Laboratory Report of Analysis

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

Report Number: **1212341**

Client Project: **Kenai River Water Quality**

Dear Branden Bornemann,

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

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

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

Sincerely,
SGS North America Inc.

Alexandra Daniel
2021.06.11 16:46:02 -08'00'

Alexandra Daniel Date
Project Manager
Alexandra.Daniel@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: **1212341**
Project Name/Site: **Kenai River Water Quality**
Project Contact: **Branden Bornemann**

Refer to sample receipt form for information on sample condition.

RM22-Soldotna Creek (1212341026) PS

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

1212275001MS (1610220) MS

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

1212334001MS (1610222) MS

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

1212341018MS (1610224) MS

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

1212275001MSD (1610221) MSD

4500NO3-F - Nitrate/Nitrite - MSD recovery for Total Nitrate/Nitrite is outside of QC criteria. Refer to LCS for accuracy requirements.

1212334001MSD (1610223) MSD

4500NO3-F - Nitrate/Nitrite - MSD recovery for Total Nitrate/Nitrite is outside of QC criteria. Refer to LCS for accuracy requirements.

1212341018MSD (1610225) MSD

4500NO3-F - Nitrate/Nitrite - MSD recovery for Total Nitrate/Nitrite is outside of QC criteria. Refer to LCS for accuracy requirements.

*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 (Provisionally Certified as of 05/27/2021 for Mercury by EPA200.8, Nitrate as N by SM 4500NO3-F and VOCs by EPA 524.2) & 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

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

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

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

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
RM70- Jim's Landing	1212341001	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM74-Russian River	1212341002	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM79.5-Juneau Creek	1212341003	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM82-Kenai Lake Bridge	1212341004	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM22-Soldotna Creek	1212341005	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM23-Swiftwater	1212341006	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM31-Morgan's Landing	1212341007	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM30-Funny River	1212341008	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM31-Morgan's Landing DUP	1212341009	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM36-Moose River	1212341010	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM40-Bing's Landing	1212341011	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM43-Upstream of Dow Island	1212341012	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM44-Mouth of Killey River	1212341013	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM50-Skilak Lake Outflow	1212341014	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM0-No Name Creek	1212341015	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM0-No Name Creek DUP	1212341016	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM1.5-Kenai City Dock	1212341017	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM6.5-Cunning Hem	1212341018	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM10-Beaver Creek	1212341019	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM10.1-Kenai River	1212341020	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM12.5-Pillars	1212341021	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM18-Poachers Cove	1212341022	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM19-Slikok Creek	1212341023	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM21-Soldotna Bridge	1212341024	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM22-Soldotna Creek Diss	1212341025	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM22-Soldotna Creek	1212341026	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM23-Swiftwater Park Diss	1212341027	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM23-Swiftwater Park	1212341028	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM30-Funny River Diss	1212341029	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM30-Funny River	1212341030	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM31-Morgan's Landing Diss	1212341031	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM31-Morgan's Landing	1212341032	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM36-Moose River Diss	1212341033	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM40-Bing's Landing Diss	1212341034	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM43-Upstream of Dow Island	1212341035	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM44-Mouth of Killey River Dis	1212341036	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM50-Skilak Lake Outlet Diss	1212341037	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM70-Jim's Landing Diss	1212341038	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM74-Russian River Diss	1212341039	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
RM82-Kenai Lake Bridge Diss	1212341040	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM79.5 Juneau Creek Diss	1212341041	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
Rm10.1-Kenai River Diss	1212341042	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM10.1-Kenai River	1212341043	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM12.5-Pillar Diss	1212341044	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM12.5-Pillars	1212341045	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM18-Poachers Cove Diss	1212341046	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM18-Poachers Cove	1212341047	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM19-Slikok Creek Diss	1212341048	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM19-Slikok Creek	1212341049	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM21-Soldotna Bridge Diss	1212341050	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM21-Soldotna Bridge	1212341051	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM0-No Name Creek Dup	1212341052	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM0-No Name Creek DUP Diss	1212341053	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM0-No Name Creek	1212341054	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM0-No Name Creek Diss	1212341055	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM1.5-Kenai City Dock Diss	1212341056	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM1.5-Kenai City Dock	1212341057	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM6.5-Cunningham Park Diss	1212341058	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM6.5-Cunningham Park	1212341059	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM10-Beaver creek Diss	1212341060	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)
RM10-Beaver Creek	1212341061	05/11/2021	05/12/2021	Water (Surface, Eff., Ground)

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: **RM70- Jim's Landing**
Lab Sample ID: 1212341001
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.745	mg/L

Client Sample ID: **RM74-Russian River**
Lab Sample ID: 1212341002
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	1.12	mg/L

Client Sample ID: **RM79.5-Juneau Creek**
Lab Sample ID: 1212341003
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.869	mg/L
Total Phosphorus	0.0212J	mg/L

Client Sample ID: **RM82-Kenai Lake Bridge**
Lab Sample ID: 1212341004
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.454	mg/L

Client Sample ID: **RM22-Soldotna Creek**
Lab Sample ID: 1212341005
Waters Department

Parameter	Result	Units
Total Phosphorus	0.0804	mg/L

Client Sample ID: **RM23-Swiftwater**
Lab Sample ID: 1212341006
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.239	mg/L
Total Phosphorus	0.0163J	mg/L

Client Sample ID: **RM31-Morgan's Landing**
Lab Sample ID: 1212341007
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.250	mg/L
Total Phosphorus	0.0392J	mg/L

Client Sample ID: **RM30-Funny River**
Lab Sample ID: 1212341008
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.0746J	mg/L
Total Phosphorus	0.0396J	mg/L

Client Sample ID: **RM31-Morgan's Landing DUP**
Lab Sample ID: 1212341009
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.226	mg/L
Total Phosphorus	0.0174J	mg/L

Client Sample ID: **RM36-Moose River**
Lab Sample ID: 1212341010
Waters Department

Parameter	Result	Units
Total Phosphorus	0.0391J	mg/L

Client Sample ID: **RM40-Bing's Landing**
Lab Sample ID: 1212341011
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.330	mg/L

Client Sample ID: **RM43-Upstream of Dow Island**
Lab Sample ID: 1212341012
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.360	mg/L
Total Phosphorus	0.0228J	mg/L

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Detectable Results Summary

Client Sample ID: **RM44-Mouth of Killey River**
Lab Sample ID: 1212341013
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.603	mg/L
Total Phosphorus	0.0151J	mg/L

Client Sample ID: **RM50-Skilak Lake Outflow**
Lab Sample ID: 1212341014
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.199J	mg/L

Client Sample ID: **RM0-No Name Creek**
Lab Sample ID: 1212341015
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.119J	mg/L
Total Phosphorus	0.0416	mg/L

Client Sample ID: **RM0-No Name Creek DUP**
Lab Sample ID: 1212341016
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.122J	mg/L
Total Phosphorus	0.0394J	mg/L

Client Sample ID: **RM1.5-Kenai City Dock**
Lab Sample ID: 1212341017
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.198J	mg/L
Total Phosphorus	0.242	mg/L

Client Sample ID: **RM6.5-Cunning Hem**
Lab Sample ID: 1212341018
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.225	mg/L
Total Phosphorus	0.189	mg/L

Client Sample ID: **RM10-Beaver Creek**
Lab Sample ID: 1212341019
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.109J	mg/L
Total Phosphorus	0.0843	mg/L

Client Sample ID: **RM10.1-Kenai River**
Lab Sample ID: 1212341020
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.228	mg/L
Total Phosphorus	0.0141J	mg/L

Client Sample ID: **RM12.5-Pillars**
Lab Sample ID: 1212341021
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.259	mg/L
Total Phosphorus	0.0195J	mg/L

Client Sample ID: **RM18-Poachers Cove**
Lab Sample ID: 1212341022
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.319	mg/L
Total Phosphorus	0.0178J	mg/L

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Detectable Results Summary

Client Sample ID: **RM19-Slikok Creek**
Lab Sample ID: 1212341023
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.0930J	mg/L
Total Phosphorus	0.0286J	mg/L

Client Sample ID: **RM21-Soldotna Bridge**
Lab Sample ID: 1212341024
Waters Department

Parameter	Result	Units
Total Nitrate/Nitrite-N	0.328	mg/L
Total Phosphorus	0.0472	mg/L

Client Sample ID: **RM22-Soldotna Creek Diss**
Lab Sample ID: 1212341025
Dissolved Metals by ICP/MS

Parameter	Result	Units
Arsenic	4.86J	ug/L

Client Sample ID: **RM23-Swiftwater Park Diss**
Lab Sample ID: 1212341027
Dissolved Metals by ICP/MS

Parameter	Result	Units
Copper	0.398J	ug/L
Lead	0.128J	ug/L

Client Sample ID: **RM31-Morgan's Landing Diss**
Lab Sample ID: 1212341031
Dissolved Metals by ICP/MS

Parameter	Result	Units
Arsenic	2.70J	ug/L
Copper	0.455J	ug/L
Lead	0.114J	ug/L

Client Sample ID: **RM36-Moose River Diss**
Lab Sample ID: 1212341033
Dissolved Metals by ICP/MS

Parameter	Result	Units
Arsenic	4.88J	ug/L
Copper	0.368J	ug/L
Lead	0.0735J	ug/L

Client Sample ID: **RM40-Bing's Landing Diss**
Lab Sample ID: 1212341034
Dissolved Metals by ICP/MS

Parameter	Result	Units
Copper	0.545J	ug/L
Lead	0.127J	ug/L

Client Sample ID: **RM43-Upstream of Dow Island**
Lab Sample ID: 1212341035
Dissolved Metals by ICP/MS

Parameter	Result	Units
Copper	0.959J	ug/L
Lead	0.187J	ug/L

Client Sample ID: **RM44-Mouth of Killey River Dis**
Lab Sample ID: 1212341036
Dissolved Metals by ICP/MS

Parameter	Result	Units
Copper	0.710J	ug/L
Lead	0.0830J	ug/L

Client Sample ID: **RM70-Jim's Landing Diss**
Lab Sample ID: 1212341038
Dissolved Metals by ICP/MS

Parameter	Result	Units
Copper	0.348J	ug/L
Lead	0.0763J	ug/L

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Detectable Results Summary

Client Sample ID: **RM82-Kenai Lake Bridge Diss**
Lab Sample ID: 1212341040
Dissolved Metals by ICP/MS

Parameter	Result	Units
Copper	0.603J	ug/L
Lead	0.156J	ug/L
Zinc	4.36J	ug/L

Client Sample ID: **RM79.5 Juneau Creek Diss**
Lab Sample ID: 1212341041
Dissolved Metals by ICP/MS

Parameter	Result	Units
Copper	0.679J	ug/L
Lead	0.228	ug/L
Zinc	3.12J	ug/L

Client Sample ID: **RM21-Soldotna Bridge Diss**
Lab Sample ID: 1212341050
Dissolved Metals by ICP/MS

Parameter	Result	Units
Copper	0.599J	ug/L

Client Sample ID: **RM1.5-Kenai City Dock Diss**
Lab Sample ID: 1212341056
Dissolved Metals by ICP/MS

Parameter	Result	Units
Arsenic	1.79J	ug/L
Copper	1.72	ug/L

Client Sample ID: **RM10-Beaver creek Diss**
Lab Sample ID: 1212341060
Dissolved Metals by ICP/MS

Parameter	Result	Units
Arsenic	2.62J	ug/L

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

Client Sample ID: **RM70- Jim's Landing**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341001
Lab Project ID: 1212341

Collection Date: 05/11/21 10:25
Received Date: 05/12/21 08:16
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	0.745		0.200	0.0500	mg/L	2		05/15/21 13:09

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:09
Container ID: 1212341001-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		05/18/21 18:47

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 18:47
Container ID: 1212341001-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
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 Water Quality**
Lab Sample ID: 1212341002
Lab Project ID: 1212341

Collection Date: 05/11/21 09:34
Received Date: 05/12/21 08:16
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	1.12		0.200	0.0500	mg/L	2		05/15/21 13:11

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:11
Container ID: 1212341002-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		05/18/21 18:48

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 18:48
Container ID: 1212341002-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
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 Water Quality**
Lab Sample ID: 1212341003
Lab Project ID: 1212341

Collection Date: 05/11/21 08:36
Received Date: 05/12/21 08:16
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	0.869		0.200	0.0500	mg/L	2		05/15/21 13:13

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:13
Container ID: 1212341003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0212	J	0.0400	0.0120	mg/L	1		05/18/21 18:49

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 18:49
Container ID: 1212341003-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
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 Water Quality**
Lab Sample ID: 1212341004
Lab Project ID: 1212341

Collection Date: 05/11/21 07:56
Received Date: 05/12/21 08:16
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	0.454		0.200	0.0500	mg/L	2		05/15/21 13:14

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:14
Container ID: 1212341004-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		05/18/21 18:50

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 18:50
Container ID: 1212341004-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
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 Water Quality**
Lab Sample ID: 1212341005
Lab Project ID: 1212341

Collection Date: 05/11/21 11:34
Received Date: 05/12/21 08:16
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		05/15/21 13:16

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:16
Container ID: 1212341005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0804		0.0400	0.0120	mg/L	1		05/18/21 18:51

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 18:51
Container ID: 1212341005-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM23-Swiftwater**

Client Sample ID: **RM23-Swiftwater**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341006
Lab Project ID: 1212341

Collection Date: 05/11/21 11:06
Received Date: 05/12/21 08:16
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	0.239		0.200	0.0500	mg/L	2		05/15/21 13:18

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:18
Container ID: 1212341006-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0163 J		0.0400	0.0120	mg/L	1		05/18/21 18:52

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 18:52
Container ID: 1212341006-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
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 Water Quality**
Lab Sample ID: 1212341007
Lab Project ID: 1212341

Collection Date: 05/11/21 10:13
Received Date: 05/12/21 08:16
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	0.250		0.200	0.0500	mg/L	2		05/15/21 13:20

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:20
Container ID: 1212341007-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0392	J	0.0400	0.0120	mg/L	1		05/18/21 18:53

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 18:53
Container ID: 1212341007-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
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 Water Quality**
Lab Sample ID: 1212341008
Lab Project ID: 1212341

Collection Date: 05/11/21 09:06
Received Date: 05/12/21 08:16
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	0.0746	J	0.200	0.0500	mg/L	2		05/15/21 13:27

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:27
Container ID: 1212341008-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0396	J	0.0400	0.0120	mg/L	1		05/18/21 18:56

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 18:56
Container ID: 1212341008-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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

Client Sample ID: **RM31-Morgan's Landing DUP**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341009
Lab Project ID: 1212341

Collection Date: 05/11/21 10:13
Received Date: 05/12/21 08:16
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	0.226		0.200	0.0500	mg/L	2		05/15/21 13:28

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:28
Container ID: 1212341009-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0174	J	0.0400	0.0120	mg/L	1		05/18/21 18:57

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 18:57
Container ID: 1212341009-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 06/11/2021 4:33:56PM

J flagging is activated

Results of **RM36-Moose River**

Client Sample ID: **RM36-Moose River**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341010
Lab Project ID: 1212341

Collection Date: 05/11/21 10:50
Received Date: 05/12/21 08:16
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		05/15/21 13:30

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:30
Container ID: 1212341010-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0391	J	0.0400	0.0120	mg/L	1		05/18/21 18:57

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 18:57
Container ID: 1212341010-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
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 Water Quality**
Lab Sample ID: 1212341011
Lab Project ID: 1212341

Collection Date: 05/11/21 09:50
Received Date: 05/12/21 08:16
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	0.330		0.200	0.0500	mg/L	2		05/15/21 13:32

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:32
Container ID: 1212341011-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		05/18/21 18:58

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 18:58
Container ID: 1212341011-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 06/11/2021 4:33:56PM

J flagging is activated

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

Client Sample ID: **RM43-Upstream of Dow Island**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341012
Lab Project ID: 1212341

Collection Date: 05/11/21 09:34
Received Date: 05/12/21 08:16
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	0.360		0.200	0.0500	mg/L	2		05/15/21 13:34

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:34
Container ID: 1212341012-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0228	J	0.0400	0.0120	mg/L	1		05/18/21 18:59

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 18:59
Container ID: 1212341012-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 06/11/2021 4:33:56PM

J flagging is activated

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

Client Sample ID: **RM44-Mouth of Killey River**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341013
Lab Project ID: 1212341

Collection Date: 05/11/21 08:57
Received Date: 05/12/21 08:16
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	0.603		0.200	0.0500	mg/L	2		05/15/21 13:35

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:35
Container ID: 1212341013-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0151 J		0.0400	0.0120	mg/L	1		05/18/21 19:00

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 19:00
Container ID: 1212341013-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
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 Water Quality**
Lab Sample ID: 1212341014
Lab Project ID: 1212341

Collection Date: 05/11/21 07:21
Received Date: 05/12/21 08:16
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	0.199	J	0.200	0.0500	mg/L	2		05/15/21 13:37

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:37
Container ID: 1212341014-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		05/18/21 19:04

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 19:04
Container ID: 1212341014-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
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 Water Quality**
Lab Sample ID: 1212341015
Lab Project ID: 1212341

Collection Date: 05/11/21 10:10
Received Date: 05/12/21 08:16
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		05/15/21 13:39

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:39
Container ID: 1212341015-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0416		0.0400	0.0120	mg/L	1		05/18/21 19:09

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 19:09
Container ID: 1212341015-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 06/11/2021 4:33:56PM

J flagging is activated

Results of **RM0-No Name Creek DUP**

Client Sample ID: **RM0-No Name Creek DUP**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341016
Lab Project ID: 1212341

Collection Date: 05/11/21 10:18
Received Date: 05/12/21 08:16
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	0.122	J	0.200	0.0500	mg/L	2		05/15/21 13:41

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:41
Container ID: 1212341016-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0394	J	0.0400	0.0120	mg/L	1		05/18/21 19:10

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 19:10
Container ID: 1212341016-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
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 Water Quality**
Lab Sample ID: 1212341017
Lab Project ID: 1212341

Collection Date: 05/11/21 09:29
Received Date: 05/12/21 08:16
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	0.198	J	0.200	0.0500	mg/L	2		05/15/21 13:42

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:42
Container ID: 1212341017-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.242		0.0400	0.0120	mg/L	1		05/18/21 19:11

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 19:11
Container ID: 1212341017-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM6.5-Cunning Hem**

Client Sample ID: **RM6.5-Cunning Hem**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341018
Lab Project ID: 1212341

Collection Date: 05/11/21 09:15
Received Date: 05/12/21 08:16
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	0.225		0.200	0.0500	mg/L	2		05/15/21 13:49

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:49
Container ID: 1212341018-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.189		0.0400	0.0120	mg/L	1		05/18/21 19:12

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 19:12
Container ID: 1212341018-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM10-Beaver Creek**

Client Sample ID: **RM10-Beaver Creek**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341019
Lab Project ID: 1212341

Collection Date: 05/11/21 10:05
Received Date: 05/12/21 08:16
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	0.109	J	0.200	0.0500	mg/L	2		05/15/21 13:55

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:55
Container ID: 1212341019-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0843		0.0400	0.0120	mg/L	1		05/18/21 19:13

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 19:13
Container ID: 1212341019-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
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 Water Quality**
Lab Sample ID: 1212341020
Lab Project ID: 1212341

Collection Date: 05/11/21 10:30
Received Date: 05/12/21 08:16
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	0.228		0.200	0.0500	mg/L	2		05/15/21 13:56

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:56
Container ID: 1212341020-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0141	J	0.0400	0.0120	mg/L	1		05/18/21 19:14

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 19:14
Container ID: 1212341020-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
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 Water Quality**
Lab Sample ID: 1212341021
Lab Project ID: 1212341

Collection Date: 05/11/21 10:50
Received Date: 05/12/21 08:16
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	0.259		0.200	0.0500	mg/L	2		05/15/21 13:58

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 13:58
Container ID: 1212341021-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0195	J	0.0400	0.0120	mg/L	1		05/18/21 19:15

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 19:15
Container ID: 1212341021-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM18-Poachers Cove**

Client Sample ID: **RM18-Poachers Cove**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341022
Lab Project ID: 1212341

Collection Date: 05/11/21 11:25
Received Date: 05/12/21 08:16
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	0.319		0.200	0.0500	mg/L	2		05/15/21 14:00

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 14:00
Container ID: 1212341022-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0178	J	0.0400	0.0120	mg/L	1		05/18/21 19:15

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 19:15
Container ID: 1212341022-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
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 Water Quality**
Lab Sample ID: 1212341023
Lab Project ID: 1212341

Collection Date: 05/11/21 12:05
Received Date: 05/12/21 08:16
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	0.0930	J	0.200	0.0500	mg/L	2		05/15/21 14:02

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 14:02
Container ID: 1212341023-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0286	J	0.0400	0.0120	mg/L	1		05/18/21 19:18

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 19:18
Container ID: 1212341023-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 06/11/2021 4:33:56PM

J flagging is activated

Results of **RM21-Soldotna Bridge**

Client Sample ID: **RM21-Soldotna Bridge**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341024
Lab Project ID: 1212341

Collection Date: 05/11/21 12:05
Received Date: 05/12/21 08:16
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	0.328		0.200	0.0500	mg/L	2		05/15/21 14:03

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 05/15/21 14:03
Container ID: 1212341024-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0472		0.0400	0.0120	mg/L	1		05/18/21 19:19

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/18/21 19:19
Container ID: 1212341024-A

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/18/21 14:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **RM22-Soldotna Creek Diss**

Client Sample ID: **RM22-Soldotna Creek Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341025
Lab Project ID: 1212341

Collection Date: 05/11/21 11:33
Received Date: 05/12/21 08:16
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	4.86	J	5.00	1.50	ug/L	1		05/21/21 07:21
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 07:21
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 07:21
Copper	0.500	U	1.00	0.310	ug/L	1		05/21/21 07:21
Lead	0.100	U	0.200	0.0700	ug/L	1		05/21/21 07:21
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 07:21

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 07:21
Container ID: 1212341025-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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Results of **RM23-Swiftwater Park Diss**

Client Sample ID: **RM23-Swiftwater Park Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341027
Lab Project ID: 1212341

Collection Date: 05/11/21 11:05
Received Date: 05/12/21 08:16
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		05/21/21 07:33
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 07:33
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 07:33
Copper	0.398	J	1.00	0.310	ug/L	1		05/21/21 07:33
Lead	0.128	J	0.200	0.0700	ug/L	1		05/21/21 07:33
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 07:33

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 07:33
Container ID: 1212341027-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Results of **RM30-Funny River Diss**

Client Sample ID: **RM30-Funny River Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341029
Lab Project ID: 1212341

Collection Date: 05/11/21 09:06
Received Date: 05/12/21 08:16
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		05/21/21 07:36
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 07:36
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 07:36
Copper	0.500	U	1.00	0.310	ug/L	1		05/21/21 07:36
Lead	0.100	U	0.200	0.0700	ug/L	1		05/21/21 07:36
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 07:36

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 07:36
Container ID: 1212341029-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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

Client Sample ID: **RM31-Morgan's Landing Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341031
Lab Project ID: 1212341

Collection Date: 05/11/21 10:13
Received Date: 05/12/21 08:16
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	2.70	J	5.00	1.50	ug/L	1		05/21/21 07:39
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 07:39
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 07:39
Copper	0.455	J	1.00	0.310	ug/L	1		05/21/21 07:39
Lead	0.114	J	0.200	0.0700	ug/L	1		05/21/21 07:39
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 07:39

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 07:39
Container ID: 1212341031-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Results of **RM36-Moose River Diss**

Client Sample ID: **RM36-Moose River Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341033
Lab Project ID: 1212341

Collection Date: 05/11/21 10:50
Received Date: 05/12/21 08:16
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	4.88	J	5.00	1.50	ug/L	1		05/21/21 08:57
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 08:57
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 08:57
Copper	0.368	J	1.00	0.310	ug/L	1		05/21/21 08:57
Lead	0.0735	J	0.200	0.0700	ug/L	1		05/21/21 08:57
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 08:57

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 08:57
Container ID: 1212341033-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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

Client Sample ID: **RM40-Bing's Landing Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341034
Lab Project ID: 1212341

Collection Date: 05/11/21 09:58
Received Date: 05/12/21 08:16
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		05/21/21 09:00
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 09:00
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 09:00
Copper	0.545	J	1.00	0.310	ug/L	1		05/21/21 09:00
Lead	0.127	J	0.200	0.0700	ug/L	1		05/21/21 09:00
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 09:00

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 09:00
Container ID: 1212341034-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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

Client Sample ID: **RM43-Upstream of Dow Island**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341035
Lab Project ID: 1212341

Collection Date: 05/11/21 09:34
Received Date: 05/12/21 08:16
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		05/21/21 09:03
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 09:03
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 09:03
Copper	0.959	J	1.00	0.310	ug/L	1		05/21/21 09:03
Lead	0.187	J	0.200	0.0700	ug/L	1		05/21/21 09:03
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 09:03

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 09:03
Container ID: 1212341035-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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

Client Sample ID: **RM44-Mouth of Killey River Dis**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341036
Lab Project ID: 1212341

Collection Date: 05/11/21 08:57
Received Date: 05/12/21 08:16
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		05/21/21 09:06
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 09:06
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 09:06
Copper	0.710	J	1.00	0.310	ug/L	1		05/21/21 09:06
Lead	0.0830	J	0.200	0.0700	ug/L	1		05/21/21 09:06
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 09:06

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 09:06
Container ID: 1212341036-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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Results of **RM50-Skilak Lake Outlet Diss**

Client Sample ID: **RM50-Skilak Lake Outlet Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341037
Lab Project ID: 1212341

Collection Date: 05/11/21 07:22
Received Date: 05/12/21 08:16
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		05/21/21 09:09
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 09:09
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 09:09
Copper	0.500	U	1.00	0.310	ug/L	1		05/21/21 09:09
Lead	0.100	U	0.200	0.0700	ug/L	1		05/21/21 09:09
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 09:09

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 09:09
Container ID: 1212341037-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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

Client Sample ID: **RM70-Jim's Landing Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341038
Lab Project ID: 1212341

Collection Date: 05/11/21 10:25
Received Date: 05/12/21 08:16
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		05/21/21 09:13
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 09:13
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 09:13
Copper	0.348	J	1.00	0.310	ug/L	1		05/21/21 09:13
Lead	0.0763	J	0.200	0.0700	ug/L	1		05/21/21 09:13
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 09:13

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 09:13
Container ID: 1212341038-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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Results of **RM74-Russian River Diss**

Client Sample ID: **RM74-Russian River Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341039
Lab Project ID: 1212341

Collection Date: 05/11/21 09:34
Received Date: 05/12/21 08:16
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		05/21/21 07:27
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 07:27
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 07:27
Copper	0.500	U	1.00	0.310	ug/L	1		05/21/21 07:27
Lead	0.100	U	0.200	0.0700	ug/L	1		05/21/21 07:27
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 07:27

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 07:27
Container ID: 1212341039-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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Results of **RM82-Kenai Lake Bridge Diss**

Client Sample ID: **RM82-Kenai Lake Bridge Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341040
Lab Project ID: 1212341

Collection Date: 05/11/21 07:56
Received Date: 05/12/21 08:16
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		05/21/21 09:16
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 09:16
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 09:16
Copper	0.603	J	1.00	0.310	ug/L	1		05/21/21 09:16
Lead	0.156	J	0.200	0.0700	ug/L	1		05/21/21 09:16
Zinc	4.36	J	10.0	3.10	ug/L	1		05/21/21 09:16

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 09:16
Container ID: 1212341040-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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

Client Sample ID: **RM79.5 Juneau Creek Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341041
Lab Project ID: 1212341

Collection Date: 05/11/21 08:36
Received Date: 05/12/21 08:16
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		05/21/21 09:19
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 09:19
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 09:19
Copper	0.679	J	1.00	0.310	ug/L	1		05/21/21 09:19
Lead	0.228		0.200	0.0700	ug/L	1		05/21/21 09:19
Zinc	3.12	J	10.0	3.10	ug/L	1		05/21/21 09:19

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 09:19
Container ID: 1212341041-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Results of **Rm10.1-Kenai River Diss**

Client Sample ID: **Rm10.1-Kenai River Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341042
Lab Project ID: 1212341

Collection Date: 05/11/21 10:30
Received Date: 05/12/21 08:16
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		05/21/21 09:22
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 09:22
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 09:22
Copper	0.500	U	1.00	0.310	ug/L	1		05/21/21 09:22
Lead	0.100	U	0.200	0.0700	ug/L	1		05/21/21 09:22
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 09:22

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 09:22
Container ID: 1212341042-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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Results of **RM12.5-Pillar Diss**

Client Sample ID: **RM12.5-Pillar Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341044
Lab Project ID: 1212341

Collection Date: 05/11/21 10:50
Received Date: 05/12/21 08:16
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		05/21/21 09:25
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 09:25
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 09:25
Copper	0.500	U	1.00	0.310	ug/L	1		05/21/21 09:25
Lead	0.100	U	0.200	0.0700	ug/L	1		05/21/21 09:25
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 09:25

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 09:25
Container ID: 1212341044-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Results of **RM18-Poachers Cove Diss**

Client Sample ID: **RM18-Poachers Cove Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341046
Lab Project ID: 1212341

Collection Date: 05/11/21 11:25
Received Date: 05/12/21 08:16
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		05/21/21 09:34
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 09:34
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 09:34
Copper	0.500	U	1.00	0.310	ug/L	1		05/21/21 09:34
Lead	0.100	U	0.200	0.0700	ug/L	1		05/21/21 09:34
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 09:34

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 09:34
Container ID: 1212341046-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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Results of **RM19-Slikok Creek Diss**

Client Sample ID: **RM19-Slikok Creek Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341048
Lab Project ID: 1212341

Collection Date: 05/11/21 12:09
Received Date: 05/12/21 08:16
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		05/21/21 09:37
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 09:37
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 09:37
Copper	0.500	U	1.00	0.310	ug/L	1		05/21/21 09:37
Lead	0.100	U	0.200	0.0700	ug/L	1		05/21/21 09:37
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 09:37

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 09:37
Container ID: 1212341048-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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Results of **RM21-Soldotna Bridge Diss**

Client Sample ID: **RM21-Soldotna Bridge Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341050
Lab Project ID: 1212341

Collection Date: 05/11/21 10:02
Received Date: 05/12/21 08:16
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		05/21/21 09:40
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 09:40
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 09:40
Copper	0.599	J	1.00	0.310	ug/L	1		05/21/21 09:40
Lead	0.100	U	0.200	0.0700	ug/L	1		05/21/21 09:40
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 09:40

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 09:40
Container ID: 1212341050-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Results of **RM0-No Name Creek DUP Diss**

Client Sample ID: **RM0-No Name Creek DUP Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341053
Lab Project ID: 1212341

Collection Date: 05/11/21 10:20
Received Date: 05/12/21 08:16
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		05/21/21 09:43
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 09:43
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 09:43
Copper	0.500	U	1.00	0.310	ug/L	1		05/21/21 09:43
Lead	0.100	U	0.200	0.0700	ug/L	1		05/21/21 09:43
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 09:43

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 09:43
Container ID: 1212341053-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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Results of **RM0-No Name Creek Diss**

Client Sample ID: **RM0-No Name Creek Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341055
Lab Project ID: 1212341

Collection Date: 05/11/21 10:11
Received Date: 05/12/21 08:16
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		05/21/21 09:46
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 09:46
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 09:46
Copper	0.500	U	1.00	0.310	ug/L	1		05/21/21 09:46
Lead	0.100	U	0.200	0.0700	ug/L	1		05/21/21 09:46
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 09:46

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: DMM
Analytical Date/Time: 05/21/21 09:46
Container ID: 1212341055-A

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 05/14/21 09:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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

Client Sample ID: **RM1.5-Kenai City Dock Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341056
Lab Project ID: 1212341

Collection Date: 05/11/21 09:30
Received Date: 05/12/21 08:16
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	1.79	J	5.00	1.50	ug/L	1		05/21/21 11:26
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 11:26
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 11:26
Copper	1.72		1.00	0.310	ug/L	1		05/21/21 11:26
Lead	0.100	U	0.200	0.0700	ug/L	1		05/21/21 11:26
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 11:26

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: ACF
Analytical Date/Time: 05/21/21 11:26
Container ID: 1212341056-A

Prep Batch: MXX34174
Prep Method: E200.2
Prep Date/Time: 05/14/21 10:30
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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

Client Sample ID: **RM6.5-Cunningham Park Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341058
Lab Project ID: 1212341

Collection Date: 05/11/21 09:15
Received Date: 05/12/21 08:16
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		05/21/21 11:35
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 11:35
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 11:35
Copper	0.500	U	1.00	0.310	ug/L	1		05/21/21 11:35
Lead	0.100	U	0.200	0.0700	ug/L	1		05/21/21 11:35
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 11:35

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: ACF
Analytical Date/Time: 05/21/21 11:35
Container ID: 1212341058-A

Prep Batch: MXX34174
Prep Method: E200.2
Prep Date/Time: 05/14/21 10:30
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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Results of **RM10-Beaver creek Diss**

Client Sample ID: **RM10-Beaver creek Diss**
Client Project ID: **Kenai River Water Quality**
Lab Sample ID: 1212341060
Lab Project ID: 1212341

Collection Date: 05/11/21 10:05
Received Date: 05/12/21 08:16
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	2.62	J	5.00	1.50	ug/L	1		05/21/21 11:38
Cadmium	0.250	U	0.500	0.150	ug/L	1		05/21/21 11:38
Chromium	2.50	U	5.00	2.50	ug/L	1		05/21/21 11:38
Copper	0.500	U	1.00	0.310	ug/L	1		05/21/21 11:38
Lead	0.100	U	0.200	0.0700	ug/L	1		05/21/21 11:38
Zinc	5.00	U	10.0	3.10	ug/L	1		05/21/21 11:38

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Analyst: ACF
Analytical Date/Time: 05/21/21 11:38
Container ID: 1212341060-A

Prep Batch: MXX34174
Prep Method: E200.2
Prep Date/Time: 05/14/21 10:30
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Method Blank

Blank ID: MB for HBN 1819376 [MXX/34173]
Blank Lab ID: 1610041

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1212341025, 1212341027, 1212341029, 1212341031, 1212341033, 1212341034, 1212341035, 1212341036, 1212341037, 1212341038, 1212341039, 1212341040, 1212341041, 1212341042, 1212341044, 1212341046, 1212341048, 1212341050, 1212341053, 1212341055

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	0.500U	1.00	0.310	ug/L
Lead	0.100U	0.200	0.0700	ug/L
Zinc	5.00U	10.0	3.10	ug/L

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Instrument: Perkin Elmer Nexlon P5
Analyst: DMM
Analytical Date/Time: 5/21/2021 7:12:17AM

Prep Batch: MXX34173
Prep Method: E200.2
Prep Date/Time: 5/14/2021 9:40:09AM
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1212341 [MXX34173]
Blank Spike Lab ID: 1610042
Date Analyzed: 05/21/2021 07:15

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1212341025, 1212341027, 1212341029, 1212341031, 1212341033, 1212341034, 1212341035, 1212341036, 1212341037, 1212341038, 1212341039, 1212341040, 1212341041, 1212341042, 1212341044, 1212341046, 1212341048, 1212341050, 1212341053, 1212341055

Results by **EP200.8**

Blank Spike (ug/L)

Parameter	Spike	Result	Rec (%)	CL
Arsenic	1000	1030	103	(85-115)
Cadmium	100	104	104	(85-115)
Chromium	400	417	104	(85-115)
Copper	1000	1070	107	(85-115)
Lead	1000	1050	105	(85-115)
Zinc	1000	1070	107	(85-115)

Batch Information

Analytical Batch: **MMS11107**
Analytical Method: **EP200.8**
Instrument: **Perkin Elmer Nexlon P5**
Analyst: **DMM**

Prep Batch: **MXX34173**
Prep Method: **E200.2**
Prep Date/Time: **05/14/2021 09:40**
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: 1212341025
MS Sample ID: 1610044 MS
MSD Sample ID:

Analysis Date: 05/21/2021 7:21
Analysis Date: 05/21/2021 7:24
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1212341025, 1212341027, 1212341029, 1212341031, 1212341033, 1212341034, 1212341035, 1212341036, 1212341037, 1212341038, 1212341039

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	4.86J	1000	1040	104				70-130		
Cadmium	0.250U	100	105	105				70-130		
Chromium	2.50U	400	411	103				70-130		
Copper	0.500U	1000	1070	107				70-130		
Lead	0.100U	1000	1040	104				70-130		
Zinc	5.00U	1000	1070	107				70-130		

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Instrument: Perkin Elmer NexIon P5
Analyst: DMM
Analytical Date/Time: 5/21/2021 7:24:25AM

Prep Batch: MXX34173
Prep Method: DW Digest for Metals on ICP-MS
Prep Date/Time: 5/14/2021 9:40:09AM
Prep Initial Wt./Vol.: 20.00mL
Prep Extract Vol: 50.00mL

Print Date: 06/11/2021 4:34:05PM

Matrix Spike Summary

Original Sample ID: 1212341040
MS Sample ID: 1610045 MS
MSD Sample ID:

Analysis Date: 05/21/2021 9:16
Analysis Date: 05/21/2021 7:30
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1212341027, 1212341029, 1212341031, 1212341033, 1212341034, 1212341035, 1212341036, 1212341037, 1212341038, 1212341039, 1212341040, 1212341041, 1212341042, 1212341044, 1212341046, 1212341048, 1212341050, 1212341053, 1212341055

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	1030	103				70-130		
Cadmium	0.250U	100	103	103				70-130		
Chromium	2.50U	400	400	100				70-130		
Copper	0.603J	1000	1050	105				70-130		
Lead	0.156J	1000	1050	105				70-130		
Zinc	4.36J	1000	1050	105				70-130		

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Instrument: Perkin Elmer NexIon P5
Analyst: DMM
Analytical Date/Time: 5/21/2021 7:30:28AM

Prep Batch: MXX34173
Prep Method: DW Digest for Metals on ICP-MS
Prep Date/Time: 5/14/2021 9:40:09AM
Prep Initial Wt./Vol.: 20.00mL
Prep Extract Vol: 50.00mL

Print Date: 06/11/2021 4:34:05PM

Method Blank

Blank ID: MB for HBN 1819377 [MXX/34174]
Blank Lab ID: 1610046

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1212341056, 1212341058, 1212341060

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	0.500U	1.00	0.310	ug/L
Lead	0.100U	0.200	0.0700	ug/L
Zinc	5.00U	10.0	3.10	ug/L

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Instrument: Perkin Elmer Nexlon P5
Analyst: ACF
Analytical Date/Time: 5/21/2021 10:58:59AM

Prep Batch: MXX34174
Prep Method: E200.2
Prep Date/Time: 5/14/2021 10:30:13AM
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1212341 [MXX34174]
Blank Spike Lab ID: 1610047
Date Analyzed: 05/21/2021 11:02

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1212341056, 1212341058, 1212341060

Results by **EP200.8**

Blank Spike (ug/L)

Parameter	Spike	Result	Rec (%)	CL
Arsenic	1000	1060	106	(85-115)
Cadmium	100	104	104	(85-115)
Chromium	400	410	103	(85-115)
Copper	1000	1100	110	(85-115)
Lead	1000	1070	107	(85-115)
Zinc	1000	1090	109	(85-115)

Batch Information

Analytical Batch: **MMS11107**
Analytical Method: **EP200.8**
Instrument: **Perkin Elmer Nexlon P5**
Analyst: **ACF**

Prep Batch: **MXX34174**
Prep Method: **E200.2**
Prep Date/Time: **05/14/2021 10:30**
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: 1610049
MS Sample ID: 1610050 MS
MSD Sample ID:

Analysis Date: 05/21/2021 11:08
Analysis Date: 05/21/2021 11:11
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1212341056, 1212341058, 1212341060

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	1030	103				70-130		
Cadmium	0.250U	100	104	104				70-130		
Chromium	2.50U	400	386	97				70-130		
Copper	0.500U	1000	1030	103				70-130		
Lead	0.100U	1000	1060	106				70-130		
Zinc	6.47J	1000	1040	103				70-130		

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Instrument: Perkin Elmer NexIon P5
Analyst: ACF
Analytical Date/Time: 5/21/2021 11:11:06AM

Prep Batch: MXX34174
Prep Method: DW Digest for Metals on ICP-MS
Prep Date/Time: 5/14/2021 10:30:13AM
Prep Initial Wt./Vol.: 20.00mL
Prep Extract Vol: 50.00mL

Print Date: 06/11/2021 4:34:11PM

Matrix Spike Summary

Original Sample ID: 1610051
MS Sample ID: 1610052 MS
MSD Sample ID:

Analysis Date: 05/21/2021 11:14
Analysis Date: 05/21/2021 11:17
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1212341056, 1212341058, 1212341060

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	1010	101				70-130		
Cadmium	0.250U	100	103	103				70-130		
Chromium	2.50U	400	388	97				70-130		
Copper	1.95	1000	1020	102				70-130		
Lead	0.137J	1000	1060	106				70-130		
Zinc	79.8	1000	1130	105				70-130		

Batch Information

Analytical Batch: MMS11107
Analytical Method: EP200.8
Instrument: Perkin Elmer NexIon P5
Analyst: ACF
Analytical Date/Time: 5/21/2021 11:17:10AM

Prep Batch: MXX34174
Prep Method: DW Digest for Metals on ICP-MS
Prep Date/Time: 5/14/2021 10:30:13AM
Prep Initial Wt./Vol.: 20.00mL
Prep Extract Vol: 50.00mL

Print Date: 06/11/2021 4:34:11PM

Method Blank

Blank ID: MB for HBN 1819451 (WFI/2930) Matrix: Water (Surface, Eff., Ground)
Blank Lab ID: 1610234

QC for Samples:
1212341001, 1212341002, 1212341003, 1212341004, 1212341005, 1212341006, 1212341007, 1212341008, 1212341009, 1212341010, 1212341011, 1212341012, 1212341013, 1212341014, 1212341015, 1212341016, 1212341017, 1212341018, 1212341019, 1212341020, 1212341021, 1212341022, 1212341023, 1212341024

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: WFI2930
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EBH
Analytical Date/Time: 5/15/2021 1:46:00PM

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Method Blank

Blank ID: MB for HBN 1819451 (WFI/2930)
Blank Lab ID: 1610240

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1212341001, 1212341002, 1212341003, 1212341004, 1212341005, 1212341006, 1212341007, 1212341008, 1212341009, 1212341010, 1212341011, 1212341012, 1212341013, 1212341014, 1212341015, 1212341016, 1212341017

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: WFI2930
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EBH
Analytical Date/Time: 5/15/2021 12:19:51PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1212341 [WFI2930]
Blank Spike Lab ID: 1610236
Date Analyzed: 05/15/2021 13:44

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1212341001, 1212341002, 1212341003, 1212341004, 1212341005, 1212341006, 1212341007, 1212341008, 1212341009, 1212341010, 1212341011, 1212341012, 1212341013, 1212341014, 1212341015, 1212341016, 1212341017, 1212341018, 1212341019, 1212341020, 1212341021,

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.67	107	(70-130)
Nitrite-N	2.5	2.49	100	(90-110)
Total Nitrate/Nitrite-N	5	5.16	103	(90-110)

Batch Information

Analytical Batch: **WFI2930**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **EBH**

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1212341 [WFI2930]
Blank Spike Lab ID: 1610242
Date Analyzed: 05/15/2021 12:18

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1212341001, 1212341002, 1212341003, 1212341004, 1212341005, 1212341006, 1212341007, 1212341008, 1212341009, 1212341010, 1212341011, 1212341012, 1212341013, 1212341014, 1212341015, 1212341016, 1212341017

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	2.48	99	(90-110)
Total Nitrate/Nitrite-N	5	5.11	102	(90-110)

Batch Information

Analytical Batch: **WFI2930**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **EBH**

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Matrix Spike Summary

Original Sample ID: 1212275001
MS Sample ID: 1610220 MS
MSD Sample ID: 1610221 MSD

Analysis Date: 05/15/2021 11:37
Analysis Date: 05/15/2021 11:39
Analysis Date: 05/15/2021 11:41
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	0.100U	5.00	5.64	113 *	5.00	5.61	112 *	90-110	0.63	(< 25)

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EBH
Analytical Date/Time: 5/15/2021 11:39:00AM

Print Date: 06/11/2021 4:34:18PM

Matrix Spike Summary

Original Sample ID: 1212334001
MS Sample ID: 1610222 MS
MSD Sample ID: 1610223 MSD

Analysis Date: 05/15/2021 13:04
Analysis Date: 05/15/2021 13:06
Analysis Date: 05/15/2021 13:07
Matrix: Drinking Water

QC for Samples: 1212341001, 1212341002, 1212341003, 1212341004, 1212341005, 1212341006, 1212341007, 1212341008, 1212341009, 1212341010, 1212341011, 1212341012, 1212341013, 1212341014, 1212341015, 1212341016, 1212341017, 1212341018

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	0.200	5.00	5.97	115 *	5.00	5.89	114 *	90-110	1.40	(< 25)

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EBH
Analytical Date/Time: 5/15/2021 1:06:00PM

Print Date: 06/11/2021 4:34:18PM

Matrix Spike Summary

Original Sample ID: 1212341018
MS Sample ID: 1610224 MS
MSD Sample ID: 1610225 MSD

Analysis Date: 05/15/2021 13:49
Analysis Date: 05/15/2021 13:51
Analysis Date: 05/15/2021 13:53
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1212341001, 1212341002, 1212341003, 1212341004, 1212341005, 1212341006, 1212341007, 1212341008, 1212341009, 1212341010, 1212341011, 1212341012, 1212341013, 1212341014, 1212341015, 1212341016, 1212341017, 1212341018, 1212341019, 1212341020, 1212341021,

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	0.225	5.00	6.14	118	*	5.00	5.87	113	*	90-110	4.40	(< 25)

Batch Information

Analytical Batch: WFI2930
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EBH
Analytical Date/Time: 5/15/2021 1:51:00PM

Print Date: 06/11/2021 4:34:18PM

Method Blank

Blank ID: MB for HBN 1819576 [WXX/13700]
Blank Lab ID: 1610767

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1212341001, 1212341002, 1212341003, 1212341004, 1212341005, 1212341006, 1212341007, 1212341008, 1212341009, 1212341010, 1212341011, 1212341012, 1212341013

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: WDA4979
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/18/2021 6:32:29PM

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 5/18/2021 2:53:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1819576 [WXX/13700]
Blank Lab ID: 1610772

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1212341001, 1212341002, 1212341003, 1212341004, 1212341005, 1212341006, 1212341007, 1212341008, 1212341009, 1212341010, 1212341011, 1212341012, 1212341013, 1212341014, 1212341015, 1212341016, 1212341017, 1212341018, 1212341019, 1212341020, 1212341021, 1212341022, 1212341023, 1212341024

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: WDA4979
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/18/2021 7:01:52PM

Prep Batch: WXX13700
Prep Method: SM21 4500P-B,E
Prep Date/Time: 5/18/2021 2:53:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1212341 [WXX13700]
Blank Spike Lab ID: 1610768
Date Analyzed: 05/18/2021 18:33

Spike Duplicate ID: LCSD for HBN 1212341 [WXX13700]
Spike Duplicate Lab ID: 1610769
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1212341001, 1212341002, 1212341003, 1212341004, 1212341005, 1212341006, 1212341007, 1212341008, 1212341009, 1212341010, 1212341011, 1212341012, 1212341013

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	0.192	96	0.2	0.190	95	(75-125)	1.30	(< 25)

Batch Information

Analytical Batch: **WDA4979**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13700**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **05/18/2021 14:53**
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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Blank Spike Summary

Blank Spike ID: LCS for HBN 1212341 [WXX13700]
Blank Spike Lab ID: 1610773
Date Analyzed: 05/18/2021 19:02

Spike Duplicate ID: LCSD for HBN 1212341 [WXX13700]
Spike Duplicate Lab ID: 1610774
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1212341001, 1212341002, 1212341003, 1212341004, 1212341005, 1212341006, 1212341007, 1212341008, 1212341009, 1212341010, 1212341011, 1212341012, 1212341013, 1212341014, 1212341015, 1212341016, 1212341017, 1212341018, 1212341019, 1212341020, 1212341021,

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	0.195	98	0.2	0.192	96	(75-125)	1.70	(< 25)

Batch Information

Analytical Batch: **WDA4979**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13700**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **05/18/2021 14:53**
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: 1212207001
MS Sample ID: 1610770 MS
MSD Sample ID: 1610771 MSD

Analysis Date: 05/18/2021 18:41
Analysis Date: 05/18/2021 18:44
Analysis Date: 05/18/2021 18:45
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1212341001, 1212341002, 1212341003, 1212341004, 1212341005, 1212341006, 1212341007, 1212341008, 1212341009, 1212341010, 1212341011, 1212341012, 1212341013, 1212341014

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	0.0339J	0.200	.232	99	0.200	0.248	107	75-125	6.90	(< 25)

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/18/2021 6:44:12PM

Prep Batch: WXX13700
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 5/18/2021 2:53:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 06/11/2021 4:34:23PM

Matrix Spike Summary

Original Sample ID: 1212341014
MS Sample ID: 1610775 MS
MSD Sample ID: 1610776 MSD

Analysis Date: 05/18/2021 19:04
Analysis Date: 05/18/2021 19:07
Analysis Date: 05/18/2021 19:08
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1212341001, 1212341002, 1212341003, 1212341004, 1212341005, 1212341006, 1212341007, 1212341008, 1212341009, 1212341010, 1212341011, 1212341012, 1212341013, 1212341014, 1212341015, 1212341016, 1212341017, 1212341018, 1212341019, 1212341020, 1212341021,

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	.198	99	0.200	0.202	101	75-125	2.40	(< 25)

Batch Information

Analytical Batch: WDA4979
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/18/2021 7:07:44PM

Prep Batch: WXX13700
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 5/18/2021 2:53:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 06/11/2021 4:34:23PM

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Instructions: Se... t.
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Page ____ of ____

Section 1

CLIENT: Kenai Watershed Forum

CONTACT: Benjamin Meyer **PHONE #:** 907-232-0290

PROJECT NAME: Kenai River water Quality **PROJECT/ PWSID/ PERMIT#:**

REPORTS TO: Benjamin Meyer **E-MAIL:** ben@kenaiwatershed.org

Profile #:

INVOICE TO: **QUOTE #:**

P.O. #:

Section 3 — Preservative: H2SO4

Analysis*: SM4500 Total Nitrate + Nitrite + Phosph

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

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	SM4500 Total Nitrate + Nitrite + Phosph									REMARKS/LOC ID
1A	RM70-Jim's Landing	5/11/21	10:25		1	Grab	1									
2A	RM74-Russian River	5/11/21	9:34		1	↓	1									
3A	RM79.5-Juneau Creek	5/11/21	8:36		1	↓	1									
4A	RM 82-Kenai Lake Bridge	5/11/21	7:56		1	↓	1									

Section 5

Relinquished By	Date	Time	Received By
Relinquished By: (1) [signature]	5/11/21	2:00 PM	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 5/12/21	Time 0816	Received For Laboratory By: [signature] MAA

Section 4 **DOD Project?** Yes No

Cooler ID:

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: Cooler temp: 1.4 D55

or Ambient [ ]

Chain of Custody Seal: (Circle)

IF

INTACT (circled) BROKEN ABSENT

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

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Page ____ of ____

Section 1

CLIENT: Kenai Watershed Forum

CONTACT: Benjamin Meyer **PHONE #:** 907-232-0290

PROJECT NAME: Kenai River Water Quality **PROJECT/ PWSID/ PERMIT#:**

REPORTS TO: Benjamin Meyer **E-MAIL:** ben@kenaiwatershed.org

Profile #:

INVOICE TO: **QUOTE #:**

P.O. #:

Section 3 Preservative

Analysis*: SM4500 Total Nitrate + Nitrite + Phosph (14 day)

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

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	SM4500 Total Nitrate + Nitrite + Phosph	REMARKS/LOC ID
5A	RM22-Soldotna Creek	5/11/21	11:34		1	grab	1	
6A	RM23-Swiftwater	5/11/21	11:06		↓	↓	1	
7A	RM 31- Morgans Landing	5/11/21	10:13		↓	↓	1	
8A	RM30-Funny River	↓	9:06		↓	↓	1	
9A	RM 31- Morgans Landing DUP	↓	10:13		↓	↓	1	
10A	RM 36-Moose River	↓	10:50		↓	↓	1	
11A	RM40-Bing's Landing	↓	9:50		↓	↓	1	
12A	RM 43-Upstream of Dow Island	↓	9:34		↓	↓	1	
13A	RM44-Mouth of Killey River	↓	8:57		↓	↓	1	
14A	RM50-Skilak Lake Outflow	↓	7:21		↓	↓	1	

Section 5

Relinquished By	Date	Time	Received By
Relinquished By: (1) [signature]	5/11/21	2:00	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	5/12/21	0816	Received For Laboratory By: [signature]

Section 4 DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID: ____

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: cooler temp: 1.4 D58

or Ambient [ ]

Chain of Custody Seal: (Circle) IF

(INTACT) BROKEN ABSENT

Delivery Method: Hand Delivery[ ] Commerical Delivery[X]

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Instructions: ... **Omissions m...** ...ut. ...s.

Section 1

CLIENT: Kenai Watershed Forum

CONTACT: Benjamin Meyer — PHONE #: 907-232-0290

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

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

INVOICE TO: — QUOTE #: — P.O. #:

Section 3

Preservative

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*: H2SO4 — SM4500 Total Nitrate + Nitrite + Phosph	REMARKS/LOC ID
15A	RM0 - No Name Creek	5/11/21	10:10		1	Grab	1	
16A	RM0 - No Name Creek - DUP	5/11/21	10:18				1	
17A	RM1.5 - Kenai City Dock	5/11/21	9:29				1	
18A	RM6.5 - Cunningham		9:15				1	
19A	RM10 - Beaver Creek		10:05				1	
20A	RM10.1 - Kenai River		10:30				1	
21A	RM12.5 - Pillars		10:50				1	
22A	RM18 - Poachers Cove		11:25				1	
23A	RM19 - Slikok Creek		12:05				1	
24A	RM21 - Soldotna Bridge	↓			↓	↓	1	

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

Section 5

	Date	Time	
Relinquished By: (1)	5/11/21	2:00	Received By:
Relinquished By: (2)			Received By:
Relinquished By: (3)			Received By:
Relinquished By: (4)	5/12/21	0816	Received For Laboratory By: MA

Section 4

DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID: _____

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: cooler temp: 1.2 1.4 0.5.5 or Ambient [ ]

Chain of Custody Seal: (Circle) IF INTACT BROKEN ABSENT

Delivery Method: Hand Delivery[ ] Commerical Delivery[ ]

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

Page 1 of 1

Section 1

CLIENT: Kenai Watershed Forum

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

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

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

INVOICE TO: — QUOTE #: — P.O. #:

Section 3

AD 05/12/21 — Preservative: ~~HCl~~ 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*									REMARKS/LOC ID
							SM4500 Nitrate+Nitrite Total Phosph	EPA 200.7 Ca, Mg, (Fe, Mn) AD	EPA 200.8 Dissolved Al, Cd, Cr, Cu, Pb, Zn							
25A	RM 22 - Soldotna Creek	5/11/21	11:33		1	Grab			1							
26A	↓	5/11/21	11:35		1	Grab, Filter		1								
27A	RM 23 - Swiftwater Park	5/11/21	11:05		1	Grab			1							
28A	↓		11:10		1	Grab, Filter		1								
29A	RM 30 - Funny River		9:06		1	Grab			1							
30A	↓		9:06		1	Grab, Filter		1								
31A	RM 31 - Morgan's Landing		10:13		1	Grab			1							
32A	↓		10:13		1	Grab, Filter		1								
33A	RM 36 - Moose River		10:50		1	Grab			1							
34A	RM 40 - Bings Landing	↓	9:58		1	Grab			1							

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

Section 5

	Date	Time	
Relinquished By: (1) BM	5/11/21	2:00	Received By:
Relinquished By: (2)			Received By:
Relinquished By: (3)			Received By:
Relinquished By: (4)	5/12/21	0816	Received For Laboratory By:

Section 4

DOD Project? Yes (No)

Data Deliverable Requirements: —

Cooler ID: _____

Requested Turnaround Time and/or Special Instructions:

Metals: 200.7 = total
200.8 = dissolved —
AD 05/12/21

Temp Blank °C: _____ or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery[ ] Commerical Delivery [ ]

SGS North America Inc.
CHAIN OF CUSTODY RECORD

www.us.sgs.com

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

Page ____ of ____

Section 1

CLIENT: Kenai Watershed Forum

CONTACT: Benjamin Meyer PHONE #: 907-232-0290

PROJECT NAME: Kenai River Water Quality

PROJECT/ PWSID/ PERMIT#:

REPORTS TO: Benjamin Meyer

E-MAIL: ben@kenaiwatershed.org

Profile #:

INVOICE TO:

QUOTE #:

P.O. #:

Section 3 — Preservative

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 AD: EPA 200.7 Ca, Mg, Fe	EPA 200.8 Cd, Cr, Cu, Pb, Zn	REMARKS/LOC ID
35A	RM 48 - upstream of Bow Island	5/11/21	9:34		1	grab		1	
36A	RM 44 - Mouth of Killey River	5/11/21	8:57		1	grab		1	
37A	RM 50 - Skilak Lake outlet	5/11/21	7:22		1	grab		1	
38A	RM 70 - Jim's Landing		10:35		1	grab		1	
39A	RM 74 - Russian River		9:34		1	grab		1	
40A	RM 82 - Kenai Lake Bridge		7:56		1	grab		1	
41A	RM 95 - Juneau Creek		8:36		1	grab		1	

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

Section 5

	Date	Time	Received By:
Relinquished By: (1)	5/11/21	2:00 PM	
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)			Received For Laboratory By:

Section 4 — DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID: _____

Requested Turnaround Time and/or Special Instructions:

* 200.7 = total
200.8 = dissolved SAD 05/12/21

Temp Blank °C: _____

or Ambient [ ]

Chain of Custody Seal: (Circle)

INTACT BROKEN ABSENT

Delivery Method: Hand Delivery[ ] Commerical Delivery [ ]

SGS North America Inc.
CHAIN OF CUSTODY RECORD

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 Water Quality — PROJECT/ PWSID/ PERMIT#:

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

INVOICE TO: — QUOTE #: — P.O. #:

Section 3 — Preservative: * ND 7pH

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* H2SO4 SM 4500 NH3 G Nitrogen, Ammonia (Total)	HNO3 EPA 200.7 Ca, Mg, Fe	HNO3 EPA 200.8 Cd, Cr, Cu, Pb, Zn	REMARKS/LOC ID
42A	RM 10.1 - Kenai River	5/11/21	10:30		1	Grab			1	
43A	↓	5/11/21	10:30		1	Grab, Filter		1		
44A	RM 12.5 - Pillars	5/11/21	10:50		1	Grab			1	
45A	↓		10:50		1	Grab, Filter		1		
46A	RM 18 - Poachers Cove		11:25		1	Grab			1	
47A	↓		11:25		1	Grab, Filter		1		
48A	RM 19 - Slikok Creek		12:09		1	Grab			1	
49A	↓		12:09		1	Grab, Filter		1		
50A	RM 21 - Soldotna Bridge		10:02		1	Grab			1	
51A	↓	↓	9:53		1	Grab, Filter		1		

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

Section 5

	Date	Time	
Relinquished By: (1) BM	5/11/21	2:00 PM	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:

Section 4

DOD Project? Yes (No)

Cooler ID:

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

* 200.7 = total
200.8 = dissolved
ND 05/12/21

Temp Blank °C: _____ or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery[ ] Commerical Delivery [ ]

SGS North America Inc.
CHAIN OF CUSTODY RECORD

200.8 - Total

www.us.sgs.com

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

Page ____ of ____

Section 1

CLIENT: Kenai Watershed Forum

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

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

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

INVOICE TO: — QUOTE #: — P.O. #:

Section 3 — Preservative

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	Preservative: H2SO4 (SM 4500 Nitrate/Nitrite, Total Phosphorus)	Preservative: HNO3 (EPA 200.7 Ca, Mg, Fe) *	Preservative: HNO3 (EPA 200.8 Cd, Cr, Cu, Pb, Zn) * SAD	Analysis*	REMARKS/LOC ID
52A	RM 0 DUP: No Name Creek	5/11/21	10:17		1	Grab Filter		1			
53A	↓	5/11/21	10:20		1	Grab			1		
54A	RM 0 - No Name Creek	5/11/21	10:12		1	Grab Filter		1			
55A	↓		10:11		1	Grab			1		
56A	RM 1.5 - Kenai City Dock		9:30		1	Grab			1		
57A	↓		9:30		1	Grab Filter		1			
58A	RM 6.5 - Cunningham Park		9:15		1	Grab			1		
59A	↓		9:15		1	Grab Filter		1			
60A	RM 10 - Beaver Creek		10:05		1	Grab			1		
61A	↓	↓	10:05		1	Grab Filter		1			

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

Section 5

	Date	Time	Received By:
Relinquished By: (1)	5/11/21	2:00 PM	
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)			Received For Laboratory By:

Section 4 — DOD Project? Yes No — Data Deliverable Requirements:

Cooler ID: _____

Requested Turnaround Time and/or Special Instructions:

* 200.7 = total
200.8 = dissolved SAD 05/12/21

Temp Blank °C: _____ or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery[ ] Commerical Delivery [ ]

AIRBILL 8460528

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

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

Called

Grant Aviation
6520 Kulis Dr. Anchorage, AK 99502
Phone: 1 (888) 359-4726
Freephone: 1 (888) 359-4726
Email: res@flygrant.com
Web: http://www.flygrant.com/

GRANT AVIATION

FREIGHT DETAILS

FROM/TO: Kenai -> Anchorage International

Flight Departs: May 11 21 3:25 PM

Receiver: SGS
907-550-3217

Sender: benjamin meyer

Accepted: Tue, May 11 21 3:03:00 PM

Description & Comment	Quan.	Wgt.	Handle Fee	Hazmat Fee	Total
water samples SGS	1	50	-	-	$28.24
				Total Tax:	$1.76
				Total Payments made:	$30.00
				Total Unpaid:	**$0.00**

Received in good condition by: .....

CUSTOMER COPY

AIRBILL 8460528

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

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

Grant Aviation
6520 Kulis Dr. Anchorage, AK 99502
Phone: 1 (888) 359-4726
Freephone: 1 (888) 359-4726
Email: res@flygrant.com
Web: http://www.flygrant.com/

GRANT AVIATION

FREIGHT DETAILS

FROM/TO: Kenai -> Anchorage International

Flight Departs: May 11 21 3:25 PM

Receiver: SGS
907-550-3217

Sender: benjamin meyer

Accepted: Tue, May 11 21 3:03:00 PM

Description & Comment	Quan.	Wgt.	Handle Fee	Hazmat Fee	Total
water samples SGS	1	50	-	-	$28.24
TAX: Federal Excise Tax					$1.76
				Total Payments made:	$30.00
				Total Unpaid:	**$0.00**

TERMS AND CONDITIONS

Consignemnt Note Text

Alert Expeditors Inc.

#410799

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

Date

From

To

Collect ❒	Prepay ❒	Advance Charges ❒
Job #	PO#	

Shipped Signature

Total Charge

Received By:

e-Sample Receipt Form

SGS Workorder #: **1212341** | 1212341

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements		N/A Exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location	Yes	1F
COC accompanied samples?	Yes	
DOD: Were samples received in COC corresponding coolers?	N/A	
N/A **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Yes	Cooler ID: 1 @ 1.4 °C Therm. ID: D55
If samples received without a temperature blank, the "cooler temperature" will be documented instead & "COOLER TEMP" will be noted to the right. "ambient" or "chilled" will be noted if neither is available.		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
*If >6°C, were samples collected <8 hours ago?	N/A	
If <0°C, were sample containers ice free?	N/A	
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	Yes	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	Yes	
**Note: If times differ <1hr, record details & login per COC.		
***Note: If sample information on containers differs from COC, SGS will default to COC information		
Were analytical requests clear? (i.e., method is specified for analyses with multiple option for analysis (Ex: BTEX, Metals)	Yes	
		N/A ***Exemption permitted for metals (e.g,200.8/6020A).
Were proper containers (type/mass/volume/preservative***)used?	Yes	
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	N/A	
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	N/A	
Were all soil VOAs field extracted with MeOH+BFB?	N/A	

Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.

Additional notes (if applicable):

Sample Containers and Preservatives

Container Id	Preservative	Container Condition
1212341001-A	H2SO4 to pH < 2	OK
1212341002-A	H2SO4 to pH < 2	OK
1212341003-A	H2SO4 to pH < 2	OK
1212341004-A	H2SO4 to pH < 2	OK
1212341005-A	H2SO4 to pH < 2	OK
1212341006-A	H2SO4 to pH < 2	OK
1212341007-A	H2SO4 to pH < 2	OK
1212341008-A	H2SO4 to pH < 2	OK
1212341009-A	H2SO4 to pH < 2	OK
1212341010-A	H2SO4 to pH < 2	OK
1212341011-A	H2SO4 to pH < 2	OK
1212341012-A	H2SO4 to pH < 2	OK
1212341013-A	H2SO4 to pH < 2	OK
1212341014-A	H2SO4 to pH < 2	OK
1212341015-A	H2SO4 to pH < 2	OK
1212341016-A	H2SO4 to pH < 2	OK
1212341017-A	H2SO4 to pH < 2	OK
1212341018-A	H2SO4 to pH < 2	OK
1212341019-A	H2SO4 to pH < 2	OK
1212341020-A	H2SO4 to pH < 2	OK
1212341021-A	H2SO4 to pH < 2	OK
1212341022-A	H2SO4 to pH < 2	OK
1212341023-A	H2SO4 to pH < 2	OK
1212341024-A	H2SO4 to pH < 2	OK
1212341025-A	HNO3 to pH < 2	OK
1212341026-A	HNO3 to pH < 2	OK
1212341027-A	HNO3 to pH < 2	OK
1212341028-A	HNO3 to pH < 2	OK
1212341029-A	HNO3 to pH < 2	OK
1212341030-A	HNO3 to pH < 2	OK
1212341031-A	HNO3 to pH < 2	OK
1212341032-A	HNO3 to pH < 2	OK
1212341033-A	HNO3 to pH < 2	OK
1212341034-A	HNO3 to pH < 2	OK
1212341035-A	HNO3 to pH < 2	OK
1212341036-A	HNO3 to pH < 2	OK
1212341037-A	HNO3 to pH < 2	OK
1212341038-A	HNO3 to pH < 2	OK
1212341039-A	HNO3 to pH < 2	OK
1212341040-A	HNO3 to pH < 2	OK
1212341041-A	HNO3 to pH < 2	OK
1212341042-A	HNO3 to pH < 2	OK
1212341043-A	HNO3 to pH < 2	OK
1212341044-A	HNO3 to pH < 2	OK
1212341045-A	HNO3 to pH < 2	OK
1212341046-A	HNO3 to pH < 2	OK
1212341047-A	HNO3 to pH < 2	OK
1212341048-A	HNO3 to pH < 2	OK
1212341049-A	HNO3 to pH < 2	OK
1212341050-A	HNO3 to pH < 2	OK
1212341051-A	HNO3 to pH < 2	OK
1212341052-A	HNO3 to pH < 2	OK
1212341053-A	HNO3 to pH < 2	OK
1212341054-A	HNO3 to pH < 2	OK
1212341055-A	HNO3 to pH < 2	OK
1212341056-A	HNO3 to pH < 2	OK
1212341057-A	HNO3 to pH < 2	OK
1212341058-A	HNO3 to pH < 2	OK
1212341059-A	HNO3 to pH < 2	OK
1212341060-A	HNO3 to pH < 2	OK
1212341061-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 27, 2021 Service Request No:K2105405

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

Laboratory Results for: 1212341

Dear Julie,

Enclosed are the results of the sample(s) submitted to our laboratory May 14, 2021
For your reference, these analyses have been assigned our service request number **K2105405.**

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 3364. You may also contact me via email at howard.holmes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Howard Holmes
Project Manager

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

Narrative Documents

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

Client: SGS North America, Inc. (SGS Environmental) **Service Request:** K2105405
Project: 1212341 **Date Received:** 05/14/2021
Sample Matrix: Water

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:

Fourteen water samples were received for analysis at ALS Environmental on 05/14/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by _____ Date 05/27/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: RM22-Soldotna Creek			Lab ID: K2105405-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	12.5		0.003	0.021	mg/L	200.7
Iron	1.03		0.008	0.021	mg/L	200.7
Magnesium	3.57		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM23-Swiftwater Park			Lab ID: K2105405-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	10.7		0.003	0.021	mg/L	200.7
Iron	0.418		0.008	0.021	mg/L	200.7
Magnesium	1.28		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM30-Funny River			Lab ID: K2105405-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	5.09		0.003	0.021	mg/L	200.7
Iron	0.807		0.008	0.021	mg/L	200.7
Magnesium	1.79		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM31-Morgan's Landing			Lab ID: K2105405-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	11.1		0.003	0.021	mg/L	200.7
Iron	0.417		0.008	0.021	mg/L	200.7
Magnesium	1.32		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM10.1-Kenai River			Lab ID: K2105405-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	9.98		0.003	0.021	mg/L	200.7
Iron	0.427		0.008	0.021	mg/L	200.7
Magnesium	1.31		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM12.5-Pillars			Lab ID: K2105405-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	10.0		0.003	0.021	mg/L	200.7
Iron	0.471		0.008	0.021	mg/L	200.7
Magnesium	1.28		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM18-Poachers Cove			Lab ID: K2105405-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	10.1		0.003	0.021	mg/L	200.7
Iron	0.546		0.008	0.021	mg/L	200.7
Magnesium	1.27		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM19-Slikok Creek			Lab ID: K2105405-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	7.80		0.003	0.021	mg/L	200.7
Iron	0.605		0.008	0.021	mg/L	200.7
Magnesium	2.30		0.0004	0.0053	mg/L	200.7

SAMPLE DETECTION SUMMARY

CLIENT ID: RM19-Slikok Creek			Lab ID: K2105405-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**

CLIENT ID: RM21-Solotna Bridge			Lab ID: K2105405-009			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	9.59		0.003	0.021	mg/L	200.7
Iron	0.526		0.008	0.021	mg/L	200.7
Magnesium	1.30		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM0-No Name Creek Dup			Lab ID: K2105405-010			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	9.04		0.003	0.021	mg/L	200.7
Iron	4.62		0.008	0.021	mg/L	200.7
Magnesium	4.06		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM0-No Name Creek			Lab ID: K2105405-011			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	9.07		0.003	0.021	mg/L	200.7
Iron	4.35		0.008	0.021	mg/L	200.7
Magnesium	4.04		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM1.5-Kenai City Dock			Lab ID: K2105405-012			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	50.7		0.003	0.021	mg/L	200.7
Iron	7.30		0.008	0.021	mg/L	200.7
Magnesium	134		0.008	0.11	mg/L	200.7

CLIENT ID: RM6.5-Cunningham Park			Lab ID: K2105405-013			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	11.4		0.003	0.021	mg/L	200.7
Iron	5.60		0.008	0.021	mg/L	200.7
Magnesium	2.97		0.0004	0.0053	mg/L	200.7

CLIENT ID: RM10-Beaver Creek			Lab ID: K2105405-014			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Calcium	11.1		0.003	0.021	mg/L	200.7
Iron	2.83		0.008	0.021	mg/L	200.7
Magnesium	2.86		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
K2105405-001	RM22-Soldotna Creek	5/11/2021	1135
K2105405-002	RM23-Swiftwater Park	5/11/2021	1110
K2105405-003	RM30-Funny River	5/11/2021	0906
K2105405-004	RM31-Morgan's Landing	5/11/2021	1013
K2105405-005	RM10.1-Kenai River	5/11/2021	1030
K2105405-006	RM12.5-Pillars	5/11/2021	1050
K2105405-007	RM18-Poachers Cove	5/11/2021	1125
K2105405-008	RM19-Slikok Creek	5/11/2021	1209
K2105405-009	RM21-Solotna Bridge	5/11/2021	0953
K2105405-010	RM0-No Name Creek Dup	5/11/2021	1017
K2105405-011	RM0-No Name Creek	5/11/2021	1012
K2105405-012	RM1.5-Kenai City Dock	5/11/2021	0930
K2105405-013	RM6.5-Cunningham Park	5/11/2021	0915
K2105405-014	RM10-Beaver Creek	5/11/2021	1005

SGS North America Inc.
CHAIN OF CUSTODY RECORD

K-2105405

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
CONTACT:	Julie Shumway	PHONE NO:	(907) 562-2343
PROJECT NAME:	1212341	PWSID#:	
		NPDL#:	
REPORTS TO:	Julie Shumway	E-MAIL:	Julie.Shumway@sgs.com; Env.Alaska.RefLabTeam@sgs.com
INVOICE TO:	SGS - Alaska	QUOTE #:	
		P.O. #:	657849

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	TYPE C = COMP G = GRAB MI = Multi Incremental Soils	200.7 Total Metals: Ca, Mg, Fe			MS	MSD	SGS lab #	Location ID
	RM22-Soldotna Creek	05/11/2021	11:35:00	Water	1			X					1212341026	
	RM23-Swiftwater Park	05/11/2021	11:10:00	Water	1			X					1212341028	
	RM30-Funny River	05/11/2021	09:06:00	Water	1			X					1212341030	
	RM31-Morgan's Landing	05/11/2021	10:13:00	Water	1			X					1212341032	
	RM10.1-Kenai River	05/11/2021	10:30:00	Water	1			X					1212341043	
	RM12.5-Pillars	05/11/2021	10:50:00	Water	1			X					1212341045	
	RM18-Poachers Cove	05/11/2021	11:25:00	Water	1			X					1212341047	
	RM19-Slikok Creek	05/11/2021	12:09:00	Water	1			X					1212341049	
	RM21-Soldotna Bridge	05/11/2021	09:53:00	Water	1			X					1212341051	
	RM0-No Name Creek Dup	05/11/2021	10:17:00	Water	1			X					1212341052	

	Date	Time		
Relinquished By: (1)	5/13/21	1037	Received By:	5/14/21 1000
Relinquished By: (2)	Date	Time	Received By:	
Relinquished By: (3)	Date	Time	Received By:	
Relinquished By: (4)	Date	Time	Received For Laboratory By:	

DOD Project? NO YES NO 05/13/21

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

Data Deliverable Requirements: Level 2

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

K21O540S

SGS North America Inc.
CHAIN OF CUSTODY RECORD

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:	
CONTACT:	Julie Shumway	PHONE NO: (907) 562-2343	Additional Comments: All soils report out in dry weight unless
PROJECT NAME:	1212341	PWSID#:	
		NPDL#:	
REPORTS TO: Julie Shumway		E-MAIL: Julie.Shumway@sgs.com; Env.Alaska.RefLabTeam@sgs.com	
INVOICE TO:	SGS - Alaska	QUOTE #: P.O. #: 657849	

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/ MATRIX CODE	# CONTAINERS	Preservative Used: HNO3	200.7 Total Metals: Ca, Mg, Fe				MS	MSD	SGS lab #	Location ID
						TYPE C = COMP G = GRAB MI = Multi Incremental Soils								
	RM0-No Name Creek	05/11/2021	10:12:00	Water	1		X						1212341054	
	RM1.5-Kenai City Dock	05/11/2021	09:30:00	Water	1		X						1212341057	
	RM6.5-Cunningham Park	05/11/2021	09:15:00	Water	1		X						1212341059	
	RM10-Beaver Creek	05/11/2021	10:05:00	Water	1		X						1212341061	

Relinquished By: (1)	Date 5/13/21	Time 1037	Received By:	DOD Project? 90 05/13/21 YES NO	Data Deliverable Requirements: Level 2
Relinquished By: (2)	Date	Time	Received By:	Report to DL (J Flags)? If J- Report as DL/LOD/LOQ. YES	Cooler ID:
Relinquished By: (3)	Date	Time	Received By:	Requested Turnaround Time and-or Special Instructions:	
Relinquished By: (4)	Date	Time	Received For Laboratory By:	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

PM HH

Cooler Receipt and Preservation Form

Client SGS Service Request K21 05405

Received: 5/14/21 Opened: 5/14/21 By: BR Unloaded: 5/14/21 By: BR

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 on sides
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N
4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column below:
   If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA Y N
   If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA Y N

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

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
3.6	—	1102		—		148348015584	

6. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* foam
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
8. Were samples received in good condition (unbroken) NA Y N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
10. Did all sample labels and tags agree with custody papers? NA Y N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
13. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
14. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

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

Notes, Discrepancies, Resolutions: _____

Miscellaneous Forms

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

Inorganic Data Qualifiers

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

Metals Data Qualifiers

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

Organic Data Qualifiers

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

Additional Petroleum Hydrocarbon Specific Qualifiers

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

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

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, Inc. (SGS Environmental) **Service Request:** K2105405
Project: 1212341/

Sample Name: RM22-Soldotna Creek **Date Collected:** 05/11/21
Lab Code: K2105405-001 **Date Received:** 05/14/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	ABOYER	RMOORE

Sample Name: RM23-Swiftwater Park **Date Collected:** 05/11/21
Lab Code: K2105405-002 **Date Received:** 05/14/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	ABOYER	RMOORE

Sample Name: RM30-Funny River **Date Collected:** 05/11/21
Lab Code: K2105405-003 **Date Received:** 05/14/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	ABOYER	RMOORE

Sample Name: RM31-Morgan's Landing **Date Collected:** 05/11/21
Lab Code: K2105405-004 **Date Received:** 05/14/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	ABOYER	RMOORE

Sample Name: RM10.1-Kenai River **Date Collected:** 05/11/21
Lab Code: K2105405-005 **Date Received:** 05/14/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	ABOYER	RMOORE

Client: SGS North America, Inc. (SGS Environmental) **Service Request:** K2105405
Project: 1212341/

Sample Name: RM12.5-Pillars **Date Collected:** 05/11/21
Lab Code: K2105405-006 **Date Received:** 05/14/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	ABOYER	RMOORE

Sample Name: RM18-Poachers Cove **Date Collected:** 05/11/21
Lab Code: K2105405-007 **Date Received:** 05/14/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	ABOYER	RMOORE

Sample Name: RM19-Slikok Creek **Date Collected:** 05/11/21
Lab Code: K2105405-008 **Date Received:** 05/14/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	ABOYER	RMOORE

Sample Name: RM21-Solotna Bridge **Date Collected:** 05/11/21
Lab Code: K2105405-009 **Date Received:** 05/14/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	ABOYER	RMOORE

Sample Name: RM0-No Name Creek Dup **Date Collected:** 05/11/21
Lab Code: K2105405-010 **Date Received:** 05/14/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	ABOYER	RMOORE

Client: SGS North America, Inc. (SGS Environmental) **Service Request:** K2105405
Project: 1212341/

Sample Name: RM0-No Name Creek **Date Collected:** 05/11/21
Lab Code: K2105405-011 **Date Received:** 05/14/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	ABOYER	RMOORE

Sample Name: RM1.5-Kenai City Dock **Date Collected:** 05/11/21
Lab Code: K2105405-012 **Date Received:** 05/14/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	ABOYER	RMOORE

Sample Name: RM6.5-Cunningham Park **Date Collected:** 05/11/21
Lab Code: K2105405-013 **Date Received:** 05/14/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	ABOYER	RMOORE

Sample Name: RM10-Beaver Creek **Date Collected:** 05/11/21
Lab Code: K2105405-014 **Date Received:** 05/14/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	ABOYER	RMOORE

Sample Results

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

Metals

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

Analytical Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project:	1212341	**Date Collected:**	05/11/21 11:35
Sample Matrix:	Water	**Date Received:**	05/14/21 10:00
Sample Name:	RM22-Soldotna Creek	**Basis:**	NA
Lab Code:	K2105405-001		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**12.5**	mg/L	0.021	0.003	1	05/21/21 15:42	05/19/21	
Iron	200.7	**1.03**	mg/L	0.021	0.008	1	05/21/21 15:42	05/19/21	
Magnesium	200.7	**3.57**	mg/L	0.0053	0.0004	1	05/21/21 15:42	05/19/21	

Analytical Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project:	1212341	**Date Collected:**	05/11/21 11:10
Sample Matrix:	Water	**Date Received:**	05/14/21 10:00
Sample Name:	RM23-Swiftwater Park	**Basis:**	NA
Lab Code:	K2105405-002		

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	05/21/21 15:49	05/19/21	
Iron	200.7	**0.418**	mg/L	0.021	0.008	1	05/21/21 15:49	05/19/21	
Magnesium	200.7	**1.28**	mg/L	0.0053	0.0004	1	05/21/21 15:49	05/19/21	

Analytical Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project:	1212341	**Date Collected:**	05/11/21 09:06
Sample Matrix:	Water	**Date Received:**	05/14/21 10:00
Sample Name:	RM30-Funny River	**Basis:**	NA
Lab Code:	K2105405-003		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**5.09**	mg/L	0.021	0.003	1	05/21/21 15:57	05/19/21	
Iron	200.7	**0.807**	mg/L	0.021	0.008	1	05/21/21 15:57	05/19/21	
Magnesium	200.7	**1.79**	mg/L	0.0053	0.0004	1	05/21/21 15:57	05/19/21	

Analytical Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project:	1212341	**Date Collected:**	05/11/21 10:13
Sample Matrix:	Water	**Date Received:**	05/14/21 10:00
Sample Name:	RM31-Morgan's Landing	**Basis:**	NA
Lab Code:	K2105405-004		

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	05/21/21 16:00	05/19/21	
Iron	200.7	**0.417**	mg/L	0.021	0.008	1	05/21/21 16:00	05/19/21	
Magnesium	200.7	**1.32**	mg/L	0.0053	0.0004	1	05/21/21 16:00	05/19/21	

Analytical Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project:	1212341	**Date Collected:**	05/11/21 10:30
Sample Matrix:	Water	**Date Received:**	05/14/21 10:00
Sample Name:	RM10.1-Kenai River	**Basis:**	NA
Lab Code:	K2105405-005		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**9.98**	mg/L	0.021	0.003	1	05/21/21 16:10	05/19/21	
Iron	200.7	**0.427**	mg/L	0.021	0.008	1	05/21/21 16:10	05/19/21	
Magnesium	200.7	**1.31**	mg/L	0.0053	0.0004	1	05/21/21 16:10	05/19/21	

Analytical Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project:	1212341	**Date Collected:**	05/11/21 10:50
Sample Matrix:	Water	**Date Received:**	05/14/21 10:00
Sample Name:	RM12.5-Pillars	**Basis:**	NA
Lab Code:	K2105405-006		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**10.0**	mg/L	0.021	0.003	1	05/21/21 16:12	05/19/21	
Iron	200.7	**0.471**	mg/L	0.021	0.008	1	05/21/21 16:12	05/19/21	
Magnesium	200.7	**1.28**	mg/L	0.0053	0.0004	1	05/21/21 16:12	05/19/21	

Analytical Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project:	1212341	**Date Collected:**	05/11/21 11:25
Sample Matrix:	Water	**Date Received:**	05/14/21 10:00
Sample Name:	RM18-Poachers Cove	**Basis:**	NA
Lab Code:	K2105405-007		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**10.1**	mg/L	0.021	0.003	1	05/21/21 16:15	05/19/21	
Iron	200.7	**0.546**	mg/L	0.021	0.008	1	05/21/21 16:15	05/19/21	
Magnesium	200.7	**1.27**	mg/L	0.0053	0.0004	1	05/21/21 16:15	05/19/21	

Analytical Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project:	1212341	**Date Collected:**	05/11/21 12:09
Sample Matrix:	Water	**Date Received:**	05/14/21 10:00
Sample Name:	RM19-Slikok Creek	**Basis:**	NA
Lab Code:	K2105405-008		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**7.80**	mg/L	0.021	0.003	1	05/21/21 16:18	05/19/21	
Iron	200.7	**0.605**	mg/L	0.021	0.008	1	05/21/21 16:18	05/19/21	
Magnesium	200.7	**2.30**	mg/L	0.0053	0.0004	1	05/21/21 16:18	05/19/21	

Analytical Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project:	1212341	**Date Collected:**	05/11/21 09:53
Sample Matrix:	Water	**Date Received:**	05/14/21 10:00
Sample Name:	RM21-Solotna Bridge	**Basis:**	NA
Lab Code:	K2105405-009		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**9.59**	mg/L	0.021	0.003	1	05/21/21 16:20	05/19/21	
Iron	200.7	**0.526**	mg/L	0.021	0.008	1	05/21/21 16:20	05/19/21	
Magnesium	200.7	**1.30**	mg/L	0.0053	0.0004	1	05/21/21 16:20	05/19/21	

Analytical Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project:	1212341	**Date Collected:**	05/11/21 10:17
Sample Matrix:	Water	**Date Received:**	05/14/21 10:00
Sample Name:	RM0-No Name Creek Dup	**Basis:**	NA
Lab Code:	K2105405-010		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**9.04**	mg/L	0.021	0.003	1	05/21/21 16:23	05/19/21	
Iron	200.7	**4.62**	mg/L	0.021	0.008	1	05/21/21 16:23	05/19/21	
Magnesium	200.7	**4.06**	mg/L	0.0053	0.0004	1	05/21/21 16:23	05/19/21	

Analytical Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project:	1212341	**Date Collected:**	05/11/21 10:12
Sample Matrix:	Water	**Date Received:**	05/14/21 10:00
Sample Name:	RM0-No Name Creek	**Basis:**	NA
Lab Code:	K2105405-011		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**9.07**	mg/L	0.021	0.003	1	05/21/21 16:26	05/19/21	
Iron	200.7	**4.35**	mg/L	0.021	0.008	1	05/21/21 16:26	05/19/21	
Magnesium	200.7	**4.04**	mg/L	0.0053	0.0004	1	05/21/21 16:26	05/19/21	

Analytical Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project:	1212341	**Date Collected:**	05/11/21 09:30
Sample Matrix:	Water	**Date Received:**	05/14/21 10:00
Sample Name:	RM1.5-Kenai City Dock	**Basis:**	NA
Lab Code:	K2105405-012		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**50.7**	mg/L	0.021	0.003	1	05/21/21 16:28	05/19/21	
Iron	200.7	**7.30**	mg/L	0.021	0.008	1	05/21/21 16:28	05/19/21	
Magnesium	200.7	**134**	mg/L	0.11	0.008	20	05/21/21 19:09	05/19/21	

Analytical Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project:	1212341	**Date Collected:**	05/11/21 09:15
Sample Matrix:	Water	**Date Received:**	05/14/21 10:00
Sample Name:	RM6.5-Cunningham Park	**Basis:**	NA
Lab Code:	K2105405-013		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	**11.4**	mg/L	0.021	0.003	1	05/21/21 16:31	05/19/21	
Iron	200.7	**5.60**	mg/L	0.021	0.008	1	05/21/21 16:31	05/19/21	
Magnesium	200.7	**2.97**	mg/L	0.0053	0.0004	1	05/21/21 16:31	05/19/21	

Analytical Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project:	1212341	**Date Collected:**	05/11/21 10:05
Sample Matrix:	Water	**Date Received:**	05/14/21 10:00
Sample Name:	RM10-Beaver Creek	**Basis:**	NA
Lab Code:	K2105405-014		

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	05/21/21 16:33	05/19/21	
Iron	200.7	**2.83**	mg/L	0.021	0.008	1	05/21/21 16:33	05/19/21	
Magnesium	200.7	**2.86**	mg/L	0.0053	0.0004	1	05/21/21 16:33	05/19/21	

QC Summary Forms

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

Metals

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Analytical Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project:	1212341	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	KQ2108770-01		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Calcium	200.7	ND U	mg/L	0.021	0.003	1	05/21/21 15:37	05/19/21	
Iron	200.7	ND U	mg/L	0.021	0.008	1	05/21/21 15:37	05/19/21	
Magnesium	200.7	ND U	mg/L	0.0053	0.0004	1	05/21/21 15:37	05/19/21	

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QA/QC Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project:	1212341	**Date Collected:**	05/11/21
Sample Matrix:	Water	**Date Received:**	05/14/21
		Date Analyzed:	05/21/21
		Date Extracted:	05/19/21

Matrix Spike Summary
Total Metals

Sample Name:	RM22-Soldotna Creek	**Units:**	mg/L
Lab Code:	K2105405-001	**Basis:**	NA
Analysis Method:	200.7		
Prep Method:	EPA CLP ILM04.0		

Matrix Spike
KQ2108770-04

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Calcium	12.5	21.7	10.0	92	70-130
Iron	1.03	1.98	1.00	95	70-130
Magnesium	3.57	14.1	10.0	105	70-130

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

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

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

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project:	1212341	**Date Collected:**	05/11/21
Sample Matrix:	Water	**Date Received:**	05/14/21
		Date Analyzed:	05/21/21
		Date Extracted:	05/19/21

Matrix Spike Summary
Total Metals

Sample Name:	RM23-Swiftwater Park	**Units:**	mg/L
Lab Code:	K2105405-002	**Basis:**	NA
Analysis Method:	200.7		
Prep Method:	EPA CLP ILM04.0		

Matrix Spike
KQ2108770-06

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Calcium	10.7	20.7	10.0	100	70-130
Iron	0.418	1.45	1.00	103	70-130
Magnesium	1.28	12.4	10.0	111	70-130

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

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

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

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project	1212341	**Date Collected:**	05/11/21
Sample Matrix:	Water	**Date Received:**	05/14/21
		Date Analyzed:	05/21/21

Replicate Sample Summary

Total Metals

Sample Name:	RM22-Soldotna Creek	**Units:**	mg/L
Lab Code:	K2105405-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample KQ2108770-03 Result	Average	RPD	RPD Limit
Calcium	200.7	0.021	0.003	12.5	12.4	12.5	<1	20
Iron	200.7	0.021	0.008	1.03	1.02	1.03	<1	20
Magnesium	200.7	0.0053	0.0004	3.57	3.56	3.57	<1	20

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

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

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

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	SGS North America, Inc. (SGS Environmental)	**Service Request:**	K2105405
Project	1212341	**Date Collected:**	05/11/21
Sample Matrix:	Water	**Date Received:**	05/14/21
		Date Analyzed:	05/21/21

Replicate Sample Summary

Total Metals

Sample Name:	RM23-Swiftwater Park	**Units:**	mg/L
Lab Code:	K2105405-002	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample KQ2108770-05 Result	Average	RPD	RPD Limit
Calcium	200.7	0.021	0.003	10.7	10.7	10.7	<1	20
Iron	200.7	0.021	0.008	0.418	0.419	0.419	<1	20
Magnesium	200.7	0.0053	0.0004	1.28	1.28	1.28	<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.

Client: SGS North America, Inc. (SGS Environmental)
Project: 1212341
Sample Matrix: Water

Service Request: K2105405
Date Analyzed: 05/21/21

Lab Control Sample Summary
Total Metals

Units:mg/L
Basis:NA

Lab Control Sample
KQ2108770-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Calcium	200.7	12.1	12.5	96	85-115
Iron	200.7	2.45	2.50	98	85-115
Magnesium	200.7	13.0	12.5	104	85-115