container ID: 1235062005-I

Prep Batch: XXX48630
 Prep Method: SW3535A
 Prep Date/Time: 09/18/23 12:00
 Prep Initial Wt./Vol.: 250 mL
 Prep Extract Vol: 1 mL

Results of 110026-MW5

Client Sample ID: **110026-MW5**
 Client Project ID: **110026;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062005
 Lab Project ID: 1235062

Collection Date: 09/14/23 12:30
 Received Date: 09/15/23 12:38
 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	0.315	J	0.566	0.189	0.283	mg/L	1		09/24/23 11:35

Surrogates

5a Androstane (surr)	91.3		50-150			%	1		09/24/23 11:35
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Batch Information

Analytical Batch: XFC16681
 Analytical Method: AK102
 Analyst: NGG
 Analytical Date/Time: 09/24/23 11:35
 Container ID: 1235062005-G

Prep Batch: XXX48650
 Prep Method: SW3520C
 Prep Date/Time: 09/20/23 14:30
 Prep Initial Wt./Vol.: 265 mL
 Prep Extract Vol: 1 mL



Results of 110026-MW5

Client Sample ID: **110026-MW5**
Client Project ID: **110026;Kasilof Riverview Lodge**
Lab Sample ID: 1235062005
Lab Project ID: 1235062

Collection Date: 09/14/23 12:30
Received Date: 09/15/23 12:38
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	0.171		0.100	0.0450	0.0500	mg/L	1		09/19/23 05:11
Surrogates									
4-Bromofluorobenzene (surr)	86.3		50-150			%	1		09/19/23 05:11

Batch Information

Analytical Batch: VFC16608
Analytical Method: AK101
Analyst: CWD
Analytical Date/Time: 09/19/23 05:11
Container ID: 1235062005-A

Prep Batch: VXX40442
Prep Method: SW5030B
Prep Date/Time: 09/18/23 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;Kasilof Riverview Lodge
Lab Sample ID: 1235062005
Lab Project ID: 1235062

Collection Date: 09/14/23 12:30
Received Date: 09/15/23 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Table with 9 columns: Parameter, Result, Qual, LOQ/CL, DL, LOD, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 09/28/2023 3:42:49PM

J flagging is activated



Results of 110026-MW5

Client Sample ID: **110026-MW5**
 Client Project ID: **110026;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062005
 Lab Project ID: 1235062

Collection Date: 09/14/23 12:30
 Received Date: 09/15/23 12:38
 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		09/25/23 15:49
Chloromethane	0.610	J	1.00	0.310	0.500	ug/L	1		09/25/23 15:49
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:49
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:49
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:49
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:49
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:49
Ethylbenzene	6.28		1.00	0.310	0.500	ug/L	1		09/25/23 15:49
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:49
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:49
Isopropylbenzene (Cumene)	3.19		1.00	0.310	0.500	ug/L	1		09/25/23 15:49
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:49
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:49
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:49
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:49
n-Propylbenzene	3.71		1.00	0.310	0.500	ug/L	1		09/25/23 15:49
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:49
P & M -Xylene	2.17		2.00	0.620	1.00	ug/L	1		09/25/23 15:49
sec-Butylbenzene	0.480	J	1.00	0.310	0.500	ug/L	1		09/25/23 15:49
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:49
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:49
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:49
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:49
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:49
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:49
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 15:49
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 15:49
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 15:49
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		09/25/23 15:49
Xylenes (total)	2.17	J	3.00	1.00	1.50	ug/L	1		09/25/23 15:49

Surrogates

1,2-Dichloroethane-D4 (surr)	108		81-118			%	1		09/25/23 15:49
4-Bromofluorobenzene (surr)	102		85-114			%	1		09/25/23 15:49
Toluene-d8 (surr)	98.6		89-112			%	1		09/25/23 15:49

Results of 110026-MW5

Client Sample ID: **110026-MW5**
Client Project ID: **110026;Kasilof Riverview Lodge**
Lab Sample ID: 1235062005
Lab Project ID: 1235062

Collection Date: 09/14/23 12:30
Received Date: 09/15/23 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS22799
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 09/25/23 15:49
Container ID: 1235062005-D

Prep Batch: VXX40479
Prep Method: SW5030B
Prep Date/Time: 09/25/23 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;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062006
 Lab Project ID: 1235062

Collection Date: 09/14/23 13:00
 Received Date: 09/15/23 12:38
 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	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:43
2-Methylnaphthalene	0.0175	J	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:43
Acenaphthene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:43
Acenaphthylene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:43
Anthracene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:43
Benzo(a)Anthracene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:43
Benzo[a]pyrene	0.0102	U	0.0204	0.00633	0.0102	ug/L	1		09/19/23 06:43
Benzo[b]Fluoranthene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:43
Benzo[g,h,i]perylene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:43
Benzo[k]fluoranthene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:43
Chrysene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:43
Dibenzo[a,h]anthracene	0.0102	U	0.0204	0.00633	0.0102	ug/L	1		09/19/23 06:43
Fluoranthene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:43
Fluorene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:43
Indeno[1,2,3-c,d] pyrene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:43
Naphthalene	0.0510	U	0.102	0.0316	0.0510	ug/L	1		09/19/23 06:43
Phenanthrene	0.0510	U	0.102	0.0316	0.0510	ug/L	1		09/19/23 06:43
Pyrene	0.0255	U	0.0510	0.0153	0.0255	ug/L	1		09/19/23 06:43

Surrogates

2-Methylnaphthalene-d10 (surr)	76.7		38-100			%	1		09/19/23 06:43
Fluoranthene-d10 (surr)	91.4		30-111			%	1		09/19/23 06:43

Batch Information

Analytical Batch: XMS13903
 Analytical Method: 8270D SIM LV (PAH)
 Analyst: HMW
 Analytical Date/Time: 09/19/23 06:43
 Container ID: 1235062006-I

Prep Batch: XXX48630
 Prep Method: SW3535A
 Prep Date/Time: 09/18/23 12:00
 Prep Initial Wt./Vol.: 245 mL
 Prep Extract Vol: 1 mL



Results of 110026-MW15

Client Sample ID: **110026-MW15**
Client Project ID: **110026;Kasilof Riverview Lodge**
Lab Sample ID: 1235062006
Lab Project ID: 1235062

Collection Date: 09/14/23 13:00
Received Date: 09/15/23 12:38
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	0.295	J	0.566	0.189	0.283	mg/L	1		09/24/23 11:48
Surrogates									
5a Androstane (surr)	82.9		50-150			%	1		09/24/23 11:48

Batch Information

Analytical Batch: XFC16681
Analytical Method: AK102
Analyst: NGG
Analytical Date/Time: 09/24/23 11:48
Container ID: 1235062006-G

Prep Batch: XXX48650
Prep Method: SW3520C
Prep Date/Time: 09/20/23 14:30
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL



Results of 110026-MW15

Client Sample ID: **110026-MW15**
 Client Project ID: **110026;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062006
 Lab Project ID: 1235062

Collection Date: 09/14/23 13:00
 Received Date: 09/15/23 12:38
 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	0.198		0.100	0.0450	0.0500	mg/L	1		09/21/23 11:50
Surrogates									
4-Bromofluorobenzene (surr)	111		50-150			%	1		09/21/23 11:50

Batch Information

Analytical Batch: VFC16612
 Analytical Method: AK101
 Analyst: CWD
 Analytical Date/Time: 09/21/23 11:50
 Container ID: 1235062006-A

Prep Batch: VXX40465
 Prep Method: SW5030B
 Prep Date/Time: 09/20/23 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;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062006
 Lab Project ID: 1235062

Collection Date: 09/14/23 13:00
 Received Date: 09/15/23 12:38
 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		09/25/23 16:05
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 16:05
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		09/25/23 16:05
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
1,2,4-Trimethylbenzene	0.690	J	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 16:05
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		09/25/23 16:05
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
1,2-Dichloroethane	0.530		0.500	0.200	0.250	ug/L	1		09/25/23 16:05
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
1,3,5-Trimethylbenzene	3.65		1.00	0.310	0.500	ug/L	1		09/25/23 16:05
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 16:05
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 16:05
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 16:05
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 16:05
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
4-Isopropyltoluene	0.390	J	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 16:05
Benzene	44.0		0.400	0.120	0.200	ug/L	1		09/25/23 16:05
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 16:05
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		09/25/23 16:05
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 16:05
Carbon tetrachloride	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 16:05
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05

Print Date: 09/28/2023 3:42:49PM

J flagging is activated



Results of 110026-MW15

Client Sample ID: **110026-MW15**
 Client Project ID: **110026;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062006
 Lab Project ID: 1235062

Collection Date: 09/14/23 13:00
 Received Date: 09/15/23 12:38
 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		09/25/23 16:05
Chloromethane	0.420	J	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 16:05
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 16:05
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
Ethylbenzene	5.79		1.00	0.310	0.500	ug/L	1		09/25/23 16:05
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 16:05
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
Isopropylbenzene (Cumene)	3.02		1.00	0.310	0.500	ug/L	1		09/25/23 16:05
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 16:05
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 16:05
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
n-Propylbenzene	3.62		1.00	0.310	0.500	ug/L	1		09/25/23 16:05
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
P & M -Xylene	2.06		2.00	0.620	1.00	ug/L	1		09/25/23 16:05
sec-Butylbenzene	0.460	J	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 16:05
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 16:05
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 16:05
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		09/25/23 16:05
Xylenes (total)	2.06	J	3.00	1.00	1.50	ug/L	1		09/25/23 16:05

Surrogates

1,2-Dichloroethane-D4 (surr)	107		81-118			%	1		09/25/23 16:05
4-Bromofluorobenzene (surr)	104		85-114			%	1		09/25/23 16:05
Toluene-d8 (surr)	97.9		89-112			%	1		09/25/23 16:05

Results of 110026-MW15

Client Sample ID: **110026-MW15**
Client Project ID: **110026;Kasilof Riverview Lodge**
Lab Sample ID: 1235062006
Lab Project ID: 1235062

Collection Date: 09/14/23 13:00
Received Date: 09/15/23 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS22799
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 09/25/23 16:05
Container ID: 1235062006-D

Prep Batch: VXX40479
Prep Method: SW5030B
Prep Date/Time: 09/25/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of 110026-DW1

Client Sample ID: **110026-DW1**
 Client Project ID: **110026;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062007
 Lab Project ID: 1235062

Collection Date: 09/13/23 21:40
 Received Date: 09/15/23 12:38
 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		09/18/23 21:50
Ethylbenzene	0.500	U	1.00	0.500	0.500	ug/L	1		09/18/23 21:50
o-Xylene	0.500	U	1.00	0.500	0.500	ug/L	1		09/18/23 21:50
P & M -Xylene	1.00	U	2.00	0.900	1.00	ug/L	1		09/18/23 21:50
Toluene	0.500	U	1.00	0.500	0.500	ug/L	1		09/18/23 21:50
Xylenes (total)	1.50	U	3.00	1.40	1.50	ug/L	1		09/18/23 21:50
Surrogates									
1,4-Difluorobenzene (surr)	92.7		77-115			%	1		09/18/23 21:50

Batch Information

Analytical Batch: VFC16608
 Analytical Method: SW8021B
 Analyst: CWD
 Analytical Date/Time: 09/18/23 21:50
 Container ID: 1235062007-A

Prep Batch: VXX40441
 Prep Method: SW5030B
 Prep Date/Time: 09/18/23 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;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062008
 Lab Project ID: 1235062

Collection Date: 09/13/23 21:59
 Received Date: 09/15/23 12:38
 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		09/18/23 22:08
Ethylbenzene	0.500	U	1.00	0.500	0.500	ug/L	1		09/18/23 22:08
o-Xylene	0.500	U	1.00	0.500	0.500	ug/L	1		09/18/23 22:08
P & M -Xylene	1.00	U	2.00	0.900	1.00	ug/L	1		09/18/23 22:08
Toluene	0.500	U	1.00	0.500	0.500	ug/L	1		09/18/23 22:08
Xylenes (total)	1.50	U	3.00	1.40	1.50	ug/L	1		09/18/23 22:08
Surrogates									
1,4-Difluorobenzene (surr)	93.9		77-115			%	1		09/18/23 22:08

Batch Information

Analytical Batch: VFC16608
 Analytical Method: SW8021B
 Analyst: CWD
 Analytical Date/Time: 09/18/23 22:08
 Container ID: 1235062008-A

Prep Batch: VXX40441
 Prep Method: SW5030B
 Prep Date/Time: 09/18/23 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;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062009
 Lab Project ID: 1235062

Collection Date: 09/13/23 08:00
 Received Date: 09/15/23 12:38
 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		09/18/23 19:41

Surrogates

4-Bromofluorobenzene (surr)	80.8		50-150			%	1		09/18/23 19:41
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Batch Information

Analytical Batch: VFC16608
 Analytical Method: AK101
 Analyst: CWD
 Analytical Date/Time: 09/18/23 19:41
 Container ID: 1235062009-A

Prep Batch: VXX40441
 Prep Method: SW5030B
 Prep Date/Time: 09/18/23 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;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062009
 Lab Project ID: 1235062

Collection Date: 09/13/23 08:00
 Received Date: 09/15/23 12:38
 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		09/25/23 13:32
1,1,1-Trichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 13:32
1,1,2-Trichloroethane	0.200	U	0.400	0.120	0.200	ug/L	1		09/25/23 13:32
1,1-Dichloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
1,1-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
1,1-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
1,2,3-Trichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 13:32
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	0.0375	ug/L	1		09/25/23 13:32
1,2-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
1,2-Dichloroethane	0.250	U	0.500	0.200	0.250	ug/L	1		09/25/23 13:32
1,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
1,3-Dichlorobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
1,3-Dichloropropane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 13:32
1,4-Dichlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 13:32
2,2-Dichloropropane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
2-Butanone (MEK)	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 13:32
2-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
2-Hexanone	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 13:32
4-Chlorotoluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
4-Isopropyltoluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 13:32
Benzene	0.200	U	0.400	0.120	0.200	ug/L	1		09/25/23 13:32
Bromobenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
Bromochloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
Bromodichloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 13:32
Bromoform	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
Bromomethane	3.00	U	6.00	3.00	3.00	ug/L	1		09/25/23 13:32
Carbon disulfide	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 13:32
Carbon tetrachloride	0.330	J	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
Chlorobenzene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 13:32
Chloroethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32

Print Date: 09/28/2023 3:42:49PM

J flagging is activated



Results of 110026-WTB

Client Sample ID: **110026-WTB**
 Client Project ID: **110026;Kasilof Riverview Lodge**
 Lab Sample ID: 1235062009
 Lab Project ID: 1235062

Collection Date: 09/13/23 08:00
 Received Date: 09/15/23 12:38
 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		09/25/23 13:32
Chloromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 13:32
Dibromochloromethane	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 13:32
Dibromomethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
Dichlorodifluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
Ethylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
Freon-113	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 13:32
Hexachlorobutadiene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
Methylene chloride	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 13:32
Methyl-t-butyl ether	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 13:32
Naphthalene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
n-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
n-Propylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
o-Xylene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
P & M -Xylene	1.00	U	2.00	0.620	1.00	ug/L	1		09/25/23 13:32
sec-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
Styrene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
tert-Butylbenzene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
Tetrachloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
Toluene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
Trichloroethene	0.250	U	0.500	0.150	0.250	ug/L	1		09/25/23 13:32
Trichlorofluoromethane	0.500	U	1.00	0.310	0.500	ug/L	1		09/25/23 13:32
Vinyl acetate	5.00	U	10.0	3.10	5.00	ug/L	1		09/25/23 13:32
Vinyl chloride	0.0750	U	0.150	0.0500	0.0750	ug/L	1		09/25/23 13:32
Xylenes (total)	1.50	U	3.00	1.00	1.50	ug/L	1		09/25/23 13:32

Surrogates

1,2-Dichloroethane-D4 (surr)	109		81-118			%	1		09/25/23 13:32
4-Bromofluorobenzene (surr)	104		85-114			%	1		09/25/23 13:32
Toluene-d8 (surr)	100		89-112			%	1		09/25/23 13:32

Results of 110026-WTB

Client Sample ID: **110026-WTB**
Client Project ID: **110026;Kasilof Riverview Lodge**
Lab Sample ID: 1235062009
Lab Project ID: 1235062

Collection Date: 09/13/23 08:00
Received Date: 09/15/23 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS22799
Analytical Method: SW8260D
Analyst: JY
Analytical Date/Time: 09/25/23 13:32
Container ID: 1235062009-B

Prep Batch: VXX40479
Prep Method: SW5030B
Prep Date/Time: 09/25/23 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Method Blank

Blank ID: MB for HBN 1864448 [VXX/40441]
 Blank Lab ID: 1735085

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
 1235062007, 1235062008, 1235062009

Results by AK101

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>
Benzene	0.000250U	0.000500	0.000150	0.000250	mg/L
Ethylbenzene	0.000500U	0.00100	0.000500	0.000500	mg/L
Gasoline Range Organics	0.0500U	0.100	0.0450	0.0500	mg/L
o-Xylene	0.000500U	0.00100	0.000500	0.000500	mg/L
P & M -Xylene	0.00100U	0.00200	0.000900	0.00100	mg/L
Toluene	0.000500U	0.00100	0.000500	0.000500	mg/L
Xylenes (total)	0.00150U	0.00300	0.00140	0.00150	mg/L
Surrogates					
1,4-Difluorobenzene (surr)	95.5	77-115		0	%
4-Bromofluorobenzene (surr)	90.1	50-150		0	%

Batch Information

Analytical Batch: VFC16608
 Analytical Method: AK101
 Instrument: Agilent 7890 PID/FID
 Analyst: CWD
 Analytical Date/Time: 9/18/2023 2:19:00PM

Prep Batch: VXX40441
 Prep Method: SW5030B
 Prep Date/Time: 9/18/2023 6:00:00AM
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1235062 [VXX40441]
 Blank Spike Lab ID: 1735086
 Date Analyzed: 09/18/2023 14:56

Spike Duplicate ID: LCSD for HBN 1235062 [VXX40441]
 Spike Duplicate Lab ID: 1735087
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235062007, 1235062008, 1235062009

Results by AK101

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Benzene	0.100	0.0976	98	0.100	0.101	101	(80-120)	3.20	(< 20)
Ethylbenzene	0.100	0.0948	95	0.100	0.0954	95	(75-125)	0.57	(< 20)
o-Xylene	0.100	0.0984	98	0.100	0.0980	98	(80-120)	0.37	(< 20)
P & M -Xylene	0.200	0.191	96	0.200	0.192	96	(75-130)	0.16	(< 20)
Toluene	0.100	0.0947	95	0.100	0.0965	97	(75-120)	1.90	(< 20)
Xylenes (total)	0.300	0.290	97	0.300	0.290	97	(79-121)	0.02	(< 20)

Surrogates

1,4-Difluorobenzene (surr)	0.0500		107	0.0500		107	(77-115)	0.52	
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Batch Information

Analytical Batch: **VFC16608**
 Analytical Method: **AK101**
 Instrument: **Agilent 7890 PID/FID**
 Analyst: **CWD**

Prep Batch: **VXX40441**
 Prep Method: **SW5030B**
 Prep Date/Time: **09/18/2023 06:00**
 Spike Init Wt./Vol.: 0.100 mg/L Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 0.100 mg/L Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1235062 [VXX40441]
 Blank Spike Lab ID: 1735088
 Date Analyzed: 09/18/2023 15:14

Spike Duplicate ID: LCSD for HBN 1235062 [VXX40441]
 Spike Duplicate Lab ID: 1735089
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235062007, 1235062008, 1235062009

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	0.934	93	1.00	0.902	90	(60-120)	3.50	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500		90	0.0500		81	(50-150)	10.70	

Batch Information

Analytical Batch: **VFC16608**
 Analytical Method: **AK101**
 Instrument: **Agilent 7890 PID/FID**
 Analyst: **CWD**

Prep Batch: **VXX40441**
 Prep Method: **SW5030B**
 Prep Date/Time: **09/18/2023 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: 09/28/2023 3:42:56PM

Method Blank

Blank ID: MB for HBN 1864448 [VXX/40441]
 Blank Lab ID: 1735085

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
 1235062007, 1235062008, 1235062009

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)	95.5	77-115		0	%
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Batch Information

Analytical Batch: VFC16608
 Analytical Method: SW8021B
 Instrument: Agilent 7890 PID/FID
 Analyst: CWD
 Analytical Date/Time: 9/18/2023 2:19:00PM

Prep Batch: VXX40441
 Prep Method: SW5030B
 Prep Date/Time: 9/18/2023 6:00:00AM
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1235062 [VXX40441]
 Blank Spike Lab ID: 1735086
 Date Analyzed: 09/18/2023 14:56

Spike Duplicate ID: LCSD for HBN 1235062 [VXX40441]
 Spike Duplicate Lab ID: 1735087
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235062007, 1235062008, 1235062009

Results by SW8021B

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Benzene	100	97.6	98	100	101	101	(80-120)	3.20	(< 20)
Ethylbenzene	100	94.8	95	100	95.4	95	(75-125)	0.57	(< 20)
o-Xylene	100	98.4	98	100	98.0	98	(80-120)	0.37	(< 20)
P & M -Xylene	200	191	96	200	192	96	(75-130)	0.16	(< 20)
Toluene	100	94.7	95	100	96.5	97	(75-120)	1.90	(< 20)
Xylenes (total)	300	290	97	300	290	97	(79-121)	0.02	(< 20)
Surrogates									
1,4-Difluorobenzene (surr)	50		107	50		107	(77-115)	0.52	

Batch Information

Analytical Batch: VFC16608
 Analytical Method: SW8021B
 Instrument: Agilent 7890 PID/FID
 Analyst: CWD

Prep Batch: VXX40441
 Prep Method: SW5030B
 Prep Date/Time: 09/18/2023 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 1864459 [VXX/40442]
Blank Lab ID: 1735141

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1235062001, 1235062002, 1235062003, 1235062004, 1235062005

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)	93.9	77-115		0	%
4-Bromofluorobenzene (surr)	81.5	50-150		0	%

Batch Information

Analytical Batch: VFC16608
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: CWD
Analytical Date/Time: 9/18/2023 11:21:00PM

Prep Batch: VXX40442
Prep Method: SW5030B
Prep Date/Time: 9/18/2023 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 09/28/2023 3:43:04PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1235062 [VXX40442]
 Blank Spike Lab ID: 1735142
 Date Analyzed: 09/19/2023 02:07

Spike Duplicate ID: LCSD for HBN 1235062 [VXX40442]
 Spike Duplicate Lab ID: 1735143
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235062001, 1235062002, 1235062003, 1235062004, 1235062005

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	0.910	91	1.00	0.830	83	(60-120)	9.20	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500		81	0.0500		78	(50-150)	3.60	

Batch Information

Analytical Batch: **VFC16608**
 Analytical Method: **AK101**
 Instrument: **Agilent 7890 PID/FID**
 Analyst: **CWD**

Prep Batch: **VXX40442**
 Prep Method: **SW5030B**
 Prep Date/Time: **09/18/2023 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: 09/28/2023 3:43:06PM



Method Blank

Blank ID: MB for HBN 1864771 [VXX/40465]

Blank Lab ID: 1736173

QC for Samples:

1235062006

Matrix: Water (Surface, Eff., Ground)

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)	99.6	50-150		0	%

Batch Information

Analytical Batch: VFC16612
Analytical Method: AK101
Instrument: Agilent 7890A PID/FID
Analyst: CWD
Analytical Date/Time: 9/21/2023 8:42:00AM

Prep Batch: VXX40465
Prep Method: SW5030B
Prep Date/Time: 9/20/2023 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 09/28/2023 3:43:09PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1235062 [VXX40465]
 Blank Spike Lab ID: 1736174
 Date Analyzed: 09/21/2023 14:21

Spike Duplicate ID: LCSD for HBN 1235062 [VXX40465]
 Spike Duplicate Lab ID: 1736175
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235062006

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	0.870	87	1.00	0.876	88	(60-120)	0.69	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500		104	0.0500		105	(50-150)	0.29	

Batch Information

Analytical Batch: **VFC16612**
 Analytical Method: **AK101**
 Instrument: **Agilent 7890A PID/FID**
 Analyst: **CWD**

Prep Batch: **VXX40465**
 Prep Method: **SW5030B**
 Prep Date/Time: **09/20/2023 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: 09/28/2023 3:43:13PM

Method Blank

Blank ID: MB for HBN 1864861 [VXX/40479]

Matrix: Water (Surface, Eff., Ground)

Blank Lab ID: 1736547

QC for Samples:

1235062001, 1235062002, 1235062003, 1235062004, 1235062005, 1235062006, 1235062009

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
Bromomethane	3.00U	6.00	3.00	3.00	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

Print Date: 09/28/2023 3:43:16PM



Method Blank

Blank ID: MB for HBN 1864861 [VXX/40479]
Blank Lab ID: 1736547

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1235062001, 1235062002, 1235062003, 1235062004, 1235062005, 1235062006, 1235062009

Results by SW8260D

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>
Dibromomethane	0.500U	1.00	0.310	0.500	ug/L
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
Vinyl chloride	0.0750U	0.150	0.0500	0.0750	ug/L
Xylenes (total)	1.50U	3.00	1.00	1.50	ug/L

Surrogates

1,2-Dichloroethane-D4 (surr)	102	81-118		0	%
4-Bromofluorobenzene (surr)	103	85-114		0	%
Toluene-d8 (surr)	99.8	89-112		0	%

Batch Information

Analytical Batch: VMS22799
Analytical Method: SW8260D
Instrument: Agilent 7890-75MS
Analyst: JY
Analytical Date/Time: 9/25/2023 9:21:00AM

Prep Batch: VXX40479
Prep Method: SW5030B
Prep Date/Time: 9/25/2023 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 09/28/2023 3:43:16PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1235062 [VXX40479]
 Blank Spike Lab ID: 1736548
 Date Analyzed: 09/25/2023 09:36

Spike Duplicate ID: LCSD for HBN 1235062 [VXX40479]
 Spike Duplicate Lab ID: 1736549
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235062001, 1235062002, 1235062003, 1235062004, 1235062005, 1235062006, 1235062009

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	30.2	101	30	30.3	101	(78-124)	0.30	(< 20)
1,1,1-Trichloroethane	30	29.6	99	30	29.7	99	(74-131)	0.47	(< 20)
1,1,2,2-Tetrachloroethane	30	30.3	101	30	30.2	101	(71-121)	0.33	(< 20)
1,1,2-Trichloroethane	30	31.0	103	30	30.8	103	(80-119)	0.55	(< 20)
1,1-Dichloroethane	30	28.3	94	30	28.6	95	(77-125)	1.10	(< 20)
1,1-Dichloroethene	30	28.8	96	30	29.0	97	(71-131)	0.48	(< 20)
1,1-Dichloropropene	30	30.0	100	30	30.1	100	(79-125)	0.07	(< 20)
1,2,3-Trichlorobenzene	30	28.2	94	30	33.0	110	(69-129)	15.70	(< 20)
1,2,3-Trichloropropane	30	31.4	105	30	31.2	104	(73-122)	0.64	(< 20)
1,2,4-Trichlorobenzene	30	29.4	98	30	31.8	106	(69-130)	7.90	(< 20)
1,2,4-Trimethylbenzene	30	30.4	101	30	30.4	101	(79-124)	0.13	(< 20)
1,2-Dibromo-3-chloropropane	30	33.9	113	30	33.8	113	(62-128)	0.50	(< 20)
1,2-Dibromoethane	30	31.9	106	30	31.8	106	(77-121)	0.35	(< 20)
1,2-Dichlorobenzene	30	29.6	99	30	29.8	99	(80-119)	0.57	(< 20)
1,2-Dichloroethane	30	28.9	96	30	29.0	97	(73-128)	0.45	(< 20)
1,2-Dichloropropane	30	29.6	99	30	29.6	99	(78-122)	0.07	(< 20)
1,3,5-Trimethylbenzene	30	30.5	102	30	30.6	102	(75-124)	0.13	(< 20)
1,3-Dichlorobenzene	30	29.9	100	30	30.0	100	(80-119)	0.33	(< 20)
1,3-Dichloropropane	30	31.3	104	30	31.0	103	(80-119)	0.90	(< 20)
1,4-Dichlorobenzene	30	30.2	101	30	30.2	101	(79-118)	0.00	(< 20)
2,2-Dichloropropane	30	31.0	103	30	30.7	102	(60-139)	0.71	(< 20)
2-Butanone (MEK)	90	128	142	90	122	135	(56-143)	5.00	(< 20)
2-Chlorotoluene	30	29.8	99	30	30.0	100	(79-122)	0.53	(< 20)
2-Hexanone	90	115	128	90	110	122	(57-139)	4.90	(< 20)
4-Chlorotoluene	30	29.9	100	30	30.0	100	(78-122)	0.07	(< 20)
4-Isopropyltoluene	30	30.4	101	30	30.9	103	(77-127)	1.40	(< 20)
4-Methyl-2-pentanone (MIBK)	90	95.1	106	90	94.8	105	(67-130)	0.26	(< 20)
Benzene	30	29.0	97	30	29.6	99	(79-120)	1.80	(< 20)
Bromobenzene	30	29.7	99	30	29.6	99	(80-120)	0.40	(< 20)
Bromochloromethane	30	29.1	97	30	29.3	98	(78-123)	0.86	(< 20)
Bromodichloromethane	30	29.3	98	30	29.3	98	(79-125)	0.07	(< 20)
Bromoform	30	31.6	105	30	31.3	104	(66-130)	1.20	(< 20)
Bromomethane	30	25.2	84	30	27.0	90	(53-141)	7.20	(< 20)

Print Date: 09/28/2023 3:43:19PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1235062 [VXX40479]
 Blank Spike Lab ID: 1736548
 Date Analyzed: 09/25/2023 09:36

Spike Duplicate ID: LCSD for HBN 1235062 [VXX40479]
 Spike Duplicate Lab ID: 1736549
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235062001, 1235062002, 1235062003, 1235062004, 1235062005, 1235062006, 1235062009

Results by SW8260D

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Carbon disulfide	45	43.1	96	45	42.9	95	(64-133)	0.35	(< 20)
Carbon tetrachloride	30	28.7	96	30	28.6	95	(72-136)	0.21	(< 20)
Chlorobenzene	30	29.9	100	30	30.0	100	(82-118)	0.20	(< 20)
Chloroethane	30	27.6	92	30	27.5	92	(60-138)	0.29	(< 20)
Chloroform	30	27.3	91	30	27.6	92	(79-124)	0.91	(< 20)
Chloromethane	30	25.6	85	30	25.6	85	(50-139)	0.04	(< 20)
cis-1,2-Dichloroethene	30	28.3	94	30	28.4	95	(78-123)	0.39	(< 20)
cis-1,3-Dichloropropene	30	30.7	102	30	30.7	102	(75-124)	0.26	(< 20)
Dibromochloromethane	30	31.0	103	30	31.1	104	(74-126)	0.03	(< 20)
Dibromomethane	30	29.6	99	30	29.8	99	(79-123)	0.44	(< 20)
Dichlorodifluoromethane	30	24.3	81	30	24.2	81	(32-152)	0.70	(< 20)
Ethylbenzene	30	30.6	102	30	30.4	101	(79-121)	0.79	(< 20)
Freon-113	45	44.5	99	45	44.5	99	(70-136)	0.05	(< 20)
Hexachlorobutadiene	30	29.0	97	30	30.7	102	(66-134)	5.70	(< 20)
Isopropylbenzene (Cumene)	30	31.1	104	30	31.1	104	(72-131)	0.13	(< 20)
Methylene chloride	30	29.4	98	30	29.7	99	(74-124)	1.00	(< 20)
Methyl-t-butyl ether	45	46.4	103	45	46.5	103	(71-124)	0.24	(< 20)
Naphthalene	30	33.0	110	30	37.5	125	(61-128)	12.50	(< 20)
n-Butylbenzene	30	31.0	103	30	31.2	104	(75-128)	0.77	(< 20)
n-Propylbenzene	30	30.7	102	30	30.7	102	(76-126)	0.03	(< 20)
o-Xylene	30	30.8	103	30	30.9	103	(78-122)	0.36	(< 20)
P & M -Xylene	60	62.0	103	60	61.2	102	(80-121)	1.30	(< 20)
sec-Butylbenzene	30	30.5	102	30	30.6	102	(77-126)	0.13	(< 20)
Styrene	30	31.8	106	30	31.6	105	(78-123)	0.54	(< 20)
tert-Butylbenzene	30	30.1	100	30	30.1	100	(78-124)	0.03	(< 20)
Tetrachloroethene	30	30.5	102	30	30.3	101	(74-129)	0.69	(< 20)
Toluene	30	29.3	98	30	29.4	98	(80-121)	0.51	(< 20)
trans-1,2-Dichloroethene	30	28.5	95	30	28.7	96	(75-124)	0.52	(< 20)
trans-1,3-Dichloropropene	30	32.6	109	30	32.0	107	(73-127)	1.70	(< 20)
Trichloroethene	30	29.3	98	30	29.3	98	(79-123)	0.07	(< 20)
Trichlorofluoromethane	30	29.2	97	30	29.0	97	(65-141)	0.72	(< 20)
Vinyl acetate	30	31.7	106	30	31.5	105	(54-146)	0.79	(< 20)
Vinyl chloride	30	26.7	89	30	26.6	89	(58-137)	0.49	(< 20)

Print Date: 09/28/2023 3:43:19PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1235062 [VXX40479]
 Blank Spike Lab ID: 1736548
 Date Analyzed: 09/25/2023 09:36

Spike Duplicate ID: LCSD for HBN 1235062 [VXX40479]
 Spike Duplicate Lab ID: 1736549
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235062001, 1235062002, 1235062003, 1235062004, 1235062005, 1235062006, 1235062009

Results by SW8260D

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Xylenes (total)	90	92.8	103	90	92.1	102	(79-121)	0.76	(< 20)
Surrogates									
1,2-Dichloroethane-D4 (surr)	30		99	30		99	(81-118)	0.40	
4-Bromofluorobenzene (surr)	30		100	30		100	(85-114)	0.23	
Toluene-d8 (surr)	30		99	30		100	(89-112)	0.97	

Batch Information

Analytical Batch: **VMS22799**
 Analytical Method: **SW8260D**
 Instrument: **Agilent 7890-75MS**
 Analyst: **JY**

Prep Batch: **VXX40479**
 Prep Method: **SW5030B**
 Prep Date/Time: **09/25/2023 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: 09/28/2023 3:43:19PM

Method Blank

Blank ID: MB for HBN 1864393 [XXX/48630]
 Blank Lab ID: 1734925

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
 1235062001, 1235062002, 1235062003, 1235062004, 1235062005, 1235062006

Results by 8270D SIM LV (PAH)

Parameter	Results	LOQ/CL	DL	LOD	Units
1-Methylnaphthalene	0.0231J	0.0500	0.0150	0.0250	ug/L
2-Methylnaphthalene	0.0261J	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	0.0516J	0.100	0.0310	0.0500	ug/L
Pyrene	0.0250U	0.0500	0.0150	0.0250	ug/L
Surrogates					
2-Methylnaphthalene-d10 (surr)	73.9	38-100		0	%
Fluoranthene-d10 (surr)	94.8	30-111		0	%

Batch Information

Analytical Batch: XMS13904
 Analytical Method: 8270D SIM LV (PAH)
 Instrument: Agilent 8890 GC/MS SYA
 Analyst: HMW
 Analytical Date/Time: 9/20/2023 1:49:00PM

Prep Batch: XXX48630
 Prep Method: SW3535A
 Prep Date/Time: 9/18/2023 12:00:00PM
 Prep Initial Wt./Vol.: 250 mL
 Prep Extract Vol: 1 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1235062 [XXX48630]
 Blank Spike Lab ID: 1734926
 Date Analyzed: 09/19/2023 04:18

Spike Duplicate ID: LCSD for HBN 1235062
 [XXX48630]
 Spike Duplicate Lab ID: 1734927
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235062001, 1235062002, 1235062003, 1235062004, 1235062005, 1235062006

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	1.32	66	2	1.31	65	(41-115)	1.10	(< 20)
2-Methylnaphthalene	2	1.29	64	2	1.33	67	(39-114)	3.40	(< 20)
Acenaphthene	2	1.51	75	2	1.53	77	(48-114)	1.80	(< 20)
Acenaphthylene	2	1.66	83	2	1.66	83	(35-121)	0.39	(< 20)
Anthracene	2	1.59	79	2	1.58	79	(53-119)	0.47	(< 20)
Benzo(a)Anthracene	2	1.51	76	2	1.55	77	(59-120)	2.50	(< 20)
Benzo[a]pyrene	2	1.53	77	2	1.60	80	(53-120)	4.30	(< 20)
Benzo[b]Fluoranthene	2	1.57	79	2	1.69	84	(53-126)	7.20	(< 20)
Benzo[g,h,i]perylene	2	1.43	72	2	1.48	74	(44-128)	3.00	(< 20)
Benzo[k]fluoranthene	2	1.59	79	2	1.57	79	(54-125)	0.88	(< 20)
Chrysene	2	1.56	78	2	1.60	80	(57-120)	2.70	(< 20)
Dibenzo[a,h]anthracene	2	1.45	73	2	1.51	76	(44-131)	4.20	(< 20)
Fluoranthene	2	1.64	82	2	1.63	81	(58-120)	0.91	(< 20)
Fluorene	2	1.58	79	2	1.57	79	(50-118)	0.49	(< 20)
Indeno[1,2,3-c,d] pyrene	2	1.52	76	2	1.57	79	(48-130)	3.50	(< 20)
Naphthalene	2	1.26	63	2	1.30	65	(43-114)	3.60	(< 20)
Phenanthrene	2	1.60	80	2	1.59	79	(53-115)	0.76	(< 20)
Pyrene	2	1.67	84	2	1.64	82	(53-121)	1.60	(< 20)

Surrogates

2-Methylnaphthalene-d10 (surr)	2		75	2		75	(38-100)	0.15	
Fluoranthene-d10 (surr)	2		96	2		93	(30-111)	3.00	

Batch Information

Analytical Batch: XMS13903
 Analytical Method: 8270D SIM LV (PAH)
 Instrument: Agilent 8890 GC/MS SYA
 Analyst: HMW

Prep Batch: XXX48630
 Prep Method: SW3535A
 Prep Date/Time: 09/18/2023 12:00
 Spike Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL
 Dupe Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL

Print Date: 09/28/2023 3:43:25PM



Method Blank

Blank ID: MB for HBN 1864560 [XXX/48650]
Blank Lab ID: 1735540

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1235062001, 1235062002, 1235062003, 1235062004, 1235062005, 1235062006

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	0.300U	0.600	0.200	0.300	mg/L
Surrogates					
5a Androstane (surr)	104	60-120		0	%

Batch Information

Analytical Batch: XFC16681
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: NGG
Analytical Date/Time: 9/24/2023 9:43:00AM

Prep Batch: XXX48650
Prep Method: SW3520C
Prep Date/Time: 9/20/2023 2:30:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 09/28/2023 3:43:28PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1235062 [XXX48650]
 Blank Spike Lab ID: 1735541
 Date Analyzed: 09/24/2023 09:55

Spike Duplicate ID: LCSD for HBN 1235062
 [XXX48650]
 Spike Duplicate Lab ID: 1735542
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235062001, 1235062002, 1235062003, 1235062004, 1235062005, 1235062006

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	22.5	112	20	21.2	106	(75-125)	6.00	(< 20)
Surrogates									
5a Androstane (surr)	0.4		112	0.4		107	(60-120)	4.00	

Batch Information

Analytical Batch: **XFC16681**
 Analytical Method: **AK102**
 Instrument: **Agilent 7890B F**
 Analyst: **NGG**

Prep Batch: **XXX48650**
 Prep Method: **SW3520C**
 Prep Date/Time: **09/20/2023 14:30**
 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: 09/28/2023 3:43:31PM

1235062



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

Profile# 365300 CSW

SGS North America Inc.

Date	Time	Sample ID	Total Containers	SGS North America Inc.							
				VOA Vials HCl	VOA Vials HCl	Amber HCl	Amber 4C				
9/13/2023	20:53	110026-MW1 <i>QAS</i>	10	X	X	X	X				
9/13/2023	18:17	110026-MW2 <i>QAS</i>	10	X	X	X	X				
9/13/2023	17:18	110026-MW3 <i>QAS</i>	10	X	X	X	X				
9/13/2023	15:52	110026-MW4 <i>QAS</i>	10	X	X	X	X				
9/14/2023	12:30	110026-MW5 <i>QAS</i>	10	X	X	X	X				
9/14/2023	13:00	110026-MW15 <i>QAS</i>	10	X	X	X	X				
9/13/2023	21:40	110026-DW1 <i>QAC</i>	3						X		
9/13/2023	21:59	110026-DW2 <i>QAC</i>	3						X		
9/13/2023	8:00	110026-WTB <i>QAT</i>	1 Set	X	X	X	X				
Relinquished By:			Relinquished By:			Project Information					
Signature: <i>Zach Thon</i>			Signature: _____			Project Number: 110026					
Print Name: Zach Thon			Print Name: _____			Project Name: Kasilof Riverview Lodge					
Company: Shannon & Wilson, Inc.			Company: _____			Contact: Dan McMahon					
Date: 9/15/23			Date: _____			Sampler: ZJT					
Time: 12:37			Time: _____			Special Instructions:					
Received By:			Received By:			Sample Receipt					
Signature: _____			Signature: <i>Jordan Creech</i>			Shipped Via: Hand Delivered					
Print Name: _____			Print Name: Jordan Creech								
Company: _____			Company: <i>SGS</i>			Cooler Temperature Upon Arrival: <i>1.4 1753</i>					
Date: _____			Date: <i>09/15/23</i>			Sample Matrix: Water					
Time: _____			Time: <i>1738</i>			10 Working DAY TAT					



1235062



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?	Yes	No	<input checked="" type="radio"/> 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?	<input checked="" type="radio"/> Yes	No	N/A	Reviewer Initials: JAC
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>
1235062001-A	HCL to pH < 2	OK	1235062005-J	No Preservative Required	OK
1235062001-B	HCL to pH < 2	OK	1235062006-A	HCL to pH < 2	OK
1235062001-C	HCL to pH < 2	OK	1235062006-B	HCL to pH < 2	OK
1235062001-D	HCL to pH < 2	OK	1235062006-C	HCL to pH < 2	OK
1235062001-E	HCL to pH < 2	OK	1235062006-D	HCL to pH < 2	OK
1235062001-F	HCL to pH < 2	OK	1235062006-E	HCL to pH < 2	OK
1235062001-G	HCL to pH < 2	OK	1235062006-F	HCL to pH < 2	OK
1235062001-H	HCL to pH < 2	OK	1235062006-G	HCL to pH < 2	OK
1235062001-I	No Preservative Required	OK	1235062006-H	HCL to pH < 2	OK
1235062001-J	No Preservative Required	OK	1235062006-I	No Preservative Required	OK
1235062002-A	HCL to pH < 2	OK	1235062006-J	No Preservative Required	OK
1235062002-B	HCL to pH < 2	OK	1235062007-A	HCL to pH < 2	OK
1235062002-C	HCL to pH < 2	OK	1235062007-B	HCL to pH < 2	OK
1235062002-D	HCL to pH < 2	OK	1235062007-C	HCL to pH < 2	OK
1235062002-E	HCL to pH < 2	OK	1235062008-A	HCL to pH < 2	OK
1235062002-F	HCL to pH < 2	OK	1235062008-B	HCL to pH < 2	OK
1235062002-G	HCL to pH < 2	OK	1235062008-C	HCL to pH < 2	OK
1235062002-H	HCL to pH < 2	OK	1235062009-A	HCL to pH < 2	OK
1235062002-I	No Preservative Required	OK	1235062009-B	HCL to pH < 2	OK
1235062002-J	No Preservative Required	OK	1235062009-C	HCL to pH < 2	OK
1235062003-A	HCL to pH < 2	OK	1235062009-D	HCL to pH < 2	OK
1235062003-B	HCL to pH < 2	OK	1235062009-E	HCL to pH < 2	OK
1235062003-C	HCL to pH < 2	OK	1235062009-F	HCL to pH < 2	OK
1235062003-D	HCL to pH < 2	OK	1235062009-G	HCL to pH < 2	OK
1235062003-E	HCL to pH < 2	OK	1235062009-H	HCL to pH < 2	OK
1235062003-F	HCL to pH < 2	OK	1235062009-I	HCL to pH < 2	OK
1235062003-G	HCL to pH < 2	OK			
1235062003-H	HCL to pH < 2	OK			
1235062003-I	No Preservative Required	OK			
1235062003-J	No Preservative Required	OK			
1235062004-A	HCL to pH < 2	OK			
1235062004-B	HCL to pH < 2	OK			
1235062004-C	HCL to pH < 2	OK			
1235062004-D	HCL to pH < 2	OK			
1235062004-E	HCL to pH < 2	OK			
1235062004-F	HCL to pH < 2	OK			
1235062004-G	HCL to pH < 2	OK			
1235062004-H	HCL to pH < 2	OK			
1235062004-I	No Preservative Required	OK			
1235062004-J	No Preservative Required	OK			
1235062005-A	HCL to pH < 2	OK			
1235062005-B	HCL to pH < 2	OK			
1235062005-C	HCL to pH < 2	OK			
1235062005-D	HCL to pH < 2	OK			
1235062005-E	HCL to pH < 2	OK			
1235062005-F	HCL to pH < 2	OK			
1235062005-G	HCL to pH < 2	OK			
1235062005-H	HCL to pH < 2	OK			
1235062005-I	No Preservative Required	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.