

**Travis/Peterson
Environmental Consulting, Inc.**

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September 21, 2020
1197-02

Seekins Ford-Lincoln, Inc.
1625 Seekins Ford Drive
Fairbanks, Alaska 99701

**Attention: Aaron Seekins
Parts and Service Director**

Re: 2020 Annual Groundwater Monitoring Report, File No. 100.26.131

Dear Mr. Seekins:

Travis/Peterson Environmental Consulting, Inc. (TPECI) is pleased to present our letter report summarizing data obtained from the groundwater sampling event conducted on September 3, 2020 at Seekins Ford – Lincoln, Inc. (Figure 1, attached).

On September 3, 2020 monitoring wells MW-1, MW-2, MW-3 and MW-7 were sampled. The sample labeled MW-16 is a duplicate of MW-1. The samples were submitted to SGS North America Inc. for analysis by the following methods:

- Gasoline range organics (GRO) by Method AK101
- Diesel range organics (DRO) by Method AK102; and
- Volatile organic compounds (VOCs) by EPA Method 8260B.

Field Measurements

Depth to groundwater and well depths were measured from the top of each well casing prior to sampling (Table 1). All the wells sampled were flush mount wells so measurements below top of casing are considered to be below ground surface. The analytical results from this sampling event appear in Table 2. The laboratory analytical report and quality assurance checklist are attached.

Table 1. Well Measurement Data

Well	Depth to Water (ft)	Total Depth (ft)	Casing Height(ft)
MW-1	11.57	24.60	flush mount
MW-2	12.02	24.48	flush mount
MW-3	11.0	22.60	flush mount
MW-6	Not Sampled	Not Sampled	flush mount
MW-7	12.12	21.19	flush mount

Table 2. 2020 Analytical Results

Sample	DRO (mg/L)	GRO (mg/L)	VOCs (µg/L)			
MW-1	1.89	6.73	Sec-Butylbenzene:	5.53J	1,3,5-trimethylbenzene:	110
			toluene:	54.2	1,2,4-trimethylbenzene:	590
			ethylbenzene:	722	naphthalene:	38.5
			xylenes (total):	3180	4-isopropyltoluene:	13.5
			isopropylbenzene(cumene)	47.2	n-butylbenzene:	3.39J
			n-propylbenzene:	84.1		
MW-16	2.14	6.73	Sec-butylbenzene:	5.87J	1,3,5-trimethylbenzene:	122
			toluene:	50.9	1,2,4-trimethylbenzene:	660
			ethylbenzene:	807	naphthalene:	41.6
			xylenes (total):	3370	4-isopropyltoluene:	6.17J
			isopropylbenzene(cumene)	52.0		
			n-propylbenzene:	93.3		
MW-2	1.29	ND	1,1,1-trichloroethane:	0.609J	trichlorofluoromethane:	3.07
					tetrachloroethene:	2.82
MW-3	1.89	ND	tetrachloroethene:	0.802J	1,2-dichlorobenzene:	4.48
			4-isopropyltoluene:	0.755J	1,2,4-trimethylbenzene:	1.28
			naphthalene:	1.50	1,3,5-trimethylbenzene:	0.702J
					1,4-dichlorobenzene:	0.244J
MW-7	0.173J	ND	trichlorofluoromethane:	6.07		
Cleanup Level ^a	1.5	2.2	trichlorofluoromethane:	5200	sec-butylbenzene:	2000
			benzene	4.6	4-isopropyltoluene:	n/a
			toluene:	1,100	1,4-dichlorobenzene:	4.8
			tetrachloroethene:	41	1,2,4-trimethylbenzene:	56
			ethylbenzene:	15	naphthalene:	1.7
			xylenes (total):	190	1, 2- dichloroethane:	1.7
			Isopropylbenzene:	450	n-Butylbenzene:	1000
			n-propylbenzene:	660	1,2-dichlorobenzene:	300
			1,3,5-trimethylbenzene:	60		

^a18 AAC 75 Table C: Groundwater Cleanup Levels January 2019. Only detected VOCs are listed in the table. Measurements exceeding DEC Cleanup Levels are indicated in bold type. n/a – cleanup standard not available. **Bolded** numbers are above ADEC Cleanup levels.

Sampling Discussion

Historic results for all wells sampled are attached for further reference.

Detections in MW-1

The following analytes were detected in MW-1 above DEC Cleanup Levels:

- DRO;
- GRO;
- Ethylbenzene;
- Xylenes (total);
- 1,3,5-trimethylbenzene;
- 1,2,4-trimethylbenzene; and
- Naphthalene.

In the 2017 sampling event, GRO, ethylbenzene, total xylenes, 1,2,4-trimethylbenzene, and

naphthalene were all detected above the Cleanup Levels, this year additional analytes were detected above applicable cleanup levels including DRO and 1,3,5-trimethylbenzene.

Detections in MW-2

The following analytes were detected in MW-2, all below DEC Cleanup Levels:

- DRO;
- 1,1,1-Trichloroethane;
- Tetrachloroethene; and
- Trichlorofluoromethane.

Some of the above analytes were J-flagged meaning the results were estimated. MW-2 has exhibited three consecutive sampling events with analytes below applicable cleanup levels.

Detections in MW-3

The following analytes were detected in MW-3, all below DEC Cleanup Levels except for DRO:

- DRO;
- 1,2,4-Trimethylbenzene;
- 1,2-Dichlorobenzene;
- 1,3,5-Trimethylbenzene;
- 1,4-Dichlorobenzene;
- 4-Isopropyltoluene;
- Naphthalene; and
- Tetrachloroethene.

The contamination detected in MW-3 is consistent with historical contamination found within the monitoring well. There was an increase in contamination of DRO found in MW-3, since the 2017 sampling event. DRO was detected above applicable cleanup levels in the 2020 sampling event for MW-3. For a complete historical list of contamination see the historical data table attached to this letter.

Detections in MW-7

The following analyte was detected in MW-7, below the DEC Cleanup Level:

- Trichlorofluoromethane; and
- DRO.

MW-7 has exhibited three consecutive sampling events of analytes below applicable DEC Cleanup Levels.

DEC Laboratory Report Checklist Discussion

Laboratory analyses of the samples were performed by SGS North America Inc. TPECI employee Michaela McGee completed the DEC Laboratory Data Review Checklist for the analytical report; a copy of the completed DEC Laboratory Data Review Checklist is attached to this letter.

SGS North America Inc. Data Review Checklist

The data review checklist revealed one QC failure with the laboratory data. In sample MW-1 and its duplicate, surrogate recovery for 4-bromofluorobenzene (161%) did not meet QC criteria. This QC failure was due to matrix interference and should not affect the data.

Conclusions

No contaminants were detected above DEC groundwater cleanup levels in, MW-2 and MW-7. These two wells have also experienced three consecutive sampling events with no detected analytes above DEC groundwater cleanup levels.

The sampling of MW-1 in 2020 was consistent with the previous sampling event in 2017. In addition to the analytes detected in 2017 above applicable clean up levels, analytes DRO, and 1,3,5-trimethylbenzene were also detected in this sampling event. The sampling of MW-1 in 2017 detected GRO, ethylbenzene, xylenes, naphthalene, and 1,2,4-trimethylbenzene as contaminants above DEC groundwater cleanup levels. The levels detected in 2020 appear consistent with historic results and have added contaminants above applicable limits. Continual monitoring of this well is suggested.

The sampling of MW-3 in 2017 detected no analytes above DEC Cleanup Levels, however in the 2020 sampling event DRO was detected above the DEC Cleanup Level.

A review of the data, using the DEC laboratory data review checklist identified a minor problem in the laboratory report. It was determined this problem did not adversely affect the data obtained.

Based on the analytical results, TPECI suggests continual monitoring of MW-1 and MW-3, once every three years, until which time there are three consecutive sampling events with no analytes being detected above applicable cleanup levels. The next sampling event will be conducted in 2023 and will include sampling of only MW-1 and MW-3, unless DEC responds differently in writing.

If you have any questions regarding this report, please contact me at (907) 455-7225.

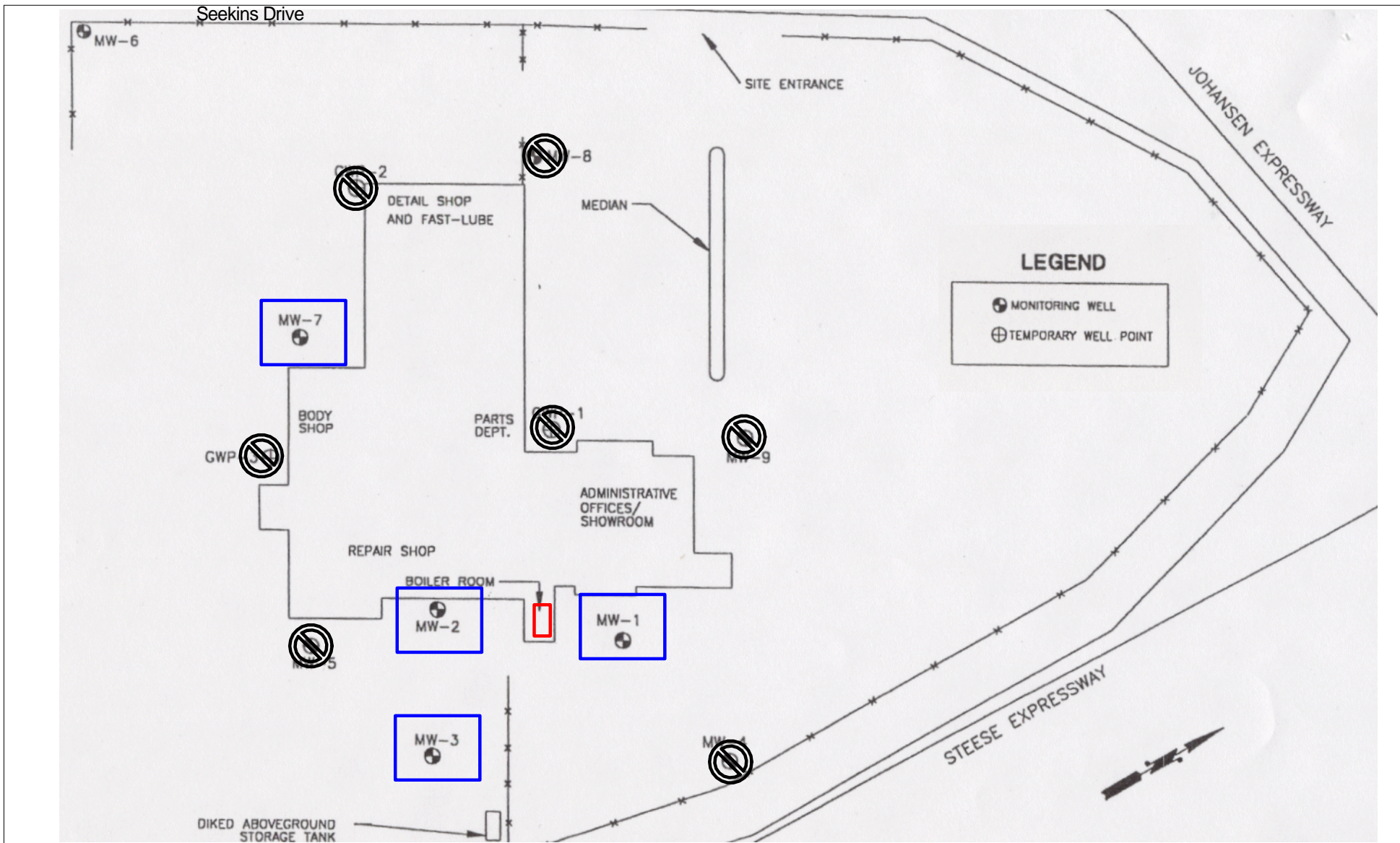
Sincerely,



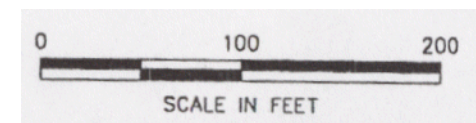
Michaela McGee
Staff Scientist

cc: Mr. Jim Fish, State of Alaska, Department of Environmental Conservation.

Attachments: Figure 1
Historical Groundwater Data Table
Laboratory Data Reports and DEC Laboratory Data Review Checklist
Field Notes



- LOCATION OF INVESTIGATIVE WASTE BUCKETS DERIVED FROM EACH WELL.
- WELLS SAMPLES IN 2020
- ⊗ DECOMMISSIONED MONITORING WELL



TRAVIS/PETERSON ENVIRONMENTAL CONSULTING, INC.
 329 2ND STREET
 FAIRBANKS, ALASKA 99701

SEEKINS FORD-LINCOLN-MERCURY

**FIGURE 1
 SITE PLAN**

PROJECT No: 1197-02

FILE: S:\Projects\1197\02\2015\Figure 1-Site Plan.SKF

DATE: 09/02/2020

SCALE: AS SHOWN



Laboratory Report of Analysis

To: Travis/Peterson (TPECI)
329 2nd Street
Fairbanks, AK 99701
(907)455-7225

Report Number: **1209636**

Client Project: **Seekins**

Dear Eddie Packee,

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 Jennifer 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.

Jennifer Dawkins
Project Manager
Jennifer.Dawkins@sgs.com

Date

Case Narrative

SGS Client: **Travis/Peterson (TPECI)**

SGS Project: **1209636**

Project Name/Site: **Seekins**

Project Contact: **Eddie Packee**

Refer to sample receipt form for information on sample condition.

MW-1 (1209636001) PS

AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria due to matrix interference.

MW-16 (1209636002) PS

AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria due to matrix interference.

*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: 09/18/2020 4:18:28PM

Report of Manual Integrations

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analytical Batch</u>	<u>Analyte</u>	<u>Reason</u>
SW8260D				
1209636001	MW-1	VMS20294	n-Butylbenzene	SP
1209636002	MW-16	VMS20294	4-Isopropyltoluene	SP
1209636004	MW-3	VMS20294	4-Isopropyltoluene	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.

Print Date: 09/18/2020 4:18:29PM

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>
MW-1	1209636001	09/03/2020	09/09/2020	Water (Surface, Eff., Ground)
MW-16	1209636002	09/03/2020	09/09/2020	Water (Surface, Eff., Ground)
MW-2	1209636003	09/03/2020	09/09/2020	Water (Surface, Eff., Ground)
MW-3	1209636004	09/03/2020	09/09/2020	Water (Surface, Eff., Ground)
MW-7	1209636005	09/03/2020	09/09/2020	Water (Surface, Eff., Ground)
Trip Blank	1209636006	09/03/2020	09/09/2020	Water (Surface, Eff., Ground)

<u>Method</u>	<u>Method Description</u>
AK102	DRO Low Volume (W)
AK101	Gasoline Range Organics (W)
SW8260D	Volatile Organic Compounds (W) FULL

Print Date: 09/18/2020 4:18:32PM

Detectable Results Summary

Client Sample ID: **MW-1**
 Lab Sample ID: 1209636001
Semivolatile Organic Fuels
Volatile Fuels
Volatile GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Diesel Range Organics	1.89	mg/L
Gasoline Range Organics	6.73	mg/L
1,2,4-Trimethylbenzene	590	ug/L
1,3,5-Trimethylbenzene	110	ug/L
4-Isopropyltoluene	13.5	ug/L
Ethylbenzene	722	ug/L
Isopropylbenzene (Cumene)	47.2	ug/L
Naphthalene	38.5	ug/L
n-Butylbenzene	3.39J	ug/L
n-Propylbenzene	84.1	ug/L
o-Xylene	926	ug/L
P & M -Xylene	2250	ug/L
sec-Butylbenzene	5.53J	ug/L
Toluene	54.2	ug/L
Xylenes (total)	3180	ug/L

Client Sample ID: **MW-16**
 Lab Sample ID: 1209636002
Semivolatile Organic Fuels
Volatile Fuels
Volatile GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Diesel Range Organics	2.14	mg/L
Gasoline Range Organics	6.73	mg/L
1,2,4-Trimethylbenzene	660	ug/L
1,3,5-Trimethylbenzene	122	ug/L
4-Isopropyltoluene	6.17J	ug/L
Ethylbenzene	807	ug/L
Isopropylbenzene (Cumene)	52.0	ug/L
Naphthalene	41.6	ug/L
n-Propylbenzene	93.3	ug/L
o-Xylene	887	ug/L
P & M -Xylene	2490	ug/L
sec-Butylbenzene	5.87J	ug/L
Toluene	50.9	ug/L
Xylenes (total)	3370	ug/L

Client Sample ID: **MW-2**
 Lab Sample ID: 1209636003
Semivolatile Organic Fuels
Volatile GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Diesel Range Organics	1.29	mg/L
1,1,1-Trichloroethane	0.609J	ug/L
Tetrachloroethene	2.82	ug/L
Trichlorofluoromethane	3.07	ug/L

Detectable Results Summary

Client Sample ID: **MW-3**
 Lab Sample ID: 1209636004
Semivolatile Organic Fuels
Volatile GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Diesel Range Organics	1.89	mg/L
1,2,4-Trimethylbenzene	1.28	ug/L
1,2-Dichlorobenzene	4.48	ug/L
1,3,5-Trimethylbenzene	0.702J	ug/L
1,4-Dichlorobenzene	0.244J	ug/L
4-Isopropyltoluene	0.755J	ug/L
Naphthalene	1.50	ug/L
Tetrachloroethene	0.802J	ug/L

Client Sample ID: **MW-7**
 Lab Sample ID: 1209636005
Semivolatile Organic Fuels
Volatile GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Diesel Range Organics	0.173J	mg/L
Trichlorofluoromethane	6.07	ug/L

Results of MW-1

Client Sample ID: **MW-1**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636001
 Lab Project ID: 1209636

Collection Date: 09/03/20 15:15
 Received Date: 09/09/20 09:11
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Semivolatile Organic Fuels

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Diesel Range Organics	1.89	0.556	0.167	mg/L	1		09/17/20 20:17
Surrogates							
5a Androstane (surr)	92.4	50-150		%	1		09/17/20 20:17

Batch Information

Analytical Batch: XFC15743
 Analytical Method: AK102
 Analyst: CDM
 Analytical Date/Time: 09/17/20 20:17
 Container ID: 1209636001-A

Prep Batch: XXX43862
 Prep Method: SW3520C
 Prep Date/Time: 09/15/20 14:44
 Prep Initial Wt./Vol.: 270 mL
 Prep Extract Vol: 1 mL

Results of MW-1

Client Sample ID: **MW-1**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636001
 Lab Project ID: 1209636

Collection Date: 09/03/20 15:15
 Received Date: 09/09/20 09:11
 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>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Gasoline Range Organics	6.73		0.500	0.155	mg/L	5		09/14/20 14:16
Surrogates								
4-Bromofluorobenzene (surr)	161	*	50-150		%	5		09/14/20 14:16

Batch Information

Analytical Batch: VFC15343
 Analytical Method: AK101
 Analyst: ALJ
 Analytical Date/Time: 09/14/20 14:16
 Container ID: 1209636001-C

Prep Batch: VXX36345
 Prep Method: SW5030B
 Prep Date/Time: 09/14/20 06:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL



Results of MW-1

Client Sample ID: **MW-1**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636001
 Lab Project ID: 1209636

Collection Date: 09/03/20 15:15
 Received Date: 09/09/20 09:11
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
1,1,1,2-Tetrachloroethane	2.50 U	5.00	1.50	ug/L	10		09/09/20 21:33
1,1,1-Trichloroethane	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
1,1,2,2-Tetrachloroethane	2.50 U	5.00	1.50	ug/L	10		09/09/20 21:33
1,1,2-Trichloroethane	2.00 U	4.00	1.20	ug/L	10		09/09/20 21:33
1,1-Dichloroethane	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
1,1-Dichloroethene	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
1,1-Dichloropropene	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
1,2,3-Trichlorobenzene	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
1,2,3-Trichloropropane	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
1,2,4-Trichlorobenzene	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
1,2,4-Trimethylbenzene	590	10.0	3.10	ug/L	10		09/09/20 21:33
1,2-Dibromo-3-chloropropane	50.0 U	100	31.0	ug/L	10		09/09/20 21:33
1,2-Dibromoethane	0.375 U	0.750	0.180	ug/L	10		09/09/20 21:33
1,2-Dichlorobenzene	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
1,2-Dichloroethane	2.50 U	5.00	1.50	ug/L	10		09/09/20 21:33
1,2-Dichloropropane	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
1,3,5-Trimethylbenzene	110	10.0	3.10	ug/L	10		09/09/20 21:33
1,3-Dichlorobenzene	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
1,3-Dichloropropane	2.50 U	5.00	1.50	ug/L	10		09/09/20 21:33
1,4-Dichlorobenzene	2.50 U	5.00	1.50	ug/L	10		09/09/20 21:33
2,2-Dichloropropane	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
2-Butanone (MEK)	50.0 U	100	31.0	ug/L	10		09/09/20 21:33
2-Chlorotoluene	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
2-Hexanone	50.0 U	100	31.0	ug/L	10		09/09/20 21:33
4-Chlorotoluene	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
4-Isopropyltoluene	13.5	10.0	3.10	ug/L	10		09/09/20 21:33
4-Methyl-2-pentanone (MIBK)	50.0 U	100	31.0	ug/L	10		09/09/20 21:33
Benzene	2.00 U	4.00	1.20	ug/L	10		09/09/20 21:33
Bromobenzene	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
Bromochloromethane	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
Bromodichloromethane	2.50 U	5.00	1.50	ug/L	10		09/09/20 21:33
Bromoform	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
Bromomethane	25.0 U	50.0	20.0	ug/L	10		09/09/20 21:33
Carbon disulfide	50.0 U	100	31.0	ug/L	10		09/09/20 21:33
Carbon tetrachloride	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
Chlorobenzene	2.50 U	5.00	1.50	ug/L	10		09/09/20 21:33
Chloroethane	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33

Print Date: 09/18/2020 4:18:35PM

J flagging is activated



Results of MW-1

Client Sample ID: **MW-1**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636001
 Lab Project ID: 1209636

Collection Date: 09/03/20 15:15
 Received Date: 09/09/20 09:11
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Chloroform	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
Chloromethane	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
cis-1,2-Dichloroethene	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
cis-1,3-Dichloropropene	2.50 U	5.00	1.50	ug/L	10		09/09/20 21:33
Dibromochloromethane	2.50 U	5.00	1.50	ug/L	10		09/09/20 21:33
Dibromomethane	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
Dichlorodifluoromethane	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
Ethylbenzene	722	10.0	3.10	ug/L	10		09/09/20 21:33
Freon-113	50.0 U	100	31.0	ug/L	10		09/09/20 21:33
Hexachlorobutadiene	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
Isopropylbenzene (Cumene)	47.2	10.0	3.10	ug/L	10		09/09/20 21:33
Methylene chloride	50.0 U	100	31.0	ug/L	10		09/09/20 21:33
Methyl-t-butyl ether	50.0 U	100	31.0	ug/L	10		09/09/20 21:33
Naphthalene	38.5	10.0	3.10	ug/L	10		09/09/20 21:33
n-Butylbenzene	3.39 J	10.0	3.10	ug/L	10		09/09/20 21:33
n-Propylbenzene	84.1	10.0	3.10	ug/L	10		09/09/20 21:33
o-Xylene	926	10.0	3.10	ug/L	10		09/09/20 21:33
P & M -Xylene	2250	20.0	6.20	ug/L	10		09/09/20 21:33
sec-Butylbenzene	5.53 J	10.0	3.10	ug/L	10		09/09/20 21:33
Styrene	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
tert-Butylbenzene	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
Tetrachloroethene	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
Toluene	54.2	10.0	3.10	ug/L	10		09/09/20 21:33
trans-1,2-Dichloroethene	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
trans-1,3-Dichloropropene	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
Trichloroethene	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
Trichlorofluoromethane	5.00 U	10.0	3.10	ug/L	10		09/09/20 21:33
Vinyl acetate	50.0 U	100	31.0	ug/L	10		09/09/20 21:33
Vinyl chloride	0.750 U	1.50	0.500	ug/L	10		09/09/20 21:33
Xylenes (total)	3180	30.0	10.0	ug/L	10		09/09/20 21:33
Surrogates							
1,2-Dichloroethane-D4 (surr)	101	81-118		%	10		09/09/20 21:33
4-Bromofluorobenzene (surr)	96.8	85-114		%	10		09/09/20 21:33
Toluene-d8 (surr)	98.3	89-112		%	10		09/09/20 21:33

Results of MW-1

Client Sample ID: **MW-1**
Client Project ID: **Seekins**
Lab Sample ID: 1209636001
Lab Project ID: 1209636

Collection Date: 09/03/20 15:15
Received Date: 09/09/20 09:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20294
Analytical Method: SW8260D
Analyst: NRB
Analytical Date/Time: 09/09/20 21:33
Container ID: 1209636001-F

Prep Batch: VXX36308
Prep Method: SW5030B
Prep Date/Time: 09/09/20 13:30
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of MW-16

Client Sample ID: **MW-16**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636002
 Lab Project ID: 1209636

Collection Date: 09/03/20 15:20
 Received Date: 09/09/20 09:11
 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>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Diesel Range Organics	2.14		0.556	0.167	mg/L	1		09/17/20 20:26
Surrogates								
5a Androstane (surr)	107		50-150		%	1		09/17/20 20:26

Batch Information

Analytical Batch: XFC15743
 Analytical Method: AK102
 Analyst: CDM
 Analytical Date/Time: 09/17/20 20:26
 Container ID: 1209636002-A

Prep Batch: XXX43862
 Prep Method: SW3520C
 Prep Date/Time: 09/15/20 14:44
 Prep Initial Wt./Vol.: 270 mL
 Prep Extract Vol: 1 mL

Results of MW-16

Client Sample ID: **MW-16**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636002
 Lab Project ID: 1209636

Collection Date: 09/03/20 15:20
 Received Date: 09/09/20 09:11
 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>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Gasoline Range Organics	6.73		0.500	0.155	mg/L	5		09/14/20 13:58
Surrogates								
4-Bromofluorobenzene (surr)	157	*	50-150		%	5		09/14/20 13:58

Batch Information

Analytical Batch: VFC15343
 Analytical Method: AK101
 Analyst: ALJ
 Analytical Date/Time: 09/14/20 13:58
 Container ID: 1209636002-C

Prep Batch: VXX36345
 Prep Method: SW5030B
 Prep Date/Time: 09/14/20 06:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL



Results of MW-16

Client Sample ID: MW-16
Client Project ID: Seekins
Lab Sample ID: 1209636002
Lab Project ID: 1209636

Collection Date: 09/03/20 15:20
Received Date: 09/09/20 09:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.



Results of MW-16

Client Sample ID: MW-16
Client Project ID: Seekins
Lab Sample ID: 1209636002
Lab Project ID: 1209636

Collection Date: 09/03/20 15:20
Received Date: 09/09/20 09:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Results of MW-16

Client Sample ID: **MW-16**
Client Project ID: **Seekins**
Lab Sample ID: 1209636002
Lab Project ID: 1209636

Collection Date: 09/03/20 15:20
Received Date: 09/09/20 09:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20294
Analytical Method: SW8260D
Analyst: NRB
Analytical Date/Time: 09/09/20 21:48
Container ID: 1209636002-F

Prep Batch: VXX36308
Prep Method: SW5030B
Prep Date/Time: 09/09/20 13:30
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of MW-2

Client Sample ID: **MW-2**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636003
 Lab Project ID: 1209636

Collection Date: 09/03/20 16:15
 Received Date: 09/09/20 09:11
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Semivolatile Organic Fuels

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Diesel Range Organics	1.29	0.556	0.167	mg/L	1		09/17/20 20:37
Surrogates							
5a Androstane (surr)	100	50-150		%	1		09/17/20 20:37

Batch Information

Analytical Batch: XFC15743
 Analytical Method: AK102
 Analyst: CDM
 Analytical Date/Time: 09/17/20 20:37
 Container ID: 1209636003-A

Prep Batch: XXX43862
 Prep Method: SW3520C
 Prep Date/Time: 09/15/20 14:44
 Prep Initial Wt./Vol.: 270 mL
 Prep Extract Vol: 1 mL

Results of MW-2

Client Sample ID: **MW-2**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636003
 Lab Project ID: 1209636

Collection Date: 09/03/20 16:15
 Received Date: 09/09/20 09:11
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile Fuels

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Gasoline Range Organics	0.0500 U	0.100	0.0310	mg/L	1		09/14/20 19:06
Surrogates							
4-Bromofluorobenzene (surr)	80.5	50-150		%	1		09/14/20 19:06

Batch Information

Analytical Batch: VFC15343
 Analytical Method: AK101
 Analyst: ALJ
 Analytical Date/Time: 09/14/20 19:06
 Container ID: 1209636003-C

Prep Batch: VXX36345
 Prep Method: SW5030B
 Prep Date/Time: 09/14/20 06:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL



Results of MW-2

Client Sample ID: MW-2
Client Project ID: Seekins
Lab Sample ID: 1209636003
Lab Project ID: 1209636

Collection Date: 09/03/20 16:15
Received Date: 09/09/20 09:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.



Results of MW-2

Client Sample ID: **MW-2**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636003
 Lab Project ID: 1209636

Collection Date: 09/03/20 16:15
 Received Date: 09/09/20 09:11
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Chloroform	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
Chloromethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
cis-1,2-Dichloroethene	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
cis-1,3-Dichloropropene	0.250 U	0.500	0.150	ug/L	1		09/09/20 19:51
Dibromochloromethane	0.250 U	0.500	0.150	ug/L	1		09/09/20 19:51
Dibromomethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
Dichlorodifluoromethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
Ethylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
Freon-113	5.00 U	10.0	3.10	ug/L	1		09/09/20 19:51
Hexachlorobutadiene	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
Isopropylbenzene (Cumene)	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
Methylene chloride	5.00 U	10.0	3.10	ug/L	1		09/09/20 19:51
Methyl-t-butyl ether	5.00 U	10.0	3.10	ug/L	1		09/09/20 19:51
Naphthalene	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
n-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
n-Propylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
o-Xylene	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
P & M -Xylene	1.00 U	2.00	0.620	ug/L	1		09/09/20 19:51
sec-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
Styrene	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
tert-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
Tetrachloroethene	2.82	1.00	0.310	ug/L	1		09/09/20 19:51
Toluene	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
trans-1,2-Dichloroethene	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
trans-1,3-Dichloropropene	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
Trichloroethene	0.500 U	1.00	0.310	ug/L	1		09/09/20 19:51
Trichlorofluoromethane	3.07	1.00	0.310	ug/L	1		09/09/20 19:51
Vinyl acetate	5.00 U	10.0	3.10	ug/L	1		09/09/20 19:51
Vinyl chloride	0.0750 U	0.150	0.0500	ug/L	1		09/09/20 19:51
Xylenes (total)	1.50 U	3.00	1.00	ug/L	1		09/09/20 19:51
Surrogates							
1,2-Dichloroethane-D4 (surr)	104	81-118		%	1		09/09/20 19:51
4-Bromofluorobenzene (surr)	102	85-114		%	1		09/09/20 19:51
Toluene-d8 (surr)	99.6	89-112		%	1		09/09/20 19:51

Results of MW-2

Client Sample ID: **MW-2**
Client Project ID: **Seekins**
Lab Sample ID: 1209636003
Lab Project ID: 1209636

Collection Date: 09/03/20 16:15
Received Date: 09/09/20 09:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20294
Analytical Method: SW8260D
Analyst: NRB
Analytical Date/Time: 09/09/20 19:51
Container ID: 1209636003-F

Prep Batch: VXX36308
Prep Method: SW5030B
Prep Date/Time: 09/09/20 13:30
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of MW-3

Client Sample ID: **MW-3**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636004
 Lab Project ID: 1209636

Collection Date: 09/03/20 17:00
 Received Date: 09/09/20 09:11
 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>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Diesel Range Organics	1.89		0.556	0.167	mg/L	1		09/17/20 20:47
Surrogates								
5a Androstane (surr)	94.4		50-150		%	1		09/17/20 20:47

Batch Information

Analytical Batch: XFC15743
 Analytical Method: AK102
 Analyst: CDM
 Analytical Date/Time: 09/17/20 20:47
 Container ID: 1209636004-A

Prep Batch: XXX43862
 Prep Method: SW3520C
 Prep Date/Time: 09/15/20 14:44
 Prep Initial Wt./Vol.: 270 mL
 Prep Extract Vol: 1 mL

Results of MW-3

Client Sample ID: **MW-3**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636004
 Lab Project ID: 1209636

Collection Date: 09/03/20 17:00
 Received Date: 09/09/20 09:11
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile Fuels

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Gasoline Range Organics	0.0500 U	0.100	0.0310	mg/L	1		09/14/20 18:48
Surrogates							
4-Bromofluorobenzene (surr)	82.4	50-150		%	1		09/14/20 18:48

Batch Information

Analytical Batch: VFC15343
 Analytical Method: AK101
 Analyst: ALJ
 Analytical Date/Time: 09/14/20 18:48
 Container ID: 1209636004-C

Prep Batch: VXX36345
 Prep Method: SW5030B
 Prep Date/Time: 09/14/20 06:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL



Results of MW-3

Client Sample ID: MW-3
Client Project ID: Seekins
Lab Sample ID: 1209636004
Lab Project ID: 1209636

Collection Date: 09/03/20 17:00
Received Date: 09/09/20 09:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
1,1,1,2-Tetrachloroethane	0.250 U	0.500	0.150	ug/L	1		09/09/20 20:05
1,1,1-Trichloroethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
1,1,2,2-Tetrachloroethane	0.250 U	0.500	0.150	ug/L	1		09/09/20 20:05
1,1,2-Trichloroethane	0.200 U	0.400	0.120	ug/L	1		09/09/20 20:05
1,1-Dichloroethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
1,1-Dichloroethene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
1,1-Dichloropropene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
1,2,3-Trichlorobenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
1,2,3-Trichloropropane	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
1,2,4-Trichlorobenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
1,2,4-Trimethylbenzene	1.28	1.00	0.310	ug/L	1		09/09/20 20:05
1,2-Dibromo-3-chloropropane	5.00 U	10.0	3.10	ug/L	1		09/09/20 20:05
1,2-Dibromoethane	0.0375 U	0.0750	0.0180	ug/L	1		09/09/20 20:05
1,2-Dichlorobenzene	4.48	1.00	0.310	ug/L	1		09/09/20 20:05
1,2-Dichloroethane	0.250 U	0.500	0.150	ug/L	1		09/09/20 20:05
1,2-Dichloropropane	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
1,3,5-Trimethylbenzene	0.702 J	1.00	0.310	ug/L	1		09/09/20 20:05
1,3-Dichlorobenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
1,3-Dichloropropane	0.250 U	0.500	0.150	ug/L	1		09/09/20 20:05
1,4-Dichlorobenzene	0.244 J	0.500	0.150	ug/L	1		09/09/20 20:05
2,2-Dichloropropane	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
2-Butanone (MEK)	5.00 U	10.0	3.10	ug/L	1		09/09/20 20:05
2-Chlorotoluene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
2-Hexanone	5.00 U	10.0	3.10	ug/L	1		09/09/20 20:05
4-Chlorotoluene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
4-Isopropyltoluene	0.755 J	1.00	0.310	ug/L	1		09/09/20 20:05
4-Methyl-2-pentanone (MIBK)	5.00 U	10.0	3.10	ug/L	1		09/09/20 20:05
Benzene	0.200 U	0.400	0.120	ug/L	1		09/09/20 20:05
Bromobenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
Bromochloromethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
Bromodichloromethane	0.250 U	0.500	0.150	ug/L	1		09/09/20 20:05
Bromoform	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
Bromomethane	2.50 U	5.00	2.00	ug/L	1		09/09/20 20:05
Carbon disulfide	5.00 U	10.0	3.10	ug/L	1		09/09/20 20:05
Carbon tetrachloride	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
Chlorobenzene	0.250 U	0.500	0.150	ug/L	1		09/09/20 20:05
Chloroethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05

Print Date: 09/18/2020 4:18:35PM

J flagging is activated



Results of MW-3

Client Sample ID: **MW-3**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636004
 Lab Project ID: 1209636

Collection Date: 09/03/20 17:00
 Received Date: 09/09/20 09:11
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Chloroform	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
Chloromethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
cis-1,2-Dichloroethene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
cis-1,3-Dichloropropene	0.250 U	0.500	0.150	ug/L	1		09/09/20 20:05
Dibromochloromethane	0.250 U	0.500	0.150	ug/L	1		09/09/20 20:05
Dibromomethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
Dichlorodifluoromethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
Ethylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
Freon-113	5.00 U	10.0	3.10	ug/L	1		09/09/20 20:05
Hexachlorobutadiene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
Isopropylbenzene (Cumene)	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
Methylene chloride	5.00 U	10.0	3.10	ug/L	1		09/09/20 20:05
Methyl-t-butyl ether	5.00 U	10.0	3.10	ug/L	1		09/09/20 20:05
Naphthalene	1.50	1.00	0.310	ug/L	1		09/09/20 20:05
n-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
n-Propylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
o-Xylene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
P & M -Xylene	1.00 U	2.00	0.620	ug/L	1		09/09/20 20:05
sec-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
Styrene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
tert-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
Tetrachloroethene	0.802 J	1.00	0.310	ug/L	1		09/09/20 20:05
Toluene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
trans-1,2-Dichloroethene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
trans-1,3-Dichloropropene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
Trichloroethene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
Trichlorofluoromethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:05
Vinyl acetate	5.00 U	10.0	3.10	ug/L	1		09/09/20 20:05
Vinyl chloride	0.0750 U	0.150	0.0500	ug/L	1		09/09/20 20:05
Xylenes (total)	1.50 U	3.00	1.00	ug/L	1		09/09/20 20:05
Surrogates							
1,2-Dichloroethane-D4 (surr)	101	81-118		%	1		09/09/20 20:05
4-Bromofluorobenzene (surr)	100	85-114		%	1		09/09/20 20:05
Toluene-d8 (surr)	99.2	89-112		%	1		09/09/20 20:05

Results of MW-3

Client Sample ID: **MW-3**
Client Project ID: **Seekins**
Lab Sample ID: 1209636004
Lab Project ID: 1209636

Collection Date: 09/03/20 17:00
Received Date: 09/09/20 09:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20294
Analytical Method: SW8260D
Analyst: NRB
Analytical Date/Time: 09/09/20 20:05
Container ID: 1209636004-F

Prep Batch: VXX36308
Prep Method: SW5030B
Prep Date/Time: 09/09/20 13:30
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of MW-7

Client Sample ID: **MW-7**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636005
 Lab Project ID: 1209636

Collection Date: 09/03/20 17:30
 Received Date: 09/09/20 09:11
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Semivolatile Organic Fuels

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Diesel Range Organics	0.173 J	0.556	0.167	mg/L	1		09/17/20 20:57
Surrogates							
5a Androstane (surr)	93.4	50-150		%	1		09/17/20 20:57

Batch Information

Analytical Batch: XFC15743
 Analytical Method: AK102
 Analyst: CDM
 Analytical Date/Time: 09/17/20 20:57
 Container ID: 1209636005-A

Prep Batch: XXX43862
 Prep Method: SW3520C
 Prep Date/Time: 09/15/20 14:44
 Prep Initial Wt./Vol.: 270 mL
 Prep Extract Vol: 1 mL

Results of MW-7

Client Sample ID: **MW-7**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636005
 Lab Project ID: 1209636

Collection Date: 09/03/20 17:30
 Received Date: 09/09/20 09:11
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile Fuels

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Gasoline Range Organics	0.0500 U	0.100	0.0310	mg/L	1		09/14/20 18:11
Surrogates							
4-Bromofluorobenzene (surr)	80.2	50-150		%	1		09/14/20 18:11

Batch Information

Analytical Batch: VFC15343
 Analytical Method: AK101
 Analyst: ALJ
 Analytical Date/Time: 09/14/20 18:11
 Container ID: 1209636005-C

Prep Batch: VXX36345
 Prep Method: SW5030B
 Prep Date/Time: 09/14/20 06:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL



Results of MW-7

Client Sample ID: MW-7
Client Project ID: Seekins
Lab Sample ID: 1209636005
Lab Project ID: 1209636

Collection Date: 09/03/20 17:30
Received Date: 09/09/20 09:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.



Results of MW-7

Client Sample ID: **MW-7**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636005
 Lab Project ID: 1209636

Collection Date: 09/03/20 17:30
 Received Date: 09/09/20 09:11
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Chloroform	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
Chloromethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
cis-1,2-Dichloroethene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
cis-1,3-Dichloropropene	0.250 U	0.500	0.150	ug/L	1		09/09/20 20:20
Dibromochloromethane	0.250 U	0.500	0.150	ug/L	1		09/09/20 20:20
Dibromomethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
Dichlorodifluoromethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
Ethylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
Freon-113	5.00 U	10.0	3.10	ug/L	1		09/09/20 20:20
Hexachlorobutadiene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
Isopropylbenzene (Cumene)	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
Methylene chloride	5.00 U	10.0	3.10	ug/L	1		09/09/20 20:20
Methyl-t-butyl ether	5.00 U	10.0	3.10	ug/L	1		09/09/20 20:20
Naphthalene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
n-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
n-Propylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
o-Xylene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
P & M -Xylene	1.00 U	2.00	0.620	ug/L	1		09/09/20 20:20
sec-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
Styrene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
tert-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
Tetrachloroethene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
Toluene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
trans-1,2-Dichloroethene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
trans-1,3-Dichloropropene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
Trichloroethene	0.500 U	1.00	0.310	ug/L	1		09/09/20 20:20
Trichlorofluoromethane	6.07	1.00	0.310	ug/L	1		09/09/20 20:20
Vinyl acetate	5.00 U	10.0	3.10	ug/L	1		09/09/20 20:20
Vinyl chloride	0.0750 U	0.150	0.0500	ug/L	1		09/09/20 20:20
Xylenes (total)	1.50 U	3.00	1.00	ug/L	1		09/09/20 20:20
Surrogates							
1,2-Dichloroethane-D4 (surr)	102	81-118		%	1		09/09/20 20:20
4-Bromofluorobenzene (surr)	101	85-114		%	1		09/09/20 20:20
Toluene-d8 (surr)	99.7	89-112		%	1		09/09/20 20:20

Results of MW-7

Client Sample ID: **MW-7**
Client Project ID: **Seekins**
Lab Sample ID: 1209636005
Lab Project ID: 1209636

Collection Date: 09/03/20 17:30
Received Date: 09/09/20 09:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20294
Analytical Method: SW8260D
Analyst: NRB
Analytical Date/Time: 09/09/20 20:20
Container ID: 1209636005-F

Prep Batch: VXX36308
Prep Method: SW5030B
Prep Date/Time: 09/09/20 13:30
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of Trip Blank

Client Sample ID: **Trip Blank**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636006
 Lab Project ID: 1209636

Collection Date: 09/03/20 15:15
 Received Date: 09/09/20 09:11
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile Fuels

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Gasoline Range Organics	0.0500 U	0.100	0.0310	mg/L	1		09/14/20 12:27
Surrogates							
4-Bromofluorobenzene (surr)	68.2	50-150		%	1		09/14/20 12:27

Batch Information

Analytical Batch: VFC15343
 Analytical Method: AK101
 Analyst: ALJ
 Analytical Date/Time: 09/14/20 12:27
 Container ID: 1209636006-A

Prep Batch: VXX36345
 Prep Method: SW5030B
 Prep Date/Time: 09/14/20 06:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL



Results of Trip Blank

Client Sample ID: **Trip Blank**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636006
 Lab Project ID: 1209636

Collection Date: 09/03/20 15:15
 Received Date: 09/09/20 09:11
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
1,1,1,2-Tetrachloroethane	0.250 U	0.500	0.150	ug/L	1		09/09/20 17:05
1,1,1-Trichloroethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
1,1,2,2-Tetrachloroethane	0.250 U	0.500	0.150	ug/L	1		09/09/20 17:05
1,1,2-Trichloroethane	0.200 U	0.400	0.120	ug/L	1		09/09/20 17:05
1,1-Dichloroethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
1,1-Dichloroethene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
1,1-Dichloropropene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
1,2,3-Trichlorobenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
1,2,3-Trichloropropane	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
1,2,4-Trichlorobenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
1,2,4-Trimethylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
1,2-Dibromo-3-chloropropane	5.00 U	10.0	3.10	ug/L	1		09/09/20 17:05
1,2-Dibromoethane	0.0375 U	0.0750	0.0180	ug/L	1		09/09/20 17:05
1,2-Dichlorobenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
1,2-Dichloroethane	0.250 U	0.500	0.150	ug/L	1		09/09/20 17:05
1,2-Dichloropropane	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
1,3,5-Trimethylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
1,3-Dichlorobenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
1,3-Dichloropropane	0.250 U	0.500	0.150	ug/L	1		09/09/20 17:05
1,4-Dichlorobenzene	0.250 U	0.500	0.150	ug/L	1		09/09/20 17:05
2,2-Dichloropropane	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
2-Butanone (MEK)	5.00 U	10.0	3.10	ug/L	1		09/09/20 17:05
2-Chlorotoluene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
2-Hexanone	5.00 U	10.0	3.10	ug/L	1		09/09/20 17:05
4-Chlorotoluene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
4-Isopropyltoluene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
4-Methyl-2-pentanone (MIBK)	5.00 U	10.0	3.10	ug/L	1		09/09/20 17:05
Benzene	0.200 U	0.400	0.120	ug/L	1		09/09/20 17:05
Bromobenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
Bromochloromethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
Bromodichloromethane	0.250 U	0.500	0.150	ug/L	1		09/09/20 17:05
Bromoform	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
Bromomethane	2.50 U	5.00	2.00	ug/L	1		09/09/20 17:05
Carbon disulfide	5.00 U	10.0	3.10	ug/L	1		09/09/20 17:05
Carbon tetrachloride	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
Chlorobenzene	0.250 U	0.500	0.150	ug/L	1		09/09/20 17:05
Chloroethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05

Print Date: 09/18/2020 4:18:35PM

J flagging is activated



Results of Trip Blank

Client Sample ID: **Trip Blank**
 Client Project ID: **Seekins**
 Lab Sample ID: 1209636006
 Lab Project ID: 1209636

Collection Date: 09/03/20 15:15
 Received Date: 09/09/20 09:11
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Chloroform	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
Chloromethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
cis-1,2-Dichloroethene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
cis-1,3-Dichloropropene	0.250 U	0.500	0.150	ug/L	1		09/09/20 17:05
Dibromochloromethane	0.250 U	0.500	0.150	ug/L	1		09/09/20 17:05
Dibromomethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
Dichlorodifluoromethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
Ethylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
Freon-113	5.00 U	10.0	3.10	ug/L	1		09/09/20 17:05
Hexachlorobutadiene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
Isopropylbenzene (Cumene)	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
Methylene chloride	5.00 U	10.0	3.10	ug/L	1		09/09/20 17:05
Methyl-t-butyl ether	5.00 U	10.0	3.10	ug/L	1		09/09/20 17:05
Naphthalene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
n-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
n-Propylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
o-Xylene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
P & M -Xylene	1.00 U	2.00	0.620	ug/L	1		09/09/20 17:05
sec-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
Styrene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
tert-Butylbenzene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
Tetrachloroethene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
Toluene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
trans-1,2-Dichloroethene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
trans-1,3-Dichloropropene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
Trichloroethene	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
Trichlorofluoromethane	0.500 U	1.00	0.310	ug/L	1		09/09/20 17:05
Vinyl acetate	5.00 U	10.0	3.10	ug/L	1		09/09/20 17:05
Vinyl chloride	0.0750 U	0.150	0.0500	ug/L	1		09/09/20 17:05
Xylenes (total)	1.50 U	3.00	1.00	ug/L	1		09/09/20 17:05
Surrogates							
1,2-Dichloroethane-D4 (surr)	104	81-118		%	1		09/09/20 17:05
4-Bromofluorobenzene (surr)	100	85-114		%	1		09/09/20 17:05
Toluene-d8 (surr)	99.6	89-112		%	1		09/09/20 17:05

Results of Trip Blank

Client Sample ID: **Trip Blank**
Client Project ID: **Seekins**
Lab Sample ID: 1209636006
Lab Project ID: 1209636

Collection Date: 09/03/20 15:15
Received Date: 09/09/20 09:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20294
Analytical Method: SW8260D
Analyst: NRB
Analytical Date/Time: 09/09/20 17:05
Container ID: 1209636006-D

Prep Batch: VXX36308
Prep Method: SW5030B
Prep Date/Time: 09/09/20 13:30
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL



Method Blank

Blank ID: MB for HBN 1811486 [VXX/36308]
Blank Lab ID: 1580234

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1209636001, 1209636002, 1209636003, 1209636004, 1209636005, 1209636006

Results by SW8260D

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
1,1,1,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,1-Trichloroethane	0.500U	1.00	0.310	ug/L
1,1,2,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,2-Trichloroethane	0.200U	0.400	0.120	ug/L
1,1-Dichloroethane	0.500U	1.00	0.310	ug/L
1,1-Dichloroethene	0.500U	1.00	0.310	ug/L
1,1-Dichloropropene	0.500U	1.00	0.310	ug/L
1,2,3-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,3-Trichloropropane	0.500U	1.00	0.310	ug/L
1,2,4-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,4-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,2-Dibromo-3-chloropropane	5.00U	10.0	3.10	ug/L
1,2-Dibromoethane	0.0375U	0.0750	0.0180	ug/L
1,2-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,2-Dichloroethane	0.250U	0.500	0.150	ug/L
1,2-Dichloropropane	0.500U	1.00	0.310	ug/L
1,3,5-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,3-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,3-Dichloropropane	0.250U	0.500	0.150	ug/L
1,4-Dichlorobenzene	0.250U	0.500	0.150	ug/L
2,2-Dichloropropane	0.500U	1.00	0.310	ug/L
2-Butanone (MEK)	5.00U	10.0	3.10	ug/L
2-Chlorotoluene	0.500U	1.00	0.310	ug/L
2-Hexanone	5.00U	10.0	3.10	ug/L
4-Chlorotoluene	0.500U	1.00	0.310	ug/L
4-Isopropyltoluene	0.500U	1.00	0.310	ug/L
4-Methyl-2-pentanone (MIBK)	5.00U	10.0	3.10	ug/L
Benzene	0.200U	0.400	0.120	ug/L
Bromobenzene	0.500U	1.00	0.310	ug/L
Bromochloromethane	0.500U	1.00	0.310	ug/L
Bromodichloromethane	0.250U	0.500	0.150	ug/L
Bromoform	0.500U	1.00	0.310	ug/L
Bromomethane	2.50U	5.00	2.00	ug/L
Carbon disulfide	5.00U	10.0	3.10	ug/L
Carbon tetrachloride	0.500U	1.00	0.310	ug/L
Chlorobenzene	0.250U	0.500	0.150	ug/L
Chloroethane	0.500U	1.00	0.310	ug/L
Chloroform	0.500U	1.00	0.310	ug/L

Print Date: 09/18/2020 4:18:39PM

Method Blank

Blank ID: MB for HBN 1811486 [VXX/36308]

Matrix: Water (Surface, Eff., Ground)

Blank Lab ID: 1580234

QC for Samples:

1209636001, 1209636002, 1209636003, 1209636004, 1209636005, 1209636006

Results by SW8260D

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Chloromethane	0.500U	1.00	0.310	ug/L
cis-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
cis-1,3-Dichloropropene	0.250U	0.500	0.150	ug/L
Dibromochloromethane	0.250U	0.500	0.150	ug/L
Dibromomethane	0.500U	1.00	0.310	ug/L
Dichlorodifluoromethane	0.500U	1.00	0.310	ug/L
Ethylbenzene	0.500U	1.00	0.310	ug/L
Freon-113	5.00U	10.0	3.10	ug/L
Hexachlorobutadiene	0.500U	1.00	0.310	ug/L
Isopropylbenzene (Cumene)	0.500U	1.00	0.310	ug/L
Methylene chloride	5.00U	10.0	3.10	ug/L
Methyl-t-butyl ether	5.00U	10.0	3.10	ug/L
Naphthalene	0.500U	1.00	0.310	ug/L
n-Butylbenzene	0.500U	1.00	0.310	ug/L
n-Propylbenzene	0.500U	1.00	0.310	ug/L
o-Xylene	0.500U	1.00	0.310	ug/L
P & M -Xylene	1.00U	2.00	0.620	ug/L
sec-Butylbenzene	0.500U	1.00	0.310	ug/L
Styrene	0.500U	1.00	0.310	ug/L
tert-Butylbenzene	0.500U	1.00	0.310	ug/L
Tetrachloroethene	0.500U	1.00	0.310	ug/L
Toluene	0.500U	1.00	0.310	ug/L
trans-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
trans-1,3-Dichloropropene	0.500U	1.00	0.310	ug/L
Trichloroethene	0.500U	1.00	0.310	ug/L
Trichlorofluoromethane	0.500U	1.00	0.310	ug/L
Vinyl acetate	5.00U	10.0	3.10	ug/L
Vinyl chloride	0.0750U	0.150	0.0500	ug/L
Xylenes (total)	1.50U	3.00	1.00	ug/L
Surrogates				
1,2-Dichloroethane-D4 (surr)	102	81-118		%
4-Bromofluorobenzene (surr)	99.9	85-114		%
Toluene-d8 (surr)	99.7	89-112		%



Method Blank

Blank ID: MB for HBN 1811486 [VXX/36308]
Blank Lab ID: 1580234

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1209636001, 1209636002, 1209636003, 1209636004, 1209636005, 1209636006

Results by SW8260D

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
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Batch Information

Analytical Batch: VMS20294
Analytical Method: SW8260D
Instrument: Agilent 7890-75MS
Analyst: NRB
Analytical Date/Time: 9/9/2020 1:55:00PM

Prep Batch: VXX36308
Prep Method: SW5030B
Prep Date/Time: 9/9/2020 1:30:00PM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 09/18/2020 4:18:39PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1209636 [VXX36308]
 Blank Spike Lab ID: 1580235
 Date Analyzed: 09/09/2020 14:09

Spike Duplicate ID: LCSD for HBN 1209636 [VXX36308]
 Spike Duplicate Lab ID: 1580236
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1209636001, 1209636002, 1209636003, 1209636004, 1209636005, 1209636006

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	29.8	99	30	29.2	98	(78-124)	1.90	(< 20)
1,1,1-Trichloroethane	30	28.8	96	30	29.1	97	(74-131)	0.98	(< 20)
1,1,2,2-Tetrachloroethane	30	31.8	106	30	32.5	108	(71-121)	2.30	(< 20)
1,1,2-Trichloroethane	30	30.6	102	30	30.5	102	(80-119)	0.12	(< 20)
1,1-Dichloroethane	30	31.4	105	30	32.4	108	(77-125)	3.00	(< 20)
1,1-Dichloroethene	30	34.3	114	30	34.8	116	(71-131)	1.50	(< 20)
1,1-Dichloropropene	30	30.3	101	30	30.6	102	(79-125)	0.91	(< 20)
1,2,3-Trichlorobenzene	30	28.8	96	30	31.2	104	(69-129)	8.20	(< 20)
1,2,3-Trichloropropane	30	29.9	100	30	30.3	101	(73-122)	1.10	(< 20)
1,2,4-Trichlorobenzene	30	28.3	94	30	31.5	105	(69-130)	10.60	(< 20)
1,2,4-Trimethylbenzene	30	28.2	94	30	30.1	100	(79-124)	6.50	(< 20)
1,2-Dibromo-3-chloropropane	30	28.9	97	30	30.0	100	(62-128)	3.50	(< 20)
1,2-Dibromoethane	30	29.9	100	30	30.1	100	(77-121)	0.58	(< 20)
1,2-Dichlorobenzene	30	29.4	98	30	30.4	101	(80-119)	3.30	(< 20)
1,2-Dichloroethane	30	28.5	95	30	29.5	99	(73-128)	3.60	(< 20)
1,2-Dichloropropane	30	32.0	107	30	32.8	109	(78-122)	2.40	(< 20)
1,3,5-Trimethylbenzene	30	29.3	98	30	30.5	102	(75-124)	3.90	(< 20)
1,3-Dichlorobenzene	30	30.4	101	30	30.8	103	(80-119)	1.50	(< 20)
1,3-Dichloropropane	30	30.8	103	30	30.9	103	(80-119)	0.39	(< 20)
1,4-Dichlorobenzene	30	29.7	99	30	30.7	102	(79-118)	3.10	(< 20)
2,2-Dichloropropane	30	30.9	103	30	31.2	104	(60-139)	1.00	(< 20)
2-Butanone (MEK)	90	92.9	103	90	94.4	105	(56-143)	1.60	(< 20)
2-Chlorotoluene	30	31.8	106	30	31.7	106	(79-122)	0.38	(< 20)
2-Hexanone	90	85.3	95	90	87.5	97	(57-139)	2.60	(< 20)
4-Chlorotoluene	30	31.2	104	30	31.7	106	(78-122)	1.40	(< 20)
4-Isopropyltoluene	30	29.3	98	30	31.5	105	(77-127)	7.10	(< 20)
4-Methyl-2-pentanone (MIBK)	90	87.4	97	90	89.8	100	(67-130)	2.70	(< 20)
Benzene	30	31.1	104	30	31.5	105	(79-120)	1.10	(< 20)
Bromobenzene	30	29.4	98	30	30.3	101	(80-120)	2.90	(< 20)
Bromochloromethane	30	28.8	96	30	29.8	99	(78-123)	3.60	(< 20)
Bromodichloromethane	30	30.5	102	30	31.5	105	(79-125)	3.30	(< 20)
Bromoform	30	29.1	97	30	29.4	98	(66-130)	1.20	(< 20)
Bromomethane	30	23.9	80	30	24.8	83	(53-141)	3.50	(< 20)
Carbon disulfide	45	45.7	102	45	45.6	101	(64-133)	0.33	(< 20)

Print Date: 09/18/2020 4:18:42PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1209636 [VXX36308]
 Blank Spike Lab ID: 1580235
 Date Analyzed: 09/09/2020 14:09

Spike Duplicate ID: LCSD for HBN 1209636 [VXX36308]
 Spike Duplicate Lab ID: 1580236
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1209636001, 1209636002, 1209636003, 1209636004, 1209636005, 1209636006

Results by SW8260D

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Carbon tetrachloride	30	30.3	101	30	30.5	102	(72-136)	0.82	(< 20)
Chlorobenzene	30	29.0	97	30	29.0	97	(82-118)	0.03	(< 20)
Chloroethane	30	30.5	102	30	26.7	89	(60-138)	13.10	(< 20)
Chloroform	30	28.6	95	30	29.2	97	(79-124)	2.30	(< 20)
Chloromethane	30	27.6	92	30	28.1	94	(50-139)	1.60	(< 20)
cis-1,2-Dichloroethene	30	30.6	102	30	31.7	106	(78-123)	3.40	(< 20)
cis-1,3-Dichloropropene	30	30.6	102	30	31.8	106	(75-124)	3.80	(< 20)
Dibromochloromethane	30	30.0	100	30	30.2	101	(74-126)	0.61	(< 20)
Dibromomethane	30	30.3	101	30	31.5	105	(79-123)	3.70	(< 20)
Dichlorodifluoromethane	30	25.9	87	30	25.7	86	(32-152)	1.00	(< 20)
Ethylbenzene	30	32.2	107	30	31.4	105	(79-121)	2.50	(< 20)
Freon-113	45	45.3	101	45	45.4	101	(70-136)	0.21	(< 20)
Hexachlorobutadiene	30	31.3	104	30	33.8	113	(66-134)	7.60	(< 20)
Isopropylbenzene (Cumene)	30	32.4	108	30	32.4	108	(72-131)	0.07	(< 20)
Methylene chloride	30	31.3	104	30	32.5	108	(74-124)	3.80	(< 20)
Methyl-t-butyl ether	45	44.8	100	45	46.3	103	(71-124)	3.30	(< 20)
Naphthalene	30	25.5	85	30	28.4	95	(61-128)	10.80	(< 20)
n-Butylbenzene	30	33.7	112	30	36.1	120	(75-128)	6.90	(< 20)
n-Propylbenzene	30	32.9	110	30	33.4	111	(76-126)	1.50	(< 20)
o-Xylene	30	33.3	111	30	33.4	111	(78-122)	0.37	(< 20)
P & M -Xylene	60	66.0	110	60	66.7	111	(80-121)	0.98	(< 20)
sec-Butylbenzene	30	32.3	108	30	34.4	115	(77-126)	6.30	(< 20)
Styrene	30	28.8	96	30	30.3	101	(78-123)	5.30	(< 20)
tert-Butylbenzene	30	31.1	104	30	32.2	107	(78-124)	3.70	(< 20)
Tetrachloroethene	30	29.8	99	30	29.0	97	(74-129)	2.50	(< 20)
Toluene	30	29.7	99	30	29.3	98	(80-121)	1.50	(< 20)
trans-1,2-Dichloroethene	30	31.6	105	30	32.1	107	(75-124)	1.30	(< 20)
trans-1,3-Dichloropropene	30	31.3	104	30	31.6	105	(73-127)	1.10	(< 20)
Trichloroethene	30	30.5	102	30	30.6	102	(79-123)	0.22	(< 20)
Trichlorofluoromethane	30	29.6	99	30	29.1	97	(65-141)	1.80	(< 20)
Vinyl acetate	30	33.1	110	30	34.9	116	(54-146)	5.30	(< 20)
Vinyl chloride	30	28.3	94	30	28.2	94	(58-137)	0.62	(< 20)
Xylenes (total)	90	99.4	110	90	100	111	(79-121)	0.77	(< 20)

Blank Spike Summary

Blank Spike ID: LCS for HBN 1209636 [VXX36308]
 Blank Spike Lab ID: 1580235
 Date Analyzed: 09/09/2020 14:09

Spike Duplicate ID: LCSD for HBN 1209636 [VXX36308]
 Spike Duplicate Lab ID: 1580236
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1209636001, 1209636002, 1209636003, 1209636004, 1209636005, 1209636006

Results by SW8260D

Parameter	Blank Spike (%)			Spike Duplicate (%)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Surrogates									
1,2-Dichloroethane-D4 (surr)	30	95.8	96	30	96.7	97	(81-118)	0.98	
4-Bromofluorobenzene (surr)	30	101	101	30	101	101	(85-114)	0.18	
Toluene-d8 (surr)	30	99	99	30	97.9	98	(89-112)	1.10	

Batch Information

Analytical Batch: **VMS20294**
 Analytical Method: **SW8260D**
 Instrument: **Agilent 7890-75MS**
 Analyst: **NRB**

Prep Batch: **VXX36308**
 Prep Method: **SW5030B**
 Prep Date/Time: **09/09/2020 13:30**
 Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

Method Blank

Blank ID: MB for HBN 1811680 [VXX/36345]
 Blank Lab ID: 1581163

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
 1209636001, 1209636002, 1209636003, 1209636004, 1209636005, 1209636006

Results by AK101

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Gasoline Range Organics	0.0500U	0.100	0.0310	mg/L
Surrogates				
4-Bromofluorobenzene (surr)	86.7	50-150		%

Batch Information

Analytical Batch: VFC15343
 Analytical Method: AK101
 Instrument: Agilent 7890 PID/FID
 Analyst: ALJ
 Analytical Date/Time: 9/14/2020 10:44:00AM

Prep Batch: VXX36345
 Prep Method: SW5030B
 Prep Date/Time: 9/14/2020 6:00:00AM
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1209636 [VXX36345]
 Blank Spike Lab ID: 1581164
 Date Analyzed: 09/14/2020 11:39

Spike Duplicate ID: LCSD for HBN 1209636 [VXX36345]
 Spike Duplicate Lab ID: 1581165
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1209636001, 1209636002, 1209636003, 1209636004, 1209636005, 1209636006

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	0.969	97	1.00	0.926	93	(60-120)	4.60	(< 20)

Surrogates

4-Bromofluorobenzene (surr)	0.0500	88.6	89	0.0500	91.8	92	(50-150)	3.50	
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Batch Information

Analytical Batch: **VFC15343**
 Analytical Method: **AK101**
 Instrument: **Agilent 7890 PID/FID**
 Analyst: **ALJ**

Prep Batch: **VXX36345**
 Prep Method: **SW5030B**
 Prep Date/Time: **09/14/2020 06:00**
 Spike Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL

Method Blank

Blank ID: MB for HBN 1811701 [XXX/43862]
 Blank Lab ID: 1581261

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
 1209636001, 1209636002, 1209636003, 1209636004, 1209636005

Results by AK102

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Diesel Range Organics	0.300U	0.600	0.180	mg/L
Surrogates				
5a Androstane (surr)	95.2	60-120		%

Batch Information

Analytical Batch: XFC15743
 Analytical Method: AK102
 Instrument: Agilent 7890B F
 Analyst: CDM
 Analytical Date/Time: 9/17/2020 4:49:00PM

Prep Batch: XXX43862
 Prep Method: SW3520C
 Prep Date/Time: 9/15/2020 2:44:21PM
 Prep Initial Wt./Vol.: 250 mL
 Prep Extract Vol: 1 mL

Print Date: 09/18/2020 4:18:49PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1209636 [XXX43862]
 Blank Spike Lab ID: 1581262
 Date Analyzed: 09/17/2020 16:59

Spike Duplicate ID: LCSD for HBN 1209636 [XXX43862]
 Spike Duplicate Lab ID: 1581263
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1209636001, 1209636002, 1209636003, 1209636004, 1209636005

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	20.6	103	20	20.0	100	(75-125)	2.80	(< 20)

Surrogates

5a Androstane (surr)	0.4	110	110	0.4	106	106	(60-120)	3.60	
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Batch Information

Analytical Batch: **XFC15743**
 Analytical Method: **AK102**
 Instrument: **Agilent 7890B F**
 Analyst: **CDM**

Prep Batch: **XXX43862**
 Prep Method: **SW3520C**
 Prep Date/Time: **09/15/2020 14:44**
 Spike Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL
 Dupe Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL



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CLIENT: **Travis/Peterson Environmental Consulting**

CONTACT: **Eddie Packee** PHONE #: **455-7225**

PROJECT NAME: **Seekins** PROJECT/PWSID/PERMIT#:

REPORTS TO: E-MAIL: **eddie@tpeci.com** Profile #:

INVOICE TO: QUOTE #: **1197-02** P.O. #:

Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Page 1 of 1

Section 3 Preservative

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/MATRIX CODE	CONTAINERS	Comp Grab MI (Multi-incremental)	Analysis*			REMARKS/LOC ID
							DLO	GRO	VOC 8210	
(1AH)	MW-1	09/03/20	3:15pm	GW	8	G	X	X	X	
(2AH)	MW-1b	09/03/20	3:20pm	GW	8	G	X	X	X	
(3AH)	MW-2	09/03/20	4:15pm	GW	8	G	X	X	X	
(4AH)	MW-3	09/03/20	5:00pm	GW	8	G	X	X	X	
(5AH)	MW-7	09/03/20	5:30pm	GW	8	G	X	X	X	
(6AF)	Trip blank									

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Section 4 DOD Project? Yes (No) Data Deliverable Requirements:

Relinquished By: (1) **Richard Meyer** Date **9/4/20** Time **9:10am** Received By: **[Signature]**

Relinquished By: (2) **[Signature]** Date **9-8-20** Time **1:50P** Received By: **[Signature]**

Relinquished By: (3) **[Signature]** Date **[Blank]** Time **[Blank]** Received By: **[Blank]**

Relinquished By: (4) **[Signature]** Date **9-9-20** Time **0911** Received For Laboratory By: **Minister Allen**

Cooler ID: **[Blank]**

Requested Turnaround Time and/or Special Instructions: **Standard**

ANC: **3-4 DGT** Temp Blank °C: **1.6** Chain of Custody Seal: (Circle) **INTACT** or Ambient []

Delivery Method: Hand Delivery [] Commercial Delivery []

P# 336472

http://www.sgs.com/terms-and-conditions



e-Sample Receipt Form

SGS Workorder #:

1209636



1 2 0 9 6 3 6

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements		
Were Custody Seals intact? Note # & location	Yes	1F,1B
COC accompanied samples?	Yes	
DOD: Were samples received in COC corresponding coolers?	N/A	
<input type="checkbox"/> N/A **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Yes	Cooler ID: 1 @ 3.4 °C Therm. ID: D51
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
*If >6°C, were samples collected <8 hours ago?	N/A	
If <0°C, were sample containers ice free?	N/A	
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		
Note: Refer to form F-083 "Sample Guide" for specific holding times.		
Were samples received within holding time?	Yes	
Do samples match COC** (i.e., sample IDs, dates/times collected)?	Yes	
**Note: If times differ <1hr, record details & login per COC.		
***Note: If sample information on containers differs from COC, SGS will default to COC information		
Were analytical requests clear? (i.e., method is specified for analyses with multiple option for analysis (Ex: BTEX, Metals))	Yes	
Were proper containers (type/mass/volume/preservative***) used?	Yes	<input type="checkbox"/> N/A ***Exemption permitted for metals (e.g,200.8/6020B).
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	Yes	
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	Yes	
Were all soil VOAs field extracted with MeOH+BFB?	N/A	
Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.		
Additional notes (if applicable):		



e-Sample Receipt Form FBK

SGS Workorder #:

1209636

1209636

Review Criteria		Condition (Yes, No, N/A)	Exceptions Noted below	
Chain of Custody / Temperature Requirements			Yes	Exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location		N/A		
COC accompanied samples?		Yes		
DOD: Were samples received in COC corresponding coolers?		N/A		
<input type="checkbox"/> **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required				
Temperature blank compliant* (i.e., 0-6 °C after CF)?		Yes	Cooler ID: 1 @ 1.6 °C	Therm. ID: D60
If samples received without a temperature blank, the "cooler temperature" will be documented instead & "COOLER TEMP" will be noted to the right. "ambient" or "chilled" will be noted if neither is available.			Cooler ID: @	°C Therm. ID:
			Cooler ID: @	°C Therm. ID:
			Cooler ID: @	°C Therm. ID:
			Cooler ID: @	°C Therm. ID:
*If >6°C, were samples collected <8 hours ago?				
If <0°C, were sample containers ice free?				
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.				
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.		
Do samples match COC** (i.e., sample IDs, dates/times collected)?		N/C		
**Note: If times differ <1hr, record details & login per COC.				
***Note: If sample information on containers differs from COC, SGS will default to COC information				
Were samples in good condition (no leaks/cracks/breakage)?		Yes		
Were analytical requests clear? (i.e., method is specified for analyses with multiple option for analysis (Ex: BTEX, Metals))		Yes		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?		Yes		
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?		N/C		
Were all soil VOAs field extracted with MeOH+BFB?		N/A		
For Rush/Short Hold Time, was RUSH/Short HT email sent?		N/A		
Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.				
Additional notes (if applicable):				
SGS Profile #	336472		336472	



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>
1209636001-A	HCL to pH < 2	OK			
1209636001-B	HCL to pH < 2	OK			
1209636001-C	HCL to pH < 2	OK			
1209636001-D	HCL to pH < 2	OK			
1209636001-E	HCL to pH < 2	OK			
1209636001-F	HCL to pH < 2	OK			
1209636001-G	HCL to pH < 2	OK			
1209636001-H	HCL to pH < 2	OK			
1209636002-A	HCL to pH < 2	OK			
1209636002-B	HCL to pH < 2	OK			
1209636002-C	HCL to pH < 2	OK			
1209636002-D	HCL to pH < 2	OK			
1209636002-E	HCL to pH < 2	OK			
1209636002-F	HCL to pH < 2	OK			
1209636002-G	HCL to pH < 2	OK			
1209636002-H	HCL to pH < 2	OK			
1209636003-A	HCL to pH < 2	OK			
1209636003-B	HCL to pH < 2	OK			
1209636003-C	HCL to pH < 2	OK			
1209636003-D	HCL to pH < 2	OK			
1209636003-E	HCL to pH < 2	OK			
1209636003-F	HCL to pH < 2	OK			
1209636003-G	HCL to pH < 2	OK			
1209636003-H	HCL to pH < 2	OK			
1209636004-A	HCL to pH < 2	OK			
1209636004-B	HCL to pH < 2	OK			
1209636004-C	HCL to pH < 2	OK			
1209636004-D	HCL to pH < 2	OK			
1209636004-E	HCL to pH < 2	OK			
1209636004-F	HCL to pH < 2	OK			
1209636004-G	HCL to pH < 2	OK			
1209636004-H	HCL to pH < 2	OK			
1209636005-A	HCL to pH < 2	OK			
1209636005-B	HCL to pH < 2	OK			
1209636005-C	HCL to pH < 2	OK			
1209636005-D	HCL to pH < 2	OK			
1209636005-E	HCL to pH < 2	OK			
1209636005-F	HCL to pH < 2	OK			
1209636005-G	HCL to pH < 2	OK			
1209636005-H	HCL to pH < 2	OK			
1209636006-A	HCL to pH < 2	OK			
1209636006-B	HCL to pH < 2	OK			
1209636006-C	HCL to pH < 2	OK			
1209636006-D	HCL to pH < 2	OK			
1209636006-E	HCL to pH < 2	OK			
1209636006-F	HCL to pH < 2	OK			

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 that 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.

Laboratory Data Review Checklist

Completed By:

Michaela McGee

Title:

Staff Scientist

Date:

09/18/2020

Consultant Firm:

Travis/Peterson Environmental Consulting, Inc.

Laboratory Name:

SGS North America, Inc.

Laboratory Report Number:

1209636

Laboratory Report Date:

09/18/2020

CS Site Name:

Seekins

ADEC File Number:

Hazard Identification Number:

1209636

Laboratory Report Date:

09/18/2020

CS Site Name:

Seekins

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No N/A Comments:

SGS North America Anchorage

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

1209636

Laboratory Report Date:

09/18/2020

CS Site Name:

Seekins

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

No discrepancies

e. Data quality or usability affected?

Comments:

None

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

Surrogate recovery failure for 4-bromofluorobenzene in MW-1 and its duplicate

c. Were all corrective actions documented?

Yes No N/A Comments:

No corrective actions.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

None, caused from matrix interference.

1209636

Laboratory Report Date:

09/18/2020

CS Site Name:

Seekins

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

No soils. Only groundwater samples.

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

None

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than limit of quantitation (LOQ) or project specified objectives?

Yes No N/A Comments:

1209636

Laboratory Report Date:

09/18/2020

CS Site Name:

Seekins

iii. If above LOQ or project specified objectives, what samples are affected?

Comments:

None

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

None

v. Data quality or usability affected?

Comments:

None

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No N/A Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

No metals

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

1209636

Laboratory Report Date:

09/18/2020

CS Site Name:

Seekins

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

None

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Note: Leave blank if not required for project

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

1209636

Laboratory Report Date:

09/18/2020

CS Site Name:

Seekins

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

None

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

4-bromofluorobenzene outside of range in MW-1 and its duplicate.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

iv. Data quality or usability affected?

Comments:

None, GRO was detected so far above ADEC cleanup levels the slight bias high due to the surrogate recover being high would not change the end result of the sample detecting GRO well above cleanup levels.

1209636

Laboratory Report Date:

09/18/2020

CS Site Name:

Seekins

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No N/A Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?
(If not, a comment explaining why must be entered below)

Yes No N/A Comments:

Only one cooler.

iii. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

iv. If above LOQ or project specified objectives, what samples are affected?

Comments:

None

v. Data quality or usability affected?

Comments:

None

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No N/A Comments:

ii. Submitted blind to lab?

Yes No N/A Comments:

MW-1 and MW-16

1209636

Laboratory Report Date:

09/18/2020

CS Site Name:

Seekins

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$RPD (\%) = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2) / 2)} \times 100$$

Where R₁ = Sample Concentration
R₂ = Field Duplicate Concentration

Yes No N/A Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

None

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

No decontamination blank

i. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

ii. If above LOQ or project specified objectives, what samples are affected?

Comments:

None

iii. Data quality or usability affected?

Comments:

None

1209636

Laboratory Report Date:

09/18/2020

CS Site Name:

Seekins

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A

Comments:

Field Duplicate Precision

Analyte	Sample MW-1		Sample MW-10		RPD
	Results	Units	Results	Units	
Diesel Range Organics	1.89	mg/L	2.14	mg/L	12.40694789
Gasoline Range Organics	6.73	mg/L	6.73	mg/L	0
1,2,4-Trimethylbenzene	590	ug/L	660	ug/L	11.2
1,3,5-Trimethylbenzene	110	ug/L	122	ug/L	2.586206897
4-Isopropyltoluene	13.5	ug/L	6.17	ug/L	18.63243518
n-butylbenzene	3.39	ug/L	3.1	ug/L	2.234206471
Ethylbenzene	722	ug/L	807	ug/L	2.779594506
Isopropylbenzene	47.2	ug/L	52	ug/L	2.419354839
Naphthalene	38.5	ug/L	41.6	ug/L	1.935081149
n-Propylbenzene	84.1	ug/L	93.3	ug/L	2.593010147
o-Xylene	926	ug/L	887	ug/L	1.075565361
P&M Xylene	2250	ug/L	2490	ug/L	2.53164557
sec-Butylbenzene	5.53	ug/L	5.87	ug/L	1.49122807
Toluene	54.2	ug/L	50.9	ug/L	1.569933397
Xylenes (total)	3180	ug/L	3370	ug/L	1.450381679

BOLD= Outside of the recommended precision. But for this particular one Chloromethane was not detected in sample MW-1 so this should not reflect the accuracy of duplicates. 3.10 is the detection limit.

QC Failures:

MW-1 Surrogate recovery for 4-bromofluorobenzene did not meet QC criteria due to matrix interference.

1197-02

Seekins Ford Lincoln
September 3, 2020

2:15pm Michenera Macee (MUM) (AES/REP)
with TPEC1 arrived onsite.

Objective:

Here to groundwater sample
MW-1, MW-2, MW-3, & MW-7 for
DRO/GRO/VOCs.

Weather:

Currently 63°F partly cloudy
with a range of 44°F-64°F.

MW-1

DTW: 11.57

DTB: 24.10

24.10 - 11.57 = 13.03 x 0.16 = 2 x 3 = 6 gallons
purge.

2:58pm Started purging MW-1,
water appears clear, no distinct
odors. After about 3 gallons
purge a slight sheen appeared
on the water.

collected sample MW-1 for
DRO, GRO, VOC.

collected sample ~~MW-1~~ ^{MW-1^b} for
DRO, GRO, VOC. * Duplicate

MW-2

DTW: 12.02

DTB: 24.48

24.48 - 12.02 = 12.46 x 0.16 = 1.9 x 3 = 5.9
gallons
purge

3:48pm Started purging MW-2
water appears a little milky
in color w/ light sheen.
No distinct odor.

4:15pm collected sample MW-2 for
DRO, GRO, VOCs.

MW-3

DTW: 11.0

DTB: 22.10

22.10 - 11.0 = 11.10 x 0.16 = 1.8 x 3 = 5.5 gallons
purge

4:27pm Started purging MW-3
water appears clear. No odor.

5:00pm Collected Sample MW-3 for
DLO, GLO, VOCs.

MW-7

DTW: 12.12

DTB: 21.19

$$21.19 - 12.12 = 9.07 \times 0.10 = 1.4 \times 3 = 4.3 \text{ gallons purge.}$$

5:10pm Started purging MW-7.
Water appears clear, no distinct
odor.

5:30pm Collected Sample MW-7 for
DLO/GLO/VOCs.

~~5:30pm~~

5:45pm MLM at site headed to office
to drop off gear.