Laboratory Report of Analysis

To: Kenai Watershed Forum

,

Report Number: **1221998**

Client Project: **Kenai River Baseline Water Qua**

Dear Benjamin Meyer,

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.

Allie Lambe
2022.05.23 17:18:42 -08'00'

Alexandra Lambe Date
Project Manager
Alexandra.Lambe@sgs.com

SGS North America Inc. 200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Case Narrative

SGS Client: **Kenai Watershed Forum**
SGS Project: **1221998**
Project Name/Site: **Kenai River Baseline Water Qua**
Project Contact: **Benjamin Meyer**

Refer to sample receipt form for information on sample condition.

1221966001-C(1663719MS) (1663721) MS

4500NO3-F - Nitrate/Nitrite - MS recovery for total nitrate/nitrite is outside of QC criteria. Refer to LCS for accuracy requirements.

1221966001-C(1663719MSD) (1663722) MSD

4500NO3-F - Nitrate/Nitrite - MS recovery for total nitrate/nitrite and nitrate is outside of QC criteria. Refer to LCS for accuracy requirements.

1221998008MSD (1663724) MSD

4500NO3-F - Nitrate/Nitrite - MS recovery for total nitrate/nitrite is outside of QC criteria. Refer to LCS for accuracy requirements.

1221998005(1664033MS) (1663834) MS

WK.365.3T1- Total Phosphorus- MS recovery does not meet the QC criteria. Refer to the LCS for accuracy.

1221998005(1664033MSD) (1663835) MSD

WK.365.3T1- Total Phosphorus- MSD recovery does not meet the QC criteria. Refer to the LCSD for accuracy.

MB for HBN 1836326 [MXX/35114] (1664384) MB

200.7 - Total Calcium, Iron, and Magnesium 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, indenmification 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.

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
RM0- No Name Creek	1221998001	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM1.5-Kenai City Dock-DUP	1221998002	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM1.5-Kenai City Dock	1221998003	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM6.5-Cunningham Park	1221998004	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM10-Beaver Creek	1221998005	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM10.1-Kenai River	1221998006	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM12.5-Pillars	1221998007	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM18-Poacher's Cove	1221998008	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM19-Slikok Creek	1221998009	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM21-Soldotna Bridge	1221998010	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM22-Soldotna Creek	1221998011	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM23-Swiftwater Park	1221998012	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM30-Funny River	1221998013	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM31-Morgan's Landing	1221998014	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM36-Moose River	1221998015	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM36-Moose River-DUP	1221998016	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM40-Bing's Landing	1221998017	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM43-Upstream of Dow Island	1221998018	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM44-Mouth of Killey River	1221998019	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM50-Skilak Lake Outflow	1221998020	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM70-Jim's Landing	1221998021	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM74-Russian River	1221998022	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM82-Kenai Lake Bridge	1221998023	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM79.5-Juneau Creek	1221998024	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM0- No Name Creek	1221998025	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM1.5-Kenai City Dock-DUP	1221998026	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM1.5-Kenai City Dock	1221998027	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM6.5-Cunningham Park	1221998028	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM10-Beaver Creek	1221998029	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM10.1-Kenai River	1221998030	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM12.5-Pillars	1221998031	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM18-Poacher's Cove	1221998032	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM19-Slikok Creek	1221998033	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM21-Soldotna Bridge	1221998034	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM22-Soldotna Creek	1221998035	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM23-Swiftwater Park	1221998036	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)
RM30-Funny River	1221998037	05/03/2022	05/03/2022	Water (Surface, Eff., Ground)

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix

Method	Method Description
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)

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Detectable Results Summary

Client Sample ID: **RM0- No Name Creek**
Lab Sample ID: 1221998001
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.119J	mg/L
Total Phosphorus	0.0309J	mg/L

Client Sample ID: **RM1.5-Kenai City Dock-DUP**
Lab Sample ID: 1221998002
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.242	mg/L
Total Phosphorus	0.187	mg/L

Client Sample ID: **RM1.5-Kenai City Dock**
Lab Sample ID: 1221998003
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	2.49	mg/L
Total Phosphorus	0.180	mg/L

Client Sample ID: **RM6.5-Cunningham Park**
Lab Sample ID: 1221998004
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.207	mg/L
Total Phosphorus	0.614	mg/L

Client Sample ID: **RM10-Beaver Creek**
Lab Sample ID: 1221998005
Waters Department

Parameter	Result	Units
Total Phosphorus	0.0607	mg/L

Client Sample ID: **RM10.1-Kenai River**
Lab Sample ID: 1221998006
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.167J	mg/L
Total Phosphorus	0.0254J	mg/L

Client Sample ID: **RM12.5-Pillars**
Lab Sample ID: 1221998007
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.191J	mg/L
Total Phosphorus	0.0193J	mg/L

Client Sample ID: **RM18-Poacher's Cove**
Lab Sample ID: 1221998008
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	1.38	mg/L
Total Phosphorus	0.0214J	mg/L

Client Sample ID: **RM19-Slikok Creek**
Lab Sample ID: 1221998009
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.535	mg/L
Total Phosphorus	0.0252J	mg/L

Client Sample ID: **RM21-Soldotna Bridge**
Lab Sample ID: 1221998010
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.811	mg/L
Total Phosphorus	0.0221J	mg/L

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Detectable Results Summary

Client Sample ID: **RM22-Soldotna Creek**
Lab Sample ID: 1221998011
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.0866J	mg/L
Total Phosphorus	0.0723	mg/L

Client Sample ID: **RM23-Swiftwater Park**
Lab Sample ID: 1221998012
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.722	mg/L
Total Phosphorus	0.0208J	mg/L

Client Sample ID: **RM30-Funny River**
Lab Sample ID: 1221998013
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.260	mg/L
Total Phosphorus	0.0527	mg/L

Client Sample ID: **RM31-Morgan's Landing**
Lab Sample ID: 1221998014
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.134J	mg/L
Total Phosphorus	0.0158J	mg/L

Client Sample ID: **RM36-Moose River**
Lab Sample ID: 1221998015
Waters Department

Parameter	Result	Units
Total Phosphorus	0.0522	mg/L

Client Sample ID: **RM36-Moose River-DUP**
Lab Sample ID: 1221998016
Waters Department

Parameter	Result	Units
Total Phosphorus	0.0498	mg/L

Client Sample ID: **RM40-Bing's Landing**
Lab Sample ID: 1221998017
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.269	mg/L

Client Sample ID: **RM43-Upstream of Dow Island**
Lab Sample ID: 1221998018
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.299	mg/L

Client Sample ID: **RM44-Mouth of Killey River**
Lab Sample ID: 1221998019
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.214	mg/L

Client Sample ID: **RM50-Skilak Lake Outflow**
Lab Sample ID: 1221998020
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.234	mg/L

Client Sample ID: **RM70-Jim's Landing**
Lab Sample ID: 1221998021
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.629	mg/L

Client Sample ID: **RM74-Russian River**
Lab Sample ID: 1221998022
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	1.14	mg/L

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Detectable Results Summary

Client Sample ID: **RM82-Kenai Lake Bridge**
Lab Sample ID: 1221998023
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	12.7	mg/L

Client Sample ID: **RM79.5-Juneau Creek**
Lab Sample ID: 1221998024
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.625	mg/L

Client Sample ID: **RM0- No Name Creek**
Lab Sample ID: 1221998025
Dissolved Metals by ICP/MS

Parameter	Result	Units
Copper	2.19J	ug/L
Zinc	5.17J	ug/L

Client Sample ID: **RM1.5-Kenai City Dock-DUP**
Lab Sample ID: 1221998026
Dissolved Metals by ICP/MS

Parameter	Result	Units
Arsenic	2.67J	ug/L
Copper	12.2	ug/L
Zinc	3.89J	ug/L

Client Sample ID: **RM1.5-Kenai City Dock**
Lab Sample ID: 1221998027
Dissolved Metals by ICP/MS

Parameter	Result	Units
Arsenic	2.06J	ug/L
Copper	15.2	ug/L
Zinc	5.15J	ug/L

Client Sample ID: **RM6.5-Cunningham Park**
Lab Sample ID: 1221998028
Dissolved Metals by ICP/MS

Parameter	Result	Units
Arsenic	1.90J	ug/L
Lead	0.526J	ug/L

Client Sample ID: **RM10-Beaver Creek**
Lab Sample ID: 1221998029
Dissolved Metals by ICP/MS

Parameter	Result	Units
Arsenic	2.72J	ug/L
Lead	0.547J	ug/L

Client Sample ID: **RM10.1-Kenai River**
Lab Sample ID: 1221998030
Dissolved Metals by ICP/MS

Parameter	Result	Units
Arsenic	1.57J	ug/L
Lead	0.767J	ug/L
Zinc	6.37J	ug/L

Client Sample ID: **RM12.5-Pillars**
Lab Sample ID: 1221998031
Dissolved Metals by ICP/MS

Parameter	Result	Units
Arsenic	2.00J	ug/L
Lead	3.09	ug/L
Zinc	4.12J	ug/L

Client Sample ID: **RM18-Poacher's Cove**
Lab Sample ID: 1221998032
Dissolved Metals by ICP/MS

Parameter	Result	Units
Arsenic	1.75J	ug/L
Zinc	12.2	ug/L

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Detectable Results Summary

Client Sample ID: **RM19-Slikok Creek**
Lab Sample ID: 1221998033

Dissolved Metals by ICP/MS

Parameter	Result	Units
Arsenic	2.07J	ug/L
Copper	1.07J	ug/L
Lead	1.04J	ug/L
Zinc	13.6	ug/L

Client Sample ID: **RM21-Soldotna Bridge**
Lab Sample ID: 1221998034

Dissolved Metals by ICP/MS

Parameter	Result	Units
Arsenic	2.00J	ug/L

Client Sample ID: **RM22-Soldotna Creek**
Lab Sample ID: 1221998035

Dissolved Metals by ICP/MS

Parameter	Result	Units
Arsenic	3.91J	ug/L
Zinc	3.36J	ug/L

Client Sample ID: **RM23-Swiftwater Park**
Lab Sample ID: 1221998036

Dissolved Metals by ICP/MS

Parameter	Result	Units
Arsenic	2.03J	ug/L

Client Sample ID: **RM30-Funny River**
Lab Sample ID: 1221998037

Dissolved Metals by ICP/MS

Parameter	Result	Units
Arsenic	1.87J	ug/L

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Results of **RM0- No Name Creek**

Client Sample ID: **RM0- No Name Creek**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998001
Lab Project ID: 1221998

Collection Date: 05/03/22 10:00
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.119	J	0.200	0.0500	mg/L	2		05/12/22 12:15

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:15
Container ID: 1221998001-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0309	J	0.0400	0.0120	mg/L	1		05/11/22 13:41

Batch Information

Analytical Batch: WDA5201
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/11/22 13:41
Container ID: 1221998001-A

Prep Batch: WXX14200
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/11/22 10:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM1.5-Kenai City Dock-DUP**

Client Sample ID: **RM1.5-Kenai City Dock-DUP**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998002
Lab Project ID: 1221998

Collection Date: 05/03/22 09:15
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.242		0.200	0.0500	mg/L	2		05/12/22 12:16

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:16
Container ID: 1221998002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.187		0.0400	0.0120	mg/L	1		05/11/22 13:42

Batch Information

Analytical Batch: WDA5201
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/11/22 13:42
Container ID: 1221998002-A

Prep Batch: WXX14200
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/11/22 10:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM1.5-Kenai City Dock**

Client Sample ID: **RM1.5-Kenai City Dock**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998003
Lab Project ID: 1221998

Collection Date: 05/03/22 09:10
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	2.49		0.200	0.0500	mg/L	2		05/12/22 12:18

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:18
Container ID: 1221998003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.180		0.0400	0.0120	mg/L	1		05/11/22 13:43

Batch Information

Analytical Batch: WDA5201
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/11/22 13:43
Container ID: 1221998003-A

Prep Batch: WXX14200
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/11/22 10:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM6.5-Cunningham Park**

Client Sample ID: **RM6.5-Cunningham Park**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998004
Lab Project ID: 1221998

Collection Date: 05/03/22 09:39
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.207		0.200	0.0500	mg/L	2		05/12/22 12:20

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:20
Container ID: 1221998004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.614		0.200	0.0600	mg/L	1		05/11/22 17:45

Batch Information

Analytical Batch: WDA5201
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/11/22 17:45
Container ID: 1221998004-A

Prep Batch: WXX14200
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/11/22 15:30
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 25 mL

Results of **RM10-Beaver Creek**

Client Sample ID: **RM10-Beaver Creek**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998005
Lab Project ID: 1221998

Collection Date: 05/03/22 10:51
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		05/12/22 12:22

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:22
Container ID: 1221998005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0607		0.0400	0.0120	mg/L	1		05/17/22 12:53

Batch Information

Analytical Batch: WDA5203
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/17/22 12:53
Container ID: 1221998005-A

Prep Batch: WXX14205
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/17/22 10:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM10.1-Kenai River**

Client Sample ID: **RM10.1-Kenai River**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998006
Lab Project ID: 1221998

Collection Date: 05/03/22 11:23
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.167	J	0.200	0.0500	mg/L	2		05/12/22 12:23

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:23
Container ID: 1221998006-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0254	J	0.0400	0.0120	mg/L	1		05/11/22 13:50

Batch Information

Analytical Batch: WDA5201
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/11/22 13:50
Container ID: 1221998006-A

Prep Batch: WXX14200
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/11/22 10:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM12.5-Pillars**

Client Sample ID: **RM12.5-Pillars**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998007
Lab Project ID: 1221998

Collection Date: 05/03/22 11:50
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.191	J	0.200	0.0500	mg/L	2		05/12/22 12:25

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:25
Container ID: 1221998007-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0193	J	0.0400	0.0120	mg/L	1		05/11/22 13:51

Batch Information

Analytical Batch: WDA5201
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/11/22 13:51
Container ID: 1221998007-A

Prep Batch: WXX14200
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/11/22 10:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM18-Poacher's Cove**

Client Sample ID: **RM18-Poacher's Cove**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998008
Lab Project ID: 1221998

Collection Date: 05/03/22 12:24
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	1.38		0.200	0.0500	mg/L	2		05/12/22 12:32

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:32
Container ID: 1221998008-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0214	J	0.0400	0.0120	mg/L	1		05/11/22 13:52

Batch Information

Analytical Batch: WDA5201
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/11/22 13:52
Container ID: 1221998008-A

Prep Batch: WXX14200
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/11/22 10:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM19-Slikok Creek**

Client Sample ID: **RM19-Slikok Creek**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998009
Lab Project ID: 1221998

Collection Date: 05/03/22 11:20
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.535		0.200	0.0500	mg/L	2		05/12/22 12:37

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:37
Container ID: 1221998009-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0252	J	0.0400	0.0120	mg/L	1		05/11/22 13:52

Batch Information

Analytical Batch: WDA5201
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/11/22 13:52
Container ID: 1221998009-A

Prep Batch: WXX14200
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/11/22 10:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM21-Soldotna Bridge**

Client Sample ID: **RM21-Soldotna Bridge**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998010
Lab Project ID: 1221998

Collection Date: 05/03/22 10:45
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.811		0.200	0.0500	mg/L	2		05/12/22 12:39

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:39
Container ID: 1221998010-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0221	J	0.0400	0.0120	mg/L	1		05/11/22 13:53

Batch Information

Analytical Batch: WDA5201
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/11/22 13:53
Container ID: 1221998010-A

Prep Batch: WXX14200
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/11/22 10:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM22-Soldotna Creek**

Client Sample ID: **RM22-Soldotna Creek**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998011
Lab Project ID: 1221998

Collection Date: 05/03/22 10:03
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.0866	J	0.200	0.0500	mg/L	2		05/12/22 12:41

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:41
Container ID: 1221998011-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0723		0.0400	0.0120	mg/L	1		05/11/22 13:54

Batch Information

Analytical Batch: WDA5201
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/11/22 13:54
Container ID: 1221998011-A

Prep Batch: WXX14200
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/11/22 10:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM23-Swiftwater Park**

Client Sample ID: **RM23-Swiftwater Park**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998012
Lab Project ID: 1221998

Collection Date: 05/03/22 12:08
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.722		0.200	0.0500	mg/L	2		05/12/22 12:43

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:43
Container ID: 1221998012-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0208	J	0.0400	0.0120	mg/L	1		05/11/22 13:55

Batch Information

Analytical Batch: WDA5201
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/11/22 13:55
Container ID: 1221998012-A

Prep Batch: WXX14200
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/11/22 10:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM30-Funny River**

Client Sample ID: **RM30-Funny River**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998013
Lab Project ID: 1221998

Collection Date: 05/03/22 08:33
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.260		0.200	0.0500	mg/L	2		05/12/22 12:44

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:44
Container ID: 1221998013-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0527		0.0400	0.0120	mg/L	1		05/11/22 13:56

Batch Information

Analytical Batch: WDA5201
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/11/22 13:56
Container ID: 1221998013-A

Prep Batch: WXX14200
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/11/22 10:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM31-Morgan's Landing**

Client Sample ID: **RM31-Morgan's Landing**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998014
Lab Project ID: 1221998

Collection Date: 05/03/22 11:00
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.134	J	0.200	0.0500	mg/L	2		05/12/22 12:46

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:46
Container ID: 1221998014-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0158	J	0.0400	0.0120	mg/L	1		05/11/22 13:58

Batch Information

Analytical Batch: WDA5201
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/11/22 13:58
Container ID: 1221998014-A

Prep Batch: WXX14200
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/11/22 10:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM36-Moose River**

Client Sample ID: **RM36-Moose River**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998015
Lab Project ID: 1221998

Collection Date: 05/03/22 10:15
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		05/12/22 12:48

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:48
Container ID: 1221998015-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0522		0.0400	0.0120	mg/L	1		05/11/22 13:59

Batch Information

Analytical Batch: WDA5201
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/11/22 13:59
Container ID: 1221998015-A

Prep Batch: WXX14200
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/11/22 10:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM36-Moose River-DUP**

Client Sample ID: **RM36-Moose River-DUP**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998016
Lab Project ID: 1221998

Collection Date: 05/03/22 10:15
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		05/12/22 12:55

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:55
Container ID: 1221998016-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0498		0.0400	0.0120	mg/L	1		05/17/22 12:54

Batch Information

Analytical Batch: WDA5203
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/17/22 12:54
Container ID: 1221998016-A

Prep Batch: WXX14205
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/17/22 10:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM40-Bing's Landing**

Client Sample ID: **RM40-Bing's Landing**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998017
Lab Project ID: 1221998

Collection Date: 05/03/22 10:10
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.269		0.200	0.0500	mg/L	2		05/09/22 15:03

Batch Information

Analytical Batch: WFI2987
Analytical Method: SM21 4500NO3-F
Analyst: DMM
Analytical Date/Time: 05/09/22 15:03
Container ID: 1221998017-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0200	U	0.0400	0.0120	mg/L	1		05/17/22 12:55

Batch Information

Analytical Batch: WDA5203
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/17/22 12:55
Container ID: 1221998017-A

Prep Batch: WXX14205
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/17/22 10:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM43-Upstream of Dow Island**

Client Sample ID: **RM43-Upstream of Dow Island**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998018
Lab Project ID: 1221998

Collection Date: 05/03/22 09:30
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.299		0.200	0.0500	mg/L	2		05/12/22 12:57

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:57
Container ID: 1221998018-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0200	U	0.0400	0.0120	mg/L	1		05/17/22 12:56

Batch Information

Analytical Batch: WDA5203
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/17/22 12:56
Container ID: 1221998018-A

Prep Batch: WXX14205
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/17/22 10:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM44-Mouth of Killey River**

Client Sample ID: **RM44-Mouth of Killey River**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998019
Lab Project ID: 1221998

Collection Date: 05/03/22 09:20
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.214		0.200	0.0500	mg/L	2		05/12/22 12:58

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 12:58
Container ID: 1221998019-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0200	U	0.0400	0.0120	mg/L	1		05/17/22 12:56

Batch Information

Analytical Batch: WDA5203
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/17/22 12:56
Container ID: 1221998019-A

Prep Batch: WXX14205
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/17/22 10:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM50-Skilak Lake Outflow**

Client Sample ID: **RM50-Skilak Lake Outflow**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998020
Lab Project ID: 1221998

Collection Date: 05/03/22 07:30
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.234		0.200	0.0500	mg/L	2		05/12/22 13:00

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 13:00
Container ID: 1221998020-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0200	U	0.0400	0.0120	mg/L	1		05/17/22 12:57

Batch Information

Analytical Batch: WDA5203
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/17/22 12:57
Container ID: 1221998020-A

Prep Batch: WXX14205
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/17/22 10:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM70-Jim's Landing**

Client Sample ID: **RM70-Jim's Landing**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998021
Lab Project ID: 1221998

Collection Date: 05/03/22 10:32
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.629		0.200	0.0500	mg/L	2		05/12/22 13:02

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 13:02
Container ID: 1221998021-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0200	U	0.0400	0.0120	mg/L	1		05/17/22 12:58

Batch Information

Analytical Batch: WDA5203
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/17/22 12:58
Container ID: 1221998021-A

Prep Batch: WXX14205
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/17/22 10:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM74-Russian River**

Client Sample ID: **RM74-Russian River**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998022
Lab Project ID: 1221998

Collection Date: 05/03/22 09:45
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	1.14		0.200	0.0500	mg/L	2		05/12/22 13:04

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 13:04
Container ID: 1221998022-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0200	U	0.0400	0.0120	mg/L	1		05/17/22 13:03

Batch Information

Analytical Batch: WDA5203
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/17/22 13:03
Container ID: 1221998022-A

Prep Batch: WXX14205
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/17/22 10:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM82-Kenai Lake Bridge**

Client Sample ID: **RM82-Kenai Lake Bridge**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998023
Lab Project ID: 1221998

Collection Date: 05/03/22 07:55
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	12.7		0.400	0.100	mg/L	4		05/12/22 13:37

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 13:37
Container ID: 1221998023-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0200	U	0.0400	0.0120	mg/L	1		05/17/22 13:04

Batch Information

Analytical Batch: WDA5203
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/17/22 13:04
Container ID: 1221998023-A

Prep Batch: WXX14205
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/17/22 10:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM79.5-Juneau Creek**

Client Sample ID: **RM79.5-Juneau Creek**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998024
Lab Project ID: 1221998

Collection Date: 05/03/22 08:50
Received Date: 05/03/22 16:57
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.625		0.200	0.0500	mg/L	2		05/12/22 13:07

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/12/22 13:07
Container ID: 1221998024-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0200	U	0.0400	0.0120	mg/L	1		05/17/22 13:05

Batch Information

Analytical Batch: WDA5203
Analytical Method: SM21 4500P-B,E
Analyst: RJC
Analytical Date/Time: 05/17/22 13:05
Container ID: 1221998024-A

Prep Batch: WXX14205
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/17/22 10:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM0- No Name Creek**

Client Sample ID: **RM0- No Name Creek**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998025
Lab Project ID: 1221998

Collection Date: 05/03/22 10:00
Received Date: 05/03/22 16:57
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
Arsenic	2.50	U	5.00	1.50	ug/L	1		05/19/22 14:51
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/19/22 14:51
Chromium	2.50	U	5.00	2.50	ug/L	1		05/19/22 14:51
Copper	2.19	J	3.00	1.00	ug/L	1		05/19/22 14:51
Lead	1.00	U	2.00	0.500	ug/L	1		05/19/22 14:51
Zinc	5.17	J	10.0	3.10	ug/L	1		05/19/22 14:51

Batch Information

Analytical Batch: MMS11558
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 05/19/22 14:51
Container ID: 1221998025-A

Prep Batch: MXX35113
Prep Method: E200.2
Prep Date/Time: 05/19/22 07:54
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Results of **RM1.5-Kenai City Dock-DUP**

Client Sample ID: **RM1.5-Kenai City Dock-DUP**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998026
Lab Project ID: 1221998

Collection Date: 05/03/22 09:15
Received Date: 05/03/22 16:57
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
Arsenic	2.67	J	5.00	1.50	ug/L	1		05/19/22 14:54
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/19/22 14:54
Chromium	2.50	U	5.00	2.50	ug/L	1		05/19/22 14:54
Copper	12.2		3.00	1.00	ug/L	1		05/19/22 14:54
Lead	1.00	U	2.00	0.500	ug/L	1		05/19/22 14:54
Zinc	3.89	J	10.0	3.10	ug/L	1		05/19/22 14:54

Batch Information

Analytical Batch: MMS11558
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 05/19/22 14:54
Container ID: 1221998026-A

Prep Batch: MXX35113
Prep Method: E200.2
Prep Date/Time: 05/19/22 07:54
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Results of **RM1.5-Kenai City Dock**

Client Sample ID: **RM1.5-Kenai City Dock**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998027
Lab Project ID: 1221998

Collection Date: 05/03/22 09:10
Received Date: 05/03/22 16:57
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
Arsenic	2.06	J	5.00	1.50	ug/L	1		05/19/22 14:57
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/19/22 14:57
Chromium	2.50	U	5.00	2.50	ug/L	1		05/19/22 14:57
Copper	15.2		3.00	1.00	ug/L	1		05/19/22 14:57
Lead	1.00	U	2.00	0.500	ug/L	1		05/19/22 14:57
Zinc	5.15	J	10.0	3.10	ug/L	1		05/19/22 14:57

Batch Information

Analytical Batch: MMS11558
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 05/19/22 14:57
Container ID: 1221998027-A

Prep Batch: MXX35113
Prep Method: E200.2
Prep Date/Time: 05/19/22 07:54
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Results of **RM6.5-Cunningham Park**

Client Sample ID: **RM6.5-Cunningham Park**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998028
Lab Project ID: 1221998

Collection Date: 05/03/22 09:39
Received Date: 05/03/22 16:57
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
Arsenic	1.90	J	5.00	1.50	ug/L	1		05/19/22 14:59
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/19/22 14:59
Chromium	2.50	U	5.00	2.50	ug/L	1		05/19/22 14:59
Copper	1.50	U	3.00	1.00	ug/L	1		05/19/22 14:59
Lead	0.526	J	2.00	0.500	ug/L	1		05/19/22 14:59
Zinc	5.00	U	10.0	3.10	ug/L	1		05/19/22 14:59

Batch Information

Analytical Batch: MMS11558
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 05/19/22 14:59
Container ID: 1221998028-A

Prep Batch: MXX35113
Prep Method: E200.2
Prep Date/Time: 05/19/22 07:54
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Results of **RM10-Beaver Creek**

Client Sample ID: **RM10-Beaver Creek**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998029
Lab Project ID: 1221998

Collection Date: 05/03/22 10:51
Received Date: 05/03/22 16:57
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
Arsenic	2.72	J	5.00	1.50	ug/L	1		05/19/22 15:02
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/19/22 15:02
Chromium	2.50	U	5.00	2.50	ug/L	1		05/19/22 15:02
Copper	1.50	U	3.00	1.00	ug/L	1		05/19/22 15:02
Lead	0.547	J	2.00	0.500	ug/L	1		05/19/22 15:02
Zinc	5.00	U	10.0	3.10	ug/L	1		05/19/22 15:02

Batch Information

Analytical Batch: MMS11558
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 05/19/22 15:02
Container ID: 1221998029-A

Prep Batch: MXX35113
Prep Method: E200.2
Prep Date/Time: 05/19/22 07:54
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Results of **RM10.1-Kenai River**

Client Sample ID: **RM10.1-Kenai River**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998030
Lab Project ID: 1221998

Collection Date: 05/03/22 11:23
Received Date: 05/03/22 16:57
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
Arsenic	1.57	J	5.00	1.50	ug/L	1		05/19/22 15:05
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/19/22 15:05
Chromium	2.50	U	5.00	2.50	ug/L	1		05/19/22 15:05
Copper	1.50	U	3.00	1.00	ug/L	1		05/19/22 15:05
Lead	0.767	J	2.00	0.500	ug/L	1		05/19/22 15:05
Zinc	6.37	J	10.0	3.10	ug/L	1		05/19/22 15:05

Batch Information

Analytical Batch: MMS11558
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 05/19/22 15:05
Container ID: 1221998030-A

Prep Batch: MXX35113
Prep Method: E200.2
Prep Date/Time: 05/19/22 07:54
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Results of **RM12.5-Pillars**

Client Sample ID: **RM12.5-Pillars**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998031
Lab Project ID: 1221998

Collection Date: 05/03/22 11:50
Received Date: 05/03/22 16:57
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
Arsenic	2.00	J	5.00	1.50	ug/L	1		05/19/22 15:07
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/19/22 15:07
Chromium	2.50	U	5.00	2.50	ug/L	1		05/19/22 15:07
Copper	1.50	U	3.00	1.00	ug/L	1		05/19/22 15:07
Lead	3.09		2.00	0.500	ug/L	1		05/19/22 15:07
Zinc	4.12	J	10.0	3.10	ug/L	1		05/19/22 15:07

Batch Information

Analytical Batch: MMS11558
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 05/19/22 15:07
Container ID: 1221998031-A

Prep Batch: MXX35113
Prep Method: E200.2
Prep Date/Time: 05/19/22 07:54
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Results of **RM18-Poacher's Cove**

Client Sample ID: **RM18-Poacher's Cove**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998032
Lab Project ID: 1221998

Collection Date: 05/03/22 12:24
Received Date: 05/03/22 16:57
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
Arsenic	1.75	J	5.00	1.50	ug/L	1		05/19/22 15:10
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/19/22 15:10
Chromium	2.50	U	5.00	2.50	ug/L	1		05/19/22 15:10
Copper	1.50	U	3.00	1.00	ug/L	1		05/19/22 15:10
Lead	1.00	U	2.00	0.500	ug/L	1		05/19/22 15:10
Zinc	12.2		10.0	3.10	ug/L	1		05/19/22 15:10

Batch Information

Analytical Batch: MMS11558
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 05/19/22 15:10
Container ID: 1221998032-A

Prep Batch: MXX35113
Prep Method: E200.2
Prep Date/Time: 05/19/22 07:54
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Results of **RM19-Slikok Creek**

Client Sample ID: **RM19-Slikok Creek**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998033
Lab Project ID: 1221998

Collection Date: 05/03/22 11:20
Received Date: 05/03/22 16:57
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
Arsenic	2.07	J	5.00	1.50	ug/L	1		05/19/22 15:46
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/19/22 15:46
Chromium	2.50	U	5.00	2.50	ug/L	1		05/19/22 15:46
Copper	1.07	J	3.00	1.00	ug/L	1		05/19/22 15:46
Lead	1.04	J	2.00	0.500	ug/L	1		05/19/22 15:46
Zinc	13.6		10.0	3.10	ug/L	1		05/19/22 15:46

Batch Information

Analytical Batch: MMS11558
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 05/19/22 15:46
Container ID: 1221998033-A

Prep Batch: MXX35114
Prep Method: E200.2
Prep Date/Time: 05/19/22 09:07
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Results of **RM21-Soldotna Bridge**

Client Sample ID: **RM21-Soldotna Bridge**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998034
Lab Project ID: 1221998

Collection Date: 05/03/22 10:45
Received Date: 05/03/22 16:57
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
Arsenic	2.00	J	5.00	1.50	ug/L	1		05/19/22 15:48
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/19/22 15:48
Chromium	2.50	U	5.00	2.50	ug/L	1		05/19/22 15:48
Copper	1.50	U	3.00	1.00	ug/L	1		05/19/22 15:48
Lead	1.00	U	2.00	0.500	ug/L	1		05/19/22 15:48
Zinc	5.00	U	10.0	3.10	ug/L	1		05/19/22 15:48

Batch Information

Analytical Batch: MMS11558
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 05/19/22 15:48
Container ID: 1221998034-A

Prep Batch: MXX35114
Prep Method: E200.2
Prep Date/Time: 05/19/22 09:07
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Results of **RM22-Soldotna Creek**

Client Sample ID: **RM22-Soldotna Creek**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998035
Lab Project ID: 1221998

Collection Date: 05/03/22 10:03
Received Date: 05/03/22 16:57
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
Arsenic	3.91	J	5.00	1.50	ug/L	1		05/19/22 15:51
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/19/22 15:51
Chromium	2.50	U	5.00	2.50	ug/L	1		05/19/22 15:51
Copper	1.50	U	3.00	1.00	ug/L	1		05/19/22 15:51
Lead	1.00	U	2.00	0.500	ug/L	1		05/19/22 15:51
Zinc	3.36	J	10.0	3.10	ug/L	1		05/19/22 15:51

Batch Information

Analytical Batch: MMS11558
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 05/19/22 15:51
Container ID: 1221998035-A

Prep Batch: MXX35114
Prep Method: E200.2
Prep Date/Time: 05/19/22 09:07
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Results of **RM23-Swiftwater Park**

Client Sample ID: **RM23-Swiftwater Park**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998036
Lab Project ID: 1221998

Collection Date: 05/03/22 12:08
Received Date: 05/03/22 16:57
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
Arsenic	2.03	J	5.00	1.50	ug/L	1		05/19/22 15:59
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/19/22 15:59
Chromium	2.50	U	5.00	2.50	ug/L	1		05/19/22 15:59
Copper	1.50	U	3.00	1.00	ug/L	1		05/19/22 15:59
Lead	1.00	U	2.00	0.500	ug/L	1		05/19/22 15:59
Zinc	5.00	U	10.0	3.10	ug/L	1		05/19/22 15:59

Batch Information

Analytical Batch: MMS11558
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 05/19/22 15:59
Container ID: 1221998036-A

Prep Batch: MXX35114
Prep Method: E200.2
Prep Date/Time: 05/19/22 09:07
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Results of **RM30-Funny River**

Client Sample ID: **RM30-Funny River**
Client Project ID: **Kenai River Baseline Water Qua**
Lab Sample ID: 1221998037
Lab Project ID: 1221998

Collection Date: 05/03/22 08:33
Received Date: 05/03/22 16:57
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
Arsenic	1.87	J	5.00	1.50	ug/L	1		05/19/22 16:02
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/19/22 16:02
Chromium	2.50	U	5.00	2.50	ug/L	1		05/19/22 16:02
Copper	1.50	U	3.00	1.00	ug/L	1		05/19/22 16:02
Lead	1.00	U	2.00	0.500	ug/L	1		05/19/22 16:02
Zinc	5.00	U	10.0	3.10	ug/L	1		05/19/22 16:02

Batch Information

Analytical Batch: MMS11558
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 05/19/22 16:02
Container ID: 1221998037-A

Prep Batch: MXX35114
Prep Method: E200.2
Prep Date/Time: 05/19/22 09:07
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Method Blank

Blank ID: MB for HBN 1836324 [MXX/35113]
Blank Lab ID: 1664371

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1221998025, 1221998026, 1221998027, 1221998028, 1221998029, 1221998030, 1221998031, 1221998032

Results by **EP200.8**

Parameter	Results	LOQ/CL	DL	Units
Arsenic	2.50U	5.00	1.50	ug/L
Cadmium	0.250U	0.500	0.150	ug/L
Chromium	2.50U	5.00	2.50	ug/L
Copper	1.50U	3.00	1.00	ug/L
Lead	1.00U	2.00	0.500	ug/L
Zinc	5.00U	10.0	3.10	ug/L

Batch Information

Analytical Batch: MMS11558
Analytical Method: EP200.8
Instrument: P7 Agilent 7800
Analyst: DSD
Analytical Date/Time: 5/19/2022 1:51:36PM

Prep Batch: MXX35113
Prep Method: E200.2
Prep Date/Time: 5/19/2022 7:54:41AM
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Blank Spike Summary

Blank Spike ID: LCS for HBN 1221998 [MXX35113]
Blank Spike Lab ID: 1664372
Date Analyzed: 05/19/2022 13:54

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1221998025, 1221998026, 1221998027, 1221998028, 1221998029, 1221998030, 1221998031, 1221998032

Results by **EP200.8**

Blank Spike (ug/L)

Parameter	Spike	Result	Rec (%)	CL
Arsenic	1000	1010	101	(85-115)
Cadmium	100	101	101	(85-115)
Chromium	400	398	100	(85-115)
Copper	1000	1040	104	(85-115)
Lead	1000	1000	100	(85-115)
Zinc	1000	1020	102	(85-115)

Batch Information

Analytical Batch: **MMS11558**
Analytical Method: **EP200.8**
Instrument: **P7 Agilent 7800**
Analyst: **DSD**

Prep Batch: **MXX35113**
Prep Method: **E200.2**
Prep Date/Time: **05/19/2022 07:54**
Spike Init Wt./Vol.: 1000 ug/L Extract Vol: 50 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1664370
MS Sample ID: 1664375 MS
MSD Sample ID:

Analysis Date: 05/19/2022 14:13
Analysis Date: 05/19/2022 14:16
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1221998025, 1221998026, 1221998027, 1221998028, 1221998029, 1221998030, 1221998031, 1221998032

Results by **EP200.8**

		Matrix Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Arsenic	2.50U	1000	1000	100				70-130		
Cadmium	0.250U	100	99.5	100				70-130		
Chromium	2.50U	400	401	100				70-130		
Copper	1.60J	1000	1030	103				70-130		
Lead	1.00U	1000	1020	102				70-130		
Zinc	12.5	1000	1010	100				70-130		

Batch Information

Analytical Batch: MMS11558
Analytical Method: EP200.8
Instrument: P7 Agilent 7800
Analyst: DSD
Analytical Date/Time: 5/19/2022 2:16:28PM

Prep Batch: MXX35113
Prep Method: DW Digest for Metals on ICP-MS
Prep Date/Time: 5/19/2022 7:54:41AM
Prep Initial Wt./Vol.: 20.00mL
Prep Extract Vol: 50.00mL

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Method Blank

Blank ID: MB for HBN 1836326 [MXX/35114]
Blank Lab ID: 1664384

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1221998033, 1221998034, 1221998035, 1221998036, 1221998037

Results by **EP200.8**

Parameter	Results	LOQ/CL	DL	Units
Arsenic	2.50U	5.00	1.50	ug/L
Cadmium	0.250U	0.500	0.150	ug/L
Chromium	2.50U	5.00	2.50	ug/L
Copper	1.50U	3.00	1.00	ug/L
Lead	1.00U	2.00	0.500	ug/L
Zinc	5.00U	10.0	3.10	ug/L

Batch Information

Analytical Batch: MMS11558
Analytical Method: EP200.8
Instrument: P7 Agilent 7800
Analyst: DSD
Analytical Date/Time: 5/19/2022 3:27:25PM

Prep Batch: MXX35114
Prep Method: E200.2
Prep Date/Time: 5/19/2022 9:07:31AM
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1221998 [MXX35114]
Blank Spike Lab ID: 1664385
Date Analyzed: 05/19/2022 15:30

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1221998033, 1221998034, 1221998035, 1221998036, 1221998037

Results by **EP200.8**

Blank Spike (ug/L)

Parameter	Spike	Result	Rec (%)	CL
Arsenic	1000	992	99	(85-115)
Cadmium	100	98.5	99	(85-115)
Chromium	400	400	100	(85-115)
Copper	1000	1040	104	(85-115)
Lead	1000	1020	102	(85-115)
Zinc	1000	987	99	(85-115)

Batch Information

Analytical Batch: **MMS11558**
Analytical Method: **EP200.8**
Instrument: **P7 Agilent 7800**
Analyst: **DSD**

Prep Batch: **MXX35114**
Prep Method: **E200.2**
Prep Date/Time: **05/19/2022 09:07**
Spike Init Wt./Vol.: 1000 ug/L Extract Vol: 50 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1664376
MS Sample ID: 1664387 MS
MSD Sample ID:

Analysis Date: 05/19/2022 15:35
Analysis Date: 05/19/2022 15:38
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1221998033, 1221998034, 1221998035, 1221998036, 1221998037

Results by **EP200.8**

		Matrix Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Arsenic	6.28	1000	999	99				70-130		
Cadmium	0.250U	100	97.8	98				70-130		
Chromium	2.50U	400	399	100				70-130		
Copper	1.50U	1000	1030	103				70-130		
Lead	0.502J	1000	997	100				70-130		
Zinc	9.87J	1000	991	98				70-130		

Batch Information

Analytical Batch: MMS11558
Analytical Method: EP200.8
Instrument: P7 Agilent 7800
Analyst: DSD
Analytical Date/Time: 5/19/2022 3:38:11PM

Prep Batch: MXX35114
Prep Method: DW Digest for Metals on ICP-MS
Prep Date/Time: 5/19/2022 9:07:31AM
Prep Initial Wt./Vol.: 20.00mL
Prep Extract Vol: 50.00mL

Print Date: 05/23/2022 8:22:06AM

Method Blank

Blank ID: MB for HBN 1836011 [WFI/2987]
Blank Lab ID: 1663387

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1221998017

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	Units
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: WFI2987
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: DMM
Analytical Date/Time: 5/9/2022 2:21:43PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1221998 [WFI2987]
Blank Spike Lab ID: 1663388
Date Analyzed: 05/09/2022 14:19

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1221998017

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.44	98	(70-130)
Nitrite-N	2.5	2.52	101	(90-110)
Total Nitrate/Nitrite-N	5	4.96	99	(90-110)

Batch Information

Analytical Batch: **WFI2987**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **DMM**

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Matrix Spike Summary

Original Sample ID: 1221920001
MS Sample ID: 1663385 MS
MSD Sample ID: 1663386 MSD

Analysis Date: 05/09/2022 13:39
Analysis Date: 05/09/2022 13:41
Analysis Date: 05/09/2022 13:43
Matrix: Drinking Water

QC for Samples:

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Nitrate/Nitrite-N	0.657	5.00	5.66	100	5.00	5.74	102	90-110	1.40	(< 25)

Batch Information

Analytical Batch: WFI2987
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: DMM
Analytical Date/Time: 5/9/2022 1:41:29PM

Print Date: 05/23/2022 8:22:11AM

Matrix Spike Summary

Original Sample ID: 1221858007
MS Sample ID: 1663389 MS
MSD Sample ID: 1663390 MSD

QC for Samples: 1221998017

Analysis Date: 05/09/2022 14:25
Analysis Date: 05/09/2022 14:26
Analysis Date: 05/09/2022 14:28
Matrix: Drinking Water

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Nitrate/Nitrite-N	0.200U	5.00	4.84	97	5.00	4.90	98	90-110	1.10	(< 25)

Batch Information

Analytical Batch: WFI2987
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: DMM
Analytical Date/Time: 5/9/2022 2:26:58PM

Print Date: 05/23/2022 8:22:11AM

Method Blank

Blank ID: MB for HBN 1836109 (WFI/2988) Matrix: Water (Surface, Eff., Ground)
Blank Lab ID: 1663732

QC for Samples:
1221998001, 1221998002, 1221998003, 1221998004, 1221998005, 1221998006, 1221998007, 1221998008, 1221998009, 1221998010, 1221998011, 1221998012, 1221998013, 1221998014, 1221998015, 1221998016, 1221998018, 1221998019, 1221998020, 1221998021, 1221998022, 1221998023, 1221998024

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	Units
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: WFI2988
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EBH
Analytical Date/Time: 5/12/2022 12:29:06PM

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Method Blank

Blank ID: MB for HBN 1836109 (WFI/2988)
Blank Lab ID: 1663739

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1221998001, 1221998002, 1221998003, 1221998004, 1221998005, 1221998006, 1221998007

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	Units
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: WFI2988
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EBH
Analytical Date/Time: 5/12/2022 11:41:51AM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1221998 [WFI2988]
Blank Spike Lab ID: 1663734
Date Analyzed: 05/12/2022 12:27

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1221998001, 1221998002, 1221998003, 1221998004, 1221998005, 1221998006, 1221998007, 1221998008, 1221998009, 1221998010, 1221998011, 1221998012, 1221998013, 1221998014, 1221998015, 1221998016, 1221998018, 1221998019, 1221998020, 1221998021, 1221998022,

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.63	105	(70-130)
Nitrite-N	2.5	2.50	100	(90-110)
Total Nitrate/Nitrite-N	5	5.13	103	(90-110)

Batch Information

Analytical Batch: **WFI2988**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **EBH**

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1221998 [WFI2988]
Blank Spike Lab ID: 1663741
Date Analyzed: 05/12/2022 11:40

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1221998001, 1221998002, 1221998003, 1221998004, 1221998005, 1221998006, 1221998007

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.46	98	(70-130)
Nitrite-N	2.5	2.49	99	(90-110)
Total Nitrate/Nitrite-N	5	4.95	99	(90-110)

Batch Information

Analytical Batch: **WFI2988**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **EBH**

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Matrix Spike Summary

Original Sample ID: 1663719
MS Sample ID: 1663721 MS
MSD Sample ID: 1663722 MSD

Analysis Date: 05/12/2022 11:50
Analysis Date: 05/12/2022 11:52
Analysis Date: 05/12/2022 11:54
Matrix: Drinking Water

QC for Samples: 1221998001, 1221998002, 1221998003, 1221998004, 1221998005, 1221998006, 1221998007, 1221998008

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.383	2.50	3.63	130	2.50	3.73	134 *	70-130	2.70	(< 25)
Nitrite-N	0.100U	2.50	2.3	92	2.50	2.45	98	90-110	6.10	(< 25)

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EBH
Analytical Date/Time: 5/12/2022 11:52:21AM

Print Date: 05/23/2022 8:22:16AM

Matrix Spike Summary

Original Sample ID: 1221998008
MS Sample ID: 1663723 MS
MSD Sample ID: 1663724 MSD

Analysis Date: 05/12/2022 12:32
Analysis Date: 05/12/2022 12:34
Analysis Date: 05/12/2022 12:36
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1221998001, 1221998002, 1221998003, 1221998004, 1221998005, 1221998006, 1221998007, 1221998008, 1221998009, 1221998010, 1221998011, 1221998012, 1221998013, 1221998014, 1221998015, 1221998016, 1221998018, 1221998019, 1221998020, 1221998021, 1221998022,

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Nitrate/Nitrite-N	1.38	5.00	6.82	109	5.00	6.98	112 *	90-110	2.20	(< 25)

Batch Information

Analytical Batch: WFI2988
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EBH
Analytical Date/Time: 5/12/2022 12:34:00PM

Print Date: 05/23/2022 8:22:16AM

Method Blank

Blank ID: MB for HBN 1836127 [WXX/14200]
Blank Lab ID: 1663831

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1221998001, 1221998002, 1221998003, 1221998004, 1221998006, 1221998007, 1221998008, 1221998009, 1221998010, 1221998011, 1221998012, 1221998013, 1221998014, 1221998015

Results by **SM21 4500P-B,E**

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

Batch Information

Analytical Batch: WDA5201
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: RJC
Analytical Date/Time: 5/11/2022 1:36:00PM

Prep Batch: WXX14200
Prep Method: SM21 4500P-B,E
Prep Date/Time: 5/11/2022 10:00:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1221998 [WXX14200]
Blank Spike Lab ID: 1663832
Date Analyzed: 05/11/2022 13:37

Spike Duplicate ID: LCSD for HBN 1221998 [WXX14200]
Spike Duplicate Lab ID: 1663833
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1221998001, 1221998002, 1221998003, 1221998004, 1221998006, 1221998007, 1221998008, 1221998009, 1221998010, 1221998011, 1221998012, 1221998013, 1221998014, 1221998015

Results by **SM21 4500P-B,E**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.2	0.228	114	0.2	0.201	101	(75-125)	12.50	(< 25)

Batch Information

Analytical Batch: **WDA5201**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **RJC**

Prep Batch: **WXX14200**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **05/11/2022 10:00**
Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

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Matrix Spike Summary

Original Sample ID: 1664033
MS Sample ID: 1663834 MS
MSD Sample ID: 1663835 MSD

Analysis Date: 05/11/2022 13:45
Analysis Date: 05/11/2022 13:48
Analysis Date: 05/11/2022 13:49
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1221998001, 1221998002, 1221998003, 1221998004, 1221998006, 1221998007, 1221998008, 1221998009, 1221998010, 1221998011, 1221998012, 1221998013, 1221998014, 1221998015

Results by **SM21 4500P-B,E**

		Matrix Spike (mg/L)				Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)		Spike	Result	Rec (%)		CL	RPD (%)	RPD CL
Total Phosphorus	0.0617	0.200	.0678	3	*	0.200	0.0644	1	*	75-125	5.10	(< 25)

Batch Information

Analytical Batch: WDA5201
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: RJC
Analytical Date/Time: 5/11/2022 1:48:00PM

Prep Batch: WXX14200
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 5/11/2022 10:00:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

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Method Blank

Blank ID: MB for HBN 1836316 [WXX/14205]
Blank Lab ID: 1664342

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1221998005, 1221998016, 1221998017, 1221998018, 1221998019, 1221998020, 1221998021, 1221998022, 1221998023, 1221998024

Results by **SM21 4500P-B,E**

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

Batch Information

Analytical Batch: WDA5203
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: RJC
Analytical Date/Time: 5/17/2022 12:50:11PM

Prep Batch: WXX14205
Prep Method: SM21 4500P-B,E
Prep Date/Time: 5/17/2022 10:30:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1221998 [WXX14205]
Blank Spike Lab ID: 1664343
Date Analyzed: 05/17/2022 12:51

Spike Duplicate ID: LCSD for HBN 1221998 [WXX14205]
Spike Duplicate Lab ID: 1664344
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1221998005, 1221998016, 1221998017, 1221998018, 1221998019, 1221998020, 1221998021, 1221998022, 1221998023, 1221998024

Results by **SM21 4500P-B,E**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.2	0.203	101	0.2	0.193	97	(75-125)	4.80	(< 25)

Batch Information

Analytical Batch: **WDA5203**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **RJC**

Prep Batch: **WXX14205**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **05/17/2022 10:30**
Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

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Matrix Spike Summary

Original Sample ID: 1221998021
MS Sample ID: 1664345 MS
MSD Sample ID: 1664346 MSD

Analysis Date: 05/17/2022 12:58
Analysis Date: 05/17/2022 13:01
Analysis Date: 05/17/2022 13:02
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1221998005, 1221998016, 1221998017, 1221998018, 1221998019, 1221998020, 1221998021, 1221998022, 1221998023, 1221998024

Results by **SM21 4500P-B,E**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.0200U	0.200	.2	100	0.200	0.196	98	75-125	1.80	(< 25)

Batch Information

Analytical Batch: WDA5203
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: RJC
Analytical Date/Time: 5/17/2022 1:01:00PM

Prep Batch: WXX14205
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 5/17/2022 10:30:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 05/23/2022 8:22:26AM

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

Section 1

CLIENT: Kenai Watershed Forum

CONTACT: Benjamin Meyer — PHONE #: 907-232-0280

PROJECT NAME: Kenai River Baseline Water Quality Monitoring — PROJECT/ PWSID/ PERMIT#:

REPORTS TO: Benjamin Meyer — E-MAIL: ben@kenaiwatershed.org — Profile #: # 383466

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	# CONTAINERS	Comp Grab MI (Multi-incremental)	Analysis* Total NO3/NO2(SM21 4500NO3-F), Total P(SM4500)	Total Metals (200.7)	Dissolved Metals (200.8)	REMARKS/LOC ID
1 AB	RM 0 - No Name Creek	5/3/2022	10:00	water	3		x	x	x	
2 AB	RM 1.5 - Kenai City Dock - DUP	5/3/2022	9:15	water	3		x	x	x	
3 AB	RM 1.5 - Kenai City Dock	5/3/2022	9:10	water	3		x	x	x	
4 AB	RM 6.5 - Cunningham Park	5/3/2022	9:39	water	3		x	x	x	
5 AB	RM 10 - Beaver Creek	5/3/2022	10:51	water	3		x	x	x	
6 AB	RM 10.1 - Kenai River	5/3/2022	11:23	water	3		x	x	x	
7 AB	RM 12.5 - Pillars	5/3/2022	11:50	water	3		x	x	x	
8 AB	RM 18 - Poacher's Cove	5/3/2022	12:24	water	3		x	x	x	
9 AB	RM 19 - Slikok Creek	5/3/2022	11:20	water	3		x	x	x	
10 AB	RM 21 - Soldotna Bridge	5/3/2022	10:45	water	3		x	x	x	

Section 3 — Preservative: H2SO4, HNO3, HNO3

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

Section 5

	Date	Time	
Relinquished By: (1) Benjamin Meyer	5/3/2022	1:55 PM	Received By:
Relinquished By: (2)			Received By:
Relinquished By: (3)			Received By:
Relinquished By: (4)	5/3/22	16:57	Received For Laboratory By:

Section 4 — DOD Project? Yes (No)

Cooler ID:

Data Deliverable Requirements: Please include Electronic Data Delivery files.

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 6.1 D02 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery[ ] Commerical Delivery [ ]

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1221998

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

Section 1

CLIENT: Kenai Watershed Forum

CONTACT: Benjamin Meyer — PHONE #: 907-232-0280

PROJECT NAME: Kenai River Baseline Water Quality Monitoring — PROJECT/ PWSID/ PERMIT#:

REPORTS TO: Benjamin Meyer — E-MAIL: ben@kenaiwatershed.org — Profile #:

INVOICE TO: Kenai Watershed Forum — QUOTE #: — P.O. #:

Section 3

Preservative: H_2SO_4 | HNO_3 | HNO_3

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	Analysis*: Total NO3/NO2(SM21 4500NO3-F), Total P(SM4500)	Total Metals (200.7)	Dissolved Metals (200.8)							REMARKS/LOC ID
11 AB	RM 22 - Soldotna Creek	5/3/2022	10:03	water	3		x	x	x							
12 AB	RM 23 - Swiftwater Park	5/3/2022	12:08	water	3		x	x	x							
13 AB	RM 30 - Funny River	5/3/2022	8:33	water	3		x	x	x							
14 AB	RM 31 - Morgan's Landing	5/3/2022	11:00	water	2		x	x								
15 AB	RM 36 - Moose River	5/3/2022	10:15	water	2		x	x								
16 AB	RM 36 - Moose River-DUP	5/3/2022	10:15	water	2		x	x								
17 AB	RM 40 - Bing's Landing	5/3/2022	10:10	water	2		x	x								
18 AB	RM 43 - Upstream of Dow Island	5/3/2022	9:30	water	2		x	x								
19 AB	RM 44 - Mouth of Killey River	5/3/2022	9:20	water	2		x	x								
20 AB	RM 50 - Skilak Lake Outflow	5/3/2022	7:30	water	2		x	x								

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

Section 5

	Date	Time	
Relinquished By: (1) Benjamin Meyer	5/3/2022	1:55PM	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	5/3/22	1657	Received For Laboratory By:

Section 4

DOD Project? Yes (No)

Cooler ID:

Data Deliverable Requirements: *Please include Electronic Data Delivery files.*

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 6.1 D62 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery[ ] Commerical Delivery[ ]

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

SGS

SGS North America Inc.
CHAIN OF CUSTODY RECORD

1221998

www.us.sgs.com

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

Section 1

CLIENT:	Kenai Watershed Forum		
CONTACT:	Benjamin Meyer	PHONE #:	907-232-0280
PROJECT NAME:	Kenai River Baseline Water Quality Monitoring	PROJECT/ PWSID/ PERMIT#:	
REPORTS TO:	Benjamin Meyer	E-MAIL:	ben@kenaiwatershed.org
		Profile #:	
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	# CONTAINERS	Comp Grab MI (Multi-incremental)	Analysis* Total NO3/NO2(SM21 4500NO3-F), Total P(SM4500)	Analysis* Total Metals (200.7)	Analysis* Dissolved Metals (200.8)	REMARKS/LOC ID
21 AB	RM 70 - Jim's Landing	5/3/2022	10:32	water	2		x	x		
22 AB	RM 74 - Russian River	5/3/2022	9:45	water	2		x	x		
23 AB	RM 82 - Kenai Lake Bridge	5/3/2022	7:55	water	2		x	x		
24 AB	RM 79.5 - Juneau Creek	5/3/2022	8:50	water	2		x	x		

Section 3

Preservative: H2SO4, HNO3, HNO3

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

Section 5

	Date	Time	
Relinquished By: (1) Benjamin Meyer	5/3/2022	1:55PM	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	5/3/22	16:57	Received For Laboratory By: DBR

Section 4

DOD Project? Yes (No)

Cooler ID: _____

Data Deliverable Requirements:

Please include Electronic Data Delivery files.

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 6.1 D02

or Ambient [ ]

Chain of Custody Seal: (Circle) 1R

INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [ ] Commerical Delivery [✓] Alert

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

Project Information Form

This form provides clarification and/or additional information for sample login, and should be scanned with the receiving paperwork.

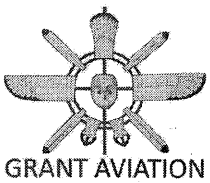
Client Name:	Kenai Watershed Forum
Project:	Kenai River Baseline Water Quality Monitoring
Date:	5/3/2022
Reason for Clarification:	Analytical request clarification (per quote 383466)
Notes:	4500 Total Nitrate+Nitrite 4500 Total Phosphorus 200.7 Total Metals (Ca, Mg, Fe) <REF LAB: ALS Kelso, WA> 200.8 Dissolved Metals (As, Cd, Cr, Cu, Pb, Zn)

AIRBILL 9820342

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

Signed..... Date .....

Grant Aviation
6420 Kulis Dr. Anchorage, AK 99502
Phone: 1 (888) 359-4726
Freephone: 1 (888) 359-4726
Email: res@flygrant.com
Web: http://www.flygrant.com/



FREIGHT DETAILS

FROM/TO: Kenai -> Anchorage International

Flight Departs: May 3 22 3:25 PM

Receiver: Alert
907-272-0349

Sender: Benjamin Meyer
907-232-0280

Accepted: Tue, May 3 22 2:57:00 PM

Description & Comment	Quan.	Wgt.	Handle Fee	Hazmat Fee	Total
Standard Freight	2	81	-	-	$45.74
				Total Tax:	$2.86
				Total Payments made:	$0.00
				Total Unpaid:	**$48.60**

Received in good condition by: .....

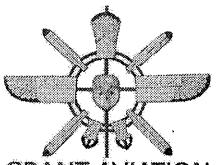
CUSTOMER COPY

AIRBILL 9820342

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

Signed..... Date .....

Grant Aviation
6420 Kulis Dr. Anchorage, AK 99502
Phone: 1 (888) 359-4726
Freephone: 1 (888) 359-4726
Email: res@flygrant.com
Web: http://www.flygrant.com/



FREIGHT DETAILS

FROM/TO: Kenai -> Anchorage International

Flight Departs: May 3 22 3:25 PM

Receiver: Alert
907-272-0349

Sender: Benjamin Meyer
907-232-0280

Accepted: Tue, May 3 22 2:57:00 PM

Description & Comment	Quan.	Wgt.	Handle Fee	Hazmat Fee	Total
Standard Freight	2	81	-	-	$45.74
TAX: Federal Excise Tax					$2.86
				Total Payments made:	$0.00
				Total Unpaid:	**$48.60**

TERMS AND CONDITIONS

Consignemnt Note Text

Alert Expeditors Inc.

#419415

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

Date 5/3/22

From

To SCS

Collect	Prepay	Advance Charges
Job #	PO#	1820342

2 YC

Shipped Signature

e-Sample Receipt Form

SGS Workorder #:	1221998	1221998

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements	*Note:* Temperature and COC seal information is found on the chain of custody form	
DOD only: Did all sample coolers have a corresponding COC?	N/A	
If <0°C, were sample containers ice free?	N/A	
Note containers received with ice:		
Identify any containers received at non-compliant temperature: *(Use form FS-0029 if more space is needed)*		
Holding Time / Documentation / Sample Condition Requirements	*Note:* Refer to form F-083 "Sample Guide" for specific holding times and sample containers.	
Were samples received within analytical holding time?	Yes	
Do sample labels match COC? Record discrepancies.	Yes	
Note: *If information on containers differs from COC, default to COC information for login. If times differ <1hr, record details & login per COC.*		
Were analytical requests clear?	Yes	
(i.e. method is specified for analyses with multiple option for method (Eg, BTEX 8021 vs 8260, Metals 6020 vs 200.8)		
Were proper containers (type/mass/volume/preservative)used?	No	
Note: Exemption for metals analysis by 200.8/6020 in water.		2mL HNO3 added to container 1B.
Volatile Analysis Requirements (VOC, GRO, LL-Hg, etc.)		
Were all soil VOAs received with a corresponding % solids container?	N/A	
Were Trip Blanks (e.g., VOAs, LL-Hg) in cooler with samples?	N/A	
Were all water VOA vials free of headspace (e.g., bubbles ≤ 6mm)?	N/A	
Were all soil VOAs field extracted with Methanol+BFB?	N/A	
Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.		
Additional notes (if applicable):		

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1221998001-A	H2SO4 to pH < 2	OK	1221998026-A	HNO3 to pH < 2	OK
1221998001-B	HNO3 to pH < 2	PA	1221998027-A	HNO3 to pH < 2	OK
1221998002-A	H2SO4 to pH < 2	OK	1221998028-A	HNO3 to pH < 2	OK
1221998002-B	HNO3 to pH < 2	OK	1221998029-A	HNO3 to pH < 2	OK
1221998003-A	H2SO4 to pH < 2	OK	1221998030-A	HNO3 to pH < 2	OK
1221998003-B	HNO3 to pH < 2	OK	1221998031-A	HNO3 to pH < 2	OK
1221998004-A	H2SO4 to pH < 2	OK	1221998032-A	HNO3 to pH < 2	OK
1221998004-B	HNO3 to pH < 2	OK	1221998033-A	HNO3 to pH < 2	OK
1221998005-A	H2SO4 to pH < 2	OK	1221998034-A	HNO3 to pH < 2	OK
1221998005-B	HNO3 to pH < 2	OK	1221998035-A	HNO3 to pH < 2	OK
1221998006-A	H2SO4 to pH < 2	OK	1221998036-A	HNO3 to pH < 2	OK
1221998006-B	HNO3 to pH < 2	OK	1221998037-A	HNO3 to pH < 2	OK
1221998007-A	H2SO4 to pH < 2	OK			
1221998007-B	HNO3 to pH < 2	OK			
1221998008-A	H2SO4 to pH < 2	OK			
1221998008-B	HNO3 to pH < 2	OK			
1221998009-A	H2SO4 to pH < 2	OK			
1221998009-B	HNO3 to pH < 2	OK			
1221998010-A	H2SO4 to pH < 2	OK			
1221998010-B	HNO3 to pH < 2	OK			
1221998011-A	H2SO4 to pH < 2	OK			
1221998011-B	HNO3 to pH < 2	OK			
1221998012-A	H2SO4 to pH < 2	OK			
1221998012-B	HNO3 to pH < 2	OK			
1221998013-A	H2SO4 to pH < 2	OK			
1221998013-B	HNO3 to pH < 2	OK			
1221998014-A	H2SO4 to pH < 2	OK			
1221998014-B	HNO3 to pH < 2	OK			
1221998015-A	H2SO4 to pH < 2	OK			
1221998015-B	HNO3 to pH < 2	OK			
1221998016-A	H2SO4 to pH < 2	OK			
1221998016-B	HNO3 to pH < 2	OK			
1221998017-A	H2SO4 to pH < 2	OK			
1221998017-B	HNO3 to pH < 2	OK			
1221998018-A	H2SO4 to pH < 2	OK			
1221998018-B	HNO3 to pH < 2	OK			
1221998019-A	H2SO4 to pH < 2	OK			
1221998019-B	HNO3 to pH < 2	OK			
1221998020-A	H2SO4 to pH < 2	OK			
1221998020-B	HNO3 to pH < 2	OK			
1221998021-A	H2SO4 to pH < 2	OK			
1221998021-B	HNO3 to pH < 2	OK			
1221998022-A	H2SO4 to pH < 2	OK			
1221998022-B	HNO3 to pH < 2	OK			
1221998023-A	H2SO4 to pH < 2	OK			
1221998023-B	HNO3 to pH < 2	OK			
1221998024-A	H2SO4 to pH < 2	OK			
1221998024-B	HNO3 to pH < 2	OK			
1221998025-A	HNO3 to pH < 2	OK			

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition

Container Condition Glossary

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

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
QN - Insufficient sample quantity provided.

May 12, 2022 Service Request No:K2204916

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

Laboratory Results for: 1221998

Dear Julie,

Enclosed are the results of the sample(s) submitted to our laboratory May 06, 2022
For your reference, these analyses have been assigned our service request number **K2204916.**

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. 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 3360. You may also contact me via email at Cody.Graves@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

for Cody Graves
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

Client: SGS North America - AK (SGS Environmental)
Project: 1221998
Sample Matrix: Water

Service Request: K2204916
Date Received: 05/06/2022

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 05/06/2022. 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 Sydney A Wolfe Date 05/12/2022

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: RM 0- No Name Creek			Lab ID: K2204916-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	3.36		0.003	0.021	mg/L	200.7
Iron	3.00		0.008	0.021	mg/L	200.7
Magnesium	1.05		0.0004	0.0053	mg/L	200.7

CLIENT ID: Rm1.5-Kenai City Dock-DUP			Lab ID: K2204916-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	223		0.003	0.021	mg/L	200.7
Iron	6.07		0.008	0.021	mg/L	200.7
Magnesium	721		0.04	0.53	mg/L	200.7

CLIENT ID: RM1.5-Kenai City Dock			Lab ID: K2204916-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	242		0.003	0.021	mg/L	200.7
Iron	4.24		0.008	0.021	mg/L	200.7
Magnesium	726		0.04	0.53	mg/L	200.7

CLIENT ID: RM6.5- Cunningham Park			Lab ID: K2204916-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	14.0		0.003	0.021	mg/L	200.7
Iron	18.3		0.008	0.021	mg/L	200.7
Magnesium	7.58		0.0004	0.0053	mg/L	200.7

CLIENT ID: Rm10-Beaver Creek			Lab ID: K2204916-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	6.18		0.003	0.021	mg/L	200.7
Iron	2.33		0.008	0.021	mg/L	200.7
Magnesium	1.66		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM10.1-Kenai River			Lab ID: K2204916-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	10.9		0.003	0.021	mg/L	200.7
Iron	0.531		0.008	0.021	mg/L	200.7
Magnesium	1.73		0.0004	0.0053	mg/L	200.7

CLIENT ID: Rm12-.5-Pillars			Lab ID: K2204916-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	10.9		0.003	0.021	mg/L	200.7
Iron	0.455		0.008	0.021	mg/L	200.7
Magnesium	1.70		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM18- Poacher's Cove			Lab ID: K2204916-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	11.0		0.003	0.021	mg/L	200.7
Iron	0.447		0.008	0.021	mg/L	200.7

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: RM18- Poacher's Cove			Lab ID: K2204916-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Magnesium	1.66		0.0004	0.0053	mg/L	200.7

CLIENT ID: Rm19-Slikok Creek			Lab ID: K2204916-009			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	5.91		0.003	0.021	mg/L	200.7
Iron	0.641		0.008	0.021	mg/L	200.7
Magnesium	1.69		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM21-Soldotna Bridge			Lab ID: K2204916-010			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	10.7		0.003	0.021	mg/L	200.7
Iron	0.385		0.008	0.021	mg/L	200.7
Magnesium	1.62		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM22-Soldotna Creek			Lab ID: K2204916-011			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	9.45		0.003	0.021	mg/L	200.7
Iron	0.507		0.008	0.021	mg/L	200.7
Magnesium	2.80		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM23-Swiftwater Park			Lab ID: K2204916-012			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	12.0		0.003	0.021	mg/L	200.7
Iron	0.440		0.008	0.021	mg/L	200.7
Magnesium	1.89		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM30-Funny River			Lab ID: K2204916-013			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	7.11		0.003	0.021	mg/L	200.7
Iron	1.07		0.008	0.021	mg/L	200.7
Magnesium	2.40		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM31- Morgan's Landing			Lab ID: K2204916-014			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	12.2		0.003	0.021	mg/L	200.7
Iron	0.473		0.008	0.021	mg/L	200.7
Magnesium	1.70		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM36-Moose River			Lab ID: K2204916-015			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	13.4		0.003	0.021	mg/L	200.7
Iron	1.23		0.008	0.021	mg/L	200.7
Magnesium	2.30		0.0004	0.0053	mg/L	200.7

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: RM36-Moose River-DUP			Lab ID: K2204916-016			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	13.4		0.003	0.021	mg/L	200.7
Iron	1.14		0.008	0.021	mg/L	200.7
Magnesium	2.30		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM40-Bing's Landing			Lab ID: K2204916-017			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	11.3		0.003	0.021	mg/L	200.7
Iron	0.168		0.008	0.021	mg/L	200.7
Magnesium	1.12		0.0004	0.0053	mg/L	200.7

CLIENT ID: R43- Upstream of Dow Island			Lab ID: K2204916-018			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	11.1		0.003	0.021	mg/L	200.7
Iron	0.162		0.008	0.021	mg/L	200.7
Magnesium	1.09		0.0004	0.0053	mg/L	200.7

CLIENT ID: R44-Mouth of Killey River			Lab ID: K2204916-019			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	8.94		0.003	0.021	mg/L	200.7
Iron	0.551		0.008	0.021	mg/L	200.7
Magnesium	1.62		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM50-Skilak Lake Outflow			Lab ID: K2204916-020			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	11.5		0.003	0.021	mg/L	200.7
Iron	0.114		0.008	0.021	mg/L	200.7
Magnesium	0.973		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM70-Jim's Landing			Lab ID: K2204916-021			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	16.7		0.003	0.021	mg/L	200.7
Iron	0.058		0.008	0.021	mg/L	200.7
Magnesium	1.24		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM74- RussianRiver			Lab ID: K2204916-022			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	19.7		0.003	0.021	mg/L	200.7
Iron	0.062		0.008	0.021	mg/L	200.7
Magnesium	1.23		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM82-Kenai Lake Bridge			Lab ID: K2204916-023			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	14.6		0.003	0.021	mg/L	200.7
Iron	0.041		0.008	0.021	mg/L	200.7

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: RM82-Kenai Lake Bridge			Lab ID: K2204916-023			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Magnesium	1.15		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM79.5- Juneau Creek			Lab ID: K2204916-024			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	16.9		0.003	0.021	mg/L	200.7
Iron	0.107		0.008	0.021	mg/L	200.7
Magnesium	1.33		0.0004	0.0053	mg/L	200.7

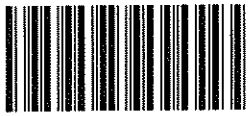
Sample Receipt Information

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

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
K2204916-001	RM 0- No Name Creek	5/3/2022	1000
K2204916-002	Rm1.5-Kenai City Dock-DUP	5/3/2022	0915
K2204916-003	RM1.5-Kenai City Dock	5/3/2022	0910
K2204916-004	RM6.5- Cunningham Park	5/3/2022	0939
K2204916-005	Rm10-Beaver Creek	5/3/2022	1051
K2204916-006	RM10.1-Kenai River	5/3/2022	1123
K2204916-007	Rm12-.5-Pillars	5/3/2022	1150
K2204916-008	RM18- Poacher's Cove	5/3/2022	1224
K2204916-009	Rm19-Slikok Creek	5/3/2022	1120
K2204916-010	RM21-Soldotna Bridge	5/3/2022	1045
K2204916-011	RM22-Soldotna Creek	5/3/2022	1003
K2204916-012	RM23-Swiftwater Park	5/3/2022	1208
K2204916-013	RM30-Funny River	5/3/2022	0833
K2204916-014	RM31- Morgan's Landing	5/3/2022	1100
K2204916-015	RM36-Moose River	5/3/2022	1015
K2204916-016	RM36-Moose River-DUP	5/3/2022	1015
K2204916-017	RM40-Bing's Landing	5/3/2022	1010
K2204916-018	R43- Upstream of Dow Island	5/3/2022	0930
K2204916-019	R44-Mouth of Killey River	5/3/2022	0920
K2204916-020	RM50-Skilak Lake Outflow	5/3/2022	0730
K2204916-021	RM70-Jim's Landing	5/3/2022	1032
K2204916-022	RM74- RussianRiver	5/3/2022	0945
K2204916-023	RM82-Kenai Lake Bridge	5/3/2022	0755
K2204916-024	RM79.5- Juneau Creek	5/3/2022	0850

SGS North America Inc.
CHAIN OF CUSTODY RECORD



K2204916

Locations Nationwide

Alaska	Florida
New Jersey	Colorado
Texas	North Carolina
Virginia	Louisiana

www.us.sgs.com

CLIENT:	SGS North America Inc. - Alaska Division	SGS Reference:	ALS, Kelso, WA
CONTACT:	Julie Shumway	PHONE NO:	(907) 562-2343
PROJECT NAME:	1221998	PWSID#:	
		NPDL#:	
REPORTS TO:	Julie Shumway	E-MAIL:	Julie.Shumway@sgs.com; Env.Alaska.RefLabTeam@sgs.com
INVOICE TO:	SGS - Alaska	QUOTE #:	
	env.alaska.accounting@sgs.com	P.O. #:	1221998

Additional Comments: All soils report out in dry weight unless

Page 1 of 3

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/ MATRIX CODE	# CONTAINERS	Preservative Used: TYPE C = COMP G = GRAB MI = Multi Incremental Soils	HNO3 200.7 Total Calcium	HNO3 200.7 Total Iron	HNO3 200.7 Total Magnesium		MS	MSD	SGS lab #	Location ID
	RM 0- No Name Creek	05/03/2022	10:00:00	Water	1		X	X	X				1221998001	
	Rm1.5-Kenai City Dock-DUP	05/03/2022	09:15:00	Water	1		X	X	X				1221998002	
	RM1.5-Kenai City Dock	05/03/2022	09:10:00	Water	1		X	X	X				1221998003	
	RM6.5-Cunningham Park	05/03/2022	09:39:00	Water	1		X	X	X				1221998004	
	Rm10-Beaver Creek	05/03/2022	10:51:00	Water	1		X	X	X				1221998005	
	RM10.1-Kenai River	05/03/2022	11:23:00	Water	1		X	X	X				1221998006	
	RM12-.5-Pillars	05/03/2022	11:50:00	Water	1		X	X	X				1221998007	
	RM18-Poacher's Cove	05/03/2022	12:24:00	Water	1		X	X	X				1221998008	
	Rm19-Slikok Creek	05/03/2022	11:20:00	Water	1		X	X	X				1221998009	
	RM21-Soldotna Bridge	05/03/2022	10:45:00	Water	1		X	X	X				1221998010	

Relinquished By: (1)	Date: 5/5/22	Time: 0830	Received By:
Relinquished By: (2)	Date: 5/6/22	Time: 1010	Received By:
Relinquished By: (3)	Date:	Time:	Received By:
Relinquished By: (4)	Date:	Time:	Received For Laboratory By:

DOD Project? YES No

Report to DL (J Flags)? YES
If J- Report as DL/LOD/LOQ.

Data Deliverable Requirements: Level 2 + SGS EDD

Cooler ID:

Requested Turnaround Time and-or Special Instructions:

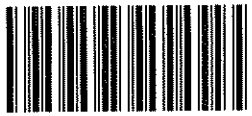
Temp Blank °C: _____ or Ambient [ ]

Chain of Custody Seal: (Circle) 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

http://www.sgs.com/terms_and_conditions.htm

SGS North America Inc.
CHAIN OF CUSTODY RECORD



1272049116

Locations Nationwide

Alaska	Florida
New Jersey	Colorado
Texas	North Carolina
Virginia	Louisiana

www.us.sgs.com

CLIENT:	SGS North America Inc. - Alaska Division	SGS Reference:	ALS, Kelso, WA
CONTACT:	Julie Shumway	PHONE NO:	(907) 562-2343
PROJECT NAME:	1221998	PWSID#:	
		NPDL#:	
REPORTS TO:	Julie Shumway	E-MAIL:	Julie.Shumway@sgs.com; Env.Alaska.RefLabTeam@sgs.com
INVOICE TO:	SGS - Alaska	QUOTE #:	
	env.alaska.accounting@sgs.com	P.O. #:	1221998

Additional Comments: All soils report out in dry weight unless

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/ MATRIX CODE	# CONTAINERS	Preservative Used:	HNO3	HNO3	HNO3		MS	MSD	SGS lab #	Location ID
						TYPE C = COMP G = GRAB MI = Multi Incremental Soils	200.7 Total Calcium	200.7 Total Iron	200.7 Total Magnesium					
	RM22-Soldotna Creek	05/03/2022	10:03:00	Water	1		X	X	X				1221998011	
	RM23-Swiftwater Park	05/03/2022	12:08:00	Water	1		X	X	X				1221998012	
	RM30-Funny River	05/03/2022	08:33:00	Water	1		X	X	X				1221998013	
	RM31-Morgan's Landing	05/03/2022	11:00:00	Water	1		X	X	X				1221998014	
	RM36-Moose River	05/03/2022	10:15:00	Water	1		X	X	X				1221998015	
	RM36-Moose River-DUP	05/03/2022	10:15:00	Water	1		X	X	X				1221998016	
	RM40-Bing's Landing	05/03/2022	10:10:00	Water	1		X	X	X				1221998017	
	R43-Upstream of Dow Islanc	05/03/2022	09:30:00	Water	1		X	X	X				1221998018	
	R44-Mouth of Killey River	05/03/2022	09:20:00	Water	1		X	X	X				1221998019	
	RM50-Skilak Lake Outflow	05/03/2022	07:30:00	Water	1		X	X	X				1221998020	

Relinquished By: (1)	Date: 5/5/22	Time: 0851	Received By:
Relinquished By: (2)	Date: 5/6/22	Time: 1010	Received By:
Relinquished By: (3)	Date:	Time:	Received By:
Relinquished By: (4)	Date:	Time:	Received For Laboratory By:

DOD Project? ~~YES~~ No NA

Report to DL (J Flags)? YES
If J- Report as DL/LOD/LOQ.

Data Deliverable Requirements: Level 2 + SGS EDD

Cooler ID:

Requested Turnaround Time and-or Special Instructions:

Temp Blank °C: _____ or Ambient [ ]

Chain of Custody Seal: (Circle) 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

SGS North America Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide

Alaska	Florida
New Jersey	Colorado
Texas	North Carolina
Virginia	Louisiana

www.us.sgs.com

K2204916

CLIENT:	SGS North America Inc. - Alaska Division	SGS Reference:	ALS, Kelso, WA
CONTACT:	Julie Shumway	PHONE NO:	(907) 562-2343
PROJECT NAME:	1221998	PWSID#:	
		NPDL#:	
REPORTS TO:	Julie Shumway	E-MAIL:	Julie.Shumway@sgs.com; Env.Alaska.RefLabTeam@sgs.com
INVOICE TO:	SGS - Alaska	QUOTE #:	
	env.alaska.accounting@sgs.com	P.O. #:	1221998

Additional Comments: All soils report out in dry weight unless

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/ MATRIX CODE	# CONTAINERS	Preservative Used: HNO3	HNO3	HNO3		MS	MSD	SGS lab #	Location ID
						TYPE C = COMP G = GRAB MI = Multi incremental Soils	200.7 Total Calcium	200.7 Total Iron	200.7 Total Magnesium				
	RM70-Jim's Landing	05/03/2022	10:32:00	Water	1		X	X	X				1221998021	
	RM74-Russian River	05/03/2022	09:45:00	Water	1		X	X	X				1221998022	
	RM82-Kenai Lake Bridge	05/03/2022	07:55:00	Water	1		X	X	X				1221998023	
	RM79.5-Juneau Creek	05/03/2022	08:50:00	Water	1		X	X	X				1221998024	

Relinquished By: (1)	Date	Time	Received By:	DOD Project? YES NO
J Shumway	5/5/22	0880		Report to DL (J Flags)? YES If J- Report as DL/LOD/LOQ.
Relinquished By: (2)	Date	Time	Received By:	Cooler ID:
	5/6/22	1010		
Relinquished By: (3)	Date	Time	Received By:	
Relinquished By: (4)	Date	Time	Received For Laboratory By:	

Data Deliverable Requirements: Level 2 + SGS EDD

Requested Turnaround Time and-or Special Instructions:

Temp Blank °C: _____ or Ambient [ ]

Chain of Custody Seal: (Circle) 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

PM HH

Cooler Receipt and Preservation Form

Client SGS Service Request K22 049116

Received: 5/6/22 Opened: 5/6/22 By: A Unloaded: 5/6/22 By: A

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? 2, sides
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N

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
5.0	—	IR01				148348022564	

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

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
15. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? (NA) Y N Under filled Overfilled

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

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable.
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.
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

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

Client: SGS North America - AK (SGS Environmental) **Service Request:** K2204916
Project: 1221998/

Sample Name: RM 0- No Name Creek **Date Collected:** 05/3/22
Lab Code: K2204916-001 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: Rm1.5-Kenai City Dock-DUP **Date Collected:** 05/3/22
Lab Code: K2204916-002 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: RM1.5-Kenai City Dock **Date Collected:** 05/3/22
Lab Code: K2204916-003 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: RM6.5- Cunningham Park **Date Collected:** 05/3/22
Lab Code: K2204916-004 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: Rm10-Beaver Creek **Date Collected:** 05/3/22
Lab Code: K2204916-005 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Client: SGS North America - AK (SGS Environmental) **Service Request:** K2204916
Project: 1221998/

Sample Name: RM10.1-Kenai River **Date Collected:** 05/3/22
Lab Code: K2204916-006 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: Rm12-.5-Pillars **Date Collected:** 05/3/22
Lab Code: K2204916-007 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: RM18- Poacher's Cove **Date Collected:** 05/3/22
Lab Code: K2204916-008 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: Rm19-Slikok Creek **Date Collected:** 05/3/22
Lab Code: K2204916-009 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: RM21-Soldotna Bridge **Date Collected:** 05/3/22
Lab Code: K2204916-010 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Client: SGS North America - AK (SGS Environmental) **Service Request:** K2204916
Project: 1221998/

Sample Name: RM22-Soldotna Creek **Date Collected:** 05/3/22
Lab Code: K2204916-011 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: RM23-Swiftwater Park **Date Collected:** 05/3/22
Lab Code: K2204916-012 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: RM30-Funny River **Date Collected:** 05/3/22
Lab Code: K2204916-013 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: RM31- Morgan's Landing **Date Collected:** 05/3/22
Lab Code: K2204916-014 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: RM36-Moose River **Date Collected:** 05/3/22
Lab Code: K2204916-015 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Client: SGS North America - AK (SGS Environmental) **Service Request:** K2204916
Project: 1221998/

Sample Name: RM36-Moose River-DUP **Date Collected:** 05/3/22
Lab Code: K2204916-016 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: RM40-Bing's Landing **Date Collected:** 05/3/22
Lab Code: K2204916-017 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: R43- Upstream of Dow Island **Date Collected:** 05/3/22
Lab Code: K2204916-018 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: R44-Mouth of Killey River **Date Collected:** 05/3/22
Lab Code: K2204916-019 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: RM50-Skilak Lake Outflow **Date Collected:** 05/3/22
Lab Code: K2204916-020 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Client: SGS North America - AK (SGS Environmental) **Service Request:** K2204916
Project: 1221998/

Sample Name: RM70-Jim's Landing **Date Collected:** 05/3/22
Lab Code: K2204916-021 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: RM74- RussianRiver **Date Collected:** 05/3/22
Lab Code: K2204916-022 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: RM82-Kenai Lake Bridge **Date Collected:** 05/3/22
Lab Code: K2204916-023 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Name: RM79.5- Juneau Creek **Date Collected:** 05/3/22
Lab Code: K2204916-024 **Date Received:** 05/6/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	SSOLADEY	AMCKORNEY

Sample Results

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1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
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Metals

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1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
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Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 10:00
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM 0- No Name Creek	**Basis:**	NA
Lab Code:	K2204916-001		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**3.36**	mg/L	0.021	0.003	1	05/11/22 13:11	05/10/22	
Iron	200.7	**3.00**	mg/L	0.021	0.008	1	05/11/22 13:11	05/10/22	
Magnesium	200.7	**1.05**	mg/L	0.0053	0.0004	1	05/11/22 13:11	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 09:15
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	Rm1.5-Kenai City Dock-DUP	**Basis:**	NA
Lab Code:	K2204916-002		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**223**	mg/L	0.021	0.003	1	05/11/22 13:19	05/10/22	
Iron	200.7	**6.07**	mg/L	0.021	0.008	1	05/11/22 13:19	05/10/22	
Magnesium	200.7	**721**	mg/L	0.53	0.04	100	05/11/22 13:51	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 09:10
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM1.5-Kenai City Dock	**Basis:**	NA
Lab Code:	K2204916-003		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**242**	mg/L	0.021	0.003	1	05/11/22 13:59	05/10/22	
Iron	200.7	**4.24**	mg/L	0.021	0.008	1	05/11/22 13:59	05/10/22	
Magnesium	200.7	**726**	mg/L	0.53	0.04	100	05/11/22 14:13	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 09:39
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM6.5- Cunningham Park	**Basis:**	NA
Lab Code:	K2204916-004		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**14.0**	mg/L	0.021	0.003	1	05/11/22 14:02	05/10/22	
Iron	200.7	**18.3**	mg/L	0.021	0.008	1	05/11/22 14:02	05/10/22	
Magnesium	200.7	**7.58**	mg/L	0.0053	0.0004	1	05/11/22 14:02	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 10:51
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	Rm10-Beaver Creek	**Basis:**	NA
Lab Code:	K2204916-005		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**6.18**	mg/L	0.021	0.003	1	05/11/22 14:05	05/10/22	
Iron	200.7	**2.33**	mg/L	0.021	0.008	1	05/11/22 14:05	05/10/22	
Magnesium	200.7	**1.66**	mg/L	0.0053	0.0004	1	05/11/22 14:05	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 11:23
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM10.1-Kenai River	**Basis:**	NA
Lab Code:	K2204916-006		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**10.9**	mg/L	0.021	0.003	1	05/11/22 14:07	05/10/22	
Iron	200.7	**0.531**	mg/L	0.021	0.008	1	05/11/22 14:07	05/10/22	
Magnesium	200.7	**1.73**	mg/L	0.0053	0.0004	1	05/11/22 14:07	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 11:50
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	Rm12-.5-Pillars	**Basis:**	NA
Lab Code:	K2204916-007		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**10.9**	mg/L	0.021	0.003	1	05/11/22 14:10	05/10/22	
Iron	200.7	**0.455**	mg/L	0.021	0.008	1	05/11/22 14:10	05/10/22	
Magnesium	200.7	**1.70**	mg/L	0.0053	0.0004	1	05/11/22 14:10	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 12:24
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM18- Poacher's Cove	**Basis:**	NA
Lab Code:	K2204916-008		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**11.0**	mg/L	0.021	0.003	1	05/11/22 14:26	05/10/22	
Iron	200.7	**0.447**	mg/L	0.021	0.008	1	05/11/22 14:26	05/10/22	
Magnesium	200.7	**1.66**	mg/L	0.0053	0.0004	1	05/11/22 14:26	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 11:20
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	Rm19-Slikok Creek	**Basis:**	NA
Lab Code:	K2204916-009		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**5.91**	mg/L	0.021	0.003	1	05/11/22 14:28	05/10/22	
Iron	200.7	**0.641**	mg/L	0.021	0.008	1	05/11/22 14:28	05/10/22	
Magnesium	200.7	**1.69**	mg/L	0.0053	0.0004	1	05/11/22 14:28	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 10:45
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM21-Soldotna Bridge	**Basis:**	NA
Lab Code:	K2204916-010		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**10.7**	mg/L	0.021	0.003	1	05/11/22 14:31	05/10/22	
Iron	200.7	**0.385**	mg/L	0.021	0.008	1	05/11/22 14:31	05/10/22	
Magnesium	200.7	**1.62**	mg/L	0.0053	0.0004	1	05/11/22 14:31	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 10:03
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM22-Soldotna Creek	**Basis:**	NA
Lab Code:	K2204916-011		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**9.45**	mg/L	0.021	0.003	1	05/11/22 14:34	05/10/22	
Iron	200.7	**0.507**	mg/L	0.021	0.008	1	05/11/22 14:34	05/10/22	
Magnesium	200.7	**2.80**	mg/L	0.0053	0.0004	1	05/11/22 14:34	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 12:08
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM23-Swiftwater Park	**Basis:**	NA
Lab Code:	K2204916-012		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**12.0**	mg/L	0.021	0.003	1	05/11/22 14:36	05/10/22	
Iron	200.7	**0.440**	mg/L	0.021	0.008	1	05/11/22 14:36	05/10/22	
Magnesium	200.7	**1.89**	mg/L	0.0053	0.0004	1	05/11/22 14:36	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 08:33
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM30-Funny River	**Basis:**	NA
Lab Code:	K2204916-013		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**7.11**	mg/L	0.021	0.003	1	05/11/22 14:39	05/10/22	
Iron	200.7	**1.07**	mg/L	0.021	0.008	1	05/11/22 14:39	05/10/22	
Magnesium	200.7	**2.40**	mg/L	0.0053	0.0004	1	05/11/22 14:39	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 11:00
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM31- Morgan's Landing	**Basis:**	NA
Lab Code:	K2204916-014		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**12.2**	mg/L	0.021	0.003	1	05/11/22 14:42	05/10/22	
Iron	200.7	**0.473**	mg/L	0.021	0.008	1	05/11/22 14:42	05/10/22	
Magnesium	200.7	**1.70**	mg/L	0.0053	0.0004	1	05/11/22 14:42	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 10:15
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM36-Moose River	**Basis:**	NA
Lab Code:	K2204916-015		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**13.4**	mg/L	0.021	0.003	1	05/11/22 14:44	05/10/22	
Iron	200.7	**1.23**	mg/L	0.021	0.008	1	05/11/22 14:44	05/10/22	
Magnesium	200.7	**2.30**	mg/L	0.0053	0.0004	1	05/11/22 14:44	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 10:15
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM36-Moose River-DUP	**Basis:**	NA
Lab Code:	K2204916-016		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**13.4**	mg/L	0.021	0.003	1	05/11/22 14:47	05/10/22	
Iron	200.7	**1.14**	mg/L	0.021	0.008	1	05/11/22 14:47	05/10/22	
Magnesium	200.7	**2.30**	mg/L	0.0053	0.0004	1	05/11/22 14:47	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 10:10
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM40-Bing's Landing	**Basis:**	NA
Lab Code:	K2204916-017		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**11.3**	mg/L	0.021	0.003	1	05/11/22 14:50	05/10/22	
Iron	200.7	**0.168**	mg/L	0.021	0.008	1	05/11/22 14:50	05/10/22	
Magnesium	200.7	**1.12**	mg/L	0.0053	0.0004	1	05/11/22 14:50	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 09:30
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	R43- Upstream of Dow Island	**Basis:**	NA
Lab Code:	K2204916-018		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**11.1**	mg/L	0.021	0.003	1	05/11/22 15:00	05/10/22	
Iron	200.7	**0.162**	mg/L	0.021	0.008	1	05/11/22 15:00	05/10/22	
Magnesium	200.7	**1.09**	mg/L	0.0053	0.0004	1	05/11/22 15:00	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 09:20
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	R44-Mouth of Killey River	**Basis:**	NA
Lab Code:	K2204916-019		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**8.94**	mg/L	0.021	0.003	1	05/11/22 15:03	05/10/22	
Iron	200.7	**0.551**	mg/L	0.021	0.008	1	05/11/22 15:03	05/10/22	
Magnesium	200.7	**1.62**	mg/L	0.0053	0.0004	1	05/11/22 15:03	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 07:30
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM50-Skilak Lake Outflow	**Basis:**	NA
Lab Code:	K2204916-020		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**11.5**	mg/L	0.021	0.003	1	05/11/22 15:05	05/10/22	
Iron	200.7	**0.114**	mg/L	0.021	0.008	1	05/11/22 15:05	05/10/22	
Magnesium	200.7	**0.973**	mg/L	0.0053	0.0004	1	05/11/22 15:05	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 10:32
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM70-Jim's Landing	**Basis:**	NA
Lab Code:	K2204916-021		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**16.7**	mg/L	0.021	0.003	1	05/11/22 10:51	05/10/22	
Iron	200.7	**0.058**	mg/L	0.021	0.008	1	05/11/22 10:51	05/10/22	
Magnesium	200.7	**1.24**	mg/L	0.0053	0.0004	1	05/11/22 10:51	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 09:45
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM74- RussianRiver	**Basis:**	NA
Lab Code:	K2204916-022		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**19.7**	mg/L	0.021	0.003	1	05/11/22 11:01	05/10/22	
Iron	200.7	**0.062**	mg/L	0.021	0.008	1	05/11/22 11:01	05/10/22	
Magnesium	200.7	**1.23**	mg/L	0.0053	0.0004	1	05/11/22 11:01	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 07:55
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM82-Kenai Lake Bridge	**Basis:**	NA
Lab Code:	K2204916-023		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**14.6**	mg/L	0.021	0.003	1	05/11/22 11:04	05/10/22	
Iron	200.7	**0.041**	mg/L	0.021	0.008	1	05/11/22 11:04	05/10/22	
Magnesium	200.7	**1.15**	mg/L	0.0053	0.0004	1	05/11/22 11:04	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22 08:50
Sample Matrix:	Water	**Date Received:**	05/06/22 10:10
Sample Name:	RM79.5- Juneau Creek	**Basis:**	NA
Lab Code:	K2204916-024		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**16.9**	mg/L	0.021	0.003	1	05/11/22 11:14	05/10/22	
Iron	200.7	**0.107**	mg/L	0.021	0.008	1	05/11/22 11:14	05/10/22	
Magnesium	200.7	**1.33**	mg/L	0.0053	0.0004	1	05/11/22 11:14	05/10/22	

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

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Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	KQ2207355-01		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**0.019 J**	mg/L	0.021	0.003	1	05/11/22 13:06	05/10/22	
Iron	200.7	ND U	mg/L	0.021	0.008	1	05/11/22 13:06	05/10/22	
Magnesium	200.7	**0.0028 J**	mg/L	0.0053	0.0004	1	05/11/22 13:06	05/10/22	

Analytical Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	KQ2207371-01		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**0.020 J**	mg/L	0.021	0.003	1	05/11/22 10:26	05/10/22	
Iron	200.7	ND U	mg/L	0.021	0.008	1	05/11/22 10:26	05/10/22	
Magnesium	200.7	**0.0022 J**	mg/L	0.0053	0.0004	1	05/11/22 10:26	05/10/22	

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QA/QC Report

Client:	SGS North America - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22
Sample Matrix:	Water	**Date Received:**	05/06/22
		Date Analyzed:	05/11/22
		Date Extracted:	05/10/22

Matrix Spike Summary
Total Metals

Sample Name:	RM 0- No Name Creek	**Units:**	mg/L
Lab Code:	K2204916-001	**Basis:**	NA
Analysis Method:	200.7		
Prep Method:	EPA CLP ILM04.0		

Matrix Spike
KQ2207355-03

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Calcium	3.36	13.1	10.0	98	70-130
Iron	3.00	3.94	1.00	94	70-130
Magnesium	1.05	11.4	10.0	104	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 - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22
Sample Matrix:	Water	**Date Received:**	05/06/22
		Date Analyzed:	05/11/22
		Date Extracted:	05/10/22

Matrix Spike Summary
Total Metals

Sample Name:	Rm1.5-Kenai City Dock-DUP	**Units:**	mg/L
Lab Code:	K2204916-002	**Basis:**	NA
Analysis Method:	200.7		
Prep Method:	EPA CLP ILM04.0		

Matrix Spike
KQ2207355-05

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Calcium	223	234	10.0	109 #	70-130
Iron	6.07	7.06	1.00	99 #	70-130
Magnesium	721	721	10.0	0 #	70-130

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

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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 - AK (SGS Environmental)	**Service Request:**	K2204916
Project:	1221998	**Date Collected:**	05/03/22
Sample Matrix:	Water	**Date Received:**	05/06/22
		Date Analyzed:	05/11/22
		Date Extracted:	05/10/22

Matrix Spike Summary
Total Metals

Sample Name:	RM70-Jim's Landing	**Units:**	mg/L
Lab Code:	K2204916-021	**Basis:**	NA
Analysis Method:	200.7		
Prep Method:	EPA CLP ILM04.0		

Matrix Spike
KQ2207371-03

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Calcium	16.7	26.9	10.0	102	70-130
Iron	0.058	1.14	1.00	108	70-130
Magnesium	1.24	11.8	10.0	106	70-130

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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 - AK (SGS Environmental)	**Service Request:**	K2204916
Project	1221998	**Date Collected:**	05/03/22
Sample Matrix:	Water	**Date Received:**	05/06/22
		Date Analyzed:	05/11/22

Replicate Sample Summary
Total Metals

Sample Name:	RM 0- No Name Creek	**Units:**	mg/L
Lab Code:	K2204916-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample KQ2207355-04 Result	Average	RPD	RPD Limit
Calcium	200.7	0.021	0.003	3.36	3.30	3.33	2	20
Iron	200.7	0.021	0.008	3.00	2.98	2.99	<1	20
Magnesium	200.7	0.0053	0.0004	1.05	1.03	1.04	2	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 - AK (SGS Environmental)	**Service Request:**	K2204916
Project	1221998	**Date Collected:**	05/03/22
Sample Matrix:	Water	**Date Received:**	05/06/22
		Date Analyzed:	05/11/22

Replicate Sample Summary
Total Metals

Sample Name:	Rm1.5-Kenai City Dock-DUP	**Units:**	mg/L
Lab Code:	K2204916-002	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample KQ2207355-06 Result	Average	RPD	RPD Limit
Calcium	200.7	0.021	0.003	223	224	224	<1	20
Iron	200.7	0.021	0.008	6.07	6.08	6.08	<1	20
Magnesium	200.7	0.53	0.04	721	712	717	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 - AK (SGS Environmental)	**Service Request:**	K2204916
Project	1221998	**Date Collected:**	05/03/22
Sample Matrix:	Water	**Date Received:**	05/06/22
		Date Analyzed:	05/11/22

Replicate Sample Summary
Total Metals

Sample Name:	RM70-Jim's Landing	**Units:**	mg/L
Lab Code:	K2204916-021	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample KQ2207371-04 Result	Average	RPD	RPD Limit
Calcium	200.7	0.021	0.003	16.7	16.3	16.5	2	20
Iron	200.7	0.021	0.008	0.058	0.055	0.057	5	20
Magnesium	200.7	0.0053	0.0004	1.24	1.22	1.23	2	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.

Client: SGS North America - AK (SGS Environmental)
Project: 1221998
Sample Matrix: Water

Service Request: K2204916
Date Analyzed: 05/11/22

Lab Control Sample Summary
Total Metals

Units:mg/L
Basis:NA

Lab Control Sample
KQ2207355-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Calcium	200.7	12.9	12.5	103	85-115
Iron	200.7	2.66	2.50	106	85-115
Magnesium	200.7	13.2	12.5	106	85-115

Client: SGS North America - AK (SGS Environmental)
Project: 1221998
Sample Matrix: Water

Service Request: K2204916
Date Analyzed: 05/11/22

Lab Control Sample Summary
Total Metals

Units:mg/L
Basis:NA

Lab Control Sample
KQ2207371-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Calcium	200.7	12.7	12.5	102	85-115
Iron	200.7	2.62	2.50	105	85-115
Magnesium	200.7	13.1	12.5	105	85-115