



Laboratory Report of Analysis

To: ADEC-Air & Water Quality
555 Cordova St
Anchorage, AK 99501
907-741-1026

Report Number: **1224155**

Client Project: **Kenai River Metals Monitoring**

Dear Sarah Apsens,

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

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

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

Sincerely,
SGS North America Inc.

Justin Nelson
Project Manager
Justin.Nelson@sgs.com

Date

Case Narrative

SGS Client: **ADEC-Air & Water Quality**
SGS Project: **1224155**
Project Name/Site: **Kenai River Metals Monitoring**
Project Contact: **Sarah Apsens**

Refer to sample receipt form for information on sample condition.

RM 70 (1224155001) PS

200.8 – Metals - LCS/MS recoveries for Calcium do not meet QC criteria. Sample result for this analyte is estimated.

RM 40 (1224155002) PS

200.8 – Metals - LCS/MS recoveries for Calcium do not meet QC criteria. Sample result for this analyte is estimated.

RM 20.75 (1224155003) PS

200.8 – Metals - LCS/MS recoveries for Calcium do not meet QC criteria. Sample result for this analyte is estimated.

RM 19 (1224155004) PS

200.8 – Metals - LCS/MS recoveries for Calcium do not meet QC criteria. Sample result for this analyte is estimated.

RM 76 (1224155005) PS

200.8 – Metals - LCS/MS recoveries for Calcium do not meet QC criteria. Sample result for this analyte is estimated.

RM 76 DUP (1224155006) PS

200.8 – Metals - LCS/MS recoveries for Calcium do not meet QC criteria. Sample result for this analyte is estimated.

RM 31 (1224155007) PS

200.8 – Metals - LCS/MS recoveries for Calcium do not meet QC criteria. Sample result for this analyte is estimated.

RM 19.1 (1224155008) PS

200.8 – Metals - LCS/MS recoveries for Calcium do not meet QC criteria. Sample result for this analyte is estimated.

Field Blank (1224155009) PS

200.8 – Metals - LCS/MS recoveries for Calcium do not meet QC criteria. Sample result for this analyte is estimated.

RM 12.75 (1224155010) PS

200.8 – Metals - LCS/MS recoveries for Calcium do not meet QC criteria. Sample result for this analyte is estimated.

RM 5 (1224155011) PS

200.8 – Metals - LCS/MS recoveries for Calcium do not meet QC criteria. Sample result for this analyte is estimated.

RM 5 DUP (1224155012) PS

200.8 – Metals - LCS/MS recoveries for Calcium do not meet QC criteria. Sample result for this analyte is estimated.

RM 23 (1224155013) PS

200.8 – Metals - LCS/MS recoveries for Calcium do not meet QC criteria. Sample result for this analyte is estimated.

RM 10.1 (1224155014) PS

200.8 – Metals - LCS/MS recoveries for Calcium do not meet QC criteria. Sample result for this analyte is estimated.

RM 10.1 DUP (1224155015) PS

200.8 – Metals - LCS/MS recoveries for Calcium do not meet QC criteria. Sample result for this analyte is estimated.

Case Narrative

SGS Client: **ADEC-Air & Water Quality**
SGS Project: **1224155**
Project Name/Site: **Kenai River Metals Monitoring**
Project Contact: **Sarah Apsens**

RM 21 (1224155036) PS

200.8 - Metals analyte Zinc is detected in the MB above the LOQ.

LCS for HBN 1840625 [MXX/35300 (1676816) LCS

200.8 – Metals - LCS recovery for Calcium does not meet QC criteria. Sample result for this analyte is estimated.

1224155015(1676814MS) (1676819) MS

200.8 – Metals - LCS recovery for Calcium does not meet QC criteria. Sample result for this analyte is estimated.

MB for HBN 1840627 [MXX/35301] (1676825) MB

200.8 - Metals analyte Zinc is detected in the MB above the LOQ.

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

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

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

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

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

Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
RM 70	1224155001	07/20/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 40	1224155002	07/20/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 20.75	1224155003	07/19/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 19	1224155004	07/20/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 76	1224155005	07/20/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 76 DUP	1224155006	07/20/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 31	1224155007	07/20/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 19.1	1224155008	07/19/2022	07/21/2022	Water (Surface, Eff., Ground)
Field Blank	1224155009	07/20/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 12.75	1224155010	07/19/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 5	1224155011	07/19/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 5 DUP	1224155012	07/19/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 23	1224155013	07/18/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 10.1	1224155014	07/18/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 10.1 DUP	1224155015	07/18/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 21.1	1224155016	07/18/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 21.1 DUP	1224155017	07/18/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 21	1224155018	07/18/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 70	1224155019	07/20/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 40	1224155020	07/20/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 20.75	1224155021	07/19/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 19	1224155022	07/20/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 76	1224155023	07/20/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 76 DUP	1224155024	07/20/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 31	1224155025	07/20/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 19.1	1224155026	07/19/2022	07/21/2022	Water (Surface, Eff., Ground)
Field Blank	1224155027	07/20/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 12.75	1224155028	07/19/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 5	1224155029	07/19/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 5 DUP	1224155030	07/19/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 23	1224155031	07/18/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 10.1	1224155032	07/18/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 10.1 DUP	1224155033	07/18/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 21.1	1224155034	07/18/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 21.1 DUP	1224155035	07/18/2022	07/21/2022	Water (Surface, Eff., Ground)
RM 21	1224155036	07/18/2022	07/21/2022	Water (Surface, Eff., Ground)

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Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
<u>Method</u>	<u>Method Description</u>			
SM 5310B	Dissolved Organic Carbon			
SM21 2340B	Hardness as CaCO3 by ICP-MS			
EP200.8	Metals in Drinking Water by ICP-MS DISSO			
EP200.8	Metals in Water by 200.8 ICP-MS			
SM21 2540C	Total Dissolved Solids SM18 2540C			

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Detectable Results Summary

Client Sample ID: **RM 70**
 Lab Sample ID: 1224155001

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	17800	ug/L
Hardness as CaCO3	49.7	mg/L
Magnesium	1250	ug/L
Zinc	94.4	ug/L
Total Dissolved Solids	62.0	mg/L

Waters Department

Client Sample ID: **RM 40**
 Lab Sample ID: 1224155002

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	14000	ug/L
Hardness as CaCO3	39.5	mg/L
Magnesium	1090	ug/L
Zinc	45.4	ug/L
Total Dissolved Solids	58.0	mg/L

Waters Department

Client Sample ID: **RM 20.75**
 Lab Sample ID: 1224155003

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	14100	ug/L
Hardness as CaCO3	40.0	mg/L
Magnesium	1200	ug/L
Zinc	117	ug/L
Total Dissolved Solids	49.0	mg/L

Waters Department

Client Sample ID: **RM 19**
 Lab Sample ID: 1224155004

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	17100	ug/L
Hardness as CaCO3	60.0	mg/L
Magnesium	4220	ug/L
Zinc	68.4	ug/L
TOC Average, Dissolved	7.69	mg/L
Total Dissolved Solids	102	mg/L

Waters Department

Client Sample ID: **RM 76**
 Lab Sample ID: 1224155005

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	17800	ug/L
Hardness as CaCO3	49.4	mg/L
Magnesium	1200	ug/L
Total Dissolved Solids	65.0	mg/L

Waters Department

Client Sample ID: **RM 76 DUP**
 Lab Sample ID: 1224155006

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	18000	ug/L
Hardness as CaCO3	50.0	mg/L
Magnesium	1210	ug/L
Zinc	23.0	ug/L
Total Dissolved Solids	59.0	mg/L

Waters Department

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SGS North America Inc.

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Member of SGS Group

Detectable Results Summary

Client Sample ID: **RM 31**
 Lab Sample ID: 1224155007

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	14400	ug/L
Hardness as CaCO ₃	40.8	mg/L
Magnesium	1180	ug/L
Zinc	54.3	ug/L
Total Dissolved Solids	55.0	mg/L

Waters Department

Client Sample ID: **RM 19.1**
 Lab Sample ID: 1224155008

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	16000	ug/L
Hardness as CaCO ₃	44.8	mg/L
Magnesium	1190	ug/L
Zinc	96.8	ug/L
Total Dissolved Solids	47.0	mg/L

Waters Department

Client Sample ID: **Field Blank**
 Lab Sample ID: 1224155009

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Zinc	62.3	ug/L

Client Sample ID: **RM 12.75**
 Lab Sample ID: 1224155010

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	14000	ug/L
Hardness as CaCO ₃	39.8	mg/L
Magnesium	1210	ug/L
Zinc	127	ug/L
Total Dissolved Solids	41.0	mg/L

Waters Department

Client Sample ID: **RM 5**
 Lab Sample ID: 1224155011

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	14400	ug/L
Hardness as CaCO ₃	42.3	mg/L
Magnesium	1550	ug/L
Zinc	58.2	ug/L
Total Dissolved Solids	53.0	mg/L

Waters Department

Client Sample ID: **RM 5 DUP**
 Lab Sample ID: 1224155012

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	14300	ug/L
Hardness as CaCO ₃	42.0	mg/L
Magnesium	1530	ug/L
Zinc	91.0	ug/L
Total Dissolved Solids	55.0	mg/L

Waters Department

Detectable Results Summary

Client Sample ID: **RM 23**
 Lab Sample ID: 1224155013

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	14000	ug/L
Hardness as CaCO ₃	40.0	mg/L
Magnesium	1210	ug/L
Zinc	89.8	ug/L
Total Dissolved Solids	49.0	mg/L

Waters Department

Client Sample ID: **RM 10.1**
 Lab Sample ID: 1224155014

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	14100	ug/L
Hardness as CaCO ₃	40.5	mg/L
Magnesium	1260	ug/L
Zinc	136	ug/L
Total Dissolved Solids	54.0	mg/L

Waters Department

Client Sample ID: **RM 10.1 DUP**
 Lab Sample ID: 1224155015

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	14100	ug/L
Hardness as CaCO ₃	40.5	mg/L
Magnesium	1310	ug/L
Zinc	33.6	ug/L
Total Dissolved Solids	53.0	mg/L

Waters Department

Client Sample ID: **RM 21.1**
 Lab Sample ID: 1224155016

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	12600	ug/L
Hardness as CaCO ₃	36.6	mg/L
Magnesium	1210	ug/L
Total Dissolved Solids	50.0	mg/L

Waters Department

Client Sample ID: **RM 21.1 DUP**
 Lab Sample ID: 1224155017

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	12500	ug/L
Hardness as CaCO ₃	36.2	mg/L
Magnesium	1200	ug/L
Total Dissolved Solids	52.0	mg/L

Waters Department

Client Sample ID: **RM 21**
 Lab Sample ID: 1224155018

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	12400	ug/L
Hardness as CaCO ₃	35.8	mg/L
Magnesium	1190	ug/L
Zinc	29.3	ug/L
Total Dissolved Solids	56.0	mg/L

Waters Department

Detectable Results Summary

Client Sample ID: **RM 70**
 Lab Sample ID: 1224155019
Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	16200	ug/L
Magnesium	1160	ug/L
Potassium	511	ug/L
Sodium	1410	ug/L
Zinc	41.2	ug/L

Client Sample ID: **RM 40**
 Lab Sample ID: 1224155020
Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	12400	ug/L
Magnesium	901	ug/L
Potassium	746	ug/L
Sodium	1240	ug/L
Zinc	50.7	ug/L

Client Sample ID: **RM 20.75**
 Lab Sample ID: 1224155021
Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	28.1	ug/L
Calcium	12300	ug/L
Magnesium	937	ug/L
Potassium	753	ug/L
Sodium	1290	ug/L
Zinc	28.5	ug/L

Client Sample ID: **RM 19**
 Lab Sample ID: 1224155022
Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	15400	ug/L
Magnesium	4010	ug/L
Potassium	1040	ug/L
Sodium	4680	ug/L
Zinc	36.2	ug/L

Client Sample ID: **RM 76**
 Lab Sample ID: 1224155023
Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	15900	ug/L
Magnesium	1140	ug/L
Potassium	513	ug/L
Sodium	1350	ug/L

Client Sample ID: **RM 76 DUP**
 Lab Sample ID: 1224155024
Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	15900	ug/L
Magnesium	1140	ug/L
Potassium	516	ug/L
Sodium	1360	ug/L
Zinc	39.2	ug/L

Detectable Results Summary

Client Sample ID: **RM 31**

Lab Sample ID: 1224155025

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Calcium	12700	ug/L
Magnesium	984	ug/L
Potassium	778	ug/L
Sodium	1350	ug/L
Zinc	28.6	ug/L

Client Sample ID: **RM 19.1**

Lab Sample ID: 1224155026

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	31.1	ug/L
Calcium	12400	ug/L
Magnesium	947	ug/L
Potassium	767	ug/L
Sodium	1310	ug/L
Zinc	42.0	ug/L

Client Sample ID: **Field Blank**

Lab Sample ID: 1224155027

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Zinc	86.8	ug/L

Client Sample ID: **RM 12.75**

Lab Sample ID: 1224155028

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	24.9	ug/L
Calcium	12300	ug/L
Magnesium	941	ug/L
Potassium	767	ug/L
Sodium	1300	ug/L
Zinc	53.8	ug/L

Client Sample ID: **RM 5**

Lab Sample ID: 1224155029

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	43.6	ug/L
Calcium	12400	ug/L
Magnesium	1050	ug/L
Potassium	837	ug/L
Sodium	1850	ug/L
Zinc	10.5	ug/L

Client Sample ID: **RM 5 DUP**

Lab Sample ID: 1224155030

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	46.9	ug/L
Calcium	12500	ug/L
Magnesium	1060	ug/L
Potassium	843	ug/L
Sodium	1870	ug/L
Zinc	19.6	ug/L

Detectable Results Summary

Client Sample ID: **RM 23**
 Lab Sample ID: 1224155031
Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	21.1	ug/L
Calcium	12500	ug/L
Magnesium	946	ug/L
Potassium	771	ug/L
Sodium	1310	ug/L
Zinc	50.6	ug/L

Client Sample ID: **RM 10.1**
 Lab Sample ID: 1224155032
Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	23.1	ug/L
Calcium	12500	ug/L
Magnesium	964	ug/L
Potassium	777	ug/L
Sodium	1320	ug/L
Zinc	31.1	ug/L

Client Sample ID: **RM 10.1 DUP**
 Lab Sample ID: 1224155033
Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	22.4	ug/L
Calcium	12400	ug/L
Magnesium	959	ug/L
Potassium	772	ug/L
Sodium	1320	ug/L
Zinc	25.4	ug/L

Client Sample ID: **RM 21.1**
 Lab Sample ID: 1224155034
Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	41.8	ug/L
Calcium	12300	ug/L
Magnesium	957	ug/L
Potassium	770	ug/L
Sodium	1320	ug/L

Client Sample ID: **RM 21.1 DUP**
 Lab Sample ID: 1224155035
Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	44.1	ug/L
Calcium	12400	ug/L
Magnesium	971	ug/L
Potassium	773	ug/L
Sodium	1340	ug/L

Detectable Results Summary

Client Sample ID: **RM 21**

Lab Sample ID: 1224155036

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	38.0	ug/L
Calcium	13000	ug/L
Magnesium	939	ug/L
Potassium	803	ug/L
Sodium	1330	ug/L
Zinc	39.4	ug/L

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Results of **RM 70**

Client Sample ID: **RM 70**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155001
Lab Project ID: 1224155

Collection Date: 07/20/22 10:14
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Calcium	17800	500	150	ug/L	1		08/08/22 19:32
Copper	3.00 U	3.00	1.00	ug/L	1		08/08/22 19:32
Magnesium	1250	50.0	15.0	ug/L	1		08/08/22 19:32
Zinc	94.4	10.0	3.10	ug/L	1		08/08/22 19:32

Batch Information

Analytical Batch: MMS11624	Prep Batch: MXX35300
Analytical Method: EP200.8	Prep Method: E200.2
Analyst: HGS	Prep Date/Time: 08/01/22 11:40
Analytical Date/Time: 08/08/22 19:32	Prep Initial Wt./Vol.: 20 mL
Container ID: 1224155001-C	Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	49.7	5.00	5.00	mg/L	1		08/08/22 19:32

Batch Information

Analytical Batch: MMS11624	Prep Batch: MXX35300
Analytical Method: SM21 2340B	Prep Method: E200.2
Analyst: HGS	Prep Date/Time: 08/01/22 11:40
Analytical Date/Time: 08/08/22 19:32	Prep Initial Wt./Vol.: 20 mL
Container ID: 1224155001-C	Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of **RM 70**

Client Sample ID: **RM 70**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155001
Lab Project ID: 1224155

Collection Date: 07/20/22 10:14
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	1.00 U	1.00	0.400	mg/L	1		07/26/22 17:37

Batch Information

Analytical Batch: WTC3209
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/26/22 17:37
Container ID: 1224155001-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	62.0	10.0	3.10	mg/L	1		07/26/22 13:15

Batch Information

Analytical Batch: STS7331
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/26/22 13:15
Container ID: 1224155001-B

Print Date: 08/24/2022 2:26:26PM



Results of RM 40

Client Sample ID: RM 40
Client Project ID: Kenai River Metals Monitoring
Lab Sample ID: 1224155002
Lab Project ID: 1224155

Collection Date: 07/20/22 11:00
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Metals by ICP/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Calcium, Copper, Magnesium, and Zinc.

Batch Information

Analytical Batch: MMS11624
Analytical Method: EP200.8
Analyst: HGS
Analytical Date/Time: 08/08/22 19:35
Container ID: 1224155002-C
Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row includes Hardness as CaCO3.

Batch Information

Analytical Batch: MMS11624
Analytical Method: SM21 2340B
Analyst: HGS
Analytical Date/Time: 08/08/22 19:35
Container ID: 1224155002-C
Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of **RM 40**

Client Sample ID: **RM 40**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155002
Lab Project ID: 1224155

Collection Date: 07/20/22 11:00
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	1.00 U	1.00	0.400	mg/L	1		07/26/22 17:53

Batch Information

Analytical Batch: WTC3209
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/26/22 17:53
Container ID: 1224155002-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	58.0	10.0	3.10	mg/L	1		07/26/22 13:15

Batch Information

Analytical Batch: STS7331
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/26/22 13:15
Container ID: 1224155002-B

Print Date: 08/24/2022 2:26:26PM



Results of **RM 20.75**

Client Sample ID: **RM 20.75**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155003
Lab Project ID: 1224155

Collection Date: 07/19/22 14:05
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Calcium	14100	500	150	ug/L	1		08/08/22 19:38
Copper	3.00 U	3.00	1.00	ug/L	1		08/08/22 19:38
Magnesium	1200	50.0	15.0	ug/L	1		08/08/22 19:38
Zinc	117	10.0	3.10	ug/L	1		08/08/22 19:38

Batch Information

Analytical Batch: MMS11624
Analytical Method: EP200.8
Analyst: HGS
Analytical Date/Time: 08/08/22 19:38
Container ID: 1224155003-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	40.0	5.00	5.00	mg/L	1		08/08/22 19:38

Batch Information

Analytical Batch: MMS11624
Analytical Method: SM21 2340B
Analyst: HGS
Analytical Date/Time: 08/08/22 19:38
Container ID: 1224155003-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of **RM 20.75**

Client Sample ID: **RM 20.75**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155003
Lab Project ID: 1224155

Collection Date: 07/19/22 14:05
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	1.00 U	1.00	0.400	mg/L	1		07/26/22 18:48

Batch Information

Analytical Batch: WTC3209
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/26/22 18:48
Container ID: 1224155003-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	49.0	10.0	3.10	mg/L	1		07/22/22 16:04

Batch Information

Analytical Batch: STS7328
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/22/22 16:04
Container ID: 1224155003-B

Print Date: 08/24/2022 2:26:26PM



Results of RM 19

Client Sample ID: **RM 19**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155004
Lab Project ID: 1224155

Collection Date: 07/20/22 12:30
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Calcium	17100	500	150	ug/L	1		08/08/22 19:40
Copper	3.00 U	3.00	1.00	ug/L	1		08/08/22 19:40
Magnesium	4220	50.0	15.0	ug/L	1		08/08/22 19:40
Zinc	68.4	10.0	3.10	ug/L	1		08/08/22 19:40

Batch Information

Analytical Batch: MMS11624
Analytical Method: EP200.8
Analyst: HGS
Analytical Date/Time: 08/08/22 19:40
Container ID: 1224155004-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	60.0	5.00	5.00	mg/L	1		08/08/22 19:40

Batch Information

Analytical Batch: MMS11624
Analytical Method: SM21 2340B
Analyst: HGS
Analytical Date/Time: 08/08/22 19:40
Container ID: 1224155004-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of **RM 19**

Client Sample ID: **RM 19**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155004
Lab Project ID: 1224155

Collection Date: 07/20/22 12:30
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	7.69	1.00	0.400	mg/L	1		07/26/22 19:05

Batch Information

Analytical Batch: WTC3209
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/26/22 19:05
Container ID: 1224155004-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	102	10.0	3.10	mg/L	1		07/26/22 13:15

Batch Information

Analytical Batch: STS7331
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/26/22 13:15
Container ID: 1224155004-B

Print Date: 08/24/2022 2:26:26PM



Results of RM 76

Client Sample ID: RM 76
Client Project ID: Kenai River Metals Monitoring
Lab Sample ID: 1224155005
Lab Project ID: 1224155

Collection Date: 07/20/22 09:44
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Metals by ICP/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Calcium, Copper, Magnesium, and Zinc.

Batch Information

Analytical Batch: MMS11624
Analytical Method: EP200.8
Analyst: HGS
Analytical Date/Time: 08/08/22 19:43
Container ID: 1224155005-C
Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row includes Hardness as CaCO3.

Batch Information

Analytical Batch: MMS11624
Analytical Method: SM21 2340B
Analyst: HGS
Analytical Date/Time: 08/08/22 19:43
Container ID: 1224155005-C
Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of **RM 76**

Client Sample ID: **RM 76**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155005
Lab Project ID: 1224155

Collection Date: 07/20/22 09:44
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	1.00 U	1.00	0.400	mg/L	1		07/26/22 19:19

Batch Information

Analytical Batch: WTC3209
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/26/22 19:19
Container ID: 1224155005-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	65.0	10.0	3.10	mg/L	1		07/26/22 13:15

Batch Information

Analytical Batch: STS7331
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/26/22 13:15
Container ID: 1224155005-B

Print Date: 08/24/2022 2:26:26PM



Results of **RM 76 DUP**

Client Sample ID: **RM 76 DUP**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155006
Lab Project ID: 1224155

Collection Date: 07/20/22 09:44
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Calcium	18000	500	150	ug/L	1		08/08/22 19:46
Copper	3.00 U	3.00	1.00	ug/L	1		08/08/22 19:46
Magnesium	1210	50.0	15.0	ug/L	1		08/08/22 19:46
Zinc	23.0	10.0	3.10	ug/L	1		08/08/22 19:46

Batch Information

Analytical Batch: MMS11624
Analytical Method: EP200.8
Analyst: HGS
Analytical Date/Time: 08/08/22 19:46
Container ID: 1224155006-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	50.0	5.00	5.00	mg/L	1		08/08/22 19:46

Batch Information

Analytical Batch: MMS11624
Analytical Method: SM21 2340B
Analyst: HGS
Analytical Date/Time: 08/08/22 19:46
Container ID: 1224155006-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of **RM 76 DUP**

Client Sample ID: **RM 76 DUP**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155006
Lab Project ID: 1224155

Collection Date: 07/20/22 09:44
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	1.00 U	1.00	0.400	mg/L	1		07/26/22 19:37

Batch Information

Analytical Batch: WTC3209
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/26/22 19:37
Container ID: 1224155006-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	59.0	10.0	3.10	mg/L	1		07/26/22 13:15

Batch Information

Analytical Batch: STS7331
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/26/22 13:15
Container ID: 1224155006-B

Print Date: 08/24/2022 2:26:26PM



Results of **RM 31**

Client Sample ID: **RM 31**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155007
Lab Project ID: 1224155

Collection Date: 07/20/22 11:30
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Calcium	14400	500	150	ug/L	1		08/08/22 19:54
Copper	3.00 U	3.00	1.00	ug/L	1		08/08/22 19:54
Magnesium	1180	50.0	15.0	ug/L	1		08/08/22 19:54
Zinc	54.3	10.0	3.10	ug/L	1		08/08/22 19:54

Batch Information

Analytical Batch: MMS11624
Analytical Method: EP200.8
Analyst: HGS
Analytical Date/Time: 08/08/22 19:54
Container ID: 1224155007-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	40.8	5.00	5.00	mg/L	1		08/08/22 19:54

Batch Information

Analytical Batch: MMS11624
Analytical Method: SM21 2340B
Analyst: HGS
Analytical Date/Time: 08/08/22 19:54
Container ID: 1224155007-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of **RM 31**

Client Sample ID: **RM 31**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155007
Lab Project ID: 1224155

Collection Date: 07/20/22 11:30
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	1.00 U	1.00	0.400	mg/L	1		07/27/22 15:37

Batch Information

Analytical Batch: WTC3210
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/27/22 15:37
Container ID: 1224155007-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	55.0	10.0	3.10	mg/L	1		07/26/22 13:15

Batch Information

Analytical Batch: STS7331
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/26/22 13:15
Container ID: 1224155007-B

Print Date: 08/24/2022 2:26:26PM



Results of **RM 19.1**

Client Sample ID: **RM 19.1**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155008
Lab Project ID: 1224155

Collection Date: 07/19/22 13:55
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Calcium	16000	2500	750	ug/L	5		08/19/22 14:20
Copper	15.0 U	15.0	5.00	ug/L	5		08/19/22 14:20
Magnesium	1190	250	75.0	ug/L	5		08/19/22 14:20
Zinc	96.8	50.0	15.5	ug/L	5		08/19/22 14:20

Batch Information

Analytical Batch: MMS11640
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 08/19/22 14:20
Container ID: 1224155008-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	44.8	25.0	25.0	mg/L	5		08/19/22 14:20

Batch Information

Analytical Batch: MMS11640
Analytical Method: SM21 2340B
Analyst: DSD
Analytical Date/Time: 08/19/22 14:20
Container ID: 1224155008-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of **RM 19.1**

Client Sample ID: **RM 19.1**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155008
Lab Project ID: 1224155

Collection Date: 07/19/22 13:55
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	1.00 U	1.00	0.400	mg/L	1		07/27/22 15:57

Batch Information

Analytical Batch: WTC3210
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/27/22 15:57
Container ID: 1224155008-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	47.0	10.0	3.10	mg/L	1		07/22/22 16:04

Batch Information

Analytical Batch: STS7328
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/22/22 16:04
Container ID: 1224155008-B

Print Date: 08/24/2022 2:26:26PM



Results of Field Blank

Client Sample ID: **Field Blank**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1224155009
 Lab Project ID: 1224155

Collection Date: 07/20/22 12:50
 Received Date: 07/21/22 15:30
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Calcium	500 U	500	150	ug/L	1		08/08/22 19:59
Copper	3.00 U	3.00	1.00	ug/L	1		08/08/22 19:59
Magnesium	50.0 U	50.0	15.0	ug/L	1		08/08/22 19:59
Zinc	62.3	10.0	3.10	ug/L	1		08/08/22 19:59

Batch Information

Analytical Batch: MMS11624
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 08/08/22 19:59
 Container ID: 1224155009-C

Prep Batch: MXX35300
 Prep Method: E200.2
 Prep Date/Time: 08/01/22 11:40
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	5.00 U	5.00	5.00	mg/L	1		08/08/22 19:59

Batch Information

Analytical Batch: MMS11624
 Analytical Method: SM21 2340B
 Analyst: HGS
 Analytical Date/Time: 08/08/22 19:59
 Container ID: 1224155009-C

Prep Batch: MXX35300
 Prep Method: E200.2
 Prep Date/Time: 08/01/22 11:40
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of Field Blank

Client Sample ID: **Field Blank**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155009
Lab Project ID: 1224155

Collection Date: 07/20/22 12:50
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	1.00 U	1.00	0.400	mg/L	1		07/27/22 16:13

Batch Information

Analytical Batch: WTC3210
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/27/22 16:13
Container ID: 1224155009-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	10.0 U	10.0	3.10	mg/L	1		07/22/22 16:04

Batch Information

Analytical Batch: STS7328
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/22/22 16:04
Container ID: 1224155009-B

Print Date: 08/24/2022 2:26:26PM



Results of **RM 12.75**

Client Sample ID: **RM 12.75**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155010
Lab Project ID: 1224155

Collection Date: 07/19/22 13:20
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Calcium	14000	500	150	ug/L	1		08/08/22 20:02
Copper	3.00 U	3.00	1.00	ug/L	1		08/08/22 20:02
Magnesium	1210	50.0	15.0	ug/L	1		08/08/22 20:02
Zinc	127	10.0	3.10	ug/L	1		08/08/22 20:02

Batch Information

Analytical Batch: MMS11624
Analytical Method: EP200.8
Analyst: HGS
Analytical Date/Time: 08/08/22 20:02
Container ID: 1224155010-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	39.8	5.00	5.00	mg/L	1		08/08/22 20:02

Batch Information

Analytical Batch: MMS11624
Analytical Method: SM21 2340B
Analyst: HGS
Analytical Date/Time: 08/08/22 20:02
Container ID: 1224155010-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of **RM 12.75**

Client Sample ID: **RM 12.75**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155010
Lab Project ID: 1224155

Collection Date: 07/19/22 13:20
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	1.00 U	1.00	0.400	mg/L	1		07/27/22 16:32

Batch Information

Analytical Batch: WTC3210
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/27/22 16:32
Container ID: 1224155010-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	41.0	10.0	3.10	mg/L	1		07/22/22 16:04

Batch Information

Analytical Batch: STS7328
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/22/22 16:04
Container ID: 1224155010-B

Print Date: 08/24/2022 2:26:26PM



Results of RM 5

Client Sample ID: **RM 5**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155011
Lab Project ID: 1224155

Collection Date: 07/19/22 10:00
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Calcium	14400	500	150	ug/L	1		08/08/22 20:05
Copper	3.00 U	3.00	1.00	ug/L	1		08/08/22 20:05
Magnesium	1550	50.0	15.0	ug/L	1		08/08/22 20:05
Zinc	58.2	10.0	3.10	ug/L	1		08/08/22 20:05

Batch Information

Analytical Batch: MMS11624
Analytical Method: EP200.8
Analyst: HGS
Analytical Date/Time: 08/08/22 20:05
Container ID: 1224155011-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	42.3	5.00	5.00	mg/L	1		08/08/22 20:05

Batch Information

Analytical Batch: MMS11624
Analytical Method: SM21 2340B
Analyst: HGS
Analytical Date/Time: 08/08/22 20:05
Container ID: 1224155011-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of **RM 5**

Client Sample ID: **RM 5**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155011
Lab Project ID: 1224155

Collection Date: 07/19/22 10:00
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	1.00 U	1.00	0.400	mg/L	1		07/27/22 16:47

Batch Information

Analytical Batch: WTC3210
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/27/22 16:47
Container ID: 1224155011-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	53.0	10.0	3.10	mg/L	1		07/22/22 16:04

Batch Information

Analytical Batch: STS7328
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/22/22 16:04
Container ID: 1224155011-B

Print Date: 08/24/2022 2:26:26PM



Results of RM 5 DUP

Client Sample ID: **RM 5 DUP**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155012
Lab Project ID: 1224155

Collection Date: 07/19/22 10:00
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Calcium	14300	500	150	ug/L	1		08/08/22 20:07
Copper	3.00 U	3.00	1.00	ug/L	1		08/08/22 20:07
Magnesium	1530	50.0	15.0	ug/L	1		08/08/22 20:07
Zinc	91.0	10.0	3.10	ug/L	1		08/08/22 20:07

Batch Information

Analytical Batch: MMS11624
Analytical Method: EP200.8
Analyst: HGS
Analytical Date/Time: 08/08/22 20:07
Container ID: 1224155012-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	42.0	5.00	5.00	mg/L	1		08/08/22 20:07

Batch Information

Analytical Batch: MMS11624
Analytical Method: SM21 2340B
Analyst: HGS
Analytical Date/Time: 08/08/22 20:07
Container ID: 1224155012-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of RM 5 DUP

Client Sample ID: **RM 5 DUP**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155012
Lab Project ID: 1224155

Collection Date: 07/19/22 10:00
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	1.00 U	1.00	0.400	mg/L	1		07/27/22 17:01

Batch Information

Analytical Batch: WTC3210
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/27/22 17:01
Container ID: 1224155012-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	55.0	10.0	3.10	mg/L	1		07/22/22 16:04

Batch Information

Analytical Batch: STS7328
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/22/22 16:04
Container ID: 1224155012-B

Print Date: 08/24/2022 2:26:26PM



Results of **RM 23**

Client Sample ID: **RM 23**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155013
Lab Project ID: 1224155

Collection Date: 07/18/22 14:10
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Calcium	14000	500	150	ug/L	1		08/08/22 20:10
Copper	3.00 U	3.00	1.00	ug/L	1		08/08/22 20:10
Magnesium	1210	50.0	15.0	ug/L	1		08/08/22 20:10
Zinc	89.8	10.0	3.10	ug/L	1		08/08/22 20:10

Batch Information

Analytical Batch: MMS11624	Prep Batch: MXX35300
Analytical Method: EP200.8	Prep Method: E200.2
Analyst: HGS	Prep Date/Time: 08/01/22 11:40
Analytical Date/Time: 08/08/22 20:10	Prep Initial Wt./Vol.: 20 mL
Container ID: 1224155013-C	Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	40.0	5.00	5.00	mg/L	1		08/08/22 20:10

Batch Information

Analytical Batch: MMS11624	Prep Batch: MXX35300
Analytical Method: SM21 2340B	Prep Method: E200.2
Analyst: HGS	Prep Date/Time: 08/01/22 11:40
Analytical Date/Time: 08/08/22 20:10	Prep Initial Wt./Vol.: 20 mL
Container ID: 1224155013-C	Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of **RM 23**

Client Sample ID: **RM 23**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155013
Lab Project ID: 1224155

Collection Date: 07/18/22 14:10
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	1.00 U	1.00	0.400	mg/L	1		07/27/22 17:16

Batch Information

Analytical Batch: WTC3210
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/27/22 17:16
Container ID: 1224155013-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	49.0	10.0	3.10	mg/L	1		07/22/22 16:04

Batch Information

Analytical Batch: STS7328
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/22/22 16:04
Container ID: 1224155013-B

Print Date: 08/24/2022 2:26:26PM



Results of **RM 10.1**

Client Sample ID: **RM 10.1**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155014
Lab Project ID: 1224155

Collection Date: 07/18/22 10:50
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Calcium	14100	500	150	ug/L	1		08/08/22 20:13
Copper	3.00 U	3.00	1.00	ug/L	1		08/08/22 20:13
Magnesium	1260	50.0	15.0	ug/L	1		08/08/22 20:13
Zinc	136	10.0	3.10	ug/L	1		08/08/22 20:13

Batch Information

Analytical Batch: MMS11624
Analytical Method: EP200.8
Analyst: HGS
Analytical Date/Time: 08/08/22 20:13
Container ID: 1224155014-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	40.5	5.00	5.00	mg/L	1		08/08/22 20:13

Batch Information

Analytical Batch: MMS11624
Analytical Method: SM21 2340B
Analyst: HGS
Analytical Date/Time: 08/08/22 20:13
Container ID: 1224155014-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of **RM 10.1**

Client Sample ID: **RM 10.1**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155014
Lab Project ID: 1224155

Collection Date: 07/18/22 10:50
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	1.00 U	1.00	0.400	mg/L	1		07/27/22 17:30

Batch Information

Analytical Batch: WTC3210
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/27/22 17:30
Container ID: 1224155014-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	54.0	10.0	3.10	mg/L	1		07/22/22 16:04

Batch Information

Analytical Batch: STS7328
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/22/22 16:04
Container ID: 1224155014-B

Print Date: 08/24/2022 2:26:26PM



Results of **RM 10.1 DUP**

Client Sample ID: **RM 10.1 DUP**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155015
Lab Project ID: 1224155

Collection Date: 07/18/22 10:50
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Calcium	14100	500	150	ug/L	1		08/08/22 18:38
Copper	3.00 U	3.00	1.00	ug/L	1		08/08/22 18:38
Magnesium	1310	50.0	15.0	ug/L	1		08/08/22 18:38
Zinc	33.6	10.0	3.10	ug/L	1		08/08/22 18:38

Batch Information

Analytical Batch: MMS11624
Analytical Method: EP200.8
Analyst: HGS
Analytical Date/Time: 08/08/22 18:38
Container ID: 1224155015-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	40.5	5.00	5.00	mg/L	1		08/08/22 18:38

Batch Information

Analytical Batch: MMS11624
Analytical Method: SM21 2340B
Analyst: HGS
Analytical Date/Time: 08/08/22 18:38
Container ID: 1224155015-C

Prep Batch: MXX35300
Prep Method: E200.2
Prep Date/Time: 08/01/22 11:40
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of **RM 10.1 DUP**

Client Sample ID: **RM 10.1 DUP**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155015
Lab Project ID: 1224155

Collection Date: 07/18/22 10:50
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	1.00 U	1.00	0.400	mg/L	1		07/27/22 18:21

Batch Information

Analytical Batch: WTC3210
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/27/22 18:21
Container ID: 1224155015-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	53.0	10.0	3.10	mg/L	1		07/22/22 16:04

Batch Information

Analytical Batch: STS7328
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/22/22 16:04
Container ID: 1224155015-B

Print Date: 08/24/2022 2:26:26PM



Results of **RM 21.1**

Client Sample ID: **RM 21.1**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155016
Lab Project ID: 1224155

Collection Date: 07/18/22 14:50
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Calcium	12600	500	150	ug/L	1		08/14/22 01:19
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 01:19
Magnesium	1210	50.0	15.0	ug/L	1		08/14/22 01:19
Zinc	10.0 U	10.0	3.10	ug/L	1		08/14/22 01:19

Batch Information

Analytical Batch: MMS11632
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 08/14/22 01:19
Container ID: 1224155016-C

Prep Batch: MXX35312
Prep Method: E200.2
Prep Date/Time: 08/03/22 10:58
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	36.6	5.00	5.00	mg/L	1		08/14/22 01:19

Batch Information

Analytical Batch: MMS11632
Analytical Method: SM21 2340B
Analyst: DSD
Analytical Date/Time: 08/14/22 01:19
Container ID: 1224155016-C

Prep Batch: MXX35312
Prep Method: E200.2
Prep Date/Time: 08/03/22 10:58
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of **RM 21.1**

Client Sample ID: **RM 21.1**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155016
Lab Project ID: 1224155

Collection Date: 07/18/22 14:50
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	1.00 U	1.00	0.400	mg/L	1		07/27/22 18:34

Batch Information

Analytical Batch: WTC3210
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/27/22 18:34
Container ID: 1224155016-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	50.0	10.0	3.10	mg/L	1		07/22/22 16:04

Batch Information

Analytical Batch: STS7328
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/22/22 16:04
Container ID: 1224155016-B

Print Date: 08/24/2022 2:26:26PM



Results of **RM 21.1 DUP**

Client Sample ID: **RM 21.1 DUP**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155017
Lab Project ID: 1224155

Collection Date: 07/18/22 14:50
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Calcium	12500	500	150	ug/L	1		08/14/22 01:30
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 01:30
Magnesium	1200	50.0	15.0	ug/L	1		08/14/22 01:30
Zinc	10.0 U	10.0	3.10	ug/L	1		08/14/22 01:30

Batch Information

Analytical Batch: MMS11632
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 08/14/22 01:30
Container ID: 1224155017-C

Prep Batch: MXX35312
Prep Method: E200.2
Prep Date/Time: 08/03/22 10:58
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	36.2	5.00	5.00	mg/L	1		08/14/22 01:30

Batch Information

Analytical Batch: MMS11632
Analytical Method: SM21 2340B
Analyst: DSD
Analytical Date/Time: 08/14/22 01:30
Container ID: 1224155017-C

Prep Batch: MXX35312
Prep Method: E200.2
Prep Date/Time: 08/03/22 10:58
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of **RM 21.1 DUP**

Client Sample ID: **RM 21.1 DUP**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155017
Lab Project ID: 1224155

Collection Date: 07/18/22 14:50
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	1.00 U	1.00	0.400	mg/L	1		07/27/22 18:48

Batch Information

Analytical Batch: WTC3210
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/27/22 18:48
Container ID: 1224155017-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	52.0	10.0	3.10	mg/L	1		07/22/22 16:04

Batch Information

Analytical Batch: STS7328
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/22/22 16:04
Container ID: 1224155017-B

Print Date: 08/24/2022 2:26:26PM



Results of **RM 21**

Client Sample ID: **RM 21**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155018
Lab Project ID: 1224155

Collection Date: 07/18/22 15:00
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Calcium	12400	500	150	ug/L	1		08/14/22 01:33
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 01:33
Magnesium	1190	50.0	15.0	ug/L	1		08/14/22 01:33
Zinc	29.3	10.0	3.10	ug/L	1		08/14/22 01:33

Batch Information

Analytical Batch: MMS11632
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 08/14/22 01:33
Container ID: 1224155018-C

Prep Batch: MXX35312
Prep Method: E200.2
Prep Date/Time: 08/03/22 10:58
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	35.8	5.00	5.00	mg/L	1		08/14/22 01:33

Batch Information

Analytical Batch: MMS11632
Analytical Method: SM21 2340B
Analyst: DSD
Analytical Date/Time: 08/14/22 01:33
Container ID: 1224155018-C

Prep Batch: MXX35312
Prep Method: E200.2
Prep Date/Time: 08/03/22 10:58
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of **RM 21**

Client Sample ID: **RM 21**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155018
Lab Project ID: 1224155

Collection Date: 07/18/22 15:00
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
TOC Average, Dissolved	1.00 U	1.00	0.400	mg/L	1		07/27/22 19:01

Batch Information

Analytical Batch: WTC3210
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 07/27/22 19:01
Container ID: 1224155018-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	56.0	10.0	3.10	mg/L	1		07/22/22 16:04

Batch Information

Analytical Batch: STS7328
Analytical Method: SM21 2540C
Analyst: EBH
Analytical Date/Time: 07/22/22 16:04
Container ID: 1224155018-B

Print Date: 08/24/2022 2:26:26PM



Results of RM 70

Client Sample ID: **RM 70**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1224155019
 Lab Project ID: 1224155

Collection Date: 07/20/22 10:14
 Received Date: 07/21/22 15:30
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/14/22 01:36
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/14/22 01:36
Calcium	16200	500	150	ug/L	1		08/14/22 01:36
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 01:36
Lead	2.00 U	2.00	0.500	ug/L	1		08/14/22 01:36
Magnesium	1160	50.0	15.0	ug/L	1		08/14/22 01:36
Potassium	511	500	150	ug/L	1		08/14/22 01:36
Selenium	5.00 U	5.00	1.50	ug/L	1		08/14/22 01:36
Sodium	1410	500	150	ug/L	1		08/14/22 01:36
Zinc	41.2	10.0	3.10	ug/L	1		08/14/22 01:36

Batch Information

Analytical Batch: MMS11632
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 08/14/22 01:36
 Container ID: 1224155019-A

Prep Batch: MX35312
 Prep Method: E200.2
 Prep Date/Time: 08/03/22 10:58
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM

Results of RM 40

Client Sample ID: **RM 40**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1224155020
 Lab Project ID: 1224155

Collection Date: 07/20/22 11:00
 Received Date: 07/21/22 15:30
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/14/22 01:44
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/14/22 01:44
Calcium	12400	500	150	ug/L	1		08/14/22 01:44
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 01:44
Lead	2.00 U	2.00	0.500	ug/L	1		08/14/22 01:44
Magnesium	901	50.0	15.0	ug/L	1		08/14/22 01:44
Potassium	746	500	150	ug/L	1		08/14/22 01:44
Selenium	5.00 U	5.00	1.50	ug/L	1		08/14/22 01:44
Sodium	1240	500	150	ug/L	1		08/14/22 01:44
Zinc	50.7	10.0	3.10	ug/L	1		08/14/22 01:44

Batch Information

Analytical Batch: MMS11632
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 08/14/22 01:44
 Container ID: 1224155020-A

Prep Batch: MX35312
 Prep Method: E200.2
 Prep Date/Time: 08/03/22 10:58
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL



Results of RM 20.75

Client Sample ID: **RM 20.75**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1224155021
 Lab Project ID: 1224155

Collection Date: 07/19/22 14:05
 Received Date: 07/21/22 15:30
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Aluminum	28.1	20.0	6.20	ug/L	1		08/14/22 01:46
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/14/22 01:46
Calcium	12300	500	150	ug/L	1		08/14/22 01:46
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 01:46
Lead	2.00 U	2.00	0.500	ug/L	1		08/14/22 01:46
Magnesium	937	50.0	15.0	ug/L	1		08/14/22 01:46
Potassium	753	500	150	ug/L	1		08/14/22 01:46
Selenium	5.00 U	5.00	1.50	ug/L	1		08/14/22 01:46
Sodium	1290	500	150	ug/L	1		08/14/22 01:46
Zinc	28.5	10.0	3.10	ug/L	1		08/14/22 01:46

Batch Information

Analytical Batch: MMS11632
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 08/14/22 01:46
 Container ID: 1224155021-A

Prep Batch: MX35312
 Prep Method: E200.2
 Prep Date/Time: 08/03/22 10:58
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of RM 19

Client Sample ID: **RM 19**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1224155022
 Lab Project ID: 1224155

Collection Date: 07/20/22 12:30
 Received Date: 07/21/22 15:30
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/14/22 01:49
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/14/22 01:49
Calcium	15400	500	150	ug/L	1		08/14/22 01:49
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 01:49
Lead	2.00 U	2.00	0.500	ug/L	1		08/14/22 01:49
Magnesium	4010	50.0	15.0	ug/L	1		08/14/22 01:49
Potassium	1040	500	150	ug/L	1		08/14/22 01:49
Selenium	5.00 U	5.00	1.50	ug/L	1		08/14/22 01:49
Sodium	4680	500	150	ug/L	1		08/14/22 01:49
Zinc	36.2	10.0	3.10	ug/L	1		08/14/22 01:49

Batch Information

Analytical Batch: MMS11632
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 08/14/22 01:49
 Container ID: 1224155022-A

Prep Batch: MXX35312
 Prep Method: E200.2
 Prep Date/Time: 08/03/22 10:58
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM

Results of RM 76

Client Sample ID: **RM 76**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1224155023
 Lab Project ID: 1224155

Collection Date: 07/20/22 09:44
 Received Date: 07/21/22 15:30
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Dissolved Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/14/22 01:52
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/14/22 01:52
Calcium	15900	500	150	ug/L	1		08/14/22 01:52
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 01:52
Lead	2.00 U	2.00	0.500	ug/L	1		08/14/22 01:52
Magnesium	1140	50.0	15.0	ug/L	1		08/14/22 01:52
Potassium	513	500	150	ug/L	1		08/14/22 01:52
Selenium	5.00 U	5.00	1.50	ug/L	1		08/14/22 01:52
Sodium	1350	500	150	ug/L	1		08/14/22 01:52
Zinc	10.0 U	10.0	3.10	ug/L	1		08/14/22 01:52

Batch Information

Analytical Batch: MMS11632
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 08/14/22 01:52
 Container ID: 1224155023-A

Prep Batch: MX35312
 Prep Method: E200.2
 Prep Date/Time: 08/03/22 10:58
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL



Results of RM 76 DUP

Client Sample ID: **RM 76 DUP**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155024
Lab Project ID: 1224155

Collection Date: 07/20/22 09:44
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/14/22 01:54
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/14/22 01:54
Calcium	15900	500	150	ug/L	1		08/14/22 01:54
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 01:54
Lead	2.00 U	2.00	0.500	ug/L	1		08/14/22 01:54
Magnesium	1140	50.0	15.0	ug/L	1		08/14/22 01:54
Potassium	516	500	150	ug/L	1		08/14/22 01:54
Selenium	5.00 U	5.00	1.50	ug/L	1		08/14/22 01:54
Sodium	1360	500	150	ug/L	1		08/14/22 01:54
Zinc	39.2	10.0	3.10	ug/L	1		08/14/22 01:54

Batch Information

Analytical Batch: MMS11632
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 08/14/22 01:54
Container ID: 1224155024-A

Prep Batch: MX35312
Prep Method: E200.2
Prep Date/Time: 08/03/22 10:58
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM



Results of RM 31

Client Sample ID: **RM 31**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1224155025
 Lab Project ID: 1224155

Collection Date: 07/20/22 11:30
 Received Date: 07/21/22 15:30
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/14/22 01:57
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/14/22 01:57
Calcium	12700	500	150	ug/L	1		08/14/22 01:57
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 01:57
Lead	2.00 U	2.00	0.500	ug/L	1		08/14/22 01:57
Magnesium	984	50.0	15.0	ug/L	1		08/14/22 01:57
Potassium	778	500	150	ug/L	1		08/14/22 01:57
Selenium	5.00 U	5.00	1.50	ug/L	1		08/14/22 01:57
Sodium	1350	500	150	ug/L	1		08/14/22 01:57
Zinc	28.6	10.0	3.10	ug/L	1		08/14/22 01:57

Batch Information

Analytical Batch: MMS11632
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 08/14/22 01:57
 Container ID: 1224155025-A

Prep Batch: MX35312
 Prep Method: E200.2
 Prep Date/Time: 08/03/22 10:58
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM

Results of RM 19.1

Client Sample ID: **RM 19.1**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1224155026
 Lab Project ID: 1224155

Collection Date: 07/19/22 13:55
 Received Date: 07/21/22 15:30
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Dissolved Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	31.1	20.0	6.20	ug/L	1		08/14/22 02:00
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/14/22 02:00
Calcium	12400	500	150	ug/L	1		08/14/22 02:00
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 02:00
Lead	2.00 U	2.00	0.500	ug/L	1		08/14/22 02:00
Magnesium	947	50.0	15.0	ug/L	1		08/14/22 02:00
Potassium	767	500	150	ug/L	1		08/14/22 02:00
Selenium	5.00 U	5.00	1.50	ug/L	1		08/14/22 02:00
Sodium	1310	500	150	ug/L	1		08/14/22 02:00
Zinc	42.0	10.0	3.10	ug/L	1		08/14/22 02:00

Batch Information

Analytical Batch: MMS11632
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 08/14/22 02:00
 Container ID: 1224155026-A

Prep Batch: MX35312
 Prep Method: E200.2
 Prep Date/Time: 08/03/22 10:58
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Results of Field Blank

Client Sample ID: **Field Blank**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1224155027
 Lab Project ID: 1224155

Collection Date: 07/20/22 12:50
 Received Date: 07/21/22 15:30
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Aluminum	20.0 U	20.0	6.20	ug/L	1		08/14/22 02:03
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/14/22 02:03
Calcium	500 U	500	150	ug/L	1		08/14/22 02:03
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 02:03
Lead	2.00 U	2.00	0.500	ug/L	1		08/14/22 02:03
Magnesium	50.0 U	50.0	15.0	ug/L	1		08/14/22 02:03
Potassium	500 U	500	150	ug/L	1		08/14/22 02:03
Selenium	5.00 U	5.00	1.50	ug/L	1		08/14/22 02:03
Sodium	500 U	500	150	ug/L	1		08/14/22 02:03
Zinc	86.8	10.0	3.10	ug/L	1		08/14/22 02:03

Batch Information

Analytical Batch: MMS11632
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 08/14/22 02:03
 Container ID: 1224155027-A

Prep Batch: MX35312
 Prep Method: E200.2
 Prep Date/Time: 08/03/22 10:58
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL



Results of RM 12.75

Client Sample ID: **RM 12.75**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155028
Lab Project ID: 1224155

Collection Date: 07/19/22 13:20
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Aluminum	24.9	20.0	6.20	ug/L	1		08/14/22 02:05
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/14/22 02:05
Calcium	12300	500	150	ug/L	1		08/14/22 02:05
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 02:05
Lead	2.00 U	2.00	0.500	ug/L	1		08/14/22 02:05
Magnesium	941	50.0	15.0	ug/L	1		08/14/22 02:05
Potassium	767	500	150	ug/L	1		08/14/22 02:05
Selenium	5.00 U	5.00	1.50	ug/L	1		08/14/22 02:05
Sodium	1300	500	150	ug/L	1		08/14/22 02:05
Zinc	53.8	10.0	3.10	ug/L	1		08/14/22 02:05

Batch Information

Analytical Batch: MMS11632
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 08/14/22 02:05
Container ID: 1224155028-A

Prep Batch: MX35312
Prep Method: E200.2
Prep Date/Time: 08/03/22 10:58
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM

Results of RM 5

Client Sample ID: **RM 5**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1224155029
 Lab Project ID: 1224155

Collection Date: 07/19/22 10:00
 Received Date: 07/21/22 15:30
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Dissolved Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	43.6	20.0	6.20	ug/L	1		08/14/22 02:08
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/14/22 02:08
Calcium	12400	500	150	ug/L	1		08/14/22 02:08
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 02:08
Lead	2.00 U	2.00	0.500	ug/L	1		08/14/22 02:08
Magnesium	1050	50.0	15.0	ug/L	1		08/14/22 02:08
Potassium	837	500	150	ug/L	1		08/14/22 02:08
Selenium	5.00 U	5.00	1.50	ug/L	1		08/14/22 02:08
Sodium	1850	500	150	ug/L	1		08/14/22 02:08
Zinc	10.5	10.0	3.10	ug/L	1		08/14/22 02:08

Batch Information

Analytical Batch: MMS11632
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 08/14/22 02:08
 Container ID: 1224155029-A

Prep Batch: MX35312
 Prep Method: E200.2
 Prep Date/Time: 08/03/22 10:58
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL



Results of RM 5 DUP

Client Sample ID: **RM 5 DUP**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1224155030
 Lab Project ID: 1224155

Collection Date: 07/19/22 10:00
 Received Date: 07/21/22 15:30
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Aluminum	46.9	20.0	6.20	ug/L	1		08/14/22 02:16
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/14/22 02:16
Calcium	12500	500	150	ug/L	1		08/14/22 02:16
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 02:16
Lead	2.00 U	2.00	0.500	ug/L	1		08/14/22 02:16
Magnesium	1060	50.0	15.0	ug/L	1		08/14/22 02:16
Potassium	843	500	150	ug/L	1		08/14/22 02:16
Selenium	5.00 U	5.00	1.50	ug/L	1		08/14/22 02:16
Sodium	1870	500	150	ug/L	1		08/14/22 02:16
Zinc	19.6	10.0	3.10	ug/L	1		08/14/22 02:16

Batch Information

Analytical Batch: MMS11632
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 08/14/22 02:16
 Container ID: 1224155030-A

Prep Batch: MX35312
 Prep Method: E200.2
 Prep Date/Time: 08/03/22 10:58
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM

Results of RM 23

Client Sample ID: **RM 23**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1224155031
 Lab Project ID: 1224155

Collection Date: 07/18/22 14:10
 Received Date: 07/21/22 15:30
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Dissolved Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	21.1	20.0	6.20	ug/L	1		08/14/22 02:19
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/14/22 02:19
Calcium	12500	500	150	ug/L	1		08/14/22 02:19
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 02:19
Lead	2.00 U	2.00	0.500	ug/L	1		08/14/22 02:19
Magnesium	946	50.0	15.0	ug/L	1		08/14/22 02:19
Potassium	771	500	150	ug/L	1		08/14/22 02:19
Selenium	5.00 U	5.00	1.50	ug/L	1		08/14/22 02:19
Sodium	1310	500	150	ug/L	1		08/14/22 02:19
Zinc	50.6	10.0	3.10	ug/L	1		08/14/22 02:19

Batch Information

Analytical Batch: MMS11632
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 08/14/22 02:19
 Container ID: 1224155031-A

Prep Batch: MX35312
 Prep Method: E200.2
 Prep Date/Time: 08/03/22 10:58
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Results of RM 10.1

Client Sample ID: **RM 10.1**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1224155032
 Lab Project ID: 1224155

Collection Date: 07/18/22 10:50
 Received Date: 07/21/22 15:30
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Dissolved Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	23.1	20.0	6.20	ug/L	1		08/14/22 02:21
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/14/22 02:21
Calcium	12500	500	150	ug/L	1		08/14/22 02:21
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 02:21
Lead	2.00 U	2.00	0.500	ug/L	1		08/14/22 02:21
Magnesium	964	50.0	15.0	ug/L	1		08/14/22 02:21
Potassium	777	500	150	ug/L	1		08/14/22 02:21
Selenium	5.00 U	5.00	1.50	ug/L	1		08/14/22 02:21
Sodium	1320	500	150	ug/L	1		08/14/22 02:21
Zinc	31.1	10.0	3.10	ug/L	1		08/14/22 02:21

Batch Information

Analytical Batch: MMS11632
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 08/14/22 02:21
 Container ID: 1224155032-A

Prep Batch: MX35312
 Prep Method: E200.2
 Prep Date/Time: 08/03/22 10:58
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL



Results of RM 10.1 DUP

Client Sample ID: **RM 10.1 DUP**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1224155033
 Lab Project ID: 1224155

Collection Date: 07/18/22 10:50
 Received Date: 07/21/22 15:30
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Aluminum	22.4	20.0	6.20	ug/L	1		08/14/22 02:24
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/14/22 02:24
Calcium	12400	500	150	ug/L	1		08/14/22 02:24
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 02:24
Lead	2.00 U	2.00	0.500	ug/L	1		08/14/22 02:24
Magnesium	959	50.0	15.0	ug/L	1		08/14/22 02:24
Potassium	772	500	150	ug/L	1		08/14/22 02:24
Selenium	5.00 U	5.00	1.50	ug/L	1		08/14/22 02:24
Sodium	1320	500	150	ug/L	1		08/14/22 02:24
Zinc	25.4	10.0	3.10	ug/L	1		08/14/22 02:24

Batch Information

Analytical Batch: MMS11632
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 08/14/22 02:24
 Container ID: 1224155033-A

Prep Batch: MX35312
 Prep Method: E200.2
 Prep Date/Time: 08/03/22 10:58
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM

Results of RM 21.1

Client Sample ID: **RM 21.1**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1224155034
 Lab Project ID: 1224155

Collection Date: 07/18/22 14:50
 Received Date: 07/21/22 15:30
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Dissolved Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	41.8	20.0	6.20	ug/L	1		08/14/22 02:27
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/14/22 02:27
Calcium	12300	500	150	ug/L	1		08/14/22 02:27
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 02:27
Lead	2.00 U	2.00	0.500	ug/L	1		08/14/22 02:27
Magnesium	957	50.0	15.0	ug/L	1		08/14/22 02:27
Potassium	770	500	150	ug/L	1		08/14/22 02:27
Selenium	5.00 U	5.00	1.50	ug/L	1		08/14/22 02:27
Sodium	1320	500	150	ug/L	1		08/14/22 02:27
Zinc	10.0 U	10.0	3.10	ug/L	1		08/14/22 02:27

Batch Information

Analytical Batch: MMS11632
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 08/14/22 02:27
 Container ID: 1224155034-A

Prep Batch: MX35312
 Prep Method: E200.2
 Prep Date/Time: 08/03/22 10:58
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL



Results of **RM 21.1 DUP**

Client Sample ID: **RM 21.1 DUP**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1224155035
Lab Project ID: 1224155

Collection Date: 07/18/22 14:50
Received Date: 07/21/22 15:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals by ICP/MS**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Aluminum	44.1	20.0	6.20	ug/L	1		08/14/22 01:25
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/14/22 01:25
Calcium	12400	500	150	ug/L	1		08/14/22 01:25
Copper	3.00 U	3.00	1.00	ug/L	1		08/14/22 01:25
Lead	2.00 U	2.00	0.500	ug/L	1		08/14/22 01:25
Magnesium	971	50.0	15.0	ug/L	1		08/14/22 01:25
Potassium	773	500	150	ug/L	1		08/14/22 01:25
Selenium	5.00 U	5.00	1.50	ug/L	1		08/14/22 01:25
Sodium	1340	500	150	ug/L	1		08/14/22 01:25
Zinc	10.0 U	10.0	3.10	ug/L	1		08/14/22 01:25

Batch Information

Analytical Batch: MMS11632
Analytical Method: EP200.8
Analyst: DSD
Analytical Date/Time: 08/14/22 01:25
Container ID: 1224155035-A

Prep Batch: MX35312
Prep Method: E200.2
Prep Date/Time: 08/03/22 10:58
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:26PM

Results of RM 21

Client Sample ID: **RM 21**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1224155036
 Lab Project ID: 1224155

Collection Date: 07/18/22 15:00
 Received Date: 07/21/22 15:30
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Dissolved Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	38.0	20.0	6.20	ug/L	1		08/05/22 09:14
Cadmium	0.500 U	0.500	0.150	ug/L	1		08/05/22 09:14
Calcium	13000	500	150	ug/L	1		08/05/22 09:14
Copper	3.00 U	3.00	1.00	ug/L	1		08/05/22 09:14
Lead	2.00 U	2.00	0.500	ug/L	1		08/05/22 09:14
Magnesium	939	50.0	15.0	ug/L	1		08/05/22 09:14
Potassium	803	500	150	ug/L	1		08/05/22 09:14
Selenium	5.00 U	5.00	1.50	ug/L	1		08/05/22 09:14
Sodium	1330	500	150	ug/L	1		08/05/22 09:14
Zinc	39.4	10.0	3.10	ug/L	1		08/05/22 09:14

Batch Information

Analytical Batch: MMS11623
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 08/05/22 09:14
 Container ID: 1224155036-A

Prep Batch: MXX35301
 Prep Method: E200.2
 Prep Date/Time: 08/01/22 13:06
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Method Blank

Blank ID: MB for HBN 1840625 [MXX/35300]
 Blank Lab ID: 1676815

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1224155001, 1224155002, 1224155003, 1224155004, 1224155005, 1224155006, 1224155007, 1224155008, 1224155009, 1224155010, 1224155011, 1224155012, 1224155013, 1224155014, 1224155015

Results by EP200.8

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Calcium	250U	500	150	ug/L
Copper	1.50U	3.00	1.00	ug/L
Magnesium	25.0U	50.0	15.0	ug/L
Zinc	5.00U	10.0	3.10	ug/L

Batch Information

Analytical Batch: MMS11624
 Analytical Method: EP200.8
 Instrument: P7 Agilent 7800
 Analyst: HGS
 Analytical Date/Time: 8/8/2022 6:24:00PM

Prep Batch: MXX35300
 Prep Method: E200.2
 Prep Date/Time: 8/1/2022 11:40:13AM
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL



Blank Spike Summary

Blank Spike ID: LCS for HBN 1224155 [MXX35300]

Blank Spike Lab ID: 1676816

Date Analyzed: 08/08/2022 18:27

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1224155001, 1224155002, 1224155003, 1224155004, 1224155005, 1224155006, 1224155007, 1224155008, 1224155009, 1224155010, 1224155011, 1224155012, 1224155013, 1224155014, 1224155015

Results by EP200.8

Parameter	Blank Spike (ug/L)			CL
	Spike	Result	Rec (%)	
Calcium	5000	3590	72 *	(85-115)
Copper	1000	1050	105	(85-115)
Magnesium	5000	5260	105	(85-115)
Zinc	1000	1030	103	(85-115)

Batch Information

Analytical Batch: **MMS11624**

Analytical Method: **EP200.8**

Instrument: **P7 Agilent 7800**

Analyst: **HGS**

Prep Batch: **MXX35300**

Prep Method: **E200.2**

Prep Date/Time: **08/01/2022 11:40**

Spike Init Wt./Vol.: 5000 ug/L Extract Vol: 50 mL

Dupe Init Wt./Vol.: Extract Vol:

Print Date: 08/24/2022 2:26:34PM

Matrix Spike Summary

Original Sample ID: 1676813
 MS Sample ID: 1676818 MS
 MSD Sample ID:

Analysis Date: 08/08/2022 18:32
 Analysis Date: 08/08/2022 18:35
 Analysis Date:
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1224155015

Results by EP200.8

Parameter	Sample	Matrix Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Calcium	47500	5000	51800	85				70-130		
Copper	2.90J	1000	1020	101				70-130		
Magnesium	34100	5000	40200	121				70-130		
Zinc	14.2	1000	1030	101				70-130		

Batch Information

Analytical Batch: MMS11624
 Analytical Method: EP200.8
 Instrument: P7 Agilent 7800
 Analyst: HGS
 Analytical Date/Time: 8/8/2022 6:35:00PM

Prep Batch: MX35300
 Prep Method: DW Digest for Metals on ICP-MS
 Prep Date/Time: 8/1/2022 11:40:13AM
 Prep Initial Wt./Vol.: 20.00mL
 Prep Extract Vol: 50.00mL

Print Date: 08/24/2022 2:26:36PM

Matrix Spike Summary

Original Sample ID: 1676814
 MS Sample ID: 1676819 MS
 MSD Sample ID:

Analysis Date: 08/08/2022 18:38
 Analysis Date: 08/08/2022 18:40
 Analysis Date:
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1224155001, 1224155002, 1224155003, 1224155004, 1224155005, 1224155006, 1224155007,
 1224155008, 1224155009, 1224155010, 1224155011, 1224155012, 1224155013, 1224155014,
 1224155015

Results by EP200.8

Parameter	Sample	Matrix Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Calcium	14100	5000	17400	67 *				70-130		
Copper	1.99J	1000	1050	105				70-130		
Magnesium	1310	5000	6520	104				70-130		
Zinc	33.6	1000	1060	103				70-130		

Batch Information

Analytical Batch: MMS11624
 Analytical Method: EP200.8
 Instrument: P7 Agilent 7800
 Analyst: HGS
 Analytical Date/Time: 8/8/2022 6:40:00PM

Prep Batch: MX335300
 Prep Method: DW Digest for Metals on ICP-MS
 Prep Date/Time: 8/1/2022 11:40:13AM
 Prep Initial Wt./Vol.: 20.00mL
 Prep Extract Vol: 50.00mL

Print Date: 08/24/2022 2:26:36PM

Method Blank

Blank ID: MB for HBN 1840627 [MXX/35301]
 Blank Lab ID: 1676825

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
 1224155036

Results by EP200.8

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Aluminum	10.0U	20.0	6.20	ug/L
Cadmium	0.250U	0.500	0.150	ug/L
Calcium	250U	500	150	ug/L
Copper	1.50U	3.00	1.00	ug/L
Lead	1.00U	2.00	0.500	ug/L
Magnesium	25.0U	50.0	15.0	ug/L
Potassium	250U	500	150	ug/L
Selenium	2.50U	5.00	1.50	ug/L
Sodium	250U	500	150	ug/L
Zinc	12.1*	10.0	3.10	ug/L

Batch Information

Analytical Batch: MMS11623
 Analytical Method: EP200.8
 Instrument: P7 Agilent 7800
 Analyst: DSD
 Analytical Date/Time: 8/5/2022 8:55:00AM

Prep Batch: MXX35301
 Prep Method: E200.2
 Prep Date/Time: 8/1/2022 1:06:15PM
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 08/24/2022 2:26:42PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1224155 [MXX35301]
 Blank Spike Lab ID: 1676826
 Date Analyzed: 08/08/2022 10:26

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1224155036

Results by EP200.8

Parameter	Blank Spike (ug/L)			CL
	Spike	Result	Rec (%)	
Aluminum	1000	980	98	(85-115)
Cadmium	100	98.9	99	(85-115)
Calcium	5000	4480	90	(85-115)
Copper	1000	1050	105	(85-115)
Lead	1000	1020	102	(85-115)
Magnesium	5000	5240	105	(85-115)
Potassium	5000	5150	103	(85-115)
Selenium	1000	1010	101	(85-115)
Sodium	5000	5040	101	(85-115)
Zinc	1000	1030	103	(85-115)

Batch Information

Analytical Batch: **MMS11624**
 Analytical Method: **EP200.8**
 Instrument: **P7 Agilent 7800**
 Analyst: **DSD**

Prep Batch: **MXX35301**
 Prep Method: **E200.2**
 Prep Date/Time: **08/01/2022 13:06**
 Spike Init Wt./Vol.: 1000 ug/L Extract Vol: 50 mL
 Dupe Init Wt./Vol.: Extract Vol:

Matrix Spike Summary

Original Sample ID: 1676824
 MS Sample ID: 1676829 MS
 MSD Sample ID:

Analysis Date: 08/05/2022 9:09
 Analysis Date: 08/05/2022 9:11
 Analysis Date:
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1224155036

Results by EP200.8

Parameter	Sample	Matrix Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Aluminum	8.16J	1000	1040	103				70-130		
Cadmium	0.250U	100	104	104				70-130		
Calcium	1780	5000	6640	97				70-130		
Copper	5.57	1000	1110	110				70-130		
Lead	1.16J	1000	1060	106				70-130		
Magnesium	1910	5000	7460	111				70-130		
Potassium	4320	5000	9770	109				70-130		
Selenium	2.50U	1000	1060	106				70-130		
Sodium	55100	5000	61300	124				70-130		
Zinc	15.3	1000	1090	108				70-130		

Batch Information

Analytical Batch: MMS11623
 Analytical Method: EP200.8
 Instrument: P7 Agilent 7800
 Analyst: DSD
 Analytical Date/Time: 8/5/2022 9:11:44AM

Prep Batch: MXX35301
 Prep Method: DW Digest for Metals on ICP-MS
 Prep Date/Time: 8/1/2022 1:06:15PM
 Prep Initial Wt./Vol.: 20.00mL
 Prep Extract Vol: 50.00mL

Print Date: 08/24/2022 2:26:46PM

Method Blank

Blank ID: MB for HBN 1840726 [MXX/35312]
 Blank Lab ID: 1677232

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1224155016, 1224155017, 1224155018, 1224155019, 1224155020, 1224155021, 1224155022, 1224155023, 1224155024,
 1224155025, 1224155026, 1224155027, 1224155028, 1224155029, 1224155030, 1224155031, 1224155032, 1224155033,
 1224155034, 1224155035

Results by EP200.8

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Aluminum	10.0U	20.0	6.20	ug/L
Cadmium	0.250U	0.500	0.150	ug/L
Calcium	250U	500	150	ug/L
Copper	1.50U	3.00	1.00	ug/L
Lead	1.00U	2.00	0.500	ug/L
Magnesium	25.0U	50.0	15.0	ug/L
Potassium	250U	500	150	ug/L
Selenium	2.50U	5.00	1.50	ug/L
Sodium	250U	500	150	ug/L
Zinc	5.00U	10.0	3.10	ug/L

Batch Information

Analytical Batch: MMS11632
 Analytical Method: EP200.8
 Instrument: P7 Agilent 7800
 Analyst: DSD
 Analytical Date/Time: 8/14/2022 1:11:51AM

Prep Batch: MXX35312
 Prep Method: E200.2
 Prep Date/Time: 8/3/2022 10:58:33AM
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL



Blank Spike Summary

Blank Spike ID: LCS for HBN 1224155 [MXX35312]

Blank Spike Lab ID: 1677233

Date Analyzed: 08/14/2022 01:14

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1224155016, 1224155017, 1224155018, 1224155019, 1224155020, 1224155021, 1224155022, 1224155023, 1224155024, 1224155025, 1224155026, 1224155027, 1224155028, 1224155029, 1224155030, 1224155031, 1224155032, 1224155033, 1224155034, 1224155035

Results by EP200.8

Parameter	Blank Spike (ug/L)			CL
	Spike	Result	Rec (%)	
Aluminum	1000	979	98	(85-115)
Cadmium	100	97.1	97	(85-115)
Calcium	5000	4320	87	(85-115)
Copper	1000	1000	100	(85-115)
Lead	1000	1010	101	(85-115)
Magnesium	5000	5120	102	(85-115)
Potassium	5000	5080	102	(85-115)
Selenium	1000	1010	101	(85-115)
Sodium	5000	4970	99	(85-115)
Zinc	1000	1020	102	(85-115)

Batch Information

Analytical Batch: **MMS11632**
Analytical Method: **EP200.8**
Instrument: **P7 Agilent 7800**
Analyst: **DSD**

Prep Batch: **MXX35312**
Prep Method: **E200.2**
Prep Date/Time: **08/03/2022 10:58**
Spike Init Wt./Vol.: 1000 ug/L Extract Vol: 50 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 08/24/2022 2:26:51PM

Matrix Spike Summary

Original Sample ID: 1224155016
 MS Sample ID: 1677235 MS
 MSD Sample ID:

Analysis Date: 08/14/2022 1:19
 Analysis Date: 08/14/2022 1:22
 Analysis Date:
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1224155016, 1224155035

Results by EP200.8

Parameter	Sample	Matrix Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Calcium	12600	5000	16400	76			70-130			
Copper	3.00U	1000	1010	101			70-130			
Magnesium	1210	5000	6250	101			70-130			
Zinc	10.0U	1000	1020	102			70-130			

Batch Information

Analytical Batch: MMS11632
 Analytical Method: EP200.8
 Instrument: P7 Agilent 7800
 Analyst: DSD
 Analytical Date/Time: 8/14/2022 1:22:38AM

Prep Batch: MX335312
 Prep Method: DW Digest for Metals on ICP-MS
 Prep Date/Time: 8/3/2022 10:58:33AM
 Prep Initial Wt./Vol.: 20.00mL
 Prep Extract Vol: 50.00mL

Print Date: 08/24/2022 2:26:52PM



Matrix Spike Summary

Original Sample ID: 1224155035
MS Sample ID: 1677236 MS
MSD Sample ID:

Analysis Date: 08/14/2022 1:25
Analysis Date: 08/14/2022 1:28
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1224155017, 1224155018, 1224155019, 1224155020, 1224155021, 1224155022, 1224155023, 1224155024, 1224155025, 1224155026, 1224155027, 1224155028, 1224155029, 1224155030, 1224155031, 1224155032, 1224155033, 1224155034, 1224155035

Results by EP200.8

Parameter	Sample	Matrix Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Aluminum	44.1	1000	1040	100				70-130		
Cadmium	0.500U	100	97.4	97				70-130		
Calcium	12400	5000	16300	78				70-130		
Copper	3.00U	1000	1000	100				70-130		
Lead	2.00U	1000	1010	101				70-130		
Magnesium	971	5000	6010	101				70-130		
Potassium	773	5000	5860	102				70-130		
Selenium	5.00U	1000	1010	101				70-130		
Sodium	1340	5000	6210	97				70-130		
Zinc	10.0U	1000	1020	102				70-130		

Batch Information

Analytical Batch: MMS11632
Analytical Method: EP200.8
Instrument: P7 Agilent 7800
Analyst: DSD
Analytical Date/Time: 8/14/2022 1:28:00AM

Prep Batch: MXX35312
Prep Method: DW Digest for Metals on ICP-MS
Prep Date/Time: 8/3/2022 10:58:33AM
Prep Initial Wt./Vol.: 20.00mL
Prep Extract Vol: 50.00mL

Print Date: 08/24/2022 2:26:52PM

Method Blank

Blank ID: MB for HBN 1840234 [STS/7328]

Matrix: Water (Surface, Eff., Ground)

Blank Lab ID: 1674878

QC for Samples:

1224155003, 1224155008, 1224155009, 1224155010, 1224155011, 1224155012, 1224155013, 1224155014, 1224155015, 1224155016, 1224155017, 1224155018

Results by SM21 2540C

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Total Dissolved Solids	5.00U	10.0	3.10	mg/L

Batch Information

Analytical Batch: STS7328

Analytical Method: SM21 2540C

Instrument:

Analyst: EBH

Analytical Date/Time: 7/22/2022 4:04:15PM

Print Date: 08/24/2022 2:26:59PM

Duplicate Sample Summary

Original Sample ID: 1224088001

Duplicate Sample ID: 1674884

QC for Samples:

Analysis Date: 07/22/2022 16:04

Matrix: Drinking Water

Results by SM21 2540C

<u>NAME</u>	<u>Original</u>	<u>Duplicate</u>	<u>Units</u>	<u>RPD (%)</u>	<u>RPD CL</u>
Total Dissolved Solids	106	105	mg/L	0.95	(< 5)

Batch Information

Analytical Batch: STS7328

Analytical Method: SM21 2540C

Instrument:

Analyst: EBH

Print Date: 08/24/2022 2:27:00PM

Duplicate Sample Summary

Original Sample ID: 1224088002

Duplicate Sample ID: 1674885

Analysis Date: 07/22/2022 16:04

Matrix: Drinking Water

QC for Samples:

1224155003, 1224155008, 1224155009, 1224155010, 1224155011, 1224155012, 1224155013, 1224155014, 1224155015, 1224155016, 1224155017, 1224155018

Results by SM21 2540C

<u>NAME</u>	<u>Original</u>	<u>Duplicate</u>	<u>Units</u>	<u>RPD (%)</u>	<u>RPD CL</u>
Total Dissolved Solids	99.0	101	mg/L	2.00	(< 5)

Batch Information

Analytical Batch: STS7328

Analytical Method: SM21 2540C

Instrument:

Analyst: EBH

Print Date: 08/24/2022 2:27:00PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1224155 [STS7328]
 Blank Spike Lab ID: 1674879
 Date Analyzed: 07/22/2022 16:04

Spike Duplicate ID: LCSD for HBN 1224155 [STS7328]
 Spike Duplicate Lab ID: 1674880
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1224155003, 1224155008, 1224155009, 1224155010, 1224155011, 1224155012, 1224155013, 1224155014, 1224155015, 1224155016, 1224155017, 1224155018

Results by SM21 2540C

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Dissolved Solids	333	311	94	333	303	91	(75-125)	2.60	(< 5)

Batch Information

Analytical Batch: **STS7328**
 Analytical Method: **SM21 2540C**
 Instrument:
 Analyst: **EBH**



Method Blank

Blank ID: MB for HBN 1840332 [STS/7331]

Matrix: Water (Surface, Eff., Ground)

Blank Lab ID: 1675350

QC for Samples:

1224155001, 1224155002, 1224155004, 1224155005, 1224155006, 1224155007

Results by SM21 2540C

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Total Dissolved Solids	5.00U	10.0	3.10	mg/L

Batch Information

Analytical Batch: STS7331

Analytical Method: SM21 2540C

Instrument:

Analyst: EBH

Analytical Date/Time: 7/26/2022 1:15:49PM

Print Date: 08/24/2022 2:27:05PM

Duplicate Sample Summary

Original Sample ID: 1224154003

Duplicate Sample ID: 1675385

QC for Samples:

Analysis Date: 07/26/2022 13:15

Matrix: Water (Surface, Eff., Ground)

Results by SM21 2540C

<u>NAME</u>	<u>Original</u>	<u>Duplicate</u>	<u>Units</u>	<u>RPD (%)</u>	<u>RPD CL</u>
Total Dissolved Solids	852	838	mg/L	1.70	(< 5)

Batch Information

Analytical Batch: STS7331

Analytical Method: SM21 2540C

Instrument:

Analyst: EBH

Print Date: 08/24/2022 2:27:06PM



Duplicate Sample Summary

Original Sample ID: 1224154005

Duplicate Sample ID: 1675386

QC for Samples:

1224155001, 1224155002, 1224155004, 1224155005, 1224155006, 1224155007

Analysis Date: 07/26/2022 13:15

Matrix: Water (Surface, Eff., Ground)

Results by SM21 2540C

<u>NAME</u>	<u>Original</u>	<u>Duplicate</u>	<u>Units</u>	<u>RPD (%)</u>	<u>RPD CL</u>
Total Dissolved Solids	826	822	mg/L	0.49	(< 5)

Batch Information

Analytical Batch: STS7331

Analytical Method: SM21 2540C

Instrument:

Analyst: EBH

Print Date: 08/24/2022 2:27:06PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1224155 [STS7331]
 Blank Spike Lab ID: 1675351
 Date Analyzed: 07/26/2022 13:15

Spike Duplicate ID: LCSD for HBN 1224155 [STS7331]
 Spike Duplicate Lab ID: 1675352
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1224155001, 1224155002, 1224155004, 1224155005, 1224155006, 1224155007

Results by SM21 2540C

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Dissolved Solids	333	307	92	333	310	93	(75-125)	0.97	(< 5)

Batch Information

Analytical Batch: **STS7331**
 Analytical Method: **SM21 2540C**
 Instrument:
 Analyst: **EBH**

Print Date: 08/24/2022 2:27:08PM



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CHAIN OF CUSTODY RECORD

Cooler # 1
of 2

368978 cpm

1224155



CLIENT: Alaska Department of Environmental Conservation					Instructions! Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.															
CONTACT: Sarah Apsens					PHONE #: 907 741 1026					Section 3		Preservative								
PROJECT NAME: Kenai River Metals Monitoring					PROJECT/ PWSID/ PERMIT#:					CONTAINERS		Analysis* HNO3								NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS
REPORTS TO: Sarah Apsens					E-MAIL: sarah.apsens@alaska.gov															
INVOICE TO: sarah.apsens@alaska.gov dec.water.contracts@alaska.gov					QUOTE #: NTP 22*384															
					P.O. #: Term contract #18-220-20-2															
RESERVED for lab use		SAMPLE IDENTIFICATION		DATE mm/dd/yy	TIME HH:MM	MATRIX/MATRIX CODE	Grab	DOC 530B	TDS 2540C	200.8 metals 2340B Hardness	200.8 dissolved metals							REMARKS/LOC ID		
1 AC	RM 70	7/20/22	10:14	W	4	X		X	X	X							19 AB			
2 AC	RM 40	7/20/22	11:00		4	X		X	X	X							20 AB			
3 AC	RM 20.75	7/19/22	14:05		4	X		X	X	X							21 AB			
4 AC	RM 19	7/20/22	12:30		4	X		X	X	X							22 AB			
5 AC	RM 76	7/20/22	9:44		4	X		X	X	X							23 AB			
6 AC	RM 76 DUP	7/20/22	9:44		4	X		X	X	X							24 AB			
7 AC	RM 31	7/20/22	11:30		4	X		X	X	X							25 AB			
8 AC	RM 19.1	7/19/22	13:55		4	X		X	X	X							26 AB			
9 AC	Field Blank	7/20/22	12:50		4	X		X	X	X							27 AB			
10 AC	RM 12.75	7/19/22	13:20		4	X	X	X	X							28 AB				
Relinquished By: (1) <i>[Signature]</i>				Date 7/21/22	Time 10:30	Received By:				Section 4		DOD Project? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Data Deliverable Requirements:						
Relinquished By: (2)				Date	Time	Received By:				Cooler ID:										
Relinquished By: (3)				Date	Time	Received By:				Requested Turnaround Time and/or Special Instructions:										
Relinquished By: (4) <i>[Signature]</i>				Date 7/21/22	Time 15:30	Received For Laboratory By: <i>[Signature]</i>				Temp Blank °C: 1) 3.6 D59 or Ambient <input type="checkbox"/> 2) 4.1 D59				Chain of Custody Seal: (Circle) <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT						
Delivery Method: Hand Delivery <input checked="" type="checkbox"/> Commercial Delivery <input type="checkbox"/>																				





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CHAIN OF CUSTODY RECORD

Cooler 2 of 2

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CLIENT: Alaska Department of Environmental Conservation					Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.					Page <u>1</u> of <u>1</u>							
CONTACT: Sarah Apsens					PHONE #: 907 741 1026		Section 3		Preservative								
PROJECT NAME: Kenai River Metals Monitoring					PROJECT/ PWSID/ PERMIT#:		# CONTAINERS Comp Grab MI (Multi-incremental)		HNO3			Analysis* DOC 530B TDS 2540C 200.8 metals 2340B Hardness 200.8 dissolved metals		NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS			
REPORTS TO: Sarah Apsens					E-MAIL: sarah.apsens@alaska.gov				Analysis*					REMARKS/LOC ID			
INVOICE TO: sarah.apsens@alaska.gov dec.water.contracts@alaska.gov					QUOTE #: NTP 22*384 P.O. #: Term contract #18-220-20-2				Analysis*								
RESERVED for lab use	SAMPLE IDENTIFICATION		DATE mm/dd/yy	TIME HH:MM	MATRIX/MATRIX CODE	#	CONTAINERS	Comp	Grab	MI	(Multi-incremental)	DOC 530B	TDS 2540C	200.8 metals 2340B Hardness	200.8 dissolved metals	REMARKS/LOC ID	
11 AC	RM 5		7/19/22	10:00	W	4	↓	Grab	X	X	X	X	X	X	X	29 AB	
12 AC	RM 5 DUP		7/19/22	10:00	↓	↓	↓	↓	X	X	X	X	X	X	X	30 AB	
13 AC	RM 23		7/18/22	14:10	↓	↓	↓	↓	X	X	X	X	X	X	X	31 AB	
14 AC	RM 10.1		7/18/22	10:50	↓	↓	↓	↓	X	X	X	X	X	X	X	32 AB	
15 AC	RM 10.1 DUP		7/18/22	10:50	↓	↓	↓	↓	X	X	X	X	X	X	X	33 AB	
16 AC	RM 21.1		7/18/22	14:50	↓	↓	↓	↓	X	X	X	X	X	X	X	34 AB	
17 AC	RM 21.1 DUP		7/18/22	14:50	↓	↓	↓	↓	X	X	X	X	X	X	X	35 AB	
18 AC	RM 21		7/18/22	15:00	↓	↓	↓	↓	X	X	X	X	X	X	X	36 AB	
Relinquished By: (1) 					Date	Time	Received By: 			Section 4 DOD Project? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Data Deliverable Requirements:					
Relinquished By: (2) 					Date	Time	Received By: 			Cooler ID:		Requested Turnaround Time and/or Special Instructions:					
Relinquished By: (3) 					Date	Time	Received By: 			Temp Blank °C: 1) 3.6 D59 2) 4.1 D59		Chain of Custody Seal: (Circle) <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT					
Relinquished By: (4) 					Date	Time	Received For Laboratory By: 			or Ambient []		Delivery Method: Hand Delivery [] Commercial Delivery <input checked="" type="checkbox"/>					

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SHIPPER'S NAME, ADDRESS & PHONE ARRI DAVIS		SHIPPER'S ACCOUNT NUMBER 9077333474		NOT AIR WAYBILL (AIR CONSIGNMENT NOTE)		 4700 Old International Airport Road Anchorage, Alaska 99502 (907)-243-2761		
CONSIGNEE'S NAME, ADDRESS & PHONE HOMER AK 99603		CONSIGNEE'S ACCOUNT NUMBER 9075622343		It is agreed the goods described herein are accepted in apparent good order and condition (except as noted) SUBJECT TO THE CONDITIONS OF CONTRACT as displayed at the Ravn cargo acceptance counter and online at www.flyravn.com/cargo-services/cargo-resources. ALL GOODS MAY BE CARRIED BY ANY OTHER MEANS INCLUDING ROAD OR OTHER CARRIER UNLESS SPECIFIC CONTRARY INSTRUCTIONS ARE GIVEN HEREON BY THE SHIPPER, AND SHIPPER AGREES THAT THE SHIPMENT MAYBE CARRIED VIA INTERMEDIATE STOPPING PLACES WHICH THE CARRIERS DEEMS APPROPRIATE. THE SHIPPER'S ATTENTION IS DRAWN TO NOTICES IN THE CARRIER'S CONDITIONS OF CONTRACT CONCERNING CARRIER'S LIMIT OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.				
ISSUING CARRIER'S AGENT NAME, CITY & PHONE		AGENT'S IATA CODE		ACCOUNT NO.		Received in Good Order and Condition at _____ Place _____ Date/Time _____ Signature of Consignee or its agent: _____ Printed Name/Title: _____		
AIRPORT OF DEPARTURE Homer		Declared Value \$ 0.00		Insured Amount \$ 0.00		ACCOUNTING INFORMATION 7530550 Card MC 6255 Exp 0326 PO: _____		
ROUTING AND DESTINATION				COMMENTS				
TO _____ BY FIRST CARRIER		TO _____ BY _____		TO _____ BY _____		NDV ADL VRFD		
AIRPORT OF DESTINATION Anchorage		FOR CARRIER USE ONLY		FLIGHT/DATE		FLIGHT/DATE		
No. Of Pieces Rep	Gross Weight	kg lb	Rate Class	Commodity Item No.	Chargeable Weight	Rate/Charge	Total	Nature and Quantity of Goods (Inclu. Dimensions or Volume)
1	11	lb	F	GEN-FRT	1	\$35.00	\$35.00	GEN-SAMPLES
1	11						\$35.00	
PREPAID \$35.00		WEIGHT CHARGE		COLLECT		OTHER CHARGES AND DESCRIPTION		 HAZMAT No HAZMAT NO:
		FEDERAL EXCISE TAX				AMOUNT DESCRIPTION		
\$2.19								
\$0.00		TOTAL OTHER CHARGES DUE AGENT						
\$0.00		TOTAL OTHER CHARGES DUE CARRIER						
TOTAL PREPAID \$37.19		TOTAL COLLECT						
STATION NUMBERS				SHIPPER'S CERTIFICATION:				
ANCHORAGE - (907) 243-2761		HOMER - 907-235-7565		Shipper certifies that (i) the particulars on the face hereof are correct, (ii) insofar as any part of the consignment contains restricted articles, such part is described by name and is in proper condition for carriage by air according to applicable US government regulations and International Air Transport Association's Dangerous Goods Regulation, and (iii) in the event of an payment dispute between Shipper and Consignee, Shipper shall remit any unpaid freight charges within 48 hours of billing by the Carrier.				
ANAK -		KENAI - 907-283-1911		Signature of Shipper or its agent: _____				
BETHEL - 907-543-2685		KING SALMON - 907-346-3372		Printed Name/Title: _____				
COLD BAY - 907-532-2484		SAND POINT - 907-383-6000		Executed on (date) _____ At (place) _____ Signature of Issuing Carrier or its Agent _____				
DEADHORSE -		ST MARYS - 907-543-2685						
DILLINGHAM - 907-842-5557		ST PAUL - 907-546-2460						
DUTCH HARBOR - 907-581-2712		UNALAKLEET - 907-624-3540						
FAIRBANKS - 907-450-7215		VALDEZ - 907-835-2639						

Alert Expeditors Inc.

#420692

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

Date 7 21
From Grant
To _____

Collect <input type="checkbox"/>	Prepay <input type="checkbox"/>	Advance Charges <input type="checkbox"/>
Job #	PO#	

2) Costless	

Shipped Signature _____

Received By: _____ Total Charge _____ 90 of 93



SGS Workorder #:

1224155

1224155

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
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Chain of Custody / Temperature Requirements

Note: Temperature and COC seal information is found on the chain of custody form

DOD only: Did all sample coolers have a corresponding COC? N/A

If <0°C, were sample containers ice free? N/A

Note containers received with ice:

Identify any containers received at non-compliant temperature:

(Use form FS-0029 if more space is needed)

Holding Time / Documentation / Sample Condition Requirement

Note: Refer to form F-083 "Sample Guide" for specific holding times and sample containers.

Were samples received within analytical holding time? Yes

Do sample labels match COC? Record discrepancies. Yes

Note: If information on containers differs from COC, default to COC information for login. If times differ <1hr, record details & login per COC.

Were analytical requests clear? Yes

(i.e. method is specified for analyses with multiple option for method (Eg, BTEX 8021 vs 8260, Metals 6020 vs 200.8)

Were proper containers (type/mass/volume/preservative)used? Yes

Note: Exemption for metals analysis by 200.8/6020 in water.

Volatile Analysis Requirements (VOC, GRO, LL-Hg, etc.)

Were all soil VOAs received with a corresponding % solids container? N/A

Were Trip Blanks (e.g., VOAs, LL-Hg) in cooler with samples? N/A

Were all water VOA vials free of headspace (e.g., bubbles ≤ 6mm)? N/A

Were all soil VOAs field extracted with Methanol+BFB? N/A

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

Additional notes (if applicable):

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.