

## Laboratory Report of Analysis

To: Kenai Watershed Forum  
44129 Sterling Highway  
Soldotna, AK 99669  
(907)260-5449

Report Number: **1214655**

Client Project: **KenaiRiver Wtr Qlty Monitoring**

Dear Branden Bornemann,

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 Alexandra 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.

Alexandra Daniel  
Project Manager  
Alexandra.Daniel@sgs.com

\_\_\_\_\_  
Date

## Case Narrative

SGS Client: **Kenai Watershed Forum**  
SGS Project: **1214655**  
Project Name/Site: **Kenai River Wtr Qlty Monitoring**  
Project Contact: **Branden Bornemann**

Refer to sample receipt form for information on sample condition.

### **RM 0 - No Name Creek (1214655001) PS**

200.7 Total Ca, Fe, Mg were analyzed by ALS of Kelso, WA.

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

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## 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>
RM 0 - No Name Creek	1214655001	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 0 - No Name Creek DUP	1214655002	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 1.5 - Kenai City Dock	1214655003	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 6.5 - Cunningham Park	1214655004	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 10 - Beaver Creek	1214655005	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 10.1 - Kenai River	1214655006	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 12.5 - Pillars	1214655007	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 18 - Poacher's Cove	1214655008	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 19 - Slikok Creek	1214655009	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 21 - Soldotna Bridge	1214655010	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 22 - Soldotna Creek	1214655011	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 23 - Swiftwater Park	1214655012	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 30 - Funny River	1214655013	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 31 - Morgan's Landing	1214655014	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 31 - Morgan's Landing DUP	1214655015	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 36 - Moose River	1214655016	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 40 - Bing's Landing	1214655017	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 43 - Upstream of Dow Island	1214655018	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 44 - Mouth of Killey River	1214655019	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 50 - Skilak Lake Outflow	1214655020	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 70 - Jim's Landing	1214655021	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 74 - Russian River	1214655022	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 82 - Kenai Lake Bridge	1214655023	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 79.5 - Juneau Creek	1214655024	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 0 - No Name Creek	1214655025	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 0 - No Name Creek - DUP	1214655026	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 1.5 - Kenai City Dock	1214655027	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 6.5 - Cunningham Park	1214655028	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 10 - Beaver Creek	1214655029	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 10.1 - Kenai River	1214655030	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 12.5 - Pillars	1214655031	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 18 - Poacher's Cove	1214655032	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 19 - Slikok Creek	1214655033	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 21 - Soldotna Bridge	1214655034	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 22 - Soldotna Creek	1214655035	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 23 - Swiftwater Park	1214655036	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
RM 30 - Funny River	1214655037	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
Trip Blank 1	1214655038	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
Trip Blank 2	1214655039	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)

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## Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
Trip Blank 3	1214655040	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)
Trip Blank 4	1214655041	07/27/2021	07/27/2021	Water (Surface, Eff., Ground)

<u>Method</u>	<u>Method Description</u>
EP200.8	Metals in Drinking Water by ICP-MS DISSO
SM21 4500NO3-F	Nitrate/Nitrite Flow injection Pres.
SM21 4500P-B,E	Total Phosphorus (W)
SW8260D	Volatile Organic Compounds (W)

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## Detectable Results Summary

Client Sample ID: **RM 1.5 - Kenai City Dock**

Lab Sample ID: 1214655003

**Waters Department**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Total Phosphorus	0.0749	mg/L

Client Sample ID: **RM 10 - Beaver Creek**

Lab Sample ID: 1214655005

**Waters Department**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Total Phosphorus	0.0586	mg/L

Client Sample ID: **RM 19 - Slikok Creek**

Lab Sample ID: 1214655009

**Waters Department**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Total Phosphorus	0.0417	mg/L

Client Sample ID: **RM 22 - Soldotna Creek**

Lab Sample ID: 1214655011

**Waters Department**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Total Phosphorus	0.116	mg/L

Client Sample ID: **RM 70 - Jim's Landing**

Lab Sample ID: 1214655021

**Waters Department**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Total Nitrate/Nitrite-N	0.251	mg/L

Client Sample ID: **RM 74 - Russian River**

Lab Sample ID: 1214655022

**Waters Department**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Total Nitrate/Nitrite-N	0.358	mg/L

Client Sample ID: **RM 0 - No Name Creek**

Lab Sample ID: 1214655025

**Dissolved Metals by ICP/MS**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Barium	11.9	ug/L
Calcium	16200	ug/L
Iron	527	ug/L
Magnesium	7320	ug/L
Manganese	146	ug/L
Potassium	3010	ug/L
Silicon	9610	ug/L
Sodium	42700	ug/L

Client Sample ID: **RM 0 - No Name Creek - DUP**

Lab Sample ID: 1214655026

**Dissolved Metals by ICP/MS**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Barium	11.9	ug/L
Calcium	16300	ug/L
Iron	625	ug/L
Magnesium	6960	ug/L
Manganese	149	ug/L
Potassium	2910	ug/L
Silicon	9740	ug/L
Sodium	39500	ug/L
Zinc	12.3	ug/L

## Detectable Results Summary

Client Sample ID: **RM 1.5 - Kenai City Dock**

Lab Sample ID: 1214655027

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Barium	9.57	ug/L
Calcium	39100	ug/L
Copper	1.73	ug/L
Magnesium	68600	ug/L
Manganese	8.34	ug/L
Potassium	21200	ug/L
Silicon	1540	ug/L
Sodium	595000	ug/L

Client Sample ID: **RM 6.5 - Cunningham Park**

Lab Sample ID: 1214655028

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Barium	8.52	ug/L
Calcium	14000	ug/L
Magnesium	1090	ug/L
Manganese	3.02	ug/L
Potassium	855	ug/L
Silicon	1540	ug/L
Sodium	2250	ug/L
Zinc	83.5	ug/L

Client Sample ID: **RM 10 - Beaver Creek**

Lab Sample ID: 1214655029

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Barium	13.0	ug/L
Calcium	20100	ug/L
Iron	1020	ug/L
Magnesium	3860	ug/L
Manganese	170	ug/L
Potassium	1300	ug/L
Silicon	10300	ug/L
Sodium	5090	ug/L
Zinc	39.2	ug/L

Client Sample ID: **RM 10.1 - Kenai River**

Lab Sample ID: 1214655030

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Barium	8.79	ug/L
Calcium	14000	ug/L
Magnesium	988	ug/L
Manganese	2.11	ug/L
Potassium	826	ug/L
Silicon	1550	ug/L
Sodium	1420	ug/L
Zinc	10.6	ug/L

## Detectable Results Summary

Client Sample ID: **RM 12.5 - Pillars**

Lab Sample ID: 1214655031

### Dissolved Metals by ICP/MS

Parameter	Result	Units
Barium	8.36	ug/L
Calcium	13300	ug/L
Magnesium	919	ug/L
Manganese	1.53	ug/L
Potassium	781	ug/L
Silicon	1460	ug/L
Sodium	1320	ug/L
Zinc	11.2	ug/L

Client Sample ID: **RM 18 - Poacher's Cove**

Lab Sample ID: 1214655032

### Dissolved Metals by ICP/MS

Parameter	Result	Units
Barium	8.62	ug/L
Calcium	13900	ug/L
Magnesium	963	ug/L
Manganese	1.81	ug/L
Potassium	825	ug/L
Silicon	1530	ug/L
Sodium	1380	ug/L
Zinc	15.2	ug/L

Client Sample ID: **RM 19 - Slikok Creek**

Lab Sample ID: 1214655033

### Dissolved Metals by ICP/MS

Parameter	Result	Units
Barium	12.9	ug/L
Calcium	18400	ug/L
Iron	408	ug/L
Magnesium	4330	ug/L
Manganese	80.2	ug/L
Potassium	918	ug/L
Silicon	9220	ug/L
Sodium	4810	ug/L

Client Sample ID: **RM 21 - Soldotna Bridge**

Lab Sample ID: 1214655034

### Dissolved Metals by ICP/MS

Parameter	Result	Units
Barium	8.69	ug/L
Calcium	13800	ug/L
Magnesium	953	ug/L
Manganese	1.98	ug/L
Potassium	827	ug/L
Silicon	1560	ug/L
Sodium	1350	ug/L
Zinc	24.0	ug/L

Print Date: 08/24/2021 11:26:03AM

SGS North America Inc.

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Member of SGS Group



## Detectable Results Summary

Client Sample ID: **RM 22 - Soldotna Creek**

Lab Sample ID: 1214655035

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Arsenic	8.75	ug/L
Barium	14.0	ug/L
Calcium	20900	ug/L
Iron	357	ug/L
Magnesium	4660	ug/L
Manganese	91.7	ug/L
Potassium	1520	ug/L
Silicon	10800	ug/L
Sodium	6020	ug/L
Tin	2.88	ug/L
Zinc	15.9	ug/L

Client Sample ID: **RM 23 - Swiftwater Park**

Lab Sample ID: 1214655036

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Barium	8.71	ug/L
Calcium	13700	ug/L
Magnesium	936	ug/L
Manganese	3.83	ug/L
Potassium	810	ug/L
Silicon	1490	ug/L
Sodium	1310	ug/L
Zinc	10.4	ug/L

Client Sample ID: **RM 30 - Funny River**

Lab Sample ID: 1214655037

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Barium	6.69	ug/L
Calcium	11800	ug/L
Iron	257	ug/L
Magnesium	3050	ug/L
Manganese	33.6	ug/L
Potassium	688	ug/L
Silicon	7830	ug/L
Sodium	3270	ug/L

## Results of RM 0 - No Name Creek

Client Sample ID: **RM 0 - No Name Creek**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655001  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:30  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 11:44

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 11:44  
 Container ID: 1214655001-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:08

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:08  
 Container ID: 1214655001-B

Prep Batch: WXX13837  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 0 - No Name Creek DUP

Client Sample ID: **RM 0 - No Name Creek DUP**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655002  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:45  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 11:49

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 11:49  
 Container ID: 1214655002-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:11

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:11  
 Container ID: 1214655002-B

Prep Batch: WXX13837  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 1.5 - Kenai City Dock

Client Sample ID: **RM 1.5 - Kenai City Dock**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655003  
 Lab Project ID: 1214655

Collection Date: 07/27/21 10:30  
 Received Date: 07/27/21 16:39  
 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>
Benzene	0.400 U	0.400	0.120	ug/L	1		08/05/21 20:17
Ethylbenzene	1.00 U	1.00	0.310	ug/L	1		08/05/21 20:17
o-Xylene	1.00 U	1.00	0.310	ug/L	1		08/05/21 20:17
P & M -Xylene	2.00 U	2.00	0.620	ug/L	1		08/05/21 20:17
Toluene	1.00 U	1.00	0.310	ug/L	1		08/05/21 20:17
Xylenes (total)	3.00 U	3.00	1.00	ug/L	1		08/05/21 20:17
<b>Surrogates</b>							
1,2-Dichloroethane-D4 (surr)	106	81-118		%	1		08/05/21 20:17
4-Bromofluorobenzene (surr)	99.7	85-114		%	1		08/05/21 20:17
Toluene-d8 (surr)	101	89-112		%	1		08/05/21 20:17

## Batch Information

Analytical Batch: VMS21023  
 Analytical Method: SW8260D  
 Analyst: JMG  
 Analytical Date/Time: 08/05/21 20:17  
 Container ID: 1214655003-C

Prep Batch: VXX37591  
 Prep Method: SW5030B  
 Prep Date/Time: 08/05/21 06:00  
 Prep Initial Wt./Vol.: 5 mL  
 Prep Extract Vol: 5 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 1.5 - Kenai City Dock

Client Sample ID: **RM 1.5 - Kenai City Dock**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655003  
 Lab Project ID: 1214655

Collection Date: 07/27/21 10:30  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 11:51

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 11:51  
 Container ID: 1214655003-B

<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>
Total Phosphorus	0.0749	0.0400	0.0120	mg/L	1		08/02/21 17:12

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:12  
 Container ID: 1214655003-B

Prep Batch: WXX13837  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 6.5 - Cunningham Park

Client Sample ID: **RM 6.5 - Cunningham Park**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655004  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:10  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Volatile GC/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.400 U	0.400	0.120	ug/L	1		08/05/21 20:32
Ethylbenzene	1.00 U	1.00	0.310	ug/L	1		08/05/21 20:32
o-Xylene	1.00 U	1.00	0.310	ug/L	1		08/05/21 20:32
P & M -Xylene	2.00 U	2.00	0.620	ug/L	1		08/05/21 20:32
Toluene	1.00 U	1.00	0.310	ug/L	1		08/05/21 20:32
Xylenes (total)	3.00 U	3.00	1.00	ug/L	1		08/05/21 20:32
<b>Surrogates</b>							
1,2-Dichloroethane-D4 (surr)	104	81-118		%	1		08/05/21 20:32
4-Bromofluorobenzene (surr)	100	85-114		%	1		08/05/21 20:32
Toluene-d8 (surr)	101	89-112		%	1		08/05/21 20:32

## Batch Information

Analytical Batch: VMS21023  
 Analytical Method: SW8260D  
 Analyst: JMG  
 Analytical Date/Time: 08/05/21 20:32  
 Container ID: 1214655004-C

Prep Batch: VXX37591  
 Prep Method: SW5030B  
 Prep Date/Time: 08/05/21 06:00  
 Prep Initial Wt./Vol.: 5 mL  
 Prep Extract Vol: 5 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 6.5 - Cunningham Park

Client Sample ID: **RM 6.5 - Cunningham Park**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655004  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:10  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 11:53

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 11:53  
 Container ID: 1214655004-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:13

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:13  
 Container ID: 1214655004-B

Prep Batch: WXX13837  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 10 - Beaver Creek

Client Sample ID: **RM 10 - Beaver Creek**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655005  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:50  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 11:54

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 11:54  
 Container ID: 1214655005-B

<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>
Total Phosphorus	0.0586	0.0400	0.0120	mg/L	1		08/02/21 17:14

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:14  
 Container ID: 1214655005-B

Prep Batch: WXX13837  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM



## Results of RM 10.1 - Kenai River

Client Sample ID: **RM 10.1 - Kenai River**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655006  
 Lab Project ID: 1214655

Collection Date: 07/27/21 10:10  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 11:56

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 11:56  
 Container ID: 1214655006-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:15

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:15  
 Container ID: 1214655006-B

Prep Batch: WXX13837  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 12.5 - Pillars

Client Sample ID: **RM 12.5 - Pillars**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655007  
 Lab Project ID: 1214655

Collection Date: 07/27/21 10:28  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 11:58

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 11:58  
 Container ID: 1214655007-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:16

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:16  
 Container ID: 1214655007-B

Prep Batch: WXX13837  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 18 - Poacher's Cove

Client Sample ID: **RM 18 - Poacher's Cove**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655008  
 Lab Project ID: 1214655

Collection Date: 07/27/21 10:50  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 12:00

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 12:00  
 Container ID: 1214655008-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:19

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:19  
 Container ID: 1214655008-B

Prep Batch: WXX13837  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 19 - Slikok Creek

Client Sample ID: **RM 19 - Slikok Creek**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655009  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:28  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 12:07

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 12:07  
 Container ID: 1214655009-B

<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>
Total Phosphorus	0.0417	0.0400	0.0120	mg/L	1		08/02/21 17:20

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:20  
 Container ID: 1214655009-B

Prep Batch: WXX13837  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 21 - Soldotna Bridge

Client Sample ID: **RM 21 - Soldotna Bridge**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655010  
 Lab Project ID: 1214655

Collection Date: 07/27/21 10:10  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 12:08

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 12:08  
 Container ID: 1214655010-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:21

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:21  
 Container ID: 1214655010-B

Prep Batch: WXX13837  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 22 - Soldotna Creek

Client Sample ID: **RM 22 - Soldotna Creek**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655011  
 Lab Project ID: 1214655

Collection Date: 07/27/21 11:25  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 12:10

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 12:10  
 Container ID: 1214655011-B

<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>
Total Phosphorus	0.116	0.0400	0.0120	mg/L	1		08/02/21 17:22

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:22  
 Container ID: 1214655011-B

Prep Batch: WXX13837  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 23 - Swiftwater Park

Client Sample ID: **RM 23 - Swiftwater Park**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655012  
 Lab Project ID: 1214655

Collection Date: 07/27/21 10:43  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 12:12

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 12:12  
 Container ID: 1214655012-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:23

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:23  
 Container ID: 1214655012-B

Prep Batch: WXX13837  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 30 - Funny River

Client Sample ID: **RM 30 - Funny River**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655013  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:30  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 12:14

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 12:14  
 Container ID: 1214655013-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:26

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:26  
 Container ID: 1214655013-B

Prep Batch: WXX13838  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM



## Results of RM 31 - Morgan's Landing

Client Sample ID: **RM 31 - Morgan's Landing**  
 Client Project ID: **Kenai River Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655014  
 Lab Project ID: 1214655

Collection Date: 07/27/21 10:50  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 12:15

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 12:15  
 Container ID: 1214655014-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:31

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:31  
 Container ID: 1214655014-B

Prep Batch: WXX13838  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 31 - Morgan's Landing DUP

Client Sample ID: **RM 31 - Morgan's Landing DUP**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655015  
 Lab Project ID: 1214655

Collection Date: 07/27/21 10:50  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 12:17

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 12:17  
 Container ID: 1214655015-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:32

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:32  
 Container ID: 1214655015-B

Prep Batch: WXX13838  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 36 - Moose River

Client Sample ID: **RM 36 - Moose River**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655016  
 Lab Project ID: 1214655

Collection Date: 07/27/21 11:30  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 12:19

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 12:19  
 Container ID: 1214655016-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:33

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:33  
 Container ID: 1214655016-B

Prep Batch: WXX13838  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 40 - Bing's Landing

Client Sample ID: **RM 40 - Bing's Landing**  
 Client Project ID: **Kenai River Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655017  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:50  
 Received Date: 07/27/21 16:39  
 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>
Benzene	0.400 U	0.400	0.120	ug/L	1		08/05/21 20:47
Ethylbenzene	1.00 U	1.00	0.310	ug/L	1		08/05/21 20:47
o-Xylene	1.00 U	1.00	0.310	ug/L	1		08/05/21 20:47
P & M -Xylene	2.00 U	2.00	0.620	ug/L	1		08/05/21 20:47
Toluene	1.00 U	1.00	0.310	ug/L	1		08/05/21 20:47
Xylenes (total)	3.00 U	3.00	1.00	ug/L	1		08/05/21 20:47
<b>Surrogates</b>							
1,2-Dichloroethane-D4 (surr)	104	81-118		%	1		08/05/21 20:47
4-Bromofluorobenzene (surr)	101	85-114		%	1		08/05/21 20:47
Toluene-d8 (surr)	100	89-112		%	1		08/05/21 20:47

## Batch Information

Analytical Batch: VMS21023  
 Analytical Method: SW8260D  
 Analyst: JMG  
 Analytical Date/Time: 08/05/21 20:47  
 Container ID: 1214655017-C

Prep Batch: VXX37591  
 Prep Method: SW5030B  
 Prep Date/Time: 08/05/21 06:00  
 Prep Initial Wt./Vol.: 5 mL  
 Prep Extract Vol: 5 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 40 - Bing's Landing

Client Sample ID: **RM 40 - Bing's Landing**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655017  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:50  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 12:21

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 12:21  
 Container ID: 1214655017-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:34

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:34  
 Container ID: 1214655017-B

Prep Batch: WXX13838  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 43 - Upstream of Dow Island

Client Sample ID: **RM 43 - Upstream of Dow Island**  
 Client Project ID: **Kenai River Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655018  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:30  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Volatile GC/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.400 U	0.400	0.120	ug/L	1		08/05/21 21:02
Ethylbenzene	1.00 U	1.00	0.310	ug/L	1		08/05/21 21:02
o-Xylene	1.00 U	1.00	0.310	ug/L	1		08/05/21 21:02
P & M -Xylene	2.00 U	2.00	0.620	ug/L	1		08/05/21 21:02
Toluene	1.00 U	1.00	0.310	ug/L	1		08/05/21 21:02
Xylenes (total)	3.00 U	3.00	1.00	ug/L	1		08/05/21 21:02
<b>Surrogates</b>							
1,2-Dichloroethane-D4 (surr)	104	81-118		%	1		08/05/21 21:02
4-Bromofluorobenzene (surr)	99.6	85-114		%	1		08/05/21 21:02
Toluene-d8 (surr)	101	89-112		%	1		08/05/21 21:02

## Batch Information

Analytical Batch: VMS21023  
 Analytical Method: SW8260D  
 Analyst: JMG  
 Analytical Date/Time: 08/05/21 21:02  
 Container ID: 1214655018-C

Prep Batch: VXX37591  
 Prep Method: SW5030B  
 Prep Date/Time: 08/05/21 06:00  
 Prep Initial Wt./Vol.: 5 mL  
 Prep Extract Vol: 5 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 43 - Upstream of Dow Island

Client Sample ID: **RM 43 - Upstream of Dow Island**  
 Client Project ID: **Kenai River Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655018  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:30  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 12:22

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 12:22  
 Container ID: 1214655018-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:35

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:35  
 Container ID: 1214655018-B

Prep Batch: WXX13838  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 44 - Mouth of Killey River

Client Sample ID: **RM 44 - Mouth of Killey River**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655019  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:14  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 12:29

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 12:29  
 Container ID: 1214655019-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:36

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:36  
 Container ID: 1214655019-B

Prep Batch: WXX13838  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM



## Results of RM 50 - Skilak Lake Outflow

Client Sample ID: **RM 50 - Skilak Lake Outflow**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655020  
 Lab Project ID: 1214655

Collection Date: 07/27/21 08:40  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 12:35

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 12:35  
 Container ID: 1214655020-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:37

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:37  
 Container ID: 1214655020-B

Prep Batch: WXX13838  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 70 - Jim's Landing

Client Sample ID: **RM 70 - Jim's Landing**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655021  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:40  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.251	0.200	0.0500	mg/L	2		08/02/21 12:36

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 12:36  
 Container ID: 1214655021-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:38

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:38  
 Container ID: 1214655021-B

Prep Batch: WXX13838  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 74 - Russian River

Client Sample ID: **RM 74 - Russian River**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655022  
 Lab Project ID: 1214655

Collection Date: 07/27/21 08:50  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.358	0.200	0.0500	mg/L	2		08/02/21 12:38

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 12:38  
 Container ID: 1214655022-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:38

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:38  
 Container ID: 1214655022-B

Prep Batch: WXX13838  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 82 - Kenai Lake Bridge

Client Sample ID: **RM 82 - Kenai Lake Bridge**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655023  
 Lab Project ID: 1214655

Collection Date: 07/27/21 08:15  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 12:40

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 12:40  
 Container ID: 1214655023-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:41

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:41  
 Container ID: 1214655023-B

Prep Batch: WXX13838  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 79.5 - Juneau Creek

Client Sample ID: **RM 79.5 - Juneau Creek**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655024  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:10  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Waters Department

<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>
Total Nitrate/Nitrite-N	0.200 U	0.200	0.0500	mg/L	2		08/02/21 12:42

## Batch Information

Analytical Batch: WFI2945  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 08/02/21 12:42  
 Container ID: 1214655024-B

<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>
Total Phosphorus	0.0400 U	0.0400	0.0120	mg/L	1		08/02/21 17:42

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Analyst: EWW  
 Analytical Date/Time: 08/02/21 17:42  
 Container ID: 1214655024-B

Prep Batch: WXX13838  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/21 12:25  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 0 - No Name Creek

Client Sample ID: **RM 0 - No Name Creek**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655025  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:30  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Dissolved Metals by ICP/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>
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/05/21 09:53
Antimony	1.00 U	1.00	0.310	ug/L	1		08/05/21 09:53
Arsenic	5.00 U	5.00	1.50	ug/L	1		08/05/21 09:53
Barium	11.9	3.00	0.940	ug/L	1		08/05/21 09:53
Beryllium	0.400 U	0.400	0.130	ug/L	1		08/05/21 09:53
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/05/21 09:53
Calcium	16200	500	150	ug/L	1		08/05/21 09:53
Chromium	5.00 U	5.00	2.50	ug/L	1		08/05/21 09:53
Cobalt	4.00 U	4.00	1.20	ug/L	1		08/05/21 09:53
Copper	1.00 U	1.00	0.310	ug/L	1		08/05/21 09:53
Iron	527	250	78.0	ug/L	1		08/05/21 09:53
Lead	0.200 U	0.200	0.0700	ug/L	1		08/05/21 09:53
Magnesium	7320	50.0	15.0	ug/L	1		08/05/21 09:53
Manganese	146	1.00	0.350	ug/L	1		08/05/21 09:53
Molybdenum	2.00 U	2.00	0.620	ug/L	1		08/05/21 09:53
Nickel	2.00 U	2.00	0.620	ug/L	1		08/05/21 09:53
Phosphorus	200 U	200	62.0	ug/L	1		08/05/21 09:53
Potassium	3010	500	150	ug/L	1		08/05/21 09:53
Selenium	5.00 U	5.00	1.50	ug/L	1		08/05/21 09:53
Silicon	9610	1000	310	ug/L	1		08/05/21 09:53
Silver	1.00 U	1.00	0.310	ug/L	1		08/05/21 09:53
Sodium	42700	2500	750	ug/L	5		08/05/21 11:02
Thallium	1.00 U	1.00	0.310	ug/L	1		08/05/21 09:53
Tin	1.00 U	1.00	0.310	ug/L	1		08/05/21 09:53
Titanium	6.25 U	6.25	3.13	ug/L	1		08/05/21 09:53
Vanadium	20.0 U	20.0	6.20	ug/L	1		08/05/21 09:53
Zinc	10.0 U	10.0	3.10	ug/L	1		08/05/21 09:53

Print Date: 08/24/2021 11:26:04AM

## Results of RM 0 - No Name Creek

Client Sample ID: **RM 0 - No Name Creek**  
 Client Project ID: **Kenai River Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655025  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:30  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Dissolved Metals by ICP/MS

### Batch Information

Analytical Batch: MMS11228  
 Analytical Method: EP200.8  
 Analyst: AKA  
 Analytical Date/Time: 08/05/21 09:53  
 Container ID: 1214655025-A

Prep Batch: MXX34483  
 Prep Method: E200.2  
 Prep Date/Time: 08/01/21 14:32  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11228  
 Analytical Method: EP200.8  
 Analyst: AKA  
 Analytical Date/Time: 08/05/21 11:02  
 Container ID: 1214655025-A

Prep Batch: MXX34483  
 Prep Method: E200.2  
 Prep Date/Time: 08/01/21 14:32  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 0 - No Name Creek - DUP

Client Sample ID: **RM 0 - No Name Creek - DUP**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655026  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:45  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Dissolved Metals by ICP/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>
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/05/21 09:55
Antimony	1.00 U	1.00	0.310	ug/L	1		08/05/21 09:55
Arsenic	5.00 U	5.00	1.50	ug/L	1		08/05/21 09:55
Barium	11.9	3.00	0.940	ug/L	1		08/05/21 09:55
Beryllium	0.400 U	0.400	0.130	ug/L	1		08/05/21 09:55
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/05/21 09:55
Calcium	16300	500	150	ug/L	1		08/05/21 09:55
Chromium	5.00 U	5.00	2.50	ug/L	1		08/05/21 09:55
Cobalt	4.00 U	4.00	1.20	ug/L	1		08/05/21 09:55
Copper	1.00 U	1.00	0.310	ug/L	1		08/05/21 09:55
Iron	625	250	78.0	ug/L	1		08/05/21 09:55
Lead	0.200 U	0.200	0.0700	ug/L	1		08/05/21 09:55
Magnesium	6960	50.0	15.0	ug/L	1		08/05/21 09:55
Manganese	149	1.00	0.350	ug/L	1		08/05/21 09:55
Molybdenum	2.00 U	2.00	0.620	ug/L	1		08/05/21 09:55
Nickel	2.00 U	2.00	0.620	ug/L	1		08/05/21 09:55
Phosphorus	200 U	200	62.0	ug/L	1		08/05/21 09:55
Potassium	2910	500	150	ug/L	1		08/05/21 09:55
Selenium	5.00 U	5.00	1.50	ug/L	1		08/05/21 09:55
Silicon	9740	1000	310	ug/L	1		08/05/21 09:55
Silver	1.00 U	1.00	0.310	ug/L	1		08/05/21 09:55
Sodium	39500	2500	750	ug/L	5		08/05/21 11:05
Thallium	1.00 U	1.00	0.310	ug/L	1		08/05/21 09:55
Tin	1.00 U	1.00	0.310	ug/L	1		08/05/21 09:55
Titanium	6.25 U	6.25	3.13	ug/L	1		08/05/21 09:55
Vanadium	20.0 U	20.0	6.20	ug/L	1		08/05/21 09:55
Zinc	12.3	10.0	3.10	ug/L	1		08/05/21 09:55

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## Results of RM 0 - No Name Creek - DUP

Client Sample ID: **RM 0 - No Name Creek - DUP**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655026  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:45  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Dissolved Metals by ICP/MS

### Batch Information

Analytical Batch: MMS11228  
 Analytical Method: EP200.8  
 Analyst: AKA  
 Analytical Date/Time: 08/05/21 09:55  
 Container ID: 1214655026-A

Prep Batch: MXX34483  
 Prep Method: E200.2  
 Prep Date/Time: 08/01/21 14:32  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11228  
 Analytical Method: EP200.8  
 Analyst: AKA  
 Analytical Date/Time: 08/05/21 11:05  
 Container ID: 1214655026-A

Prep Batch: MXX34483  
 Prep Method: E200.2  
 Prep Date/Time: 08/01/21 14:32  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 1.5 - Kenai City Dock

Client Sample ID: **RM 1.5 - Kenai City Dock**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655027  
 Lab Project ID: 1214655

Collection Date: 07/27/21 10:30  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Dissolved Metals by ICP/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>
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/05/21 09:58
Antimony	1.00 U	1.00	0.310	ug/L	1		08/05/21 09:58
Arsenic	5.00 U	5.00	1.50	ug/L	1		08/05/21 09:58
Barium	9.57	3.00	0.940	ug/L	1		08/05/21 09:58
Beryllium	0.400 U	0.400	0.130	ug/L	1		08/05/21 09:58
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/05/21 09:58
Calcium	39100	2500	750	ug/L	5		08/05/21 11:08
Chromium	5.00 U	5.00	2.50	ug/L	1		08/05/21 09:58
Cobalt	4.00 U	4.00	1.20	ug/L	1		08/05/21 09:58
Copper	1.73	1.00	0.310	ug/L	1		08/05/21 09:58
Iron	250 U	250	78.0	ug/L	1		08/05/21 09:58
Lead	0.200 U	0.200	0.0700	ug/L	1		08/05/21 09:58
Magnesium	68600	250	75.0	ug/L	5		08/05/21 11:08
Manganese	8.34	1.00	0.350	ug/L	1		08/05/21 09:58
Molybdenum	2.00 U	2.00	0.620	ug/L	1		08/05/21 09:58
Nickel	2.00 U	2.00	0.620	ug/L	1		08/05/21 09:58
Phosphorus	200 U	200	62.0	ug/L	1		08/05/21 09:58
Potassium	21200	500	150	ug/L	1		08/05/21 09:58
Selenium	5.00 U	5.00	1.50	ug/L	1		08/05/21 09:58
Silicon	1540	1000	310	ug/L	1		08/05/21 09:58
Silver	1.00 U	1.00	0.310	ug/L	1		08/05/21 09:58
Sodium	595000	25000	7500	ug/L	50		08/05/21 11:10
Thallium	1.00 U	1.00	0.310	ug/L	1		08/05/21 09:58
Tin	1.00 U	1.00	0.310	ug/L	1		08/05/21 09:58
Titanium	6.25 U	6.25	3.13	ug/L	1		08/05/21 09:58
Vanadium	20.0 U	20.0	6.20	ug/L	1		08/05/21 09:58
Zinc	10.0 U	10.0	3.10	ug/L	1		08/05/21 09:58

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## Results of RM 1.5 - Kenai City Dock

Client Sample ID: **RM 1.5 - Kenai City Dock**  
 Client Project ID: **Kenai River Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655027  
 Lab Project ID: 1214655

Collection Date: 07/27/21 10:30  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Dissolved Metals by ICP/MS

### Batch Information

Analytical Batch: MMS11228  
 Analytical Method: EP200.8  
 Analyst: AKA  
 Analytical Date/Time: 08/05/21 09:58  
 Container ID: 1214655027-A

Prep Batch: MXX34483  
 Prep Method: E200.2  
 Prep Date/Time: 08/01/21 14:32  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11228  
 Analytical Method: EP200.8  
 Analyst: AKA  
 Analytical Date/Time: 08/05/21 11:08  
 Container ID: 1214655027-A

Prep Batch: MXX34483  
 Prep Method: E200.2  
 Prep Date/Time: 08/01/21 14:32  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11228  
 Analytical Method: EP200.8  
 Analyst: AKA  
 Analytical Date/Time: 08/05/21 11:10  
 Container ID: 1214655027-A

Prep Batch: MXX34483  
 Prep Method: E200.2  
 Prep Date/Time: 08/01/21 14:32  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

## Results of RM 6.5 - Cunningham Park

Client Sample ID: **RM 6.5 - Cunningham Park**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655028  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:10  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Dissolved Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:01
Antimony	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:01
Arsenic	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:01
Barium	8.52	3.00	0.940	ug/L	1		08/05/21 10:01
Beryllium	0.400 U	0.400	0.130	ug/L	1		08/05/21 10:01
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/05/21 10:01
Calcium	14000	500	150	ug/L	1		08/05/21 10:01
Chromium	5.00 U	5.00	2.50	ug/L	1		08/05/21 10:01
Cobalt	4.00 U	4.00	1.20	ug/L	1		08/05/21 10:01
Copper	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:01
Iron	250 U	250	78.0	ug/L	1		08/05/21 10:01
Lead	0.200 U	0.200	0.0700	ug/L	1		08/05/21 10:01
Magnesium	1090	50.0	15.0	ug/L	1		08/05/21 10:01
Manganese	3.02	1.00	0.350	ug/L	1		08/05/21 10:01
Molybdenum	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:01
Nickel	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:01
Phosphorus	200 U	200	62.0	ug/L	1		08/05/21 10:01
Potassium	855	500	150	ug/L	1		08/05/21 10:01
Selenium	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:01
Silicon	1540	1000	310	ug/L	1		08/05/21 10:01
Silver	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:01
Sodium	2250	500	150	ug/L	1		08/05/21 10:01
Thallium	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:01
Tin	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:01
Titanium	6.25 U	6.25	3.13	ug/L	1		08/05/21 10:01
Vanadium	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:01
Zinc	83.5	10.0	3.10	ug/L	1		08/05/21 10:01

## Batch Information

Analytical Batch: MMS11228  
 Analytical Method: EP200.8  
 Analyst: AKA  
 Analytical Date/Time: 08/05/21 10:01  
 Container ID: 1214655028-A

Prep Batch: MXX34483  
 Prep Method: E200.2  
 Prep Date/Time: 08/01/21 14:32  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 10 - Beaver Creek

Client Sample ID: **RM 10 - Beaver Creek**  
 Client Project ID: **Kenai River Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655029  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:50  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Dissolved Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:03
Antimony	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:03
Arsenic	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:03
Barium	13.0	3.00	0.940	ug/L	1		08/05/21 10:03
Beryllium	0.400 U	0.400	0.130	ug/L	1		08/05/21 10:03
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/05/21 10:03
Calcium	20100	500	150	ug/L	1		08/05/21 10:03
Chromium	5.00 U	5.00	2.50	ug/L	1		08/05/21 10:03
Cobalt	4.00 U	4.00	1.20	ug/L	1		08/05/21 10:03
Copper	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:03
Iron	1020	250	78.0	ug/L	1		08/05/21 10:03
Lead	0.200 U	0.200	0.0700	ug/L	1		08/05/21 10:03
Magnesium	3860	50.0	15.0	ug/L	1		08/05/21 10:03
Manganese	170	1.00	0.350	ug/L	1		08/05/21 10:03
Molybdenum	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:03
Nickel	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:03
Phosphorus	200 U	200	62.0	ug/L	1		08/05/21 10:03
Potassium	1300	500	150	ug/L	1		08/05/21 10:03
Selenium	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:03
Silicon	10300	1000	310	ug/L	1		08/05/21 10:03
Silver	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:03
Sodium	5090	500	150	ug/L	1		08/05/21 10:03
Thallium	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:03
Tin	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:03
Titanium	6.25 U	6.25	3.13	ug/L	1		08/05/21 10:03
Vanadium	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:03
Zinc	39.2	10.0	3.10	ug/L	1		08/05/21 10:03

## Batch Information

Analytical Batch: MMS11228  
 Analytical Method: EP200.8  
 Analyst: AKA  
 Analytical Date/Time: 08/05/21 10:03  
 Container ID: 1214655029-A

Prep Batch: MXX34483  
 Prep Method: E200.2  
 Prep Date/Time: 08/01/21 14:32  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 10.1 - Kenai River

Client Sample ID: **RM 10.1 - Kenai River**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655030  
 Lab Project ID: 1214655

Collection Date: 07/27/21 10:10  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Dissolved Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:06
Antimony	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:06
Arsenic	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:06
Barium	8.79	3.00	0.940	ug/L	1		08/05/21 10:06
Beryllium	0.400 U	0.400	0.130	ug/L	1		08/05/21 10:06
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/05/21 10:06
Calcium	14000	500	150	ug/L	1		08/05/21 10:06
Chromium	5.00 U	5.00	2.50	ug/L	1		08/05/21 10:06
Cobalt	4.00 U	4.00	1.20	ug/L	1		08/05/21 10:06
Copper	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:06
Iron	250 U	250	78.0	ug/L	1		08/05/21 10:06
Lead	0.200 U	0.200	0.0700	ug/L	1		08/05/21 10:06
Magnesium	988	50.0	15.0	ug/L	1		08/05/21 10:06
Manganese	2.11	1.00	0.350	ug/L	1		08/05/21 10:06
Molybdenum	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:06
Nickel	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:06
Phosphorus	200 U	200	62.0	ug/L	1		08/05/21 10:06
Potassium	826	500	150	ug/L	1		08/05/21 10:06
Selenium	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:06
Silicon	1550	1000	310	ug/L	1		08/05/21 10:06
Silver	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:06
Sodium	1420	500	150	ug/L	1		08/05/21 10:06
Thallium	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:06
Tin	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:06
Titanium	6.25 U	6.25	3.13	ug/L	1		08/05/21 10:06
Vanadium	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:06
Zinc	10.6	10.0	3.10	ug/L	1		08/05/21 10:06

## Batch Information

Analytical Batch: MMS11228  
 Analytical Method: EP200.8  
 Analyst: AKA  
 Analytical Date/Time: 08/05/21 10:06  
 Container ID: 1214655030-A

Prep Batch: MXX34483  
 Prep Method: E200.2  
 Prep Date/Time: 08/01/21 14:32  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 12.5 - Pillars

Client Sample ID: **RM 12.5 - Pillars**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655031  
 Lab Project ID: 1214655

Collection Date: 07/27/21 10:28  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Dissolved Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:09
Antimony	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:09
Arsenic	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:09
Barium	8.36	3.00	0.940	ug/L	1		08/05/21 10:09
Beryllium	0.400 U	0.400	0.130	ug/L	1		08/05/21 10:09
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/05/21 10:09
Calcium	13300	500	150	ug/L	1		08/05/21 10:09
Chromium	5.00 U	5.00	2.50	ug/L	1		08/05/21 10:09
Cobalt	4.00 U	4.00	1.20	ug/L	1		08/05/21 10:09
Copper	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:09
Iron	250 U	250	78.0	ug/L	1		08/05/21 10:09
Lead	0.200 U	0.200	0.0700	ug/L	1		08/05/21 10:09
Magnesium	919	50.0	15.0	ug/L	1		08/05/21 10:09
Manganese	1.53	1.00	0.350	ug/L	1		08/05/21 10:09
Molybdenum	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:09
Nickel	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:09
Phosphorus	200 U	200	62.0	ug/L	1		08/05/21 10:09
Potassium	781	500	150	ug/L	1		08/05/21 10:09
Selenium	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:09
Silicon	1460	1000	310	ug/L	1		08/05/21 10:09
Silver	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:09
Sodium	1320	500	150	ug/L	1		08/05/21 10:09
Thallium	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:09
Tin	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:09
Titanium	6.25 U	6.25	3.13	ug/L	1		08/05/21 10:09
Vanadium	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:09
Zinc	11.2	10.0	3.10	ug/L	1		08/05/21 10:09

## Batch Information

Analytical Batch: MMS11228  
 Analytical Method: EP200.8  
 Analyst: AKA  
 Analytical Date/Time: 08/05/21 10:09  
 Container ID: 1214655031-A

Prep Batch: MXX34483  
 Prep Method: E200.2  
 Prep Date/Time: 08/01/21 14:32  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 18 - Poacher's Cove

Client Sample ID: **RM 18 - Poacher's Cove**  
 Client Project ID: **Kenai River Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655032  
 Lab Project ID: 1214655

Collection Date: 07/27/21 10:50  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Dissolved Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:12
Antimony	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:12
Arsenic	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:12
Barium	8.62	3.00	0.940	ug/L	1		08/05/21 10:12
Beryllium	0.400 U	0.400	0.130	ug/L	1		08/05/21 10:12
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/05/21 10:12
Calcium	13900	500	150	ug/L	1		08/05/21 10:12
Chromium	5.00 U	5.00	2.50	ug/L	1		08/05/21 10:12
Cobalt	4.00 U	4.00	1.20	ug/L	1		08/05/21 10:12
Copper	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:12
Iron	250 U	250	78.0	ug/L	1		08/05/21 10:12
Lead	0.200 U	0.200	0.0700	ug/L	1		08/05/21 10:12
Magnesium	963	50.0	15.0	ug/L	1		08/05/21 10:12
Manganese	1.81	1.00	0.350	ug/L	1		08/05/21 10:12
Molybdenum	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:12
Nickel	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:12
Phosphorus	200 U	200	62.0	ug/L	1		08/05/21 10:12
Potassium	825	500	150	ug/L	1		08/05/21 10:12
Selenium	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:12
Silicon	1530	1000	310	ug/L	1		08/05/21 10:12
Silver	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:12
Sodium	1380	500	150	ug/L	1		08/05/21 10:12
Thallium	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:12
Tin	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:12
Titanium	6.25 U	6.25	3.13	ug/L	1		08/05/21 10:12
Vanadium	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:12
Zinc	15.2	10.0	3.10	ug/L	1		08/05/21 10:12

## Batch Information

Analytical Batch: MMS11228  
 Analytical Method: EP200.8  
 Analyst: AKA  
 Analytical Date/Time: 08/05/21 10:12  
 Container ID: 1214655032-A

Prep Batch: MXX34483  
 Prep Method: E200.2  
 Prep Date/Time: 08/01/21 14:32  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Print Date: 08/24/2021 11:26:04AM



## Results of RM 19 - Slikok Creek

Client Sample ID: **RM 19 - Slikok Creek**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655033  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:28  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Dissolved Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:14
Antimony	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:14
Arsenic	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:14
Barium	12.9	3.00	0.940	ug/L	1		08/05/21 10:14
Beryllium	0.400 U	0.400	0.130	ug/L	1		08/05/21 10:14
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/05/21 10:14
Calcium	18400	500	150	ug/L	1		08/05/21 10:14
Chromium	5.00 U	5.00	2.50	ug/L	1		08/05/21 10:14
Cobalt	4.00 U	4.00	1.20	ug/L	1		08/05/21 10:14
Copper	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:14
Iron	408	250	78.0	ug/L	1		08/05/21 10:14
Lead	0.200 U	0.200	0.0700	ug/L	1		08/05/21 10:14
Magnesium	4330	50.0	15.0	ug/L	1		08/05/21 10:14
Manganese	80.2	1.00	0.350	ug/L	1		08/05/21 10:14
Molybdenum	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:14
Nickel	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:14
Phosphorus	200 U	200	62.0	ug/L	1		08/05/21 10:14
Potassium	918	500	150	ug/L	1		08/05/21 10:14
Selenium	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:14
Silicon	9220	1000	310	ug/L	1		08/05/21 10:14
Silver	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:14
Sodium	4810	500	150	ug/L	1		08/05/21 10:14
Thallium	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:14
Tin	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:14
Titanium	6.25 U	6.25	3.13	ug/L	1		08/05/21 10:14
Vanadium	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:14
Zinc	10.0 U	10.0	3.10	ug/L	1		08/05/21 10:14

## Batch Information

Analytical Batch: MMS11228  
 Analytical Method: EP200.8  
 Analyst: AKA  
 Analytical Date/Time: 08/05/21 10:14  
 Container ID: 1214655033-A

Prep Batch: MXX34483  
 Prep Method: E200.2  
 Prep Date/Time: 08/01/21 14:32  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 21 - Soldotna Bridge

Client Sample ID: **RM 21 - Soldotna Bridge**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655034  
 Lab Project ID: 1214655

Collection Date: 07/27/21 10:10  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Dissolved Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:17
Antimony	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:17
Arsenic	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:17
Barium	8.69	3.00	0.940	ug/L	1		08/05/21 10:17
Beryllium	0.400 U	0.400	0.130	ug/L	1		08/05/21 10:17
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/05/21 10:17
Calcium	13800	500	150	ug/L	1		08/05/21 10:17
Chromium	5.00 U	5.00	2.50	ug/L	1		08/05/21 10:17
Cobalt	4.00 U	4.00	1.20	ug/L	1		08/05/21 10:17
Copper	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:17
Iron	250 U	250	78.0	ug/L	1		08/05/21 10:17
Lead	0.200 U	0.200	0.0700	ug/L	1		08/05/21 10:17
Magnesium	953	50.0	15.0	ug/L	1		08/05/21 10:17
Manganese	1.98	1.00	0.350	ug/L	1		08/05/21 10:17
Molybdenum	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:17
Nickel	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:17
Phosphorus	200 U	200	62.0	ug/L	1		08/05/21 10:17
Potassium	827	500	150	ug/L	1		08/05/21 10:17
Selenium	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:17
Silicon	1560	1000	310	ug/L	1		08/05/21 10:17
Silver	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:17
Sodium	1350	500	150	ug/L	1		08/05/21 10:17
Thallium	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:17
Tin	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:17
Titanium	6.25 U	6.25	3.13	ug/L	1		08/05/21 10:17
Vanadium	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:17
Zinc	24.0	10.0	3.10	ug/L	1		08/05/21 10:17

## Batch Information

Analytical Batch: MMS11228  
 Analytical Method: EP200.8  
 Analyst: AKA  
 Analytical Date/Time: 08/05/21 10:17  
 Container ID: 1214655034-A

Prep Batch: MXX34483  
 Prep Method: E200.2  
 Prep Date/Time: 08/01/21 14:32  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 22 - Soldotna Creek

Client Sample ID: **RM 22 - Soldotna Creek**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655035  
 Lab Project ID: 1214655

Collection Date: 07/27/21 11:25  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Dissolved Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:25
Antimony	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:25
Arsenic	8.75	5.00	1.50	ug/L	1		08/05/21 10:25
Barium	14.0	3.00	0.940	ug/L	1		08/05/21 10:25
Beryllium	0.400 U	0.400	0.130	ug/L	1		08/05/21 10:25
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/05/21 10:25
Calcium	20900	500	150	ug/L	1		08/05/21 10:25
Chromium	5.00 U	5.00	2.50	ug/L	1		08/05/21 10:25
Cobalt	4.00 U	4.00	1.20	ug/L	1		08/05/21 10:25
Copper	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:25
Iron	357	250	78.0	ug/L	1		08/05/21 10:25
Lead	0.200 U	0.200	0.0700	ug/L	1		08/05/21 10:25
Magnesium	4660	50.0	15.0	ug/L	1		08/05/21 10:25
Manganese	91.7	1.00	0.350	ug/L	1		08/05/21 10:25
Molybdenum	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:25
Nickel	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:25
Phosphorus	200 U	200	62.0	ug/L	1		08/05/21 10:25
Potassium	1520	500	150	ug/L	1		08/05/21 10:25
Selenium	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:25
Silicon	10800	1000	310	ug/L	1		08/05/21 10:25
Silver	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:25
Sodium	6020	500	150	ug/L	1		08/05/21 10:25
Thallium	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:25
Tin	2.88	1.00	0.310	ug/L	1		08/05/21 10:25
Titanium	6.25 U	6.25	3.13	ug/L	1		08/05/21 10:25
Vanadium	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:25
Zinc	15.9	10.0	3.10	ug/L	1		08/05/21 10:25

## Batch Information

Analytical Batch: MMS11228  
 Analytical Method: EP200.8  
 Analyst: AKA  
 Analytical Date/Time: 08/05/21 10:25  
 Container ID: 1214655035-A

Prep Batch: MXX34483  
 Prep Method: E200.2  
 Prep Date/Time: 08/01/21 14:32  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Print Date: 08/24/2021 11:26:04AM

## Results of RM 23 - Swiftwater Park

Client Sample ID: **RM 23 - Swiftwater Park**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655036  
 Lab Project ID: 1214655

Collection Date: 07/27/21 10:43  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Dissolved Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:28
Antimony	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:28
Arsenic	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:28
Barium	8.71	3.00	0.940	ug/L	1		08/05/21 10:28
Beryllium	0.400 U	0.400	0.130	ug/L	1		08/05/21 10:28
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/05/21 10:28
Calcium	13700	500	150	ug/L	1		08/05/21 10:28
Chromium	5.00 U	5.00	2.50	ug/L	1		08/05/21 10:28
Cobalt	4.00 U	4.00	1.20	ug/L	1		08/05/21 10:28
Copper	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:28
Iron	250 U	250	78.0	ug/L	1		08/05/21 10:28
Lead	0.200 U	0.200	0.0700	ug/L	1		08/05/21 10:28
Magnesium	936	50.0	15.0	ug/L	1		08/05/21 10:28
Manganese	3.83	1.00	0.350	ug/L	1		08/05/21 10:28
Molybdenum	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:28
Nickel	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:28
Phosphorus	200 U	200	62.0	ug/L	1		08/05/21 10:28
Potassium	810	500	150	ug/L	1		08/05/21 10:28
Selenium	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:28
Silicon	1490	1000	310	ug/L	1		08/05/21 10:28
Silver	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:28
Sodium	1310	500	150	ug/L	1		08/05/21 10:28
Thallium	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:28
Tin	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:28
Titanium	6.25 U	6.25	3.13	ug/L	1		08/05/21 10:28
Vanadium	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:28
Zinc	10.4	10.0	3.10	ug/L	1		08/05/21 10:28

## Batch Information

Analytical Batch: MMS11228  
 Analytical Method: EP200.8  
 Analyst: AKA  
 Analytical Date/Time: 08/05/21 10:28  
 Container ID: 1214655036-A

Prep Batch: MXX34483  
 Prep Method: E200.2  
 Prep Date/Time: 08/01/21 14:32  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

## Results of RM 30 - Funny River

Client Sample ID: **RM 30 - Funny River**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655037  
 Lab Project ID: 1214655

Collection Date: 07/27/21 09:30  
 Received Date: 07/27/21 16:39  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

## Results by Dissolved Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:31
Antimony	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:31
Arsenic	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:31
Barium	6.69	3.00	0.940	ug/L	1		08/05/21 10:31
Beryllium	0.400 U	0.400	0.130	ug/L	1		08/05/21 10:31
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/05/21 10:31
Calcium	11800	500	150	ug/L	1		08/05/21 10:31
Chromium	5.00 U	5.00	2.50	ug/L	1		08/05/21 10:31
Cobalt	4.00 U	4.00	1.20	ug/L	1		08/05/21 10:31
Copper	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:31
Iron	257	250	78.0	ug/L	1		08/05/21 10:31
Lead	0.200 U	0.200	0.0700	ug/L	1		08/05/21 10:31
Magnesium	3050	50.0	15.0	ug/L	1		08/05/21 10:31
Manganese	33.6	1.00	0.350	ug/L	1		08/05/21 10:31
Molybdenum	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:31
Nickel	2.00 U	2.00	0.620	ug/L	1		08/05/21 10:31
Phosphorus	200 U	200	62.0	ug/L	1		08/05/21 10:31
Potassium	688	500	150	ug/L	1		08/05/21 10:31
Selenium	5.00 U	5.00	1.50	ug/L	1		08/05/21 10:31
Silicon	7830	1000	310	ug/L	1		08/05/21 10:31
Silver	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:31
Sodium	3270	500	150	ug/L	1		08/05/21 10:31
Thallium	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:31
Tin	1.00 U	1.00	0.310	ug/L	1		08/05/21 10:31
Titanium	6.25 U	6.25	3.13	ug/L	1		08/05/21 10:31
Vanadium	20.0 U	20.0	6.20	ug/L	1		08/05/21 10:31
Zinc	10.0 U	10.0	3.10	ug/L	1		08/05/21 10:31

## Batch Information

Analytical Batch: MMS11228  
 Analytical Method: EP200.8  
 Analyst: AKA  
 Analytical Date/Time: 08/05/21 10:31  
 Container ID: 1214655037-A

Prep Batch: MXX34483  
 Prep Method: E200.2  
 Prep Date/Time: 08/01/21 14:32  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

## Results of Trip Blank 1

Client Sample ID: **Trip Blank 1**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655038  
 Lab Project ID: 1214655

Collection Date: 07/27/21 08:50  
 Received Date: 07/27/21 16:39  
 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>
Benzene	0.400 U	0.400	0.120	ug/L	1		08/05/21 19:16
Ethylbenzene	1.00 U	1.00	0.310	ug/L	1		08/05/21 19:16
o-Xylene	1.00 U	1.00	0.310	ug/L	1		08/05/21 19:16
P & M -Xylene	2.00 U	2.00	0.620	ug/L	1		08/05/21 19:16
Toluene	1.00 U	1.00	0.310	ug/L	1		08/05/21 19:16
Xylenes (total)	3.00 U	3.00	1.00	ug/L	1		08/05/21 19:16
<b>Surrogates</b>							
1,2-Dichloroethane-D4 (surr)	107	81-118		%	1		08/05/21 19:16
4-Bromofluorobenzene (surr)	99.4	85-114		%	1		08/05/21 19:16
Toluene-d8 (surr)	100	89-112		%	1		08/05/21 19:16

## Batch Information

Analytical Batch: VMS21023  
 Analytical Method: SW8260D  
 Analyst: JMG  
 Analytical Date/Time: 08/05/21 19:16  
 Container ID: 1214655038-A

Prep Batch: VXX37591  
 Prep Method: SW5030B  
 Prep Date/Time: 08/05/21 06:00  
 Prep Initial Wt./Vol.: 5 mL  
 Prep Extract Vol: 5 mL

Print Date: 08/24/2021 11:26:04AM

## Results of Trip Blank 2

Client Sample ID: **Trip Blank 2**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655039  
 Lab Project ID: 1214655

Collection Date: 07/27/21 08:50  
 Received Date: 07/27/21 16:39  
 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>
Benzene	0.400 U	0.400	0.120	ug/L	1		08/05/21 19:31
Ethylbenzene	1.00 U	1.00	0.310	ug/L	1		08/05/21 19:31
o-Xylene	1.00 U	1.00	0.310	ug/L	1		08/05/21 19:31
P & M -Xylene	2.00 U	2.00	0.620	ug/L	1		08/05/21 19:31
Toluene	1.00 U	1.00	0.310	ug/L	1		08/05/21 19:31
Xylenes (total)	3.00 U	3.00	1.00	ug/L	1		08/05/21 19:31
<b>Surrogates</b>							
1,2-Dichloroethane-D4 (surr)	106	81-118		%	1		08/05/21 19:31
4-Bromofluorobenzene (surr)	100	85-114		%	1		08/05/21 19:31
Toluene-d8 (surr)	100	89-112		%	1		08/05/21 19:31

## Batch Information

Analytical Batch: VMS21023  
 Analytical Method: SW8260D  
 Analyst: JMG  
 Analytical Date/Time: 08/05/21 19:31  
 Container ID: 1214655039-A

Prep Batch: VXX37591  
 Prep Method: SW5030B  
 Prep Date/Time: 08/05/21 06:00  
 Prep Initial Wt./Vol.: 5 mL  
 Prep Extract Vol: 5 mL

Print Date: 08/24/2021 11:26:04AM

## Results of Trip Blank 3

Client Sample ID: **Trip Blank 3**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655040  
 Lab Project ID: 1214655

Collection Date: 07/27/21 08:50  
 Received Date: 07/27/21 16:39  
 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>
Benzene	0.400 U	0.400	0.120	ug/L	1		08/05/21 19:46
Ethylbenzene	1.00 U	1.00	0.310	ug/L	1		08/05/21 19:46
o-Xylene	1.00 U	1.00	0.310	ug/L	1		08/05/21 19:46
P & M -Xylene	2.00 U	2.00	0.620	ug/L	1		08/05/21 19:46
Toluene	1.00 U	1.00	0.310	ug/L	1		08/05/21 19:46
Xylenes (total)	3.00 U	3.00	1.00	ug/L	1		08/05/21 19:46
<b>Surrogates</b>							
1,2-Dichloroethane-D4 (surr)	106	81-118		%	1		08/05/21 19:46
4-Bromofluorobenzene (surr)	100	85-114		%	1		08/05/21 19:46
Toluene-d8 (surr)	99.9	89-112		%	1		08/05/21 19:46

## Batch Information

Analytical Batch: VMS21023  
 Analytical Method: SW8260D  
 Analyst: JMG  
 Analytical Date/Time: 08/05/21 19:46  
 Container ID: 1214655040-A

Prep Batch: VXX37591  
 Prep Method: SW5030B  
 Prep Date/Time: 08/05/21 06:00  
 Prep Initial Wt./Vol.: 5 mL  
 Prep Extract Vol: 5 mL

Print Date: 08/24/2021 11:26:04AM



## Results of Trip Blank 4

Client Sample ID: **Trip Blank 4**  
 Client Project ID: **KenaiRiver Wtr Qlty Monitoring**  
 Lab Sample ID: 1214655041  
 Lab Project ID: 1214655

Collection Date: 07/27/21 08:50  
 Received Date: 07/27/21 16:39  
 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>
Benzene	0.400 U	0.400	0.120	ug/L	1		08/05/21 20:01
Ethylbenzene	1.00 U	1.00	0.310	ug/L	1		08/05/21 20:01
o-Xylene	1.00 U	1.00	0.310	ug/L	1		08/05/21 20:01
P & M -Xylene	2.00 U	2.00	0.620	ug/L	1		08/05/21 20:01
Toluene	1.00 U	1.00	0.310	ug/L	1		08/05/21 20:01
Xylenes (total)	3.00 U	3.00	1.00	ug/L	1		08/05/21 20:01
<b>Surrogates</b>							
1,2-Dichloroethane-D4 (surr)	106	81-118		%	1		08/05/21 20:01
4-Bromofluorobenzene (surr)	99.9	85-114		%	1		08/05/21 20:01
Toluene-d8 (surr)	99.4	89-112		%	1		08/05/21 20:01

## Batch Information

Analytical Batch: VMS21023  
 Analytical Method: SW8260D  
 Analyst: JMG  
 Analytical Date/Time: 08/05/21 20:01  
 Container ID: 1214655041-A

Prep Batch: VXX37591  
 Prep Method: SW5030B  
 Prep Date/Time: 08/05/21 06:00  
 Prep Initial Wt./Vol.: 5 mL  
 Prep Extract Vol: 5 mL

Print Date: 08/24/2021 11:26:04AM

## Method Blank

Blank ID: MB for HBN 1823321 [MXX/34483]  
Blank Lab ID: 1627152

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1214655025, 1214655026, 1214655027, 1214655028, 1214655029, 1214655030, 1214655031, 1214655032, 1214655033,  
1214655034, 1214655035, 1214655036, 1214655037

## Results by EP200.8

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Aluminum	10.0U	20.0	6.20	ug/L
Antimony	0.500U	1.00	0.310	ug/L
Arsenic	2.50U	5.00	1.50	ug/L
Barium	1.50U	3.00	0.940	ug/L
Beryllium	0.200U	0.400	0.130	ug/L
Cadmium	0.250U	0.500	0.150	ug/L
Calcium	250U	500	150	ug/L
Chromium	2.50U	5.00	2.50	ug/L
Cobalt	2.00U	4.00	1.20	ug/L
Copper	0.500U	1.00	0.310	ug/L
Iron	125U	250	78.0	ug/L
Lead	0.100U	0.200	0.0700	ug/L
Magnesium	25.0U	50.0	15.0	ug/L
Manganese	0.500U	1.00	0.350	ug/L
Molybdenum	1.00U	2.00	0.620	ug/L
Nickel	1.00U	2.00	0.620	ug/L
Phosphorus	100U	200	62.0	ug/L
Potassium	250U	500	150	ug/L
Selenium	2.50U	5.00	1.50	ug/L
Silicon	500U	1000	310	ug/L
Silver	0.500U	1.00	0.310	ug/L
Sodium	250U	500	150	ug/L
Thallium	0.500U	1.00	0.310	ug/L
Tin	0.500U	1.00	0.310	ug/L
Titanium	12.5U	25.0	7.75	ug/L
Vanadium	10.0U	20.0	6.20	ug/L
Zinc	5.00U	10.0	3.10	ug/L

Print Date: 08/24/2021 11:26:08AM

## Method Blank

Blank ID: MB for HBN 1823321 [MXX/34483]  
Blank Lab ID: 1627152

Matrix: Water (Surface, Eff., Ground)

### QC for Samples:

1214655025, 1214655026, 1214655027, 1214655028, 1214655029, 1214655030, 1214655031, 1214655032, 1214655033,  
1214655034, 1214655035, 1214655036, 1214655037

## Results by EP200.8

Parameter	Results	LOQ/CL	DL	Units
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### Batch Information

Analytical Batch: MMS11228  
Analytical Method: EP200.8  
Instrument: P7 Agilent 7800  
Analyst: AKA  
Analytical Date/Time: 8/5/2021 9:06:00AM

Prep Batch: MXX34483  
Prep Method: E200.2  
Prep Date/Time: 8/1/2021 2:32:23PM  
Prep Initial Wt./Vol.: 20 mL  
Prep Extract Vol: 50 mL

Analytical Batch: MMS11231  
Analytical Method: EP200.8  
Instrument: P7 Agilent 7800  
Analyst: AKA  
Analytical Date/Time: 8/6/2021 10:06:03AM

Prep Batch: MXX34483  
Prep Method: E200.2  
Prep Date/Time: 8/1/2021 2:32:23PM  
Prep Initial Wt./Vol.: 20 mL  
Prep Extract Vol: 50 mL

Print Date: 08/24/2021 11:26:08AM

## Blank Spike Summary

Blank Spike ID: LCS for HBN 1214655 [MXX34483]

Blank Spike Lab ID: 1627153

Date Analyzed: 08/05/2021 09:09

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214655025, 1214655026, 1214655027, 1214655028, 1214655029, 1214655030, 1214655031, 1214655032, 1214655033, 1214655034, 1214655035, 1214655036, 1214655037

## Results by EP200.8

### Blank Spike (ug/L)

Parameter	Spike	Result	Rec (%)	CL
Aluminum	1000	967	97	( 85-115 )
Antimony	1000	994	99	( 85-115 )
Arsenic	1000	1010	101	( 85-115 )
Barium	1000	973	97	( 85-115 )
Beryllium	100	97.4	97	( 85-115 )
Cadmium	100	97.1	97	( 85-115 )
Calcium	10000	9800	98	( 85-115 )
Chromium	400	388	97	( 85-115 )
Cobalt	500	488	98	( 85-115 )
Copper	1000	996	100	( 85-115 )
Iron	5000	4950	99	( 85-115 )
Lead	1000	992	99	( 85-115 )
Magnesium	10000	9810	98	( 85-115 )
Manganese	500	487	98	( 85-115 )
Molybdenum	400	376	94	( 85-115 )
Nickel	1000	999	100	( 85-115 )
Phosphorus	500	492	99	( 85-115 )
Potassium	10000	9880	99	( 85-115 )
Selenium	1000	978	98	( 85-115 )
Silicon	10000	9760	98	( 85-115 )
Silver	100	99.4	99	( 85-115 )
Sodium	10000	9880	99	( 85-115 )
Thallium	10	9.94	99	( 85-115 )
Tin	100	99.5	100	( 85-115 )
Titanium	100	99.2	99	( 85-115 )
Vanadium	200	189	94	( 85-115 )
Zinc	1000	1010	101	( 85-115 )

## Batch Information

Analytical Batch: MMS11228

Analytical Method: EP200.8

Instrument: P7 Agilent 7800

Analyst: AKA

Prep Batch: MXX34483

Prep Method: E200.2

Prep Date/Time: 08/01/2021 14:32

Spike Init Wt./Vol.: 1000 ug/L Extract Vol: 50 mL

Dupe Init Wt./Vol.: Extract Vol:

Print Date: 08/24/2021 11:26:11AM

## Matrix Spike Summary

Original Sample ID: 1627155  
MS Sample ID: 1627156 MS  
MSD Sample ID:

Analysis Date: 08/05/2021 9:14  
Analysis Date: 08/05/2021 9:17  
Analysis Date:  
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214655025, 1214655026, 1214655027, 1214655028, 1214655029, 1214655030, 1214655031, 1214655032, 1214655033, 1214655034, 1214655035, 1214655036, 1214655037

## Results by EP200.8

Parameter	Sample	Matrix Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Aluminum	10.0U	1000	965	97				70-130		
Antimony	0.366J	1000	1010	101				70-130		
Arsenic	2.11J	1000	1000	100				70-130		
Barium	1.50U	1000	988	99				70-130		
Beryllium	0.200U	100	97.1	97				70-130		
Cadmium	0.250U	100	96.5	97				70-130		
Calcium	250U	10000	9750	98				70-130		
Chromium	2.50U	400	386	97				70-130		
Cobalt	2.00U	500	486	97				70-130		
Copper	5.83	1000	996	99				70-130		
Iron	125U	5000	4920	98				70-130		
Lead	0.306	1000	988	99				70-130		
Magnesium	25.0U	10000	9830	98				70-130		
Manganese	0.500U	500	487	97				70-130		
Molybdenum	1.42J	400	381	95				70-130		
Nickel	1.00U	1000	1000	100				70-130		
Phosphorus	100U	500	505	101				70-130		
Potassium	274J	10000	10100	98				70-130		
Selenium	2.50U	1000	979	98				70-130		
Silicon	6490	10000	16100	96				70-130		
Silver	0.500U	100	98.4	98				70-130		
Sodium	104000	10000	112000	83				70-130		
Thallium	0.500U	10.0	9.84	98				70-130		
Tin	0.500U	100	100	100				70-130		
Titanium	12.5U	100	99.7	100				70-130		
Vanadium	10.0U	200	189	95				70-130		
Zinc	8.24J	1000	1010	100				70-130		

## Batch Information

Analytical Batch: MMS11228  
Analytical Method: EP200.8  
Instrument: P7 Agilent 7800  
Analyst: AKA  
Analytical Date/Time: 8/5/2021 9:17:33AM

Prep Batch: MX34483  
Prep Method: DW Digest for Metals on ICP-MS  
Prep Date/Time: 8/1/2021 2:32:23PM  
Prep Initial Wt./Vol.: 20.00mL  
Prep Extract Vol: 50.00mL

Print Date: 08/24/2021 11:26:12AM

## Matrix Spike Summary

Original Sample ID: 1627157  
MS Sample ID: 1627158 MS  
MSD Sample ID:

Analysis Date: 08/05/2021 9:20  
Analysis Date: 08/05/2021 9:22  
Analysis Date:  
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214655025, 1214655026, 1214655027, 1214655028, 1214655029, 1214655030, 1214655031, 1214655032, 1214655033, 1214655034, 1214655035, 1214655036, 1214655037

## Results by EP200.8

Parameter	Sample	Matrix Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Aluminum	11.6J	1000	982	97				70-130		
Antimony	2.02	1000	1000	100				70-130		
Arsenic	2.61J	1000	1010	101				70-130		
Barium	8.83	1000	993	98				70-130		
Beryllium	0.216J	100	98.3	98				70-130		
Cadmium	0.188J	100	98.3	98				70-130		
Calcium	42500	10000	51800	92				70-130		
Chromium	2.50U	400	392	98				70-130		
Cobalt	2.00U	500	488	98				70-130		
Copper	72.8	1000	1070	100				70-130		
Iron	125U	5000	4970	99				70-130		
Lead	2.01	1000	1010	101				70-130		
Magnesium	4390	10000	14100	97				70-130		
Manganese	1.63	500	490	98				70-130		
Molybdenum	1.09J	400	383	96				70-130		
Nickel	3.83	1000	998	99				70-130		
Phosphorus	100U	500	503	101				70-130		
Potassium	543	10000	10400	98				70-130		
Selenium	2.14J	1000	997	100				70-130		
Silicon	5260	10000	14900	97				70-130		
Silver	0.500U	100	99.4	99				70-130		
Sodium	6960	10000	16500	96				70-130		
Thallium	0.500U	10.0	10.1	101				70-130		
Tin	0.500U	100	101	101				70-130		
Titanium	12.5U	100	101	101				70-130		
Vanadium	10.0U	200	191	96				70-130		
Zinc	40.6	1000	1020	98				70-130		

## Batch Information

Analytical Batch: MMS11228  
Analytical Method: EP200.8  
Instrument: P7 Agilent 7800  
Analyst: AKA  
Analytical Date/Time: 8/5/2021 9:22:56AM

Prep Batch: MX34483  
Prep Method: DW Digest for Metals on ICP-MS  
Prep Date/Time: 8/1/2021 2:32:23PM  
Prep Initial Wt./Vol.: 20.00mL  
Prep Extract Vol: 50.00mL

Print Date: 08/24/2021 11:26:12AM

## Method Blank

Blank ID: MB for HBN 1823630 [VXX/37591]  
Blank Lab ID: 1628454

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1214655003, 1214655004, 1214655017, 1214655018, 1214655038, 1214655039, 1214655040, 1214655041

## Results by SW8260D

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Benzene	0.200U	0.400	0.120	ug/L
Ethylbenzene	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
Toluene	0.500U	1.00	0.310	ug/L
Xylenes (total)	1.50U	3.00	1.00	ug/L

## Surrogates

1,2-Dichloroethane-D4 (surr)	104	81-118	%
4-Bromofluorobenzene (surr)	100	85-114	%
Toluene-d8 (surr)	100	89-112	%

## Batch Information

Analytical Batch: VMS21023  
Analytical Method: SW8260D  
Instrument: VPA 780/5975 GC/MS  
Analyst: JMG  
Analytical Date/Time: 8/5/2021 4:34:00PM

Prep Batch: VXX37591  
Prep Method: SW5030B  
Prep Date/Time: 8/5/2021 6:00:00AM  
Prep Initial Wt./Vol.: 5 mL  
Prep Extract Vol: 5 mL

## Blank Spike Summary

Blank Spike ID: LCS for HBN 1214655 [VXX37591]  
 Blank Spike Lab ID: 1628455  
 Date Analyzed: 08/05/2021 16:49

Spike Duplicate ID: LCSD for HBN 1214655  
 [VXX37591]  
 Spike Duplicate Lab ID: 1628456  
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214655003, 1214655004, 1214655017, 1214655018, 1214655038, 1214655039, 1214655040, 1214655041

## Results by SW8260D

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Benzene	30	30.0	100	30	30.3	101	( 79-120 )	1.20	(< 20 )
Ethylbenzene	30	30.6	102	30	30.5	102	( 79-121 )	0.34	(< 20 )
o-Xylene	30	30.7	102	30	30.7	102	( 78-122 )	0.02	(< 20 )
P & M -Xylene	60	61.5	102	60	61.4	102	( 80-121 )	0.16	(< 20 )
Toluene	30	29.4	98	30	29.6	99	( 80-121 )	0.67	(< 20 )
Xylenes (total)	90	92.2	102	90	92.1	102	( 79-121 )	0.10	(< 20 )
<b>Surrogates</b>									
1,2-Dichloroethane-D4 (surr)	30		101	30		100	( 81-118 )	0.06	
4-Bromofluorobenzene (surr)	30		97	30		99	( 85-114 )	1.70	
Toluene-d8 (surr)	30		101	30		100	( 89-112 )	0.35	

## Batch Information

Analytical Batch: VMS21023  
 Analytical Method: SW8260D  
 Instrument: VPA 780/5975 GC/MS  
 Analyst: JMG

Prep Batch: VXX37591  
 Prep Method: SW5030B  
 Prep Date/Time: 08/05/2021 06:00  
 Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL  
 Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL



## Method Blank

Blank ID: MB for HBN 1823365 (WFI/2945)  
Blank Lab ID: 1627306

Matrix: Water (Surface, Eff., Ground)

### QC for Samples:

1214655001, 1214655002, 1214655003, 1214655004, 1214655005, 1214655006, 1214655007, 1214655008, 1214655009,  
1214655010, 1214655011, 1214655012, 1214655013, 1214655014, 1214655015, 1214655016, 1214655017, 1214655018,  
1214655019, 1214655020, 1214655021, 1214655022, 1214655023, 1214655024

## Results by SM21 4500NO3-F

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Nitrate-N	0.100U	0.200	0.0500	mg/L
Nitrite-N	0.100U	0.200	0.0500	mg/L
Total Nitrate/Nitrite-N	0.100U	0.200	0.0500	mg/L

## Batch Information

Analytical Batch: WFI2945  
Analytical Method: SM21 4500NO3-F  
Instrument: Astoria segmented flow  
Analyst: EBH  
Analytical Date/Time: 8/2/2021 12:26:17PM

## Method Blank

Blank ID: MB for HBN 1823365 (WFI/2945)  
Blank Lab ID: 1627312

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1214655001, 1214655002, 1214655003, 1214655004, 1214655005, 1214655006, 1214655007, 1214655008, 1214655009, 1214655010, 1214655011, 1214655012, 1214655013, 1214655014, 1214655015, 1214655016, 1214655017, 1214655018

## Results by SM21 4500NO3-F

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Nitrate-N	0.100U	0.200	0.0500	mg/L
Nitrite-N	0.100U	0.200	0.0500	mg/L
Total Nitrate/Nitrite-N	0.100U	0.200	0.0500	mg/L

## Batch Information

Analytical Batch: WFI2945  
Analytical Method: SM21 4500NO3-F  
Instrument: Astoria segmented flow  
Analyst: EBH  
Analytical Date/Time: 8/2/2021 11:40:48AM

Print Date: 08/24/2021 11:26:19AM

## Method Blank

Blank ID: MB for HBN 1823365 (WFI/2945)

Blank Lab ID: 1627318

QC for Samples:

Matrix: Water (Surface, Eff., Ground)

## Results by SM21 4500NO3-F

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Nitrate-N	0.100U	0.200	0.0500	mg/L
Nitrite-N	0.100U	0.200	0.0500	mg/L
Total Nitrate/Nitrite-N	0.100U	0.200	0.0500	mg/L

## Batch Information

Analytical Batch: WFI2945

Analytical Method: SM21 4500NO3-F

Instrument: Astoria segmented flow

Analyst: EBH

Analytical Date/Time: 8/2/2021 10:55:17AM

Print Date: 08/24/2021 11:26:19AM

## Blank Spike Summary

Blank Spike ID: LCS for HBN 1214655 [WFI2945]

Blank Spike Lab ID: 1627308

Date Analyzed: 08/02/2021 12:24

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214655001, 1214655002, 1214655003, 1214655004, 1214655005, 1214655006, 1214655007, 1214655008, 1214655009, 1214655010, 1214655011, 1214655012, 1214655013, 1214655014, 1214655015, 1214655016, 1214655017, 1214655018, 1214655019, 1214655020, 1214655021,

## Results by SM21 4500NO3-F

### Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.13	85	( 70-130 )
Nitrite-N	2.5	2.58	103	( 90-110 )
Total Nitrate/Nitrite-N	5	4.70	94	( 90-110 )

## Batch Information

Analytical Batch: WFI2945

Analytical Method: SM21 4500NO3-F

Instrument: Astoria segmented flow

Analyst: EBH

## Blank Spike Summary

Blank Spike ID: LCS for HBN 1214655 [WFI2945]

Blank Spike Lab ID: 1627314

Date Analyzed: 08/02/2021 11:39

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214655001, 1214655002, 1214655003, 1214655004, 1214655005, 1214655006, 1214655007, 1214655008, 1214655009, 1214655010, 1214655011, 1214655012, 1214655013, 1214655014, 1214655015, 1214655016, 1214655017, 1214655018

## Results by SM21 4500NO3-F

Blank Spike (mg/L)				
Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.09	84	( 70-130 )
Nitrite-N	2.5	2.52	101	( 90-110 )
Total Nitrate/Nitrite-N	5	4.61	92	( 90-110 )

## Batch Information

Analytical Batch: WFI2945

Analytical Method: SM21 4500NO3-F

Instrument: Astoria segmented flow

Analyst: EBH

## Blank Spike Summary

Blank Spike ID: LCS for HBN 1214655 [WFI2945]

Blank Spike Lab ID: 1627320

Date Analyzed: 08/02/2021 10:53

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

## Results by SM21 4500NO3-F

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.20	88	( 70-130 )
Nitrite-N	2.5	2.53	101	( 90-110 )
Total Nitrate/Nitrite-N	5	4.73	95	( 90-110 )

## Batch Information

Analytical Batch: WFI2945

Analytical Method: SM21 4500NO3-F

Instrument: Astoria segmented flow

Analyst: EBH

Print Date: 08/24/2021 11:26:21AM

## Matrix Spike Summary

Original Sample ID: 1214541001  
MS Sample ID: 1627292 MS  
MSD Sample ID: 1627293 MSD

Analysis Date: 08/02/2021 10:15  
Analysis Date: 08/02/2021 10:16  
Analysis Date: 08/02/2021 10:18  
Matrix: Drinking Water

QC for Samples:

## Results by SM21 4500NO3-F

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Nitrate/Nitrite-N	1.97	5.00	7.11	103	5.00	7.29	106	90-110	2.50	(< 25 )

## Batch Information

Analytical Batch: WFI2945  
Analytical Method: SM21 4500NO3-F  
Instrument: Astoria segmented flow  
Analyst: EBH  
Analytical Date/Time: 8/2/2021 10:16:00AM

Print Date: 08/24/2021 11:26:23AM

## Matrix Spike Summary

Original Sample ID: 1214596001  
MS Sample ID: 1627294 MS  
MSD Sample ID: 1627295 MSD

Analysis Date: 08/02/2021 10:58  
Analysis Date: 08/02/2021 11:00  
Analysis Date: 08/02/2021 11:02  
Matrix: Drinking Water

QC for Samples: 1214655001

## Results by SM21 4500NO3-F

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Nitrate/Nitrite-N	0.100U	5.00	5.1	102	5.00	4.94	99	90-110	3.10	(< 25 )

## Batch Information

Analytical Batch: WFI2945  
Analytical Method: SM21 4500NO3-F  
Instrument: Astoria segmented flow  
Analyst: EBH  
Analytical Date/Time: 8/2/2021 11:00:00AM

Print Date: 08/24/2021 11:26:23AM



## Matrix Spike Summary

Original Sample ID: 1214655001  
MS Sample ID: 1627296 MS  
MSD Sample ID: 1627297 MSD

Analysis Date: 08/02/2021 11:44  
Analysis Date: 08/02/2021 11:46  
Analysis Date: 08/02/2021 11:47  
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214655001, 1214655002, 1214655003, 1214655004, 1214655005, 1214655006, 1214655007, 1214655008, 1214655009, 1214655010, 1214655011, 1214655012, 1214655013, 1214655014, 1214655015, 1214655016, 1214655017, 1214655018, 1214655019

## Results by SM21 4500NO3-F

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Nitrate/Nitrite-N	0.200U	5.00	5.32	106	5.00	5.25	105	90-110	1.20	(< 25 )

## Batch Information

Analytical Batch: WFI2945  
Analytical Method: SM21 4500NO3-F  
Instrument: Astoria segmented flow  
Analyst: EBH  
Analytical Date/Time: 8/2/2021 11:46:00AM

Print Date: 08/24/2021 11:26:23AM

## Matrix Spike Summary

Original Sample ID: 1214655019  
MS Sample ID: 1627298 MS  
MSD Sample ID: 1627299 MSD

Analysis Date: 08/02/2021 12:29  
Analysis Date: 08/02/2021 12:31  
Analysis Date: 08/02/2021 12:33  
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214655002, 1214655003, 1214655004, 1214655005, 1214655006, 1214655007, 1214655008, 1214655009, 1214655010, 1214655011, 1214655012, 1214655013, 1214655014, 1214655015, 1214655016, 1214655017, 1214655018, 1214655019, 1214655020, 1214655021, 1214655022.

## Results by SM21 4500NO3-F

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Nitrate/Nitrite-N	0.200U	5.00	5.23	105	5.00	5.36	107	90-110	2.40	(< 25 )

## Batch Information

Analytical Batch: WFI2945  
Analytical Method: SM21 4500NO3-F  
Instrument: Astoria segmented flow  
Analyst: EBH  
Analytical Date/Time: 8/2/2021 12:31:00PM

Print Date: 08/24/2021 11:26:23AM

## Method Blank

Blank ID: MB for HBN 1823418 [WXX/13837]  
Blank Lab ID: 1627560

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1214655001, 1214655002, 1214655003, 1214655004, 1214655005, 1214655006, 1214655007, 1214655008, 1214655009, 1214655010, 1214655011, 1214655012

## Results by SM21 4500P-B,E

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Total Phosphorus	0.0200U	0.0400	0.0120	mg/L

## Batch Information

Analytical Batch: WDA5035  
Analytical Method: SM21 4500P-B,E  
Instrument: Discrete Analyzer 2  
Analyst: EWW  
Analytical Date/Time: 8/2/2021 4:55:41PM

Prep Batch: WXX13837  
Prep Method: SM21 4500P-B,E  
Prep Date/Time: 8/2/2021 12:25:00PM  
Prep Initial Wt./Vol.: 25 mL  
Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:24AM

## Blank Spike Summary

Blank Spike ID: LCS for HBN 1214655 [WXX13837]  
 Blank Spike Lab ID: 1627561  
 Date Analyzed: 08/02/2021 16:56

Spike Duplicate ID: LCSD for HBN 1214655 [WXX13837]  
 Spike Duplicate Lab ID: 1627562  
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214655001, 1214655002, 1214655003, 1214655004, 1214655005, 1214655006, 1214655007, 1214655008, 1214655009, 1214655010, 1214655011, 1214655012

## Results by SM21 4500P-B,E

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Phosphorus	0.2	0.197	99	0.2	0.196	98	( 75-125 )	0.46	(< 25 )

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Instrument: Discrete Analyzer 2  
 Analyst: EWW

Prep Batch: WXX13837  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/2021 12:25  
 Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL  
 Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:26AM

## Matrix Spike Summary

Original Sample ID: 1214655001  
MS Sample ID: 1627563 MS  
MSD Sample ID: 1627564 MSD

Analysis Date: 08/02/2021 17:08  
Analysis Date: 08/02/2021 17:09  
Analysis Date: 08/02/2021 17:10  
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214655001, 1214655002, 1214655003, 1214655004, 1214655005, 1214655006, 1214655007, 1214655008, 1214655009, 1214655010, 1214655011, 1214655012

## Results by SM21 4500P-B,E

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Phosphorus	0.0400U	0.200	.215	108	0.200	0.218	109	75-125	1.30	(< 25 )

## Batch Information

Analytical Batch: WDA5035  
Analytical Method: SM21 4500P-B,E  
Instrument: Discrete Analyzer 2  
Analyst: EWW  
Analytical Date/Time: 8/2/2021 5:09:19PM

Prep Batch: WXX13837  
Prep Method: Total Phosphorus (W) Ext.  
Prep Date/Time: 8/2/2021 12:25:00PM  
Prep Initial Wt./Vol.: 25.00mL  
Prep Extract Vol: 25.00mL

Print Date: 08/24/2021 11:26:28AM

## Method Blank

Blank ID: MB for HBN 1823419 [WXX/13838]  
Blank Lab ID: 1627567

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1214655013, 1214655014, 1214655015, 1214655016, 1214655017, 1214655018, 1214655019, 1214655020, 1214655021, 1214655022, 1214655023, 1214655024

## Results by SM21 4500P-B,E

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Total Phosphorus	0.0200U	0.0400	0.0120	mg/L

## Batch Information

Analytical Batch: WDA5035  
Analytical Method: SM21 4500P-B,E  
Instrument: Discrete Analyzer 2  
Analyst: EWW  
Analytical Date/Time: 8/2/2021 6:02:44PM

Prep Batch: WXX13838  
Prep Method: SM21 4500P-B,E  
Prep Date/Time: 8/2/2021 12:25:00PM  
Prep Initial Wt./Vol.: 25 mL  
Prep Extract Vol: 25 mL

Print Date: 08/24/2021 11:26:29AM

## Blank Spike Summary

Blank Spike ID: LCS for HBN 1214655 [WXX13838]  
 Blank Spike Lab ID: 1627568  
 Date Analyzed: 08/02/2021 17:24

Spike Duplicate ID: LCSD for HBN 1214655  
 [WXX13838]  
 Spike Duplicate Lab ID: 1627569  
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214655013, 1214655014, 1214655015, 1214655016, 1214655017, 1214655018, 1214655019,  
 1214655020, 1214655021, 1214655022, 1214655023, 1214655024

## Results by SM21 4500P-B,E

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Phosphorus	0.2	0.202	101	0.2	0.202	101	( 75-125 )	0.20	(< 25 )

## Batch Information

Analytical Batch: WDA5035  
 Analytical Method: SM21 4500P-B,E  
 Instrument: Discrete Analyzer 2  
 Analyst: EWW

Prep Batch: WXX13838  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 08/02/2021 12:25  
 Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL  
 Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

## Matrix Spike Summary

Original Sample ID: 1214655013  
MS Sample ID: 1627570 MS  
MSD Sample ID: 1627571 MSD

Analysis Date: 08/02/2021 17:26  
Analysis Date: 08/02/2021 17:27  
Analysis Date: 08/02/2021 17:30  
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214655013, 1214655014, 1214655015, 1214655016, 1214655017, 1214655018, 1214655019,  
1214655020, 1214655021, 1214655022, 1214655023, 1214655024

## Results by SM21 4500P-B,E

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Phosphorus	0.0400U	0.200	.245	122	0.200	0.241	121	75-125	1.40	(< 25 )

## Batch Information

Analytical Batch: WDA5035  
Analytical Method: SM21 4500P-B,E  
Instrument: Discrete Analyzer 2  
Analyst: EWW  
Analytical Date/Time: 8/2/2021 5:27:55PM

Prep Batch: WXX13838  
Prep Method: Total Phosphorus (W) Ext.  
Prep Date/Time: 8/2/2021 12:25:00PM  
Prep Initial Wt./Vol.: 25.00mL  
Prep Extract Vol: 25.00mL

Print Date: 08/24/2021 11:26:33AM





PH 362575 AD

Section 1	CLIENT: Kenai Watershed Forum					Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.										Page <u>1</u> of <u>3</u>		
	CONTACT: Benjamin Meyer      PHONE #: 9072320280					Section 3		Preservative										
	PROJECT NAME: Kenai River Water Quality Monitoring					# C O N T A I N E R S	Comp Grab MI (Multi-incremental)	Analysis*										NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS
	REPORTS TO: Benjamin Meyer      E-MAIL: <a href="mailto:ben@kenaiwatershed.org">ben@kenaiwatershed.org</a>																	
INVOICE TO: Kenai Watershed Forum      QUOTE #:      P.O. #:																		
Section 2	RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/MATRIX CODE			HNO3	HCl	HCl	H2SO4	H2SO4					REMARKS/LOC ID	
	1AD09	RM 0 - No Name Creek	7/27/2021	09:30	water	3		x	x		x	x						
	2AD09	RM 0 - No Name Creek - DUP	7/27/2021	09:45	water	3		x	x		x	x						
	3AD09	RM 1.5 - Kenai City Dock	7/27/2021	10:30	water	9		x	x	x	x	x					Container # includes BTEX trip blanks	
	4AD09	RM 6.5 - Cunningham Park	7/27/2021	09:10	water	9		x	x	x	x	x					Container # includes BTEX trip blanks	
	5AD09	RM 10 - Beaver Creek	7/27/2021	09:50	water	3		x	x		x	x						
	6AD09	RM 10.1 - Kenai River	7/27/2021	10:10	water	3		x	x		x	x						
	7AD09	RM 12.5 - Pillars	7/27/2021	10:28	water	3		x	x		x	x						
	8AD09	RM 18 - Poacher's Cove	7/27/2021	10:50	water	3		x	x		x	x						
	9AD09	RM 19 - Slikok Creek	7/27/2021	09:28	water	3		x	x		x	x						
	10AD09	RM 21 - Soldotna Bridge	7/27/2021	10:10	water	3		x	x		x	x						
Section 5	Relinquished By: (1) <i>Ben M</i>		Date 7/27/2021	Time 7:00 PM	Received By:		Section 4		DOD Project? Yes No				Data Deliverable Requirements:					
	Relinquished By: (2)		Date	Time	Received By:		Cooler ID:		Requested Turnaround Time and/or Special Instructions:									
	Relinquished By: (3)		Date	Time	Received By:													
	Relinquished By: (4)		Date 7/27/21	Time 1639	Received For Laboratory By: <i>Michael</i>		Cooler Temp Blank °C: (Cooler Temp) 1) 2.3 2) 5.0 D/L5		Chain of Custody Seal: (Circle) INTACT    BROKEN <u>ABSENT</u>									
											Delivery Method: Hand Delivery [ ] Commerical Delivery [X]							





SGS North America Inc.  
CHAIN OF CUSTODY RECORD

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Section 1					Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.										Page <u>3</u> of <u>3</u>						
CLIENT: Kenai Watershed Forum					Section 3		Preservative														
CONTACT: Benjamin Meyer PHONE #: 9072320280					# CONTAINERS	Comp Grab MI (Multi-incremental)	Analysis*										NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS				
PROJECT NAME: Kenai River Water Quality Monitoring PROJECT/ PWSID/ PERMIT#:							HNO3	HCl	HCl	H2SO4	H2SO4										
REPORTS TO: Benjamin Meyer E-MAIL: ben@kenaiwatershed.org Profile #:							Metals (200.8, Dissolved)	Metals (200.7, Total)	BTEX (8260C)	Total Nitrate+Nitrite (SM21 4500N03-F)	Total Phosphorus (SM 21 4500P-BLE)										
INVOICE TO: Kenai Watershed Forum QUOTE #: P.O. #:																					
RESERVED for lab use		SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	REMARKS/LOC ID															
21AB		RM 70 - Jim's Landing	7/27/2021	09:40	water	2			X			X	X								
22AB		RM 74 - Russian River	7/27/2021	08:50	water	2			X			X	X								
23AB		RM 82 - Kenai Lake Bridge	7/27/2021	08:15	water	2			X			X	X								
24AB		RM 79.5 - Juneau Creek	7/27/2021	09:10	water	2			X			X	X								
38XO			7/27/2021		water																
39AO			7/27/2021		water																
40XO			7/27/2021		water																
41AO			7/27/2021		water																
			7/27/2021		water																
			7/27/2021		water																
Relinquished By: (1)			Date 7/27/2021	Time	Received By:			Section 4			DOD Project? Yes No			Data Deliverable Requirements:							
Relinquished By: (2)			Date	Time	Received By:			Cooler ID:			Requested Turnaround Time and/or Special Instructions:										
Relinquished By: (3)			Date	Time	Received By:																
Relinquished By: (4)			Date 7/27/21	Time 1639	Received For Laboratory By: Michelle Allen MA			Temp Blank °C: cooler temp 2.3 057 2) cooler temp 5.0 045			Chain of Custody Seal: (Circle) INTACT BROKEN <u>ABSENT</u>			Delivery Method: Hand Delivery [ ] Commerical Delivery [ ]							

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

# AIRBILL 8750670

I hereby declare that the goods contained herein do not contain dangerous goods.

Signed.....

Date .....

## Grant Aviation

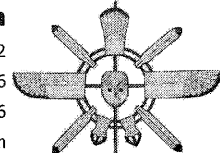
6520 Kulis Dr. Anchorage, AK 99502

Phone: 1 (888) 359-4726

Freephone: 1 (888) 359-4726

Email: res@flygrant.com

Web: http://www.flygrant.com/



GRANT AVIATION

### FREIGHT DETAILS

**FROM/TO:** Kenai -> Anchorage International

**Flight Departs:** Jul 27 21 2:40 PM

**Receiver:** sgs alexandra daniel  
907-562-2343

**Sender:** benjamin meyer  
907-232-0280

**Accepted:** Tue, Jul 27 21 1:43:00 PM

Description & Comment	Quan.	Wgt.	Handle Fee	Hazmat Fee	Total
Standard Freight	2	69	-	-	\$38.96

Total Tax: \$2.44

Total Payments made: \$41.40

Received in good condition by: .....

**Total Unpaid: \$0.00**

### CUSTOMER COPY

# AIRBILL 8750670

I hereby declare that the goods contained herein do not contain dangerous goods.

Signed.....

Date .....

## Grant Aviation

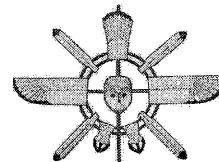
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GRANT AVIATION

### FREIGHT DETAILS

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Description & Comment	Quan.	Wgt.	Handle Fee	Hazmat Fee	Total
Standard Freight	2	69	-	-	\$38.96
TAX: Federal Excise Tax					\$2.44

Total Payments made: \$41.40

**Total Unpaid: \$0.00**

### TERMS AND CONDITIONS

Consignemnt Note Text

**Alert Expeditors Inc.**

#413333

Citywide Delivery • 440-3351  
8421 Flamingo Drive • Anchorage, Alaska 99502

Date 7/27/21  
From Bryan Meyer  
To SGS

Collect ☐ Prepay ☐ Advance Charges ☐

Job # PO# Grant 8750670

2 Sanders

Shipped Signature ILK

Received By: M. [Signature]

MM Total Charge

Review Criteria		Condition (Yes, No, N/A)		Exceptions Noted below	
<b>Chain of Custody / Temperature Requirements</b>			<b>Yes</b>	Exemption permitted if sampler hand carries/delivers.	
Were Custody Seals intact? Note # & location	N/A	absent			
COC accompanied samples?	Yes				
DOD: Were samples received in COC corresponding coolers?	N/A				
<div style="display: flex; justify-content: space-between;"> <span>N/A</span> <span>**Exemption permitted if chilled &amp; collected &lt;8 hours ago, or for samples where chilling is not required</span> </div>					
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Yes	Cooler ID:	1	@	2.3 °C Therm. ID: D57
	Yes	Cooler ID:	2	@	5.0 °C Therm. ID: D45
		Cooler ID:		@	°C Therm. ID:
		Cooler ID:		@	°C Therm. ID:
		Cooler ID:		@	°C Therm. ID:
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.					
*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.					
<b>Holding Time / Documentation / Sample Condition Requirements</b>		Note: Refer to form F-083 "Sample Guide" for specific holding times.			
Were samples received within holding time?	Yes				
Do samples <b>match COC</b> ** (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?		N/A	***Exemption permitted for metals (e.g.200.8/6020A).		
		No	Sample 23B was received underpreserved		
<b>Volatile / LL-Hg Requirements</b>					
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				
<b>Note to Client:</b> Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.					
Additional notes (if applicable):					

## 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>
1214655001-A	HNO3 to pH < 2	OK	1214655019-B	H2SO4 to pH < 2	OK
1214655001-B	H2SO4 to pH < 2	OK	1214655020-A	HNO3 to pH < 2	OK
1214655002-A	HNO3 to pH < 2	OK	1214655020-B	H2SO4 to pH < 2	OK
1214655002-B	H2SO4 to pH < 2	OK	1214655021-A	HNO3 to pH < 2	OK
1214655003-A	HNO3 to pH < 2	OK	1214655021-B	H2SO4 to pH < 2	OK
1214655003-B	H2SO4 to pH < 2	OK	1214655022-A	HNO3 to pH < 2	OK
1214655003-C	HCL to pH < 2	OK	1214655022-B	H2SO4 to pH < 2	OK
1214655003-D	HCL to pH < 2	OK	1214655023-A	HNO3 to pH < 2	OK
1214655003-E	HCL to pH < 2	OK	1214655023-B	H2SO4 to pH < 2	NC
1214655004-A	HNO3 to pH < 2	OK	1214655024-A	HNO3 to pH < 2	OK
1214655004-B	H2SO4 to pH < 2	OK	1214655024-B	H2SO4 to pH < 2	OK
1214655004-C	HCL to pH < 2	OK	1214655025-A	HNO3 to pH < 2	OK
1214655004-D	HCL to pH < 2	OK	1214655026-A	HNO3 to pH < 2	OK
1214655004-E	HCL to pH < 2	OK	1214655027-A	HNO3 to pH < 2	OK
1214655005-A	HNO3 to pH < 2	OK	1214655028-A	HNO3 to pH < 2	OK
1214655005-B	H2SO4 to pH < 2	OK	1214655029-A	HNO3 to pH < 2	OK
1214655006-A	HNO3 to pH < 2	OK	1214655030-A	HNO3 to pH < 2	OK
1214655006-B	H2SO4 to pH < 2	OK	1214655031-A	HNO3 to pH < 2	OK
1214655007-A	HNO3 to pH < 2	OK	1214655032-A	HNO3 to pH < 2	OK
1214655007-B	H2SO4 to pH < 2	OK	1214655033-A	HNO3 to pH < 2	OK
1214655008-A	HNO3 to pH < 2	OK	1214655034-A	HNO3 to pH < 2	OK
1214655008-B	H2SO4 to pH < 2	OK	1214655035-A	HNO3 to pH < 2	OK
1214655009-A	HNO3 to pH < 2	OK	1214655036-A	HNO3 to pH < 2	OK
1214655009-B	H2SO4 to pH < 2	OK	1214655037-A	HNO3 to pH < 2	OK
1214655010-A	HNO3 to pH < 2	OK	1214655038-A	HCL to pH < 2	OK
1214655010-B	H2SO4 to pH < 2	OK	1214655038-B	HCL to pH < 2	OK
1214655011-A	HNO3 to pH < 2	OK	1214655038-C	HCL to pH < 2	OK
1214655011-B	H2SO4 to pH < 2	OK	1214655039-A	HCL to pH < 2	OK
1214655012-A	HNO3 to pH < 2	OK	1214655039-B	HCL to pH < 2	OK
1214655012-B	H2SO4 to pH < 2	OK	1214655039-C	HCL to pH < 2	OK
1214655013-A	HNO3 to pH < 2	OK	1214655040-A	HCL to pH < 2	OK
1214655013-B	H2SO4 to pH < 2	OK	1214655040-B	HCL to pH < 2	OK
1214655014-A	HNO3 to pH < 2	OK	1214655040-C	HCL to pH < 2	OK
1214655014-B	H2SO4 to pH < 2	OK	1214655041-A	HCL to pH < 2	OK
1214655015-A	HNO3 to pH < 2	OK	1214655041-B	HCL to pH < 2	OK
1214655015-B	H2SO4 to pH < 2	OK	1214655041-C	HCL to pH < 2	OK
1214655016-A	HNO3 to pH < 2	OK			
1214655016-B	H2SO4 to pH < 2	OK			
1214655017-A	HNO3 to pH < 2	OK			
1214655017-B	H2SO4 to pH < 2	OK			
1214655017-C	HCL to pH < 2	OK			
1214655017-D	HCL to pH < 2	OK			
1214655017-E	HCL to pH < 2	OK			
1214655018-A	HNO3 to pH < 2	OK			
1214655018-B	H2SO4 to pH < 2	OK			
1214655018-C	HCL to pH < 2	OK			
1214655018-D	HCL to pH < 2	OK			
1214655018-E	HCL to pH < 2	OK			
1214655019-A	HNO3 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 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.





August 23, 2021

Service Request No:K2108829

Julie Shumway  
SGS North America, Inc.  
200 West Potter Drive  
Anchorage, AK 99518

**Laboratory Results for: 1214655**

Dear Julie,

Enclosed are the results of the sample(s) submitted to our laboratory July 30, 2021  
For your reference, these analyses have been assigned our service request number **K2108829**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3364. You may also contact me via email at [howard.holmes@alsglobal.com](mailto:howard.holmes@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Howard Holmes  
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626  
PHONE +1 360 577 7222 | FAX +1 360 636 1068  
ALS Group USA, Corp.  
dba ALS Environmental



## Narrative Documents

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water

**Service Request:** K2108829  
**Date Received:** 07/30/2021

### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

### Sample Receipt:

Twenty four water samples were received for analysis at ALS Environmental on 07/30/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

### Metals:

No significant anomalies were noted with this analysis.

Approved by



Date

08/23/2021

### SAMPLE DETECTION SUMMARY

CLIENT ID: Rm 0 - No Name Creek				Lab ID: K2108829-001			
Analyte	Results	Flag	MDL	MRL	Units	Method	
Calcium	13.8			0.021	mg/L	200.7	
Iron	2.39			0.021	mg/L	200.7	
Magnesium	7.23			0.0053	mg/L	200.7	
CLIENT ID: RM 0 - No Name Creek DUP				Lab ID: K2108829-002			
Analyte	Results	Flag	MDL	MRL	Units	Method	
Calcium	13.7			0.021	mg/L	200.7	
Iron	2.51			0.021	mg/L	200.7	
Magnesium	6.95			0.0053	mg/L	200.7	
CLIENT ID: RM 1.5 - Kenai City Dock				Lab ID: K2108829-003			
Analyte	Results	Flag	MDL	MRL	Units	Method	
Calcium	33.7			0.021	mg/L	200.7	
Iron	3.24			0.021	mg/L	200.7	
Magnesium	66.9			0.0053	mg/L	200.7	
CLIENT ID: RM 6.5 - Cunningham Park				Lab ID: K2108829-004			
Analyte	Results	Flag	MDL	MRL	Units	Method	
Calcium	11.8			0.021	mg/L	200.7	
Iron	0.383			0.021	mg/L	200.7	
Magnesium	1.10			0.0053	mg/L	200.7	
CLIENT ID: RM 10 - Beaver Creek				Lab ID: K2108829-005			
Analyte	Results	Flag	MDL	MRL	Units	Method	
Calcium	17.3			0.021	mg/L	200.7	
Iron	2.17			0.021	mg/L	200.7	
Magnesium	3.96			0.0053	mg/L	200.7	
CLIENT ID: RM 10.1 - Kenai River				Lab ID: K2108829-006			
Analyte	Results	Flag	MDL	MRL	Units	Method	
Calcium	11.8			0.021	mg/L	200.7	
Iron	0.370			0.021	mg/L	200.7	
Magnesium	1.10			0.0053	mg/L	200.7	
CLIENT ID: RM 12.5 - Pillars				Lab ID: K2108829-007			
Analyte	Results	Flag	MDL	MRL	Units	Method	
Calcium	11.8			0.021	mg/L	200.7	
Iron	0.356			0.021	mg/L	200.7	
Magnesium	1.08			0.0053	mg/L	200.7	
CLIENT ID: RM 18 - Poacher's Cove				Lab ID: K2108829-008			
Analyte	Results	Flag	MDL	MRL	Units	Method	
Calcium	11.7			0.021	mg/L	200.7	
Iron	0.315			0.021	mg/L	200.7	
Magnesium	1.06			0.0053	mg/L	200.7	

### SAMPLE DETECTION SUMMARY

<b>CLIENT ID: RM 18 - Poacher's Cove</b>	<b>Lab ID: K2108829-008</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
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<b>CLIENT ID: RM 19 - Slikok Creek</b>	<b>Lab ID: K2108829-009</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
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Calcium	15.6			0.021	mg/L	200.7
Iron	0.889			0.021	mg/L	200.7
Magnesium	4.37			0.0053	mg/L	200.7

<b>CLIENT ID: Rm 21 - Soldotna Bridge</b>	<b>Lab ID: K2108829-010</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
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Calcium	11.6			0.021	mg/L	200.7
Iron	0.290			0.021	mg/L	200.7
Magnesium	1.06			0.0053	mg/L	200.7

<b>CLIENT ID: RM 22 - Soldotna Creek</b>	<b>Lab ID: K2108829-011</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
---------	---------	------	-----	-----	-------	--------

Calcium	18.3			0.021	mg/L	200.7
Iron	1.07			0.021	mg/L	200.7
Magnesium	4.93			0.0053	mg/L	200.7

<b>CLIENT ID: RM 23 - Swiftwater Park</b>	<b>Lab ID: K2108829-012</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
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Calcium	11.8			0.021	mg/L	200.7
Iron	0.299			0.021	mg/L	200.7
Magnesium	1.06			0.0053	mg/L	200.7

<b>CLIENT ID: RM 30 - Funny River</b>	<b>Lab ID: K2108829-013</b>
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
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Calcium	10.0			0.021	mg/L	200.7
Iron	0.719			0.021	mg/L	200.7
Magnesium	3.18			0.0053	mg/L	200.7

<b>CLIENT ID: RM 31 - Morgan's Landing</b>	<b>Lab ID: K2108829-014</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
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Calcium	11.8			0.021	mg/L	200.7
Iron	0.267			0.021	mg/L	200.7
Magnesium	1.05			0.0053	mg/L	200.7

<b>CLIENT ID: RM 31 - Morgan's Landing DUP</b>	<b>Lab ID: K2108829-015</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
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Calcium	11.7			0.021	mg/L	200.7
Iron	0.287			0.021	mg/L	200.7
Magnesium	1.04			0.0053	mg/L	200.7

### SAMPLE DETECTION SUMMARY

<b>CLIENT ID: RM 36 - Moose River</b>	<b>Lab ID: K2108829-016</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium	22.5			0.021	mg/L	200.7
Iron	0.511			0.021	mg/L	200.7
Magnesium	3.58			0.0053	mg/L	200.7

<b>CLIENT ID: RM 40 - Bing's Landing</b>	<b>Lab ID: K2108829-017</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium	11.5			0.021	mg/L	200.7
Iron	0.268			0.021	mg/L	200.7
Magnesium	0.983			0.0053	mg/L	200.7

<b>CLIENT ID: RM 43 - Upstream of Dow Island</b>	<b>Lab ID: K2108829-018</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium	11.2			0.021	mg/L	200.7
Iron	0.361			0.021	mg/L	200.7
Magnesium	0.995			0.0053	mg/L	200.7

<b>CLIENT ID: RM 44 - Mouth of Killey River</b>	<b>Lab ID: K2108829-019</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium	5.92			0.021	mg/L	200.7
Iron	2.17			0.021	mg/L	200.7
Magnesium	1.53			0.0053	mg/L	200.7

<b>CLIENT ID: RM 50 - Skilak Lake Outflow</b>	<b>Lab ID: K2108829-020</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium	12.0			0.021	mg/L	200.7
Iron	0.076			0.021	mg/L	200.7
Magnesium	0.938			0.0053	mg/L	200.7

<b>CLIENT ID: RM 70 - Jim's Landing</b>	<b>Lab ID: K2108829-021</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium	15.0			0.021	mg/L	200.7
Iron	0.058			0.021	mg/L	200.7
Magnesium	1.16			0.0053	mg/L	200.7

<b>CLIENT ID: RM 74 - Russian River</b>	<b>Lab ID: K2108829-022</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium	16.5			0.021	mg/L	200.7
Magnesium	1.06			0.0053	mg/L	200.7

<b>CLIENT ID: RM 82 - Kenai Lake Bridge</b>	<b>Lab ID: K2108829-023</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium	15.5			0.021	mg/L	200.7
Iron	0.063			0.021	mg/L	200.7
Magnesium	1.21			0.0053	mg/L	200.7

**SAMPLE DETECTION SUMMARY****CLIENT ID: RM 79.5 - Juneau Creek****Lab ID: K2108829-024**

Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium	15.7			0.021	mg/L	200.7
Iron	0.035			0.021	mg/L	200.7
Magnesium	1.17			0.0053	mg/L	200.7



## Sample Receipt Information

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655

**Service Request:**K2108829

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2108829-001	Rm 0 - No Name Creek	7/27/2021	0930
K2108829-002	RM 0 - No Name Creek DUP	7/27/2021	0945
K2108829-003	RM 1.5 - Kenai City Dock	7/27/2021	1030
K2108829-004	RM 6.5 - Cunningham Park	7/27/2021	0910
K2108829-005	RM 10 - Beaver Creek	7/27/2021	0950
K2108829-006	RM 10.1 - Kenai River	7/27/2021	1010
K2108829-007	RM 12.5 - Pillars	7/27/2021	1028
K2108829-008	RM 18 - Poacher's Cove	7/27/2021	1050
K2108829-009	RM 19 - Slikok Creek	7/27/2021	0928
K2108829-010	Rm 21 - Soldotna Bridge	7/27/2021	1010
K2108829-011	RM 22 - Soldotna Creek	7/27/2021	1125
K2108829-012	RM 23 - Swiftwater Park	7/27/2021	1043
K2108829-013	RM 30 - Funny River	7/27/2021	0930
K2108829-014	RM 31 - Morgan's Landing	7/27/2021	1050
K2108829-015	RM 31 - Morgan's Landing DUP	7/27/2021	1050
K2108829-016	RM 36 - Moose River	7/27/2021	1130
K2108829-017	RM 40 - Bing's Landing	7/27/2021	0950
K2108829-018	RM 43 - Upstream of Dow Island	7/27/2021	0930
K2108829-019	RM 44 - Mouth of Killey River	7/27/2021	0914
K2108829-020	RM 50 - Skilak Lake Outflow	7/27/2021	0840
K2108829-021	RM 70 - Jim's Landing	7/27/2021	0940
K2108829-022	RM 74 - Russian River	7/27/2021	0850
K2108829-023	RM 82 - Kenai Lake Bridge	7/27/2021	0815
K2108829-024	RM 79.5 - Juneau Creek	7/27/2021	0910

K2108829

**SGS North America Inc.**  
**CHAIN OF CUSTODY RECORD**



## Locations Nationwide

Alaska	Florida
New Jersey	Colorado
Texas	North Carolina
Virginia	Louisiana

[www.us.sgs.com](http://www.us.sgs.com)

<b>CLIENT:</b> SGS North America Inc. - Alaska Division					<b>SGS Reference:</b> <b>ALS in Kelso, WA</b>					Page 1 of 3			
<b>CONTACT:</b> Julie Shumway <b>PHONE NO:</b> (907) 562-2343					<b>Additional Comments:</b> All soils report out in dry weight unless								
<b>PROJECT NAME:</b> 1214655 <b>PWSID#:</b> <b>NPDL#:</b>					# C O N T A I N E R S	Preserv- ative Used:	HNO3	TYPE C = COMP G = GRAB MI = Multi Incremental Soils	200.7 Total Ca, Fe, Mg	MS	MSD	SGS lab #	Location ID
<b>REPORTS TO:</b> Julie Shumway <b>E-MAIL:</b> <a href="mailto:Julie.Shumway@sgs.com">Julie.Shumway@sgs.com</a> <a href="mailto:Env.Alaska.ReflabTeam@sgs.com">Env.Alaska.ReflabTeam@sgs.com</a>													
<b>INVOICE TO:</b> SGS - Alaska <b>QUOTE #:</b> 657849-10 <b>P.O. #:</b> 1214655													
RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/ MATRIX CODE									
	RM 0 - No Name Creek	07/27/2021	09:30:00	Water	1		X					1214655001	
	RM 0 - No Name Creek DUP	07/27/2021	09:45:00	Water	1		X					1214655002	
	RM 1.5 - Kenai City Dock	07/27/2021	10:30:00	Water	1		X					1214655003	
	RM 6.5 - Cunningham Park	07/27/2021	09:10:00	Water	1		X					1214655004	
	RM 10 - Beaver Creek	07/27/2021	09:50:00	Water	1		X					1214655005	
	RM 10.1 - Kenai River	07/27/2021	10:10:00	Water	1		X					1214655006	
	RM 12.5 - Pillars	07/27/2021	10:28:00	Water	1		X					1214655007	
	RM 18 - Poacher's Cove	07/27/2021	10:50:00	Water	1		X					1214655008	
	RM 19 - Slikok Creek	07/27/2021	09:28:00	Water	1		X					1214655009	
	RM 21 - Soldotna Bridge	07/27/2021	10:10:00	Water	1		X					1214655010	
Relinquished By: (1) 		Date 7/29/21	Time 0958	Received By: 		DOD Project?		NO		Data Deliverable Requirements:			
Relinquished By: (2)		Date	Time	Received By:		Report to DL (J Flags)?		NO		Level 2			
Relinquished By: (3)		Date	Time	Received By:		Cooler ID:							
Relinquished By: (4)		Date	Time	Received For Laboratory By:		Requested Turnaround Time and-or Special Instructions:							
						Temp Blank °C:				Chain of Custody Seal: (Circle)			
						or Ambient [ ]				INTACT    BROKEN    ABSENT			

[ X 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301  
 [ 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

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12108829

SGS North America Inc.  
CHAIN OF CUSTODY RECORD



Locations Nationwide

Alaska Florida  
New Jersey Colorado  
Texas North Carolina  
Virginia Louisiana  
[www.us.sgs.com](http://www.us.sgs.com)

CLIENT: SGS North America Inc. - Alaska Division					SGS Reference:					Page 2 of 3				
CONTACT: Julie Shumway		PHONE NO: (907) 562-2343			Additional Comments: All soils report out in dry weight unless									
PROJECT NAME: 1214655		PWSID#:			CONTAINER	Preservative Used:	HMC3	TYPE	C = COMP G = GRAB MI = Multi Incremental Soils	200.7 Total Ca, Fe, Mg	MS	MSD	SGS lab #	Location ID
REPORTS TO: Julie Shumway		E-MAIL: <a href="mailto:Julie.Shumway@sgs.com">Julie.Shumway@sgs.com</a> <a href="mailto:Env.Alaska.ReflabTeam@sgs.com">Env.Alaska.ReflabTeam@sgs.com</a>												
INVOICE TO: SGS - Alaska		QUOTE #: 657849 P.O. #: 1214655												
RESERVED for lab use		DATE mm/dd/yy												
SAMPLE IDENTIFICATION		TIME HHMM		MATRIX/MATRIX CODE										
RM 22 - Soldotna Creek		07/27/2021 11:25:00		Water	1			X					1214655011	
RM 23 - Swiftwater Park		07/27/2021 10:43:00		Water	1			X					1214655012	
RM 30 - Funny River		07/27/2021 09:30:00		Water	1			X					1214655013	
RM 31 - Morgan's Landing		07/27/2021 10:50:00		Water	1			X					1214655014	
RM 31 - Morgan's Landing DUP		07/27/2021 10:50:00		Water	1			X					1214655015	
RM 36 - Moose River		07/27/2021 11:30:00		Water	1			X					1214655016	
RM 40 - Bing's Landing		07/27/2021 09:50:00		Water	1			X					1214655017	
RM 43 - Upstream of Dow Isalnd		07/27/2021 09:30:00		Water	1			X					1214655018	
RM 44 - Mouth of Killey River		07/27/2021 09:14:00		Water	1			X					1214655019	
RM 50 - Skilak Lake Outflow		07/27/2021 08:40:00		Water	1			X					1214655020	
Relinquished By: (1)		Date	Time	Received By:	DOD Project?		0		Data Deliverable Requirements:					
Relinquished By: (2)		Date	Time	Received By:	Report to DL (J Flags)? If J- Report as DL/LOD/LOQ.				Level 2					
Relinquished By: (3)		Date	Time	Received By:	Cooler ID:									
Relinquished By: (4)		Date	Time	Received For Laboratory By:	Requested Turnaround Time and-or Special Instructions:									
					Temp Blank °C:					Chain of Custody Seal: (Circle)				
					or Ambient [ ]					INTACT BROKEN ABSENT				

[ X ] 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301  
[ ] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

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**SGS North America Inc.**  
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Virginia	Louisiana

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[ 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

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# Cooler Receipt and Preservation Form

Client S6S Service Request K21 PM HH  
Received: 7/30/21 Opened: 7/30/21 By: BR Unloaded: 7/30/21 By: BR 08529

1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered

2. Samples were received in: (circle) Cooler Box Envelope Other NA

3. Were custody seals on coolers? NA Y N If yes, how many and where? \_\_\_\_\_

If present, were custody seals intact? Y N If present, were they signed and dated? Y N

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column below:

If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":

5. Were samples received within the method specified temperature ranges?

NA Y N BR

If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM.

NA Y N

If applicable, tissue samples were received: Frozen Partially Thawed Thawed

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>12.1</u>	<u>13.6</u>	<u>1202</u>				<u>1Z79A935014057</u>	<u>2029</u>

6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves

7. Were custody papers properly filled out (ink, signed, etc.)?

NA Y N

8. Were samples received in good condition (unbroken)

NA Y N

9. Were all sample labels complete (ie, analysis, preservation, etc.)?

NA Y N

10. Did all sample labels and tags agree with custody papers?

NA Y N

11. Were appropriate bottles/containers and volumes received for the tests indicated?

NA Y N

12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below

NA Y N

13. Were VOA vials received without headspace? Indicate in the table below.

NA Y N

14. Was C12/Res negative?

NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head- space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



## Miscellaneous Forms

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso**  
**State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEH	<a href="http://dec.alaska.gov/eh/lab/cs/csapproval.htm">http://dec.alaska.gov/eh/lab/cs/csapproval.htm</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2795
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L16-58-R4
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Hawaii DOH	<a href="http://health.hawaii.gov/">http://health.hawaii.gov/</a>	-
ISO 17025	<a href="http://www.pjllabs.com/">http://www.pjllabs.com/</a>	L16-57
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	03016
Maine DHS	<a href="http://www.maine.gov/dhhs/">http://www.maine.gov/dhhs/</a>	WA01276
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-457
Nevada DEP	<a href="http://ndep.nv.gov/bsdwlabservice.htm">http://ndep.nv.gov/bsdwlabservice.htm</a>	WA01276
New Jersey DEP	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	WA005
New York - DOH	<a href="https://www.wadsworth.org/regulatory/elap">https://www.wadsworth.org/regulatory/elap</a>	12060
North Carolina DEQ	<a href="https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification">https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA100010
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/EnvironmentalLabCertification/">http://www.scdhec.gov/environment/EnvironmentalLabCertification/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704427
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C544
Wyoming (EPA Region 8)	<a href="https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water">https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water</a>	-
Kelso Laboratory Website	<a href="http://www.alsglobal.com">www.alsglobal.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.ALSGlobal.com](http://www.ALSGlobal.com) or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.



## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

**ALS Group USA, Corp.**

dba ALS Environmental

## Analyst Summary report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655/

**Service Request:** K2108829

**Sample Name:** Rm 0 - No Name Creek  
**Lab Code:** K2108829-001  
**Sample Matrix:** Water

**Date Collected:** 07/27/21**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 0 - No Name Creek DUP  
**Lab Code:** K2108829-002  
**Sample Matrix:** Water

**Date Collected:** 07/27/21**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 1.5 - Kenai City Dock  
**Lab Code:** K2108829-003  
**Sample Matrix:** Water

**Date Collected:** 07/27/21**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 6.5 - Cunningham Park  
**Lab Code:** K2108829-004  
**Sample Matrix:** Water

**Date Collected:** 07/27/21**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 10 - Beaver Creek  
**Lab Code:** K2108829-005  
**Sample Matrix:** Water

**Date Collected:** 07/27/21**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**ALS Group USA, Corp.**

dba ALS Environmental

## Analyst Summary report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655/

**Service Request:** K2108829

**Sample Name:** RM 10.1 - Kenai River  
**Lab Code:** K2108829-006  
**Sample Matrix:** Water

**Date Collected:** 07/27/21**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 12.5 - Pillars  
**Lab Code:** K2108829-007  
**Sample Matrix:** Water

**Date Collected:** 07/27/21**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 18 - Poacher's Cove  
**Lab Code:** K2108829-008  
**Sample Matrix:** Water

**Date Collected:** 07/27/21**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 19 - Slikok Creek  
**Lab Code:** K2108829-009  
**Sample Matrix:** Water

**Date Collected:** 07/27/21**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** Rm 21 - Soldotna Bridge  
**Lab Code:** K2108829-010  
**Sample Matrix:** Water

**Date Collected:** 07/27/21**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**ALS Group USA, Corp.**

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## Analyst Summary report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655/

**Service Request:** K2108829

**Sample Name:** RM 22 - Soldotna Creek  
**Lab Code:** K2108829-011  
**Sample Matrix:** Water

**Date Collected:** 07/27/21**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 23 - Swiftwater Park  
**Lab Code:** K2108829-012  
**Sample Matrix:** Water

**Date Collected:** 07/27/21**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 30 - Funny River  
**Lab Code:** K2108829-013  
**Sample Matrix:** Water

**Date Collected:** 07/27/21**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 31 - Morgan's Landing  
**Lab Code:** K2108829-014  
**Sample Matrix:** Water

**Date Collected:** 07/27/21**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 31 - Morgan's Landing DUP  
**Lab Code:** K2108829-015  
**Sample Matrix:** Water

**Date Collected:** 07/27/21**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655/

**Service Request:** K2108829

**Sample Name:** RM 36 - Moose River  
**Lab Code:** K2108829-016  
**Sample Matrix:** Water

**Date Collected:** 07/27/21  
**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 40 - Bing's Landing  
**Lab Code:** K2108829-017  
**Sample Matrix:** Water

**Date Collected:** 07/27/21  
**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 43 - Upstream of Dow Island  
**Lab Code:** K2108829-018  
**Sample Matrix:** Water

**Date Collected:** 07/27/21  
**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 44 - Mouth of Killey River  
**Lab Code:** K2108829-019  
**Sample Matrix:** Water

**Date Collected:** 07/27/21  
**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 50 - Skilak Lake Outflow  
**Lab Code:** K2108829-020  
**Sample Matrix:** Water

**Date Collected:** 07/27/21  
**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655/

**Service Request:** K2108829

**Sample Name:** RM 70 - Jim's Landing  
**Lab Code:** K2108829-021  
**Sample Matrix:** Water

**Date Collected:** 07/27/21  
**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 74 - Russian River  
**Lab Code:** K2108829-022  
**Sample Matrix:** Water

**Date Collected:** 07/27/21  
**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 82 - Kenai Lake Bridge  
**Lab Code:** K2108829-023  
**Sample Matrix:** Water

**Date Collected:** 07/27/21  
**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY

**Sample Name:** RM 79.5 - Juneau Creek  
**Lab Code:** K2108829-024  
**Sample Matrix:** Water

**Date Collected:** 07/27/21  
**Date Received:** 07/30/21

**Analysis Method**  
200.7

**Extracted/Digested By**  
ABOYER

**Analyzed By**  
AMCKORNEY



## Sample Results

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



## Metals

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



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Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** Rm 0 - No Name Creek  
**Lab Code:** K2108829-001

**Service Request:** K2108829  
**Date Collected:** 07/27/21 09:30  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	13.8	mg/L	0.021	1	08/23/21 11:21	08/03/21	
Iron	200.7	2.39	mg/L	0.021	1	08/23/21 11:21	08/03/21	
Magnesium	200.7	7.23	mg/L	0.0053	1	08/23/21 11:21	08/03/21	

ALS Group USA, Corp.  
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Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 0 - No Name Creek DUP  
**Lab Code:** K2108829-002

**Service Request:** K2108829  
**Date Collected:** 07/27/21 09:45  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	13.7	mg/L	0.021	1	08/23/21 11:29	08/03/21	
Iron	200.7	2.51	mg/L	0.021	1	08/23/21 11:29	08/03/21	
Magnesium	200.7	6.95	mg/L	0.0053	1	08/23/21 11:29	08/03/21	

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Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 1.5 - Kenai City Dock  
**Lab Code:** K2108829-003

**Service Request:** K2108829  
**Date Collected:** 07/27/21 10:30  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	33.7	mg/L	0.021	1	08/23/21 11:39	08/03/21	
Iron	200.7	3.24	mg/L	0.021	1	08/23/21 11:39	08/03/21	
Magnesium	200.7	66.9	mg/L	0.0053	1	08/23/21 11:39	08/03/21	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 6.5 - Cunningham Park  
**Lab Code:** K2108829-004

**Service Request:** K2108829  
**Date Collected:** 07/27/21 09:10  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	11.8	mg/L	0.021	1	08/23/21 11:47	08/03/21	
Iron	200.7	0.383	mg/L	0.021	1	08/23/21 11:47	08/03/21	
Magnesium	200.7	1.10	mg/L	0.0053	1	08/23/21 11:47	08/03/21	

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dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 10 - Beaver Creek  
**Lab Code:** K2108829-005

**Service Request:** K2108829  
**Date Collected:** 07/27/21 09:50  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	17.3	mg/L	0.021	1	08/23/21 11:50	08/03/21	
Iron	200.7	2.17	mg/L	0.021	1	08/23/21 11:50	08/03/21	
Magnesium	200.7	3.96	mg/L	0.0053	1	08/23/21 11:50	08/03/21	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 10.1 - Kenai River  
**Lab Code:** K2108829-006

**Service Request:** K2108829  
**Date Collected:** 07/27/21 10:10  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	11.8	mg/L	0.021	1	08/23/21 11:52	08/03/21	
Iron	200.7	0.370	mg/L	0.021	1	08/23/21 11:52	08/03/21	
Magnesium	200.7	1.10	mg/L	0.0053	1	08/23/21 11:52	08/03/21	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 12.5 - Pillars  
**Lab Code:** K2108829-007

**Service Request:** K2108829  
**Date Collected:** 07/27/21 10:28  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	11.8	mg/L	0.021	1	08/23/21 11:55	08/03/21	
Iron	200.7	0.356	mg/L	0.021	1	08/23/21 11:55	08/03/21	
Magnesium	200.7	1.08	mg/L	0.0053	1	08/23/21 11:55	08/03/21	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 18 - Poacher's Cove  
**Lab Code:** K2108829-008

**Service Request:** K2108829  
**Date Collected:** 07/27/21 10:50  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	11.7	mg/L	0.021	1	08/23/21 11:58	08/03/21	
Iron	200.7	0.315	mg/L	0.021	1	08/23/21 11:58	08/03/21	
Magnesium	200.7	1.06	mg/L	0.0053	1	08/23/21 11:58	08/03/21	



ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 19 - Slikok Creek  
**Lab Code:** K2108829-009

**Service Request:** K2108829  
**Date Collected:** 07/27/21 09:28  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	15.6	mg/L	0.021	1	08/23/21 12:00	08/03/21	
Iron	200.7	0.889	mg/L	0.021	1	08/23/21 12:00	08/03/21	
Magnesium	200.7	4.37	mg/L	0.0053	1	08/23/21 12:00	08/03/21	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** Rm 21 - Soldotna Bridge  
**Lab Code:** K2108829-010

**Service Request:** K2108829  
**Date Collected:** 07/27/21 10:10  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	11.6	mg/L	0.021	1	08/23/21 12:03	08/03/21	
Iron	200.7	0.290	mg/L	0.021	1	08/23/21 12:03	08/03/21	
Magnesium	200.7	1.06	mg/L	0.0053	1	08/23/21 12:03	08/03/21	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 22 - Soldotna Creek  
**Lab Code:** K2108829-011

**Service Request:** K2108829  
**Date Collected:** 07/27/21 11:25  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	18.3	mg/L	0.021	1	08/23/21 12:13	08/03/21	
Iron	200.7	1.07	mg/L	0.021	1	08/23/21 12:13	08/03/21	
Magnesium	200.7	4.93	mg/L	0.0053	1	08/23/21 12:13	08/03/21	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 23 - Swiftwater Park  
**Lab Code:** K2108829-012

**Service Request:** K2108829  
**Date Collected:** 07/27/21 10:43  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	11.8	mg/L	0.021	1	08/23/21 12:16	08/03/21	
Iron	200.7	0.299	mg/L	0.021	1	08/23/21 12:16	08/03/21	
Magnesium	200.7	1.06	mg/L	0.0053	1	08/23/21 12:16	08/03/21	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 30 - Funny River  
**Lab Code:** K2108829-013

**Service Request:** K2108829  
**Date Collected:** 07/27/21 09:30  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	10.0	mg/L	0.021	1	08/23/21 12:18	08/03/21	
Iron	200.7	0.719	mg/L	0.021	1	08/23/21 12:18	08/03/21	
Magnesium	200.7	3.18	mg/L	0.0053	1	08/23/21 12:18	08/03/21	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 31 - Morgan's Landing  
**Lab Code:** K2108829-014

**Service Request:** K2108829  
**Date Collected:** 07/27/21 10:50  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	11.8	mg/L	0.021	1	08/23/21 12:21	08/03/21	
Iron	200.7	0.267	mg/L	0.021	1	08/23/21 12:21	08/03/21	
Magnesium	200.7	1.05	mg/L	0.0053	1	08/23/21 12:21	08/03/21	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 31 - Morgan's Landing DUP  
**Lab Code:** K2108829-015

**Service Request:** K2108829  
**Date Collected:** 07/27/21 10:50  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	11.7	mg/L	0.021	1	08/23/21 12:23	08/03/21	
Iron	200.7	0.287	mg/L	0.021	1	08/23/21 12:23	08/03/21	
Magnesium	200.7	1.04	mg/L	0.0053	1	08/23/21 12:23	08/03/21	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 36 - Moose River  
**Lab Code:** K2108829-016

**Service Request:** K2108829  
**Date Collected:** 07/27/21 11:30  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	22.5	mg/L	0.021	1	08/23/21 12:26	08/03/21	
Iron	200.7	0.511	mg/L	0.021	1	08/23/21 12:26	08/03/21	
Magnesium	200.7	3.58	mg/L	0.0053	1	08/23/21 12:26	08/03/21	



ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 40 - Bing's Landing  
**Lab Code:** K2108829-017

**Service Request:** K2108829  
**Date Collected:** 07/27/21 09:50  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	11.5	mg/L	0.021	1	08/23/21 12:29	08/03/21	
Iron	200.7	0.268	mg/L	0.021	1	08/23/21 12:29	08/03/21	
Magnesium	200.7	0.983	mg/L	0.0053	1	08/23/21 12:29	08/03/21	

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dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 43 - Upstream of Dow Island  
**Lab Code:** K2108829-018

**Service Request:** K2108829  
**Date Collected:** 07/27/21 09:30  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	11.2	mg/L	0.021	1	08/23/21 12:31	08/03/21	
Iron	200.7	0.361	mg/L	0.021	1	08/23/21 12:31	08/03/21	
Magnesium	200.7	0.995	mg/L	0.0053	1	08/23/21 12:31	08/03/21	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 44 - Mouth of Killey River  
**Lab Code:** K2108829-019

**Service Request:** K2108829  
**Date Collected:** 07/27/21 09:14  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	5.92	mg/L	0.021	1	08/23/21 12:34	08/03/21	
Iron	200.7	2.17	mg/L	0.021	1	08/23/21 12:34	08/03/21	
Magnesium	200.7	1.53	mg/L	0.0053	1	08/23/21 12:34	08/03/21	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 50 - Skilak Lake Outflow  
**Lab Code:** K2108829-020

**Service Request:** K2108829  
**Date Collected:** 07/27/21 08:40  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	12.0	mg/L	0.021	1	08/23/21 12:37	08/03/21	
Iron	200.7	0.076	mg/L	0.021	1	08/23/21 12:37	08/03/21	
Magnesium	200.7	0.938	mg/L	0.0053	1	08/23/21 12:37	08/03/21	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 70 - Jim's Landing  
**Lab Code:** K2108829-021

**Service Request:** K2108829  
**Date Collected:** 07/27/21 09:40  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	15.0	mg/L	0.021	1	08/23/21 10:17	08/05/21	
Iron	200.7	0.058	mg/L	0.021	1	08/23/21 10:17	08/05/21	
Magnesium	200.7	1.16	mg/L	0.0053	1	08/23/21 10:17	08/05/21	

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Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 74 - Russian River  
**Lab Code:** K2108829-022

**Service Request:** K2108829  
**Date Collected:** 07/27/21 08:50  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	16.5	mg/L	0.021	1	08/23/21 10:32	08/05/21	
Iron	200.7	ND U	mg/L	0.021	1	08/23/21 10:32	08/05/21	
Magnesium	200.7	1.06	mg/L	0.0053	1	08/23/21 10:32	08/05/21	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 82 - Kenai Lake Bridge  
**Lab Code:** K2108829-023

**Service Request:** K2108829  
**Date Collected:** 07/27/21 08:15  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	15.5	mg/L	0.021	1	08/23/21 10:35	08/05/21	
Iron	200.7	0.063	mg/L	0.021	1	08/23/21 10:35	08/05/21	
Magnesium	200.7	1.21	mg/L	0.0053	1	08/23/21 10:35	08/05/21	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** RM 79.5 - Juneau Creek  
**Lab Code:** K2108829-024

**Service Request:** K2108829  
**Date Collected:** 07/27/21 09:10  
**Date Received:** 07/30/21 09:30  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	15.7	mg/L	0.021	1	08/23/21 10:38	08/05/21	
Iron	200.7	0.035	mg/L	0.021	1	08/23/21 10:38	08/05/21	
Magnesium	200.7	1.17	mg/L	0.0053	1	08/23/21 10:38	08/05/21	





## QC Summary Forms

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



## Metals

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** KQ2114522-01

**Service Request:** K2108829  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	ND U	mg/L	0.021	1	08/23/21 11:16	08/03/21	
Iron	200.7	ND U	mg/L	0.021	1	08/23/21 11:16	08/03/21	
Magnesium	200.7	ND U	mg/L	0.0053	1	08/23/21 11:16	08/03/21	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** KQ2114523-01

**Service Request:** K2108829  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	ND U	mg/L	0.021	1	08/23/21 10:12	08/05/21	
Iron	200.7	ND U	mg/L	0.021	1	08/23/21 10:12	08/05/21	
Magnesium	200.7	ND U	mg/L	0.0053	1	08/23/21 10:12	08/05/21	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water

**Service Request:** K2108829  
**Date Collected:** 07/27/21  
**Date Received:** 07/30/21  
**Date Analyzed:** 08/23/21  
**Date Extracted:** 08/3/21

**Matrix Spike Summary**  
**Total Metals**

**Sample Name:** Rm 0 - No Name Creek  
**Lab Code:** K2108829-001  
**Analysis Method:** 200.7  
**Prep Method:** EPA CLP ILM04.0

**Units:** mg/L  
**Basis:** NA

**Matrix Spike**  
KQ2114522-04

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Calcium	13.8	23.5	10.0	98	70-130
Iron	2.39	3.38	1.00	100	70-130
Magnesium	7.23	17.8	10.0	106	70-130

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water

**Service Request:** K2108829  
**Date Collected:** 07/27/21  
**Date Received:** 07/30/21  
**Date Analyzed:** 08/23/21  
**Date Extracted:** 08/3/21

**Matrix Spike Summary**  
**Total Metals**

**Sample Name:** RM 1.5 - Kenai City Dock  
**Lab Code:** K2108829-003  
**Analysis Method:** 200.7  
**Prep Method:** EPA CLP ILM04.0

**Units:** mg/L  
**Basis:** NA

**Matrix Spike**  
KQ2114522-06

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Calcium	33.7	43.8	10.0	101	70-130
Iron	3.24	4.40	1.00	117	70-130
Magnesium	66.9	78.1	10.0	112 #	70-130

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water

**Service Request:** K2108829  
**Date Collected:** 07/27/21  
**Date Received:** 07/30/21  
**Date Analyzed:** 08/23/21  
**Date Extracted:** 08/5/21

**Matrix Spike Summary**  
**Total Metals**

**Sample Name:** RM 70 - Jim's Landing  
**Lab Code:** K2108829-021  
**Analysis Method:** 200.7  
**Prep Method:** EPA CLP ILM04.0

**Units:** mg/L  
**Basis:** NA

**Matrix Spike**  
KQ2114523-04

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Calcium	15.0	24.8	10.0	98	70-130
Iron	0.058	1.07	1.00	101	70-130
Magnesium	1.16	11.4	10.0	103	70-130

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

**ALS Group USA, Corp.**

dba ALS Environmental

QA/QC Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project** 1214655  
**Sample Matrix:** Water

**Service Request:** K2108829**Date Collected:** 07/27/21**Date Received:** 07/30/21**Date Analyzed:** 08/23/21**Replicate Sample Summary****Total Metals****Sample Name:** Rm 0 - No Name Creek**Units:** mg/L**Lab Code:** K2108829-001**Basis:** NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample KQ2114522-03		Average	RPD	RPD Limit
				Result	Result			
Calcium	200.7	0.021	13.8	13.7	13.8	13.8	<1	20
Iron	200.7	0.021	2.39	2.38	2.39	2.39	<1	20
Magnesium	200.7	0.0053	7.23	7.17	7.20	7.20	<1	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



**ALS Group USA, Corp.**

dba ALS Environmental

## QA/QC Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project** 1214655  
**Sample Matrix:** Water

**Service Request:** K2108829**Date Collected:** 07/27/21**Date Received:** 07/30/21**Date Analyzed:** 08/23/21**Replicate Sample Summary****Total Metals****Sample Name:** RM 1.5 - Kenai City Dock**Units:** mg/L**Lab Code:** K2108829-003**Basis:** NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample KQ2114522-05		Average	RPD	RPD Limit
				Result				
Calcium	200.7	0.021	33.7	33.3		33.5	1	20
Iron	200.7	0.021	3.24	3.28		3.26	1	20
Magnesium	200.7	0.0053	66.9	67.3		67.1	<1	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**ALS Group USA, Corp.**

dba ALS Environmental

## QA/QC Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project** 1214655  
**Sample Matrix:** Water

**Service Request:** K2108829**Date Collected:** 07/27/21**Date Received:** 07/30/21**Date Analyzed:** 08/23/21**Replicate Sample Summary****Total Metals****Sample Name:** RM 70 - Jim's Landing**Units:** mg/L**Lab Code:** K2108829-021**Basis:** NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample KQ2114523-03		Average	RPD	RPD Limit
				Result	Result			
Calcium	200.7	0.021	15.0	15.0		15.0	<1	20
Iron	200.7	0.021	0.058	0.061		0.060	5	20
Magnesium	200.7	0.0053	1.16	1.16		1.16	<1	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water

**Service Request:** K2108829  
**Date Analyzed:** 08/23/21

**Lab Control Sample Summary**  
**Total Metals**

**Units:**mg/L  
**Basis:**NA

**Lab Control Sample**  
KQ2114522-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Calcium	200.7	12.6	12.5	101	85-115
Iron	200.7	2.56	2.50	102	85-115
Magnesium	200.7	12.9	12.5	103	85-115

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** SGS North America, Inc. (SGS Environmental)  
**Project:** 1214655  
**Sample Matrix:** Water

**Service Request:** K2108829  
**Date Analyzed:** 08/23/21

**Lab Control Sample Summary**  
**Total Metals**

**Units:**mg/L  
**Basis:**NA

**Lab Control Sample**  
KQ2114523-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Calcium	200.7	12.7	12.5	102	85-115
Iron	200.7	2.57	2.50	103	85-115
Magnesium	200.7	13.0	12.5	104	85-115