

**Laboratory Report of Analysis**

To: Kenai Watershed Forum  
44129 Sterling Hwy  
Soldotna, AK 99669

Report Number: **1231846**

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

Dear Benjamin Meyer,

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

If there are any questions about the report or services performed during this project, please call Curtis 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.

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Curtis Whisman  
Project Manager  
curtis.whisman@sgs.com

Date

**Case Narrative**

SGS Client: **Kenai Watershed Forum**  
 SGS Project: **1231846**  
 Project Name/Site: **Kenai River Baseline Water Qua**  
 Project Contact: **Benjamin Meyer**

Refer to sample receipt form for information on sample condition.

**1231784001MSD (1711652) MSD**

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

**MB for HBN 1854932 [MXX/35860] (1712761) MB**

200.8 - Metals analyte Zinc is detected in the MB above the LOQ. The associated sample concentrations are either less than the LOQ or greater than 5 times the concentration in the MB.

**MB for HBN 1856254 [MXX/35877] (1714017) MB**

200.8 - Metals analyte Zinc is detected in the MB above the LOQ. The associated sample concentrations are less than the LOQ or greater than 5 times the concentration in the MB.

200.7 { ^ } were analyzed by SGS of Orlando, FL.

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

Print Date: 06/23/2023 2:56:30PM

### 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 (JDW Chemistry & Microbiology (Provisionally Certified as of 6/05/2023 for Fluoride EPA300.0, Alkalinity SM2320B, Orthophosphate SM4500P-E and Beryllium, Copper and Mercury 200.8) & 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                                     |
| CCC/CVC/CVCA/CVCB | Closing Continuing Calibration Verification                             |
| CL                | Control Limit   |
| DF                | Analytical Dilution Factor  |
| DL                | Detection Limit (i.e., maximum method detection limit)                  |
| E                 | The analyte result is above the calibrated range.                       |
| GT                | Greater Than  |
| IB                | Instrument Blank  |
| ICV               | Initial Calibration Verification  |
| J                 | The quantitation is an estimation.                                      |
| LCS(D)            | Laboratory Control Spike (Duplicate)                                    |
| LLQC/LLIQC        | Low Level Quantitation Check  |
| LOD               | Limit of Detection (i.e., 1/2 of the LOQ)                               |
| LOQ               | Limit of Quantitation (i.e., reporting or practical quantitation limit) |
| LT                | Less Than   |
| MB                | Method Blank  |
| MS(D)             | Matrix Spike (Duplicate)  |
| ND                | Indicates the analyte is not detected.                                  |
| RPD               | Relative Percent Difference   |
| TNTC              | Too Numerous To Count   |
| U                 | Indicates the analyte was analyzed for but not detected.                |

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

**Sample Summary**

| <u>Client Sample ID</u>        | <u>Lab Sample ID</u> | <u>Collected</u> | <u>Received</u> | <u>Matrix</u>                 |
|--------------------------------|----------------------|------------------|-----------------|-------------------------------|
| RM 0 - No Name Creek           | 1231846001           | 05/03/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 1.5 - Kenai City Dock - DUP | 1231846002           | 05/03/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 1.5 - Kenai City Dock       | 1231846003           | 05/03/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 6.5 - Cunningham Park       | 1231846004           | 05/03/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 10 - Beaver Creek           | 1231846005           | 05/03/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 12.5 Pillars                | 1231846006           | 05/03/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 18 - Poacher's Cove         | 1231846007           | 05/03/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 19 - Slikok Creek           | 1231846008           | 05/03/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 21 - Soldotna Bridge        | 1231846009           | 05/03/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 22 - Soldotna Creek         | 1231846010           | 05/02/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 23 - Swiftwater Park        | 1231846011           | 05/02/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 30 - Funny River            | 1231846012           | 05/02/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 31 - Morgan's Landing       | 1231846013           | 05/02/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 36 - Moose River            | 1231846014           | 05/02/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 36 - Moose River-DUP        | 1231846015           | 05/02/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 40 - Bing's Landing         | 1231846016           | 05/02/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 43 - Upstream of Dow Island | 1231846017           | 05/02/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 44 - Mouth of Killey River  | 1231846018           | 05/02/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 50 - Skilak Lake Ourflow    | 1231846019           | 05/02/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 70 - Jim's Landing          | 1231846020           | 05/02/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 74 - Russian River          | 1231846021           | 05/02/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 82 - Kenai Lake Bridge      | 1231846022           | 05/02/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 79.5 - Juneau Creek         | 1231846023           | 05/02/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 0 - No Name Creek-FB        | 1231846024           | 05/02/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |
| RM 12.5 - Pillars - FieldBlank | 1231846025           | 05/02/2023       | 05/04/2023      | Water (Surface, Eff., Ground) |

Method

EP200.8

SM21 4500NO3-F

SM21 4500P-B,E

Method Description

Metals in Drinking Water by ICP-MS DISSO

Nitrate/Nitrite Flow injection Pres.

Total Phosphorus (W)

**Detectable Results Summary**

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

Lab Sample ID: 1231846001

|  | <u>Parameter</u>        | <u>Result</u> | <u>Units</u> |
|--|-------------------------|---------------|--------------|
| <b>Diss. Metals by ICP/MS (Provisional Be,Cu 65)</b> | Copper                  | 2.95J         | ug/L         |
| <b>Dissolved Metals by ICP/MS</b>                    | Cadmium                 | 0.595         | ug/L         |
|  | Chromium                | 24.1          | ug/L         |
|  | Zinc                    | 19.6          | ug/L         |
| <b>Waters Department</b>                             | Total Nitrate/Nitrite-N | 0.294         | mg/L         |
|  | Total Phosphorus        | 0.0237J       | mg/L         |

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

Lab Sample ID: 1231846002

|  | <u>Parameter</u>        | <u>Result</u> | <u>Units</u> |
|--|-------------------------|---------------|--------------|
| <b>Diss. Metals by ICP/MS (Provisional Be,Cu 65)</b> | Copper                  | 276           | ug/L         |
| <b>Dissolved Metals by ICP/MS</b>                    | Chromium                | 3.26J         | ug/L         |
|  | Lead                    | 0.576J        | ug/L         |
|  | Zinc                    | 9.46J         | ug/L         |
| <b>Waters Department</b>                             | Total Nitrate/Nitrite-N | 0.466         | mg/L         |
|  | Total Phosphorus        | 0.315         | mg/L         |

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

Lab Sample ID: 1231846003

|  | <u>Parameter</u>        | <u>Result</u> | <u>Units</u> |
|--|-------------------------|---------------|--------------|
| <b>Diss. Metals by ICP/MS (Provisional Be,Cu 65)</b> | Copper                  | 150           | ug/L         |
| <b>Dissolved Metals by ICP/MS</b>                    | Chromium                | 3.47J         | ug/L         |
|  | Zinc                    | 9.97J         | ug/L         |
| <b>Waters Department</b>                             | Total Nitrate/Nitrite-N | 0.345         | mg/L         |
|  | Total Phosphorus        | 0.339         | mg/L         |

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

Lab Sample ID: 1231846004

|  | <u>Parameter</u>        | <u>Result</u> | <u>Units</u> |
|--|-------------------------|---------------|--------------|
| <b>Diss. Metals by ICP/MS (Provisional Be,Cu 65)</b> | Copper                  | 8.92          | ug/L         |
| <b>Dissolved Metals by ICP/MS</b>                    | Arsenic                 | 2.24J         | ug/L         |
|  | Cadmium                 | 0.494J        | ug/L         |
|  | Lead                    | 0.533J        | ug/L         |
|  | Zinc                    | 8.94J         | ug/L         |
| <b>Waters Department</b>                             | Total Nitrate/Nitrite-N | 0.198J        | mg/L         |
|  | Total Phosphorus        | 0.309         | mg/L         |

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

Lab Sample ID: 1231846005

|  | <u>Parameter</u>        | <u>Result</u> | <u>Units</u> |
|--|-------------------------|---------------|--------------|
| <b>Diss. Metals by ICP/MS (Provisional Be,Cu 65)</b> | Copper                  | 3.60          | ug/L         |
| <b>Dissolved Metals by ICP/MS</b>                    | Arsenic                 | 3.04J         | ug/L         |
|  | Lead                    | 0.732J        | ug/L         |
|  | Zinc                    | 8.73J         | ug/L         |
| <b>Waters Department</b>                             | Total Nitrate/Nitrite-N | 0.0526J       | mg/L         |
|  | Total Phosphorus        | 0.220         | mg/L         |

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**Detectable Results Summary**

 Client Sample ID: **RM 12.5 Pillars**

Lab Sample ID: 1231846006

|  | <u>Parameter</u>        | <u>Result</u> | <u>Units</u> |
|--|-------------------------|---------------|--------------|
| <b>Diss. Metals by ICP/MS (Provisional Be,Cu 65)</b> | Copper                  | 1.45J         | ug/L         |
| <b>Dissolved Metals by ICP/MS</b>                    | Arsenic                 | 2.65J         | ug/L         |
|  | Zinc                    | 7.00J         | ug/L         |
| <b>Waters Department</b>                             | Total Nitrate/Nitrite-N | 0.133J        | mg/L         |
|  | Total Phosphorus        | 0.0509        | mg/L         |

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

Lab Sample ID: 1231846007

|  | <u>Parameter</u>        | <u>Result</u> | <u>Units</u> |
|--|-------------------------|---------------|--------------|
| <b>Diss. Metals by ICP/MS (Provisional Be,Cu 65)</b> | Copper                  | 1.42J         | ug/L         |
| <b>Dissolved Metals by ICP/MS</b>                    | Arsenic                 | 2.34J         | ug/L         |
|  | Zinc                    | 7.47J         | ug/L         |
| <b>Waters Department</b>                             | Total Nitrate/Nitrite-N | 0.161J        | mg/L         |
|  | Total Phosphorus        | 0.0420        | mg/L         |

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

Lab Sample ID: 1231846008

|  | <u>Parameter</u>        | <u>Result</u> | <u>Units</u> |
|--|-------------------------|---------------|--------------|
| <b>Diss. Metals by ICP/MS (Provisional Be,Cu 65)</b> | Copper                  | 1.57J         | ug/L         |
| <b>Dissolved Metals by ICP/MS</b>                    | Arsenic                 | 1.72J         | ug/L         |
|  | Zinc                    | 21.2          | ug/L         |
| <b>Waters Department</b>                             | Total Nitrate/Nitrite-N | 0.113J        | mg/L         |
|  | Total Phosphorus        | 0.0227J       | mg/L         |

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

Lab Sample ID: 1231846009

|  | <u>Parameter</u>        | <u>Result</u> | <u>Units</u> |
|--|-------------------------|---------------|--------------|
| <b>Diss. Metals by ICP/MS (Provisional Be,Cu 65)</b> | Copper                  | 1.13J         | ug/L         |
| <b>Dissolved Metals by ICP/MS</b>                    | Arsenic                 | 1.88J         | ug/L         |
|  | Zinc                    | 12.5          | ug/L         |
| <b>Waters Department</b>                             | Total Nitrate/Nitrite-N | 0.146J        | mg/L         |
|  | Total Phosphorus        | 0.0316J       | mg/L         |

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

Lab Sample ID: 1231846010

|                                   | <u>Parameter</u>        | <u>Result</u> | <u>Units</u> |
|-----------------------------------|-------------------------|---------------|--------------|
| <b>Dissolved Metals by ICP/MS</b> | Arsenic                 | 5.29          | ug/L         |
|                                   | Zinc                    | 7.94J         | ug/L         |
| <b>Waters Department</b>          | Total Nitrate/Nitrite-N | 0.130J        | mg/L         |
|                                   | Total Phosphorus        | 0.104         | mg/L         |

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

Lab Sample ID: 1231846011

|  | <u>Parameter</u>        | <u>Result</u> | <u>Units</u> |
|--|-------------------------|---------------|--------------|
| <b>Diss. Metals by ICP/MS (Provisional Be,Cu 65)</b> | Copper                  | 1.31J         | ug/L         |
| <b>Dissolved Metals by ICP/MS</b>                    | Zinc                    | 13.7          | ug/L         |
| <b>Waters Department</b>                             | Total Nitrate/Nitrite-N | 0.555         | mg/L         |
|  | Total Phosphorus        | 0.0386J       | mg/L         |

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**Detectable Results Summary**

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

Lab Sample ID: 1231846012

|  | <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|--|------------------|---------------|--------------|
| <b>Diss. Metals by ICP/MS (Provisional Be,Cu 65)</b> | Copper           | 1.05J         | ug/L         |
| <b>Dissolved Metals by ICP/MS</b>                    | Arsenic          | 1.89J         | ug/L         |
|  | Zinc             | 15.8          | ug/L         |
| <b>Waters Department</b>                             | Total Phosphorus | 0.100         | mg/L         |

 Client Sample ID: **RM 31 - Morgan's Landing**

Lab Sample ID: 1231846013

|                                   | <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-----------------------------------|------------------|---------------|--------------|
| <b>Dissolved Metals by ICP/MS</b> | Arsenic          | 3.26J         | ug/L         |
|                                   | Zinc             | 7.93J         | ug/L         |
| <b>Waters Department</b>          | Total Phosphorus | 0.0450        | mg/L         |

 Client Sample ID: **RM 36 - Moose River**

Lab Sample ID: 1231846014

|                          | <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|--------------------------|------------------|---------------|--------------|
| <b>Waters Department</b> | Total Phosphorus | 0.0882        | mg/L         |

 Client Sample ID: **RM 36 - Moose River-DUP**

Lab Sample ID: 1231846015

|                          | <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|--------------------------|------------------|---------------|--------------|
| <b>Waters Department</b> | Total Phosphorus | 0.0781        | mg/L         |

 Client Sample ID: **RM 40 - Bing's Landing**

Lab Sample ID: 1231846016

|                          | <u>Parameter</u>        | <u>Result</u> | <u>Units</u> |
|--------------------------|-------------------------|---------------|--------------|
| <b>Waters Department</b> | Total Nitrate/Nitrite-N | 0.177J        | mg/L         |
|                          | Total Phosphorus        | 0.0195J       | mg/L         |

 Client Sample ID: **RM 43 - Upstream of Dow Island**

Lab Sample ID: 1231846017

|                          | <u>Parameter</u>        | <u>Result</u> | <u>Units</u> |
|--------------------------|-------------------------|---------------|--------------|
| <b>Waters Department</b> | Total Nitrate/Nitrite-N | 0.213         | mg/L         |
|                          | Total Phosphorus        | 0.0262J       | mg/L         |

 Client Sample ID: **RM 44 - Mouth of Killey River**

Lab Sample ID: 1231846018

|                          | <u>Parameter</u>        | <u>Result</u> | <u>Units</u> |
|--------------------------|-------------------------|---------------|--------------|
| <b>Waters Department</b> | Total Nitrate/Nitrite-N | 0.0898J       | mg/L         |
|                          | Total Phosphorus        | 0.0358J       | mg/L         |

 Client Sample ID: **RM 50 - Skilak Lake Outflow**

Lab Sample ID: 1231846019

|                          | <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|--------------------------|------------------|---------------|--------------|
| <b>Waters Department</b> | Total Phosphorus | 0.0168J       | mg/L         |

 Client Sample ID: **RM 82 - Kenai Lake Bridge**

Lab Sample ID: 1231846022

|                          | <u>Parameter</u>        | <u>Result</u> | <u>Units</u> |
|--------------------------|-------------------------|---------------|--------------|
| <b>Waters Department</b> | Total Nitrate/Nitrite-N | 0.327         | mg/L         |

 Client Sample ID: **RM 79.5 - Juneau Creek**

Lab Sample ID: 1231846023

|                          | <u>Parameter</u>        | <u>Result</u> | <u>Units</u> |
|--------------------------|-------------------------|---------------|--------------|
| <b>Waters Department</b> | Total Nitrate/Nitrite-N | 0.560         | mg/L         |

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

Lab Sample ID: 1231846024

|                                   | <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-----------------------------------|------------------|---------------|--------------|
| <b>Dissolved Metals by ICP/MS</b> | Zinc             | 5.80J         | ug/L         |

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**Detectable Results Summary**Client Sample ID: **RM 12.5 - Pillars - FieldBlank**

Lab Sample ID: 1231846025

**Dissolved Metals by ICP/MS**Parameter

Zinc

Result

8.97J

Units

ug/L

Print Date: 06/23/2023 2:56:35PM

SGS North America Inc.

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Member of SGS Group



**Results of RM 0 - No Name Creek**

Client Sample ID: **RM 0 - No Name Creek**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846001  
 Lab Project ID: 1231846

Collection Date: 05/03/23 10:30  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Diss. Metals by ICP/MS (Provisional Be,Cu 6520)**

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|---------------|-------------|---------------|-----------|------------|--------------|-----------|-------------------------|----------------------|
| Copper           | 2.95          | J           | 3.00          | 1.00      | 1.50       | ug/L         | 1         |                         | 05/19/23 20:08       |

**Batch Information**

Analytical Batch: MMS11946  
 Analytical Method: EP200.8  
 Analyst: ACF  
 Analytical Date/Time: 06/06/23 13:54  
 Container ID: 1231846001-C

Prep Batch: MXX35898  
 Prep Method: E200.2  
 Prep Date/Time: 06/01/23 16:04  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:08  
 Container ID: 1231846001-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

### Results of RM 0 - No Name Creek

Client Sample ID: **RM 0 - No Name Creek**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846001  
 Lab Project ID: 1231846

Collection Date: 05/03/23 10:30  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Dissolved Metals by ICP/MS

| Parameter | Result | Qual | LOQ/CL | DL    | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|-------|-------|-------|----|------------------|----------------|
| Arsenic   | 2.50   | U    | 5.00   | 1.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:08 |
| Cadmium   | 0.595  |      | 0.500  | 0.150 | 0.250 | ug/L  | 1  |                  | 05/19/23 20:08 |
| Chromium  | 24.1   |      | 5.00   | 2.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:08 |
| Lead      | 1.00   | U    | 2.00   | 0.500 | 1.00  | ug/L  | 1  |                  | 05/19/23 20:08 |
| Zinc      | 19.6   |      | 10.0   | 3.10  | 5.00  | ug/L  | 1  |                  | 06/06/23 13:54 |

### Batch Information

Analytical Batch: MMS11946  
 Analytical Method: EP200.8  
 Analyst: ACF  
 Analytical Date/Time: 06/06/23 13:54  
 Container ID: 1231846001-C

Prep Batch: MXX35898  
 Prep Method: E200.2  
 Prep Date/Time: 06/01/23 16:04  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:08  
 Container ID: 1231846001-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

**Results of RM 0 - No Name Creek**

Client Sample ID: **RM 0 - No Name Creek**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846001  
 Lab Project ID: 1231846

Collection Date: 05/03/23 10:30  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Waters Department**

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.294  |      | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 14:28 |

**Batch Information**

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 14:28  
 Container ID: 1231846001-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.0237 | J    | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/17/23 16:43 |

**Batch Information**

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5503            | Prep Batch: WXX14745           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/17/23 12:30 |
| Analytical Date/Time: 05/17/23 16:43 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846001-A           | Prep Extract Vol: 25 mL        |

**Results of RM 1.5 - Kenai City Dock - DUP**

Client Sample ID: **RM 1.5 - Kenai City Dock - DUP**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846002  
 Lab Project ID: 1231846

Collection Date: 05/03/23 13:37  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Diss. Metals by ICP/MS (Provisional Be,Cu 6520)**

| Parameter | Result | Qual | LOQ/CL | DL   | LOD  | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|------|------|-------|----|------------------|----------------|
| Copper    | 276    |      | 3.00   | 1.00 | 1.50 | ug/L  | 1  |                  | 05/19/23 20:17 |

**Batch Information**

Analytical Batch: MMS11940  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/30/23 18:21  
 Container ID: 1231846002-C

Prep Batch: MXX35877  
 Prep Method: E200.2  
 Prep Date/Time: 05/23/23 13:45  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:17  
 Container ID: 1231846002-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

**Results of RM 1.5 - Kenai City Dock - DUP**

Client Sample ID: **RM 1.5 - Kenai City Dock - DUP**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846002  
 Lab Project ID: 1231846

Collection Date: 05/03/23 13:37  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

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

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|---------------|-------------|---------------|-----------|------------|--------------|-----------|-------------------------|----------------------|
| Arsenic          | 2.50          | U           | 5.00          | 1.50      | 2.50       | ug/L         | 1         |                         | 05/19/23 20:17       |
| Cadmium          | 0.250         | U           | 0.500         | 0.150     | 0.250      | ug/L         | 1         |                         | 05/19/23 20:17       |
| Chromium         | 3.26          | J           | 5.00          | 2.50      | 2.50       | ug/L         | 1         |                         | 05/19/23 20:17       |
| Lead             | 0.576         | J           | 2.00          | 0.500     | 1.00       | ug/L         | 1         |                         | 05/19/23 20:17       |
| Zinc             | 9.46          | J           | 10.0          | 3.10      | 5.00       | ug/L         | 1         |                         | 05/30/23 18:21       |

**Batch Information**

Analytical Batch: MMS11940  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/30/23 18:21  
 Container ID: 1231846002-C

Prep Batch: MXX35877  
 Prep Method: E200.2  
 Prep Date/Time: 05/23/23 13:45  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:17  
 Container ID: 1231846002-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

**Results of RM 1.5 - Kenai City Dock - DUP**

Client Sample ID: **RM 1.5 - Kenai City Dock - DUP**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846002  
 Lab Project ID: 1231846

Collection Date: 05/03/23 13:37  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Waters Department**

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.466  |      | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 14:30 |

**Batch Information**

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 14:30  
 Container ID: 1231846002-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.315  |      | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/17/23 16:44 |

**Batch Information**

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5503            | Prep Batch: WXX14745           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/17/23 12:30 |
| Analytical Date/Time: 05/17/23 16:44 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846002-A           | Prep Extract Vol: 25 mL        |

**Results of RM 1.5 - Kenai City Dock**

Client Sample ID: **RM 1.5 - Kenai City Dock**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846003  
 Lab Project ID: 1231846

Collection Date: 05/03/23 13:53  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Diss. Metals by ICP/MS (Provisional Be,Cu 6520)**

| Parameter | Result | Qual | LOQ/CL | DL   | LOD  | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|------|------|-------|----|------------------|----------------|
| Copper    | 150    |      | 3.00   | 1.00 | 1.50 | ug/L  | 1  |                  | 05/19/23 20:20 |

**Batch Information**

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:20  
 Container ID: 1231846003-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

### Results of RM 1.5 - Kenai City Dock

Client Sample ID: **RM 1.5 - Kenai City Dock**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846003  
 Lab Project ID: 1231846

Collection Date: 05/03/23 13:53  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Dissolved Metals by ICP/MS

| Parameter | Result | Qual | LOQ/CL | DL    | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|-------|-------|-------|----|------------------|----------------|
| Arsenic   | 2.50   | U    | 5.00   | 1.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:20 |
| Cadmium   | 0.250  | U    | 0.500  | 0.150 | 0.250 | ug/L  | 1  |                  | 05/19/23 20:20 |
| Chromium  | 3.47   | J    | 5.00   | 2.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:20 |
| Lead      | 1.00   | U    | 2.00   | 0.500 | 1.00  | ug/L  | 1  |                  | 05/19/23 20:20 |
| Zinc      | 9.97   | J    | 10.0   | 3.10  | 5.00  | ug/L  | 1  |                  | 05/19/23 20:20 |

### Batch Information

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:20  
 Container ID: 1231846003-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL



### Results of RM 1.5 - Kenai City Dock

Client Sample ID: **RM 1.5 - Kenai City Dock**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846003  
 Lab Project ID: 1231846

Collection Date: 05/03/23 13:53  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Waters Department

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.345  |      | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 14:32 |

### Batch Information

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 14:32  
 Container ID: 1231846003-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.339  |      | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/17/23 16:45 |

### Batch Information

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5503            | Prep Batch: WXX14745           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/17/23 12:30 |
| Analytical Date/Time: 05/17/23 16:45 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846003-A           | Prep Extract Vol: 25 mL        |

**Results of RM 6.5 - Cunningham Park**

Client Sample ID: **RM 6.5 - Cunningham Park**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846004  
 Lab Project ID: 1231846

Collection Date: 05/03/23 09:22  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Diss. Metals by ICP/MS (Provisional Be,Cu 6520)**

| Parameter | Result | Qual | LOQ/CL | DL   | LOD  | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|------|------|-------|----|------------------|----------------|
| Copper    | 8.92   |      | 3.00   | 1.00 | 1.50 | ug/L  | 1  |                  | 05/19/23 20:22 |

**Batch Information**

Analytical Batch: MMS11940  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/30/23 18:23  
 Container ID: 1231846004-C

Prep Batch: MXX35877  
 Prep Method: E200.2  
 Prep Date/Time: 05/23/23 13:45  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:22  
 Container ID: 1231846004-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

### Results of RM 6.5 - Cunningham Park

Client Sample ID: **RM 6.5 - Cunningham Park**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846004  
 Lab Project ID: 1231846

Collection Date: 05/03/23 09:22  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Dissolved Metals by ICP/MS

| Parameter | Result | Qual | LOQ/CL | DL    | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|-------|-------|-------|----|------------------|----------------|
| Arsenic   | 2.24   | J    | 5.00   | 1.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:22 |
| Cadmium   | 0.494  | J    | 0.500  | 0.150 | 0.250 | ug/L  | 1  |                  | 05/19/23 20:22 |
| Chromium  | 2.50   | U    | 5.00   | 2.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:22 |
| Lead      | 0.533  | J    | 2.00   | 0.500 | 1.00  | ug/L  | 1  |                  | 05/19/23 20:22 |
| Zinc      | 8.94   | J    | 10.0   | 3.10  | 5.00  | ug/L  | 1  |                  | 05/30/23 18:23 |

### Batch Information

Analytical Batch: MMS11940  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/30/23 18:23  
 Container ID: 1231846004-C

Prep Batch: MX35877  
 Prep Method: E200.2  
 Prep Date/Time: 05/23/23 13:45  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:22  
 Container ID: 1231846004-C

Prep Batch: MX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

**Results of RM 6.5 - Cunningham Park**

Client Sample ID: **RM 6.5 - Cunningham Park**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846004  
 Lab Project ID: 1231846

Collection Date: 05/03/23 09:22  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Waters Department**

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.198  | J    | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 14:39 |

**Batch Information**

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 14:39  
 Container ID: 1231846004-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.309  |      | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/17/23 16:46 |

**Batch Information**

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5503            | Prep Batch: WXX14745           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/17/23 12:30 |
| Analytical Date/Time: 05/17/23 16:46 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846004-A           | Prep Extract Vol: 25 mL        |

### Results of RM 10 - Beaver Creek

Client Sample ID: **RM 10 - Beaver Creek**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846005  
 Lab Project ID: 1231846

Collection Date: 05/03/23 10:05  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Diss. Metals by ICP/MS (Provisional Be,Cu 6520

| Parameter | Result | Qual | LOQ/CL | DL   | LOD  | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|------|------|-------|----|------------------|----------------|
| Copper    | 3.60   |      | 3.00   | 1.00 | 1.50 | ug/L  | 1  |                  | 05/19/23 20:25 |

### Batch Information

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:25  
 Container ID: 1231846005-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

### Results of RM 10 - Beaver Creek

Client Sample ID: **RM 10 - Beaver Creek**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846005  
 Lab Project ID: 1231846

Collection Date: 05/03/23 10:05  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Dissolved Metals by ICP/MS

| Parameter | Result | Qual | LOQ/CL | DL    | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|-------|-------|-------|----|------------------|----------------|
| Arsenic   | 3.04   | J    | 5.00   | 1.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:25 |
| Cadmium   | 0.250  | U    | 0.500  | 0.150 | 0.250 | ug/L  | 1  |                  | 05/19/23 20:25 |
| Chromium  | 2.50   | U    | 5.00   | 2.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:25 |
| Lead      | 0.732  | J    | 2.00   | 0.500 | 1.00  | ug/L  | 1  |                  | 05/19/23 20:25 |
| Zinc      | 8.73   | J    | 10.0   | 3.10  | 5.00  | ug/L  | 1  |                  | 05/19/23 20:25 |

### Batch Information

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:25  
 Container ID: 1231846005-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

### Results of RM 10 - Beaver Creek

Client Sample ID: **RM 10 - Beaver Creek**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846005  
 Lab Project ID: 1231846

Collection Date: 05/03/23 10:05  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Waters Department

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.0526 | J    | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 14:44 |

### Batch Information

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 14:44  
 Container ID: 1231846005-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.220  |      | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/17/23 16:47 |

### Batch Information

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5503            | Prep Batch: WXX14745           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/17/23 12:30 |
| Analytical Date/Time: 05/17/23 16:47 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846005-A           | Prep Extract Vol: 25 mL        |

### Results of RM 12.5 Pillars

Client Sample ID: **RM 12.5 Pillars**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846006  
 Lab Project ID: 1231846

Collection Date: 05/03/23 08:32  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Diss. Metals by ICP/MS (Provisional Be,Cu 6520)

| Parameter | Result | Qual | LOQ/CL | DL   | LOD  | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|------|------|-------|----|------------------|----------------|
| Copper    | 1.45   | J    | 3.00   | 1.00 | 1.50 | ug/L  | 1  |                  | 05/19/23 20:27 |

### Batch Information

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:27  
 Container ID: 1231846006-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL



### Results of RM 12.5 Pillars

Client Sample ID: **RM 12.5 Pillars**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846006  
 Lab Project ID: 1231846

Collection Date: 05/03/23 08:32  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Dissolved Metals by ICP/MS

| Parameter | Result | Qual | LOQ/CL | DL    | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|-------|-------|-------|----|------------------|----------------|
| Arsenic   | 2.65   | J    | 5.00   | 1.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:27 |
| Cadmium   | 0.250  | U    | 0.500  | 0.150 | 0.250 | ug/L  | 1  |                  | 05/19/23 20:27 |
| Chromium  | 2.50   | U    | 5.00   | 2.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:27 |
| Lead      | 1.00   | U    | 2.00   | 0.500 | 1.00  | ug/L  | 1  |                  | 05/19/23 20:27 |
| Zinc      | 7.00   | J    | 10.0   | 3.10  | 5.00  | ug/L  | 1  |                  | 05/19/23 20:27 |

### Batch Information

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:27  
 Container ID: 1231846006-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

### Results of RM 12.5 Pillars

Client Sample ID: **RM 12.5 Pillars**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846006  
 Lab Project ID: 1231846

Collection Date: 05/03/23 08:32  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Waters Department

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.133  | J    | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 14:46 |

### Batch Information

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 14:46  
 Container ID: 1231846006-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.0509 |      | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/17/23 16:48 |

### Batch Information

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5503            | Prep Batch: WXX14745           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/17/23 12:30 |
| Analytical Date/Time: 05/17/23 16:48 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846006-A           | Prep Extract Vol: 25 mL        |

**Results of RM 18 - Poacher's Cove**

Client Sample ID: **RM 18 - Poacher's Cove**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846007  
 Lab Project ID: 1231846

Collection Date: 05/03/23 09:24  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Diss. Metals by ICP/MS (Provisional Be,Cu 6520)**

| Parameter | Result | Qual | LOQ/CL | DL   | LOD  | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|------|------|-------|----|------------------|----------------|
| Copper    | 1.42   | J    | 3.00   | 1.00 | 1.50 | ug/L  | 1  |                  | 05/19/23 20:30 |

**Batch Information**

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:30  
 Container ID: 1231846007-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

**Results of RM 18 - Poacher's Cove**

Client Sample ID: **RM 18 - Poacher's Cove**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846007  
 Lab Project ID: 1231846

Collection Date: 05/03/23 09:24  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

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

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|---------------|-------------|---------------|-----------|------------|--------------|-----------|-------------------------|----------------------|
| Arsenic          | 2.34          | J           | 5.00          | 1.50      | 2.50       | ug/L         | 1         |                         | 05/19/23 20:30       |
| Cadmium          | 0.250         | U           | 0.500         | 0.150     | 0.250      | ug/L         | 1         |                         | 05/19/23 20:30       |
| Chromium         | 2.50          | U           | 5.00          | 2.50      | 2.50       | ug/L         | 1         |                         | 05/19/23 20:30       |
| Lead             | 1.00          | U           | 2.00          | 0.500     | 1.00       | ug/L         | 1         |                         | 05/19/23 20:30       |
| Zinc             | 7.47          | J           | 10.0          | 3.10      | 5.00       | ug/L         | 1         |                         | 05/19/23 20:30       |

**Batch Information**

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:30  
 Container ID: 1231846007-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

**Results of RM 18 - Poacher's Cove**

Client Sample ID: **RM 18 - Poacher's Cove**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846007  
 Lab Project ID: 1231846

Collection Date: 05/03/23 09:24  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Waters Department**

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.161  | J    | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 14:48 |

**Batch Information**

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 14:48  
 Container ID: 1231846007-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.0420 |      | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/17/23 16:49 |

**Batch Information**

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5503            | Prep Batch: WXX14745           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/17/23 12:30 |
| Analytical Date/Time: 05/17/23 16:49 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846007-A           | Prep Extract Vol: 25 mL        |

**Results of RM 19 - Slikok Creek**

Client Sample ID: **RM 19 - Slikok Creek**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846008  
 Lab Project ID: 1231846

Collection Date: 05/03/23 08:47  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Diss. Metals by ICP/MS (Provisional Be,Cu 6520)**

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|---------------|-------------|---------------|-----------|------------|--------------|-----------|-------------------------|----------------------|
| Copper           | 1.57          | J           | 3.00          | 1.00      | 1.50       | ug/L         | 1         |                         | 05/19/23 20:38       |

**Batch Information**

Analytical Batch: MMS11946  
 Analytical Method: EP200.8  
 Analyst: ACF  
 Analytical Date/Time: 06/06/23 13:56  
 Container ID: 1231846008-C

Prep Batch: MXX35898  
 Prep Method: E200.2  
 Prep Date/Time: 06/01/23 16:04  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:38  
 Container ID: 1231846008-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

### Results of RM 19 - Slikok Creek

Client Sample ID: **RM 19 - Slikok Creek**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846008  
 Lab Project ID: 1231846

Collection Date: 05/03/23 08:47  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Dissolved Metals by ICP/MS

| Parameter | Result | Qual | LOQ/CL | DL    | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|-------|-------|-------|----|------------------|----------------|
| Arsenic   | 1.72   | J    | 5.00   | 1.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:38 |
| Cadmium   | 0.250  | U    | 0.500  | 0.150 | 0.250 | ug/L  | 1  |                  | 05/19/23 20:38 |
| Chromium  | 2.50   | U    | 5.00   | 2.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:38 |
| Lead      | 1.00   | U    | 2.00   | 0.500 | 1.00  | ug/L  | 1  |                  | 05/19/23 20:38 |
| Zinc      | 21.2   |      | 10.0   | 3.10  | 5.00  | ug/L  | 1  |                  | 06/06/23 13:56 |

### Batch Information

Analytical Batch: MMS11946  
 Analytical Method: EP200.8  
 Analyst: ACF  
 Analytical Date/Time: 06/06/23 13:56  
 Container ID: 1231846008-C

Prep Batch: MXX35898  
 Prep Method: E200.2  
 Prep Date/Time: 06/01/23 16:04  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:38  
 Container ID: 1231846008-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

### Results of RM 19 - Slikok Creek

Client Sample ID: **RM 19 - Slikok Creek**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846008  
 Lab Project ID: 1231846

Collection Date: 05/03/23 08:47  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Waters Department

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.113  | J    | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 14:49 |

### Batch Information

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 14:49  
 Container ID: 1231846008-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.0227 | J    | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/17/23 16:50 |

### Batch Information

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5503            | Prep Batch: WXX14745           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/17/23 12:30 |
| Analytical Date/Time: 05/17/23 16:50 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846008-A           | Prep Extract Vol: 25 mL        |



**Results of RM 21 - Soldotna Bridge**

Client Sample ID: **RM 21 - Soldotna Bridge**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846009  
 Lab Project ID: 1231846

Collection Date: 05/03/23 09:27  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Diss. Metals by ICP/MS (Provisional Be,Cu 6520)**

| Parameter | Result | Qual | LOQ/CL | DL   | LOD  | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|------|------|-------|----|------------------|----------------|
| Copper    | 1.13   | J    | 3.00   | 1.00 | 1.50 | ug/L  | 1  |                  | 05/19/23 20:40 |

**Batch Information**

Analytical Batch: MMS11946  
 Analytical Method: EP200.8  
 Analyst: ACF  
 Analytical Date/Time: 06/06/23 13:59  
 Container ID: 1231846009-C

Prep Batch: MXX35898  
 Prep Method: E200.2  
 Prep Date/Time: 06/01/23 16:04  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:40  
 Container ID: 1231846009-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

### Results of RM 21 - Soldotna Bridge

Client Sample ID: **RM 21 - Soldotna Bridge**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846009  
 Lab Project ID: 1231846

Collection Date: 05/03/23 09:27  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Dissolved Metals by ICP/MS

| Parameter | Result | Qual | LOQ/CL | DL    | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|-------|-------|-------|----|------------------|----------------|
| Arsenic   | 1.88   | J    | 5.00   | 1.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:40 |
| Cadmium   | 0.250  | U    | 0.500  | 0.150 | 0.250 | ug/L  | 1  |                  | 05/19/23 20:40 |
| Chromium  | 2.50   | U    | 5.00   | 2.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:40 |
| Lead      | 1.00   | U    | 2.00   | 0.500 | 1.00  | ug/L  | 1  |                  | 05/19/23 20:40 |
| Zinc      | 12.5   |      | 10.0   | 3.10  | 5.00  | ug/L  | 1  |                  | 06/06/23 13:59 |

### Batch Information

Analytical Batch: MMS11946  
 Analytical Method: EP200.8  
 Analyst: ACF  
 Analytical Date/Time: 06/06/23 13:59  
 Container ID: 1231846009-C

Prep Batch: MXX35898  
 Prep Method: E200.2  
 Prep Date/Time: 06/01/23 16:04  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:40  
 Container ID: 1231846009-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

**Results of RM 21 - Soldotna Bridge**

Client Sample ID: **RM 21 - Soldotna Bridge**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846009  
 Lab Project ID: 1231846

Collection Date: 05/03/23 09:27  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Waters Department**

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.146  | J    | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 14:51 |

**Batch Information**

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 14:51  
 Container ID: 1231846009-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.0316 | J    | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/17/23 16:51 |

**Batch Information**

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5503            | Prep Batch: WXX14745           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/17/23 12:30 |
| Analytical Date/Time: 05/17/23 16:51 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846009-A           | Prep Extract Vol: 25 mL        |

**Results of RM 22 - Soldotna Creek**

Client Sample ID: **RM 22 - Soldotna Creek**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846010  
 Lab Project ID: 1231846

Collection Date: 05/02/23 09:49  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Diss. Metals by ICP/MS (Provisional Be,Cu 6520)**

| Parameter | Result | Qual | LOQ/CL | DL   | LOD  | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|------|------|-------|----|------------------|----------------|
| Copper    | 1.50   | U    | 3.00   | 1.00 | 1.50 | ug/L  | 1  |                  | 05/19/23 20:43 |

**Batch Information**

Analytical Batch: MMS11940  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/30/23 18:36  
 Container ID: 1231846010-C

Prep Batch: MXX35877  
 Prep Method: E200.2  
 Prep Date/Time: 05/23/23 13:45  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:43  
 Container ID: 1231846010-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

### Results of RM 22 - Soldotna Creek

Client Sample ID: **RM 22 - Soldotna Creek**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846010  
 Lab Project ID: 1231846

Collection Date: 05/02/23 09:49  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Dissolved Metals by ICP/MS

| Parameter | Result | Qual | LOQ/CL | DL    | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|-------|-------|-------|----|------------------|----------------|
| Arsenic   | 5.29   |      | 5.00   | 1.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:43 |
| Cadmium   | 0.250  | U    | 0.500  | 0.150 | 0.250 | ug/L  | 1  |                  | 05/19/23 20:43 |
| Chromium  | 2.50   | U    | 5.00   | 2.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:43 |
| Lead      | 1.00   | U    | 2.00   | 0.500 | 1.00  | ug/L  | 1  |                  | 05/19/23 20:43 |
| Zinc      | 7.94   | J    | 10.0   | 3.10  | 5.00  | ug/L  | 1  |                  | 05/30/23 18:36 |

### Batch Information

Analytical Batch: MMS11940  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/30/23 18:36  
 Container ID: 1231846010-C

Prep Batch: MX35877  
 Prep Method: E200.2  
 Prep Date/Time: 05/23/23 13:45  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:43  
 Container ID: 1231846010-C

Prep Batch: MX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

**Results of RM 22 - Soldotna Creek**

Client Sample ID: **RM 22 - Soldotna Creek**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846010  
 Lab Project ID: 1231846

Collection Date: 05/02/23 09:49  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Waters Department**

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.130  | J    | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 14:53 |

**Batch Information**

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 14:53  
 Container ID: 1231846010-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.104  |      | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/09/23 14:17 |

**Batch Information**

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5496            | Prep Batch: WXX14730           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/09/23 12:00 |
| Analytical Date/Time: 05/09/23 14:17 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846010-A           | Prep Extract Vol: 25 mL        |

### Results of RM 23 - Swiftwater Park

Client Sample ID: **RM 23 - Swiftwater Park**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846011  
 Lab Project ID: 1231846

Collection Date: 05/02/23 10:22  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Diss. Metals by ICP/MS (Provisional Be,Cu 6520

| Parameter | Result | Qual | LOQ/CL | DL   | LOD  | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|------|------|-------|----|------------------|----------------|
| Copper    | 1.31   | J    | 3.00   | 1.00 | 1.50 | ug/L  | 1  |                  | 05/19/23 20:46 |

### Batch Information

Analytical Batch: MMS11946  
 Analytical Method: EP200.8  
 Analyst: ACF  
 Analytical Date/Time: 06/06/23 13:45  
 Container ID: 1231846011-C

Prep Batch: MXX35898  
 Prep Method: E200.2  
 Prep Date/Time: 06/01/23 16:04  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:46  
 Container ID: 1231846011-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

### Results of RM 23 - Swiftwater Park

Client Sample ID: **RM 23 - Swiftwater Park**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846011  
 Lab Project ID: 1231846

Collection Date: 05/02/23 10:22  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Dissolved Metals by ICP/MS

| Parameter | Result | Qual | LOQ/CL | DL    | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|-------|-------|-------|----|------------------|----------------|
| Arsenic   | 2.50   | U    | 5.00   | 1.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:46 |
| Cadmium   | 0.250  | U    | 0.500  | 0.150 | 0.250 | ug/L  | 1  |                  | 05/19/23 20:46 |
| Chromium  | 2.50   | U    | 5.00   | 2.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:46 |
| Lead      | 1.00   | U    | 2.00   | 0.500 | 1.00  | ug/L  | 1  |                  | 05/19/23 20:46 |
| Zinc      | 13.7   |      | 10.0   | 3.10  | 5.00  | ug/L  | 1  |                  | 06/06/23 13:45 |

### Batch Information

Analytical Batch: MMS11946  
 Analytical Method: EP200.8  
 Analyst: ACF  
 Analytical Date/Time: 06/06/23 13:45  
 Container ID: 1231846011-C

Prep Batch: MXX35898  
 Prep Method: E200.2  
 Prep Date/Time: 06/01/23 16:04  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:46  
 Container ID: 1231846011-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL



**Results of RM 23 - Swiftwater Park**

Client Sample ID: **RM 23 - Swiftwater Park**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846011  
 Lab Project ID: 1231846

Collection Date: 05/02/23 10:22  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Waters Department**

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.555  |      | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 14:55 |

**Batch Information**

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 14:55  
 Container ID: 1231846011-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.0386 | J    | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/09/23 14:18 |

**Batch Information**

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5496            | Prep Batch: WXX14730           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/09/23 12:00 |
| Analytical Date/Time: 05/09/23 14:18 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846011-A           | Prep Extract Vol: 25 mL        |

**Results of RM 30 - Funny River**

Client Sample ID: **RM 30 - Funny River**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846012  
 Lab Project ID: 1231846

Collection Date: 05/02/23 08:57  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Diss. Metals by ICP/MS (Provisional Be,Cu 6520)**

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|---------------|-------------|---------------|-----------|------------|--------------|-----------|-------------------------|----------------------|
| Copper           | 1.05          | J           | 3.00          | 1.00      | 1.50       | ug/L         | 1         |                         | 05/19/23 20:48       |

**Batch Information**

Analytical Batch: MMS11946  
 Analytical Method: EP200.8  
 Analyst: ACF  
 Analytical Date/Time: 06/06/23 14:07  
 Container ID: 1231846012-C

Prep Batch: MXX35898  
 Prep Method: E200.2  
 Prep Date/Time: 06/01/23 16:04  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:48  
 Container ID: 1231846012-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

### Results of RM 30 - Funny River

Client Sample ID: **RM 30 - Funny River**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846012  
 Lab Project ID: 1231846

Collection Date: 05/02/23 08:57  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Dissolved Metals by ICP/MS

| Parameter | Result | Qual | LOQ/CL | DL    | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|-------|-------|-------|----|------------------|----------------|
| Arsenic   | 1.89   | J    | 5.00   | 1.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:48 |
| Cadmium   | 0.250  | U    | 0.500  | 0.150 | 0.250 | ug/L  | 1  |                  | 05/19/23 20:48 |
| Chromium  | 2.50   | U    | 5.00   | 2.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:48 |
| Lead      | 1.00   | U    | 2.00   | 0.500 | 1.00  | ug/L  | 1  |                  | 05/19/23 20:48 |
| Zinc      | 15.8   |      | 10.0   | 3.10  | 5.00  | ug/L  | 1  |                  | 06/06/23 14:07 |

### Batch Information

Analytical Batch: MMS11946  
 Analytical Method: EP200.8  
 Analyst: ACF  
 Analytical Date/Time: 06/06/23 14:07  
 Container ID: 1231846012-C

Prep Batch: MXX35898  
 Prep Method: E200.2  
 Prep Date/Time: 06/01/23 16:04  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:48  
 Container ID: 1231846012-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

### Results of RM 30 - Funny River

Client Sample ID: **RM 30 - Funny River**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846012  
 Lab Project ID: 1231846

Collection Date: 05/02/23 08:57  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Waters Department

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.100  | U    | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 15:02 |

### Batch Information

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 15:02  
 Container ID: 1231846012-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.100  |      | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/09/23 14:19 |

### Batch Information

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5496            | Prep Batch: WXX14730           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/09/23 12:00 |
| Analytical Date/Time: 05/09/23 14:19 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846012-A           | Prep Extract Vol: 25 mL        |

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

Client Sample ID: **RM 31 - Morgan's Landing**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846013  
 Lab Project ID: 1231846

Collection Date: 05/02/23 10:00  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Diss. Metals by ICP/MS (Provisional Be,Cu 6520

| Parameter | Result | Qual | LOQ/CL | DL   | LOD  | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|------|------|-------|----|------------------|----------------|
| Copper    | 1.50   | U    | 3.00   | 1.00 | 1.50 | ug/L  | 1  |                  | 05/19/23 20:51 |

### Batch Information

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:51  
 Container ID: 1231846013-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

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

Client Sample ID: **RM 31 - Morgan's Landing**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846013  
 Lab Project ID: 1231846

Collection Date: 05/02/23 10:00  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Dissolved Metals by ICP/MS

| Parameter | Result | Qual | LOQ/CL | DL    | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|-------|-------|-------|----|------------------|----------------|
| Arsenic   | 3.26   | J    | 5.00   | 1.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:51 |
| Cadmium   | 0.250  | U    | 0.500  | 0.150 | 0.250 | ug/L  | 1  |                  | 05/19/23 20:51 |
| Chromium  | 2.50   | U    | 5.00   | 2.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:51 |
| Lead      | 1.00   | U    | 2.00   | 0.500 | 1.00  | ug/L  | 1  |                  | 05/19/23 20:51 |
| Zinc      | 7.93   | J    | 10.0   | 3.10  | 5.00  | ug/L  | 1  |                  | 05/19/23 20:51 |

### Batch Information

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:51  
 Container ID: 1231846013-C

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

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

Client Sample ID: **RM 31 - Morgan's Landing**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846013  
 Lab Project ID: 1231846

Collection Date: 05/02/23 10:00  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Waters Department

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.100  | U    | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 15:03 |

### Batch Information

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 15:03  
 Container ID: 1231846013-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.0450 |      | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/09/23 14:20 |

### Batch Information

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5496            | Prep Batch: WXX14730           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/09/23 12:00 |
| Analytical Date/Time: 05/09/23 14:20 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846013-A           | Prep Extract Vol: 25 mL        |

**Results of RM 36 - Moose River**

Client Sample ID: **RM 36 - Moose River**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846014  
 Lab Project ID: 1231846

Collection Date: 05/02/23 10:38  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Waters Department**

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.100  | U    | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 15:05 |

**Batch Information**

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 15:05  
 Container ID: 1231846014-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.0882 |      | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/09/23 14:21 |

**Batch Information**

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5496            | Prep Batch: WXX14730           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/09/23 12:00 |
| Analytical Date/Time: 05/09/23 14:21 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846014-A           | Prep Extract Vol: 25 mL        |



**Results of RM 36 - Moose River-DUP**

Client Sample ID: **RM 36 - Moose River-DUP**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846015  
 Lab Project ID: 1231846

Collection Date: 05/02/23 10:45  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Waters Department**

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.100  | U    | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 15:07 |

**Batch Information**

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 15:07  
 Container ID: 1231846015-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.0781 |      | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/09/23 14:22 |

**Batch Information**

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5496            | Prep Batch: WXX14730           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/09/23 12:00 |
| Analytical Date/Time: 05/09/23 14:22 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846015-A           | Prep Extract Vol: 25 mL        |

### Results of RM 40 - Bing's Landing

Client Sample ID: **RM 40 - Bing's Landing**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846016  
 Lab Project ID: 1231846

Collection Date: 05/02/23 07:13  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Waters Department

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.177  | J    | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 15:09 |

### Batch Information

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 15:09  
 Container ID: 1231846016-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.0195 | J    | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/09/23 14:24 |

### Batch Information

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5496            | Prep Batch: WXX14730           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/09/23 12:00 |
| Analytical Date/Time: 05/09/23 14:24 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846016-A           | Prep Extract Vol: 25 mL        |

### Results of RM 43 - Upstream of Dow Island

Client Sample ID: **RM 43 - Upstream of Dow Island**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846017  
 Lab Project ID: 1231846

Collection Date: 05/02/23 09:25  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Waters Department

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.213  |      | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 15:10 |

### Batch Information

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 15:10  
 Container ID: 1231846017-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.0262 | J    | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/09/23 14:25 |

### Batch Information

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5496            | Prep Batch: WXX14730           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/09/23 12:00 |
| Analytical Date/Time: 05/09/23 14:25 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846017-A           | Prep Extract Vol: 25 mL        |

**Results of RM 44 - Mouth of Killey River**

Client Sample ID: **RM 44 - Mouth of Killey River**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846018  
 Lab Project ID: 1231846

Collection Date: 05/02/23 10:12  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Waters Department**

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.0898 | J    | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 15:12 |

**Batch Information**

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 15:12  
 Container ID: 1231846018-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.0358 | J    | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/09/23 14:26 |

**Batch Information**

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5496            | Prep Batch: WXX14730           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/09/23 12:00 |
| Analytical Date/Time: 05/09/23 14:26 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846018-A           | Prep Extract Vol: 25 mL        |

### Results of RM 50 - Skilak Lake Ourflow

Client Sample ID: **RM 50 - Skilak Lake Ourflow**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846019  
 Lab Project ID: 1231846

Collection Date: 05/02/23 08:34  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Waters Department

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.100  | U    | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 15:14 |

### Batch Information

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 15:14  
 Container ID: 1231846019-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.0168 | J    | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/09/23 14:27 |

### Batch Information

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5496            | Prep Batch: WXX14730           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/09/23 12:00 |
| Analytical Date/Time: 05/09/23 14:27 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846019-A           | Prep Extract Vol: 25 mL        |

### Results of RM 70 - Jim's Landing

Client Sample ID: **RM 70 - Jim's Landing**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846020  
 Lab Project ID: 1231846

Collection Date: 05/02/23 11:11  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Waters Department

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.100  | U    | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 15:16 |

### Batch Information

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 15:16  
 Container ID: 1231846020-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.0200 | U    | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/09/23 14:28 |

### Batch Information

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5496            | Prep Batch: WXX14730           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/09/23 12:00 |
| Analytical Date/Time: 05/09/23 14:28 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846020-A           | Prep Extract Vol: 25 mL        |

### Results of RM 74 - Russian River

Client Sample ID: **RM 74 - Russian River**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846021  
 Lab Project ID: 1231846

Collection Date: 05/02/23 10:30  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Waters Department

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.100  | U    | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 15:17 |

### Batch Information

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 15:17  
 Container ID: 1231846021-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.0200 | U    | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/17/23 16:52 |

### Batch Information

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5503            | Prep Batch: WXX14745           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/17/23 12:30 |
| Analytical Date/Time: 05/17/23 16:52 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846021-A           | Prep Extract Vol: 25 mL        |

**Results of RM 82 - Kenai Lake Bridge**

Client Sample ID: **RM 82 - Kenai Lake Bridge**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846022  
 Lab Project ID: 1231846

Collection Date: 05/02/23 08:35  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Waters Department**

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.327  |      | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 15:24 |

**Batch Information**

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 15:24  
 Container ID: 1231846022-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.0200 | U    | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/17/23 17:32 |

**Batch Information**

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5503            | Prep Batch: WXX14745           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/17/23 12:30 |
| Analytical Date/Time: 05/17/23 17:32 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846022-A           | Prep Extract Vol: 25 mL        |



### Results of RM 79.5 - Juneau Creek

Client Sample ID: **RM 79.5 - Juneau Creek**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846023  
 Lab Project ID: 1231846

Collection Date: 05/02/23 09:35  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Waters Department

| Parameter               | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-------------------------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Total Nitrate/Nitrite-N | 0.560  |      | 0.200  | 0.0500 | 0.100 | mg/L  | 2  |                  | 05/05/23 15:26 |

### Batch Information

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Analyst: EBH  
 Analytical Date/Time: 05/05/23 15:26  
 Container ID: 1231846023-A

| Parameter        | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|------------------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Total Phosphorus | 0.0200 | U    | 0.0400 | 0.0120 | 0.0200 | mg/L  | 1  |                  | 05/17/23 17:33 |

### Batch Information

|                                      |                                |
|--------------------------------------|--------------------------------|
| Analytical Batch: WDA5503            | Prep Batch: WXX14745           |
| Analytical Method: SM21 4500P-B,E    | Prep Method: SM21 4500P-B,E    |
| Analyst: MEB                         | Prep Date/Time: 05/17/23 12:30 |
| Analytical Date/Time: 05/17/23 17:33 | Prep Initial Wt./Vol.: 25 mL   |
| Container ID: 1231846023-A           | Prep Extract Vol: 25 mL        |

**Results of RM 0 - No Name Creek-FB**

Client Sample ID: **RM 0 - No Name Creek-FB**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846024  
 Lab Project ID: 1231846

Collection Date: 05/02/23 10:30  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Diss. Metals by ICP/MS (Provisional Be,Cu 6520)**

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|---------------|-------------|---------------|-----------|------------|--------------|-----------|-------------------------|----------------------|
| Copper           | 1.50          | U           | 3.00          | 1.00      | 1.50       | ug/L         | 1         |                         | 05/19/23 20:54       |

**Batch Information**

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:54  
 Container ID: 1231846024-B

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

**Results of RM 0 - No Name Creek-FB**

Client Sample ID: **RM 0 - No Name Creek-FB**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846024  
 Lab Project ID: 1231846

Collection Date: 05/02/23 10:30  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

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

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|---------------|-------------|---------------|-----------|------------|--------------|-----------|-------------------------|----------------------|
| Arsenic          | 2.50          | U           | 5.00          | 1.50      | 2.50       | ug/L         | 1         |                         | 05/19/23 20:54       |
| Cadmium          | 0.250         | U           | 0.500         | 0.150     | 0.250      | ug/L         | 1         |                         | 05/19/23 20:54       |
| Chromium         | 2.50          | U           | 5.00          | 2.50      | 2.50       | ug/L         | 1         |                         | 05/19/23 20:54       |
| Lead             | 1.00          | U           | 2.00          | 0.500     | 1.00       | ug/L         | 1         |                         | 05/19/23 20:54       |
| Zinc             | 5.80          | J           | 10.0          | 3.10      | 5.00       | ug/L         | 1         |                         | 05/19/23 20:54       |

**Batch Information**

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:54  
 Container ID: 1231846024-B

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

**Results of RM 12.5 - Pillars - FieldBlank**

Client Sample ID: **RM 12.5 - Pillars - FieldBlank**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846025  
 Lab Project ID: 1231846

Collection Date: 05/02/23 08:32  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

**Results by Diss. Metals by ICP/MS (Provisional Be,Cu 6520)**

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|---------------|-------------|---------------|-----------|------------|--------------|-----------|-------------------------|----------------------|
| Copper           | 1.50          | U           | 3.00          | 1.00      | 1.50       | ug/L         | 1         |                         | 05/19/23 20:56       |

**Batch Information**

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:56  
 Container ID: 1231846025-B

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

### Results of RM 12.5 - Pillars - FieldBlank

Client Sample ID: **RM 12.5 - Pillars - FieldBlank**  
 Client Project ID: **Kenai River Baseline Water Qua**  
 Lab Sample ID: 1231846025  
 Lab Project ID: 1231846

Collection Date: 05/02/23 08:32  
 Received Date: 05/04/23 08:51  
 Matrix: Water (Surface, Eff., Ground)  
 Solids (%):  
 Location:

### Results by Dissolved Metals by ICP/MS

| Parameter | Result | Qual | LOQ/CL | DL    | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|-------|-------|-------|----|------------------|----------------|
| Arsenic   | 2.50   | U    | 5.00   | 1.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:56 |
| Cadmium   | 0.250  | U    | 0.500  | 0.150 | 0.250 | ug/L  | 1  |                  | 05/19/23 20:56 |
| Chromium  | 2.50   | U    | 5.00   | 2.50  | 2.50  | ug/L  | 1  |                  | 05/19/23 20:56 |
| Lead      | 1.00   | U    | 2.00   | 0.500 | 1.00  | ug/L  | 1  |                  | 05/19/23 20:56 |
| Zinc      | 8.97   | J    | 10.0   | 3.10  | 5.00  | ug/L  | 1  |                  | 05/19/23 20:56 |

### Batch Information

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Analyst: HGS  
 Analytical Date/Time: 05/19/23 20:56  
 Container ID: 1231846025-B

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 05/16/23 15:20  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

### Method Blank

Blank ID: MB for HBN 1854932 [MXX/35860]  
 Blank Lab ID: 1712761

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1231846001, 1231846002, 1231846003, 1231846004, 1231846005, 1231846006, 1231846007, 1231846008, 1231846009, 1231846010, 1231846011, 1231846012, 1231846013, 1231846024, 1231846025

### Results by EP200.8

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|------------|--------------|
| Arsenic          | 2.50U          | 5.00          | 1.50      | 2.50       | ug/L         |
| Cadmium          | 0.250U         | 0.500         | 0.150     | 0.250      | ug/L         |
| Chromium         | 2.50U          | 5.00          | 2.50      | 2.50       | ug/L         |
| Copper           | 1.50U          | 3.00          | 1.00      | 1.50       | ug/L         |
| Lead             | 1.00U          | 2.00          | 0.500     | 1.00       | ug/L         |
| Zinc             | 11.3*          | 10.0          | 3.10      | 5.00       | ug/L         |

### Batch Information

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Instrument: P7 Agilent 7800  
 Analyst: HGS  
 Analytical Date/Time: 5/19/2023 7:56:00PM

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 5/16/2023 3:20:00PM  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11931  
 Analytical Method: EP200.8  
 Instrument: P7 Agilent 7800  
 Analyst: HGS  
 Analytical Date/Time: 5/22/2023 11:49:34AM

Prep Batch: MXX35860  
 Prep Method: E200.2  
 Prep Date/Time: 5/16/2023 3:20:00PM  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Print Date: 06/23/2023 2:56:40PM

### Blank Spike Summary

Blank Spike ID: LCS for HBN 1231846 [MXX35860]  
 Blank Spike Lab ID: 1712762  
 Date Analyzed: 05/19/2023 19:58

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1231846001, 1231846002, 1231846003, 1231846004, 1231846005, 1231846006, 1231846007,  
 1231846008, 1231846009, 1231846010, 1231846011, 1231846012, 1231846013, 1231846024,  
 1231846025

### Results by EP200.8

| Parameter | Blank Spike (ug/L) |        |         | CL         |
|-----------|--------------------|--------|---------|------------|
|           | Spike              | Result | Rec (%) |            |
| Arsenic   | 1000               | 996    | 100     | ( 85-115 ) |
| Cadmium   | 100                | 93.5   | 94      | ( 85-115 ) |
| Chromium  | 400                | 426    | 107     | ( 85-115 ) |
| Copper    | 1000               | 1070   | 107     | ( 85-115 ) |
| Lead      | 1000               | 1010   | 101     | ( 85-115 ) |
| Zinc      | 1000               | 1070   | 107     | ( 85-115 ) |

### Batch Information

Analytical Batch: **MMS11929**  
 Analytical Method: **EP200.8**  
 Instrument: **P7 Agilent 7800**  
 Analyst: **HGS**

Prep Batch: **MXX35860**  
 Prep Method: **E200.2**  
 Prep Date/Time: **05/16/2023 15:20**  
 Spike Init Wt./Vol.: 1000 ug/L Extract Vol: 50 mL  
 Dupe Init Wt./Vol.: Extract Vol:

Print Date: 06/23/2023 2:56:43PM

### Matrix Spike Summary

Original Sample ID: 1712984  
 MS Sample ID: 1712990 MS  
 MSD Sample ID:

Analysis Date: 05/19/2023 20:08  
 Analysis Date: 05/19/2023 20:11  
 Analysis Date:  
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1231846001, 1231846002, 1231846003, 1231846004, 1231846005, 1231846006, 1231846007, 1231846008, 1231846009, 1231846010, 1231846011, 1231846012, 1231846013, 1231846024, 1231846025

### Results by EP200.8

| Parameter | Sample | Matrix Spike (ug/L) |        |         | Spike Duplicate (ug/L) |        |         | CL     | RPD (%) | RPD CL |
|-----------|--------|---------------------|--------|---------|------------------------|--------|---------|--------|---------|--------|
|           |        | Spike               | Result | Rec (%) | Spike                  | Result | Rec (%) |        |         |        |
| Arsenic   | 2.50U  | 1000                | 1020   | 102     |                        |        |         | 70-130 |         |        |
| Cadmium   | 0.595  | 100                 | 94.3   | 94      |                        |        |         | 70-130 |         |        |
| Chromium  | 24.1   | 400                 | 405    | 95      |                        |        |         | 70-130 |         |        |
| Copper    | 2.95J  | 1000                | 1030   | 103     |                        |        |         | 70-130 |         |        |
| Lead      | 1.00U  | 1000                | 1010   | 101     |                        |        |         | 70-130 |         |        |
| Zinc      | 11.6   | 1000                | 1040   | 102     |                        |        |         | 70-130 |         |        |

### Batch Information

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Instrument: P7 Agilent 7800  
 Analyst: HGS  
 Analytical Date/Time: 5/19/2023 8:11:18PM

Prep Batch: MXX35860  
 Prep Method: DW Digest for Metals on ICP-MS  
 Prep Date/Time: 5/16/2023 3:20:09PM  
 Prep Initial Wt./Vol.: 20.00mL  
 Prep Extract Vol: 50.00mL

Print Date: 06/23/2023 2:56:44PM



### Matrix Spike Summary

Original Sample ID: 1712985  
 MS Sample ID: 1712991 MS  
 MSD Sample ID:

Analysis Date: 05/19/2023 20:13  
 Analysis Date: 05/19/2023 20:15  
 Analysis Date:  
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1231846001, 1231846002, 1231846003, 1231846004, 1231846005, 1231846006, 1231846007, 1231846008, 1231846009, 1231846010, 1231846011, 1231846012, 1231846013, 1231846024, 1231846025

### Results by EP200.8

| Parameter | Sample | Matrix Spike (ug/L) |        |         | Spike Duplicate (ug/L) |        |         | CL     | RPD (%) | RPD CL |
|-----------|--------|---------------------|--------|---------|------------------------|--------|---------|--------|---------|--------|
|           |        | Spike               | Result | Rec (%) | Spike                  | Result | Rec (%) |        |         |        |
| Arsenic   | 3.08J  | 1000                | 961    | 96      |                        |        |         | 70-130 |         |        |
| Cadmium   | 4.41   | 100                 | 99.5   | 95      |                        |        |         | 70-130 |         |        |
| Chromium  | 2.50U  | 400                 | 396    | 99      |                        |        |         | 70-130 |         |        |
| Copper    | 538    | 1000                | 1510   | 98      |                        |        |         | 70-130 |         |        |
| Lead      | 81.0   | 1000                | 1110   | 103     |                        |        |         | 70-130 |         |        |
| Zinc      | 943    | 1000                | 2020   | 107     |                        |        |         | 70-130 |         |        |

### Batch Information

Analytical Batch: MMS11929  
 Analytical Method: EP200.8  
 Instrument: P7 Agilent 7800  
 Analyst: HGS  
 Analytical Date/Time: 5/19/2023 8:15:00PM

Prep Batch: MXX35860  
 Prep Method: DW Digest for Metals on ICP-MS  
 Prep Date/Time: 5/16/2023 3:20:09PM  
 Prep Initial Wt./Vol.: 20.00mL  
 Prep Extract Vol: 50.00mL

Analytical Batch: MMS11931  
 Analytical Method: EP200.8  
 Instrument: P7 Agilent 7800  
 Analyst: HGS  
 Analytical Date/Time: 5/22/2023 11:54:53AM

Prep Batch: MXX35860  
 Prep Method: DW Digest for Metals on ICP-MS  
 Prep Date/Time: 5/16/2023 3:20:09PM  
 Prep Initial Wt./Vol.: 20.00mL  
 Prep Extract Vol: 50.00mL

Print Date: 06/23/2023 2:56:44PM

### Method Blank

Blank ID: MB for HBN 1856254 [MXX/35877]  
 Blank Lab ID: 1714017

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1231846001, 1231846002, 1231846004, 1231846008, 1231846009, 1231846010, 1231846011, 1231846012

### Results by EP200.8

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|------------|--------------|
| Zinc             | 15.9*          | 10.0          | 3.10      | 5.00       | ug/L         |

### Batch Information

Analytical Batch: MMS11940  
 Analytical Method: EP200.8  
 Instrument: P7 Agilent 7800  
 Analyst: HGS  
 Analytical Date/Time: 5/30/2023 6:02:29PM

Prep Batch: MXX35877  
 Prep Method: E200.2  
 Prep Date/Time: 5/23/2023 1:45:26PM  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Print Date: 06/23/2023 2:56:46PM

## Blank Spike Summary

Blank Spike ID: LCS for HBN 1231846 [MXX35877]  
 Blank Spike Lab ID: 1714018  
 Date Analyzed: 05/30/2023 18:05

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1231846001, 1231846002, 1231846004, 1231846008, 1231846009, 1231846010, 1231846011, 1231846012

## Results by EP200.8

| Parameter | Blank Spike (ug/L) |        |         | CL         |
|-----------|--------------------|--------|---------|------------|
|           | Spike              | Result | Rec (%) |            |
| Zinc      | 1000               | 1000   | 100     | ( 85-115 ) |

## Batch Information

Analytical Batch: **MMS11940**  
 Analytical Method: **EP200.8**  
 Instrument: **P7 Agilent 7800**  
 Analyst: **HGS**

Prep Batch: **MXX35877**  
 Prep Method: **E200.2**  
 Prep Date/Time: **05/23/2023 13:45**  
 Spike Init Wt./Vol.: 1000 ug/L Extract Vol: 50 mL  
 Dupe Init Wt./Vol.: Extract Vol:

Print Date: 06/23/2023 2:56:48PM

### Matrix Spike Summary

Original Sample ID: 1714027  
 MS Sample ID: 1714032 MS  
 MSD Sample ID:

Analysis Date: 05/30/2023 18:14  
 Analysis Date: 05/30/2023 18:16  
 Analysis Date:  
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1231846001, 1231846002, 1231846004, 1231846008, 1231846009, 1231846010, 1231846011, 1231846012

### Results by EP200.8

| Parameter | Sample | Matrix Spike (ug/L) |        |         | Spike Duplicate (ug/L) |        |         | CL     | RPD (%) | RPD CL |
|-----------|--------|---------------------|--------|---------|------------------------|--------|---------|--------|---------|--------|
|           |        | Spike               | Result | Rec (%) | Spike                  | Result | Rec (%) |        |         |        |
| Zinc      | 23.8   | 1000                | 1020   | 100     |                        |        |         | 70-130 |         |        |

### Batch Information

Analytical Batch: MMS11940  
 Analytical Method: EP200.8  
 Instrument: P7 Agilent 7800  
 Analyst: HGS  
 Analytical Date/Time: 5/30/2023 6:16:54PM

Prep Batch: MX35877  
 Prep Method: DW Digest for Metals on ICP-MS  
 Prep Date/Time: 5/23/2023 1:45:26PM  
 Prep Initial Wt./Vol.: 20.00mL  
 Prep Extract Vol: 50.00mL

Print Date: 06/23/2023 2:56:49PM

### Matrix Spike Summary

Original Sample ID: 1714066  
 MS Sample ID: 1714067 MS  
 MSD Sample ID:

Analysis Date: 05/30/2023 18:09  
 Analysis Date: 05/30/2023 18:12  
 Analysis Date:  
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1231846001, 1231846002, 1231846004, 1231846008, 1231846009, 1231846010, 1231846011, 1231846012

### Results by EP200.8

| Parameter | Sample | Matrix Spike (ug/L) |        |         | Spike Duplicate (ug/L) |        |         | CL     | RPD (%) | RPD CL |
|-----------|--------|---------------------|--------|---------|------------------------|--------|---------|--------|---------|--------|
|           |        | Spike               | Result | Rec (%) | Spike                  | Result | Rec (%) |        |         |        |
| Zinc      | 18.4   | 1000                | 1020   | 100     |                        |        |         | 70-130 |         |        |

### Batch Information

Analytical Batch: MMS11940  
 Analytical Method: EP200.8  
 Instrument: P7 Agilent 7800  
 Analyst: HGS  
 Analytical Date/Time: 5/30/2023 6:12:25PM

Prep Batch: MX35877  
 Prep Method: DW Digest for Metals on ICP-MS  
 Prep Date/Time: 5/23/2023 1:45:26PM  
 Prep Initial Wt./Vol.: 20.00mL  
 Prep Extract Vol: 50.00mL

Print Date: 06/23/2023 2:56:49PM

### Method Blank

Blank ID: MB for HBN 1856536 [MXX/35898]  
 Blank Lab ID: 1715248

Matrix: Water (Surface, Eff., Ground)

QC for Samples:  
 1231846001, 1231846008, 1231846009, 1231846011, 1231846012

### Results by EP200.8

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|------------|--------------|
| Zinc             | 4.08J          | 10.0          | 3.10      | 5.00       | ug/L         |

### Batch Information

Analytical Batch: MMS11946  
 Analytical Method: EP200.8  
 Instrument: P7 Agilent 7800  
 Analyst: ACF  
 Analytical Date/Time: 6/6/2023 1:37:55PM

Prep Batch: MXX35898  
 Prep Method: E200.2  
 Prep Date/Time: 6/1/2023 4:04:22PM  
 Prep Initial Wt./Vol.: 20 mL  
 Prep Extract Vol: 50 mL

Print Date: 06/23/2023 2:56:50PM

### Blank Spike Summary

Blank Spike ID: LCS for HBN 1231846 [MXX35898]  
 Blank Spike Lab ID: 1715249  
 Date Analyzed: 06/06/2023 13:40

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1231846001, 1231846008, 1231846009, 1231846011, 1231846012

### Results by EP200.8

| Parameter | Blank Spike (ug/L) |        |         | CL         |
|-----------|--------------------|--------|---------|------------|
|           | Spike              | Result | Rec (%) |            |
| Zinc      | 1000               | 986    | 99      | ( 85-115 ) |

### Batch Information

Analytical Batch: **MMS11946**  
 Analytical Method: **EP200.8**  
 Instrument: **P7 Agilent 7800**  
 Analyst: **ACF**

Prep Batch: **MXX35898**  
 Prep Method: **E200.2**  
 Prep Date/Time: **06/01/2023 16:04**  
 Spike Init Wt./Vol.: 1000 ug/L Extract Vol: 50 mL  
 Dupe Init Wt./Vol.: Extract Vol:

Print Date: 06/23/2023 2:56:53PM

### Matrix Spike Summary

Original Sample ID: 1715251  
 MS Sample ID: 1715253 MS  
 MSD Sample ID:

Analysis Date: 06/06/2023 13:45  
 Analysis Date: 06/06/2023 13:47  
 Analysis Date:  
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1231846011

### Results by EP200.8

| Parameter | Sample | Matrix Spike (ug/L) |        |         | Spike Duplicate (ug/L) |        |         | CL     | RPD (%) | RPD CL |
|-----------|--------|---------------------|--------|---------|------------------------|--------|---------|--------|---------|--------|
|           |        | Spike               | Result | Rec (%) | Spike                  | Result | Rec (%) |        |         |        |
| Zinc      | 13.7   | 1000                | 1030   | 101     |                        |        |         | 70-130 |         |        |

### Batch Information

Analytical Batch: MMS11946  
 Analytical Method: EP200.8  
 Instrument: P7 Agilent 7800  
 Analyst: ACF  
 Analytical Date/Time: 6/6/2023 1:47:00PM

Prep Batch: MX35898  
 Prep Method: DW Digest for Metals on ICP-MS  
 Prep Date/Time: 6/1/2023 4:04:22PM  
 Prep Initial Wt./Vol.: 20.00mL  
 Prep Extract Vol: 50.00mL

Print Date: 06/23/2023 2:56:54PM



### Matrix Spike Summary

Original Sample ID: 1715252  
 MS Sample ID: 1715254 MS  
 MSD Sample ID:

Analysis Date: 06/06/2023 13:49  
 Analysis Date: 06/06/2023 13:52  
 Analysis Date:  
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1231846001, 1231846008, 1231846009, 1231846012

### Results by EP200.8

| Parameter | Sample | Matrix Spike (ug/L) |        |         | Spike Duplicate (ug/L) |        |         | CL     | RPD (%) | RPD CL |
|-----------|--------|---------------------|--------|---------|------------------------|--------|---------|--------|---------|--------|
|           |        | Spike               | Result | Rec (%) | Spike                  | Result | Rec (%) |        |         |        |
| Zinc      | 67.2   | 1000                | 1110   | 104     |                        |        |         | 70-130 |         |        |

### Batch Information

Analytical Batch: MMS11946  
 Analytical Method: EP200.8  
 Instrument: P7 Agilent 7800  
 Analyst: ACF  
 Analytical Date/Time: 6/6/2023 1:52:00PM

Prep Batch: MXX35898  
 Prep Method: DW Digest for Metals on ICP-MS  
 Prep Date/Time: 6/1/2023 4:04:22PM  
 Prep Initial Wt./Vol.: 20.00mL  
 Prep Extract Vol: 50.00mL

Print Date: 06/23/2023 2:56:54PM

### Method Blank

Blank ID: MB for HBN 1854368 (WFI/3037)  
 Blank Lab ID: 1711742

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1231846001, 1231846002, 1231846003, 1231846004, 1231846005, 1231846006, 1231846007, 1231846008, 1231846009,  
 1231846010, 1231846011, 1231846012, 1231846013, 1231846014, 1231846015, 1231846016, 1231846017, 1231846018,  
 1231846019, 1231846020, 1231846021, 1231846022, 1231846023

### Results by SM21 4500NO3-F

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

### Batch Information

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Instrument: Astoria segmented flow  
 Analyst: EBH  
 Analytical Date/Time: 5/5/2023 2:35:50PM

Print Date: 06/23/2023 2:56:55PM

### Method Blank

Blank ID: MB for HBN 1854368 (WFI/3037)

Blank Lab ID: 1711750

QC for Samples:

1231846001, 1231846002, 1231846003

Matrix: Water (Surface, Eff., Ground)

### Results by SM21 4500NO3-F

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

### Batch Information

Analytical Batch: WFI3037

Analytical Method: SM21 4500NO3-F

Instrument: Astoria segmented flow

Analyst: EBH

Analytical Date/Time: 5/5/2023 1:06:18PM

Print Date: 06/23/2023 2:56:55PM

## Blank Spike Summary

Blank Spike ID: LCS for HBN 1231846 [WFI3037]

Blank Spike Lab ID: 1711744

Date Analyzed: 05/05/2023 14:34

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1231846001, 1231846002, 1231846003, 1231846004, 1231846005, 1231846006, 1231846007, 1231846008, 1231846009, 1231846010, 1231846011, 1231846012, 1231846013, 1231846014, 1231846015, 1231846016, 1231846017, 1231846018, 1231846019, 1231846020, 1231846021,

## Results by SM21 4500NO3-F

| Parameter               | Blank Spike (mg/L) |        |         | CL         |
|-------------------------|--------------------|--------|---------|------------|
|                         | Spike              | Result | Rec (%) |            |
| Nitrate-N               | 2.5                | 2.53   | 101     | ( 70-130 ) |
| Nitrite-N               | 2.5                | 2.43   | 97      | ( 90-110 ) |
| Total Nitrate/Nitrite-N | 5                  | 4.96   | 99      | ( 90-110 ) |

## Batch Information

Analytical Batch: **WFI3037**

Analytical Method: **SM21 4500NO3-F**

Instrument: **Astoria segmented flow**

Analyst: **EBH**

Print Date: 06/23/2023 2:56:58PM

### Blank Spike Summary

Blank Spike ID: LCS for HBN 1231846 [WFI3037]  
 Blank Spike Lab ID: 1711752  
 Date Analyzed: 05/05/2023 13:04

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1231846001, 1231846002, 1231846003

### Results by SM21 4500NO3-F

| Parameter               | Blank Spike (mg/L) |        |         | CL         |
|-------------------------|--------------------|--------|---------|------------|
|                         | Spike              | Result | Rec (%) |            |
| Nitrate-N               | 2.5                | 2.80   | 112     | ( 70-130 ) |
| Nitrite-N               | 2.5                | 2.59   | 104     | ( 90-110 ) |
| Total Nitrate/Nitrite-N | 5                  | 5.39   | 108     | ( 90-110 ) |

### Batch Information

Analytical Batch: **WFI3037**  
 Analytical Method: **SM21 4500NO3-F**  
 Instrument: **Astoria segmented flow**  
 Analyst: **EBH**

Print Date: 06/23/2023 2:56:58PM

### Matrix Spike Summary

Original Sample ID: 1231692001  
 MS Sample ID: 1711649 MS  
 MSD Sample ID: 1711650 MSD

Analysis Date: 05/05/2023 12:24  
 Analysis Date: 05/05/2023 12:26  
 Analysis Date: 05/05/2023 12:27  
 Matrix: Drinking Water

QC for Samples:

### Results by SM21 4500NO3-F

| Parameter               | Sample | Matrix Spike (mg/L) |        |         | Spike Duplicate (mg/L) |        |         | CL     | RPD (%) | RPD CL  |
|-------------------------|--------|---------------------|--------|---------|------------------------|--------|---------|--------|---------|---------|
|                         |        | Spike               | Result | Rec (%) | Spike                  | Result | Rec (%) |        |         |         |
| Total Nitrate/Nitrite-N | 0.966  | 5.00                | 5.74   | 96      | 5.00                   | 5.74   | 95      | 90-110 | 0.09    | (< 25 ) |

### Batch Information

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Instrument: Astoria segmented flow  
 Analyst: EBH  
 Analytical Date/Time: 5/5/2023 12:26:00PM

Print Date: 06/23/2023 2:56:59PM

### Matrix Spike Summary

Original Sample ID: 1231784001  
 MS Sample ID: 1711651 MS  
 MSD Sample ID: 1711652 MSD

Analysis Date: 05/05/2023 13:09  
 Analysis Date: 05/05/2023 13:11  
 Analysis Date: 05/05/2023 13:13  
 Matrix: Drinking Water

QC for Samples: 1231846001, 1231846002, 1231846003, 1231846004

### Results by SM21 4500NO3-F

| Parameter               | Sample | Matrix Spike (mg/L) |        |         | Spike Duplicate (mg/L) |        |         | CL     | RPD (%) | RPD CL  |
|-------------------------|--------|---------------------|--------|---------|------------------------|--------|---------|--------|---------|---------|
|                         |        | Spike               | Result | Rec (%) | Spike                  | Result | Rec (%) |        |         |         |
| Total Nitrate/Nitrite-N | 3.90   | 5.00                | 8.58   | 94      | 5.00                   | 8.36   | 89 *    | 90-110 | 2.60    | (< 25 ) |

### Batch Information

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Instrument: Astoria segmented flow  
 Analyst: EBH  
 Analytical Date/Time: 5/5/2023 1:11:00PM

Print Date: 06/23/2023 2:56:59PM

### Matrix Spike Summary

Original Sample ID: 1231846004  
 MS Sample ID: 1711653 MS  
 MSD Sample ID: 1711654 MSD

Analysis Date: 05/05/2023 14:39  
 Analysis Date: 05/05/2023 14:41  
 Analysis Date: 05/05/2023 14:42  
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1231846001, 1231846002, 1231846003, 1231846004, 1231846005, 1231846006, 1231846007, 1231846008, 1231846009, 1231846010, 1231846011, 1231846012, 1231846013, 1231846014, 1231846015, 1231846016, 1231846017, 1231846018, 1231846019, 1231846020, 1231846021.

### Results by SM21 4500NO3-F

| Parameter               | Sample | Matrix Spike (mg/L) |        |         | Spike Duplicate (mg/L) |        |         | CL     | RPD (%) | RPD CL  |
|-------------------------|--------|---------------------|--------|---------|------------------------|--------|---------|--------|---------|---------|
|                         |        | Spike               | Result | Rec (%) | Spike                  | Result | Rec (%) |        |         |         |
| Total Nitrate/Nitrite-N | 0.198J | 5.00                | 5.26   | 101     | 5.00                   | 5.46   | 105     | 90-110 | 3.70    | (< 25 ) |

### Batch Information

Analytical Batch: WFI3037  
 Analytical Method: SM21 4500NO3-F  
 Instrument: Astoria segmented flow  
 Analyst: EBH  
 Analytical Date/Time: 5/5/2023 2:41:00PM

Print Date: 06/23/2023 2:56:59PM



### Method Blank

Blank ID: MB for HBN 1854501 [WXX/14730]  
 Blank Lab ID: 1711998

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1231846010, 1231846011, 1231846012, 1231846013, 1231846014, 1231846015, 1231846016, 1231846017, 1231846018, 1231846019, 1231846020

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

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

### Batch Information

Analytical Batch: WDA5496  
 Analytical Method: SM21 4500P-B,E  
 Instrument: Discrete Analyzer 2  
 Analyst: MEB  
 Analytical Date/Time: 5/9/2023 2:01:50PM

Prep Batch: WXX14730  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 5/9/2023 12:00:00PM  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 06/23/2023 2:57:01PM

### Blank Spike Summary

Blank Spike ID: LCS for HBN 1231846 [WXX14730]  
 Blank Spike Lab ID: 1711999  
 Date Analyzed: 05/09/2023 14:02

Spike Duplicate ID: LCSD for HBN 1231846 [WXX14730]  
 Spike Duplicate Lab ID: 1712000  
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1231846010, 1231846011, 1231846012, 1231846013, 1231846014, 1231846015, 1231846016, 1231846017, 1231846018, 1231846019, 1231846020

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

| Parameter        | Blank Spike (mg/L) |        |         | Spike Duplicate (mg/L) |        |         | CL         | RPD (%) | RPD CL  |
|------------------|--------------------|--------|---------|------------------------|--------|---------|------------|---------|---------|
|                  | Spike              | Result | Rec (%) | Spike                  | Result | Rec (%) |            |         |         |
| Total Phosphorus | 0.2                | 0.195  | 98      | 0.2                    | 0.194  | 97      | ( 75-125 ) | 0.41    | (< 25 ) |

### Batch Information

Analytical Batch: **WDA5496**  
 Analytical Method: **SM21 4500P-B,E**  
 Instrument: **Discrete Analyzer 2**  
 Analyst: **MEB**

Prep Batch: **WXX14730**  
 Prep Method: **SM21 4500P-B,E**  
 Prep Date/Time: **05/09/2023 12:00**  
 Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL  
 Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

Print Date: 06/23/2023 2:57:03PM

### Matrix Spike Summary

Original Sample ID: 1231580003  
 MS Sample ID: 1712001 MS  
 MSD Sample ID: 1712002 MSD

Analysis Date: 05/09/2023 14:07  
 Analysis Date: 05/09/2023 14:08  
 Analysis Date: 05/09/2023 14:09  
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1231846010, 1231846011, 1231846012, 1231846013, 1231846014, 1231846015, 1231846016, 1231846017, 1231846018, 1231846019, 1231846020

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

| Parameter        | Sample | Matrix Spike (mg/L) |        |         | Spike Duplicate (mg/L) |        |         | CL     | RPD (%) | RPD CL |
|------------------|--------|---------------------|--------|---------|------------------------|--------|---------|--------|---------|--------|
|                  |        | Spike               | Result | Rec (%) | Spike                  | Result | Rec (%) |        |         |        |
| Total Phosphorus | 0.0639 | 0.200               | .269   | 102     | 0.200                  | 0.280  | 108     | 75-125 | 4.20    | (< 7)  |

### Batch Information

Analytical Batch: WDA5496  
 Analytical Method: SM21 4500P-B,E  
 Instrument: Discrete Analyzer 2  
 Analyst: MEB  
 Analytical Date/Time: 5/9/2023 2:08:40PM

Prep Batch: WXX14730  
 Prep Method: Total Phosphorus (W) Ext.  
 Prep Date/Time: 5/9/2023 12:00:00PM  
 Prep Initial Wt./Vol.: 25.00mL  
 Prep Extract Vol: 25.00mL

Print Date: 06/23/2023 2:57:04PM

### Method Blank

Blank ID: MB for HBN 1855356 [WXX/14745]  
 Blank Lab ID: 1713324

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1231846001, 1231846002, 1231846003, 1231846004, 1231846005, 1231846006, 1231846007, 1231846008, 1231846009,  
 1231846021, 1231846022, 1231846023

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

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

### Batch Information

Analytical Batch: WDA5503  
 Analytical Method: SM21 4500P-B,E  
 Instrument: Discrete Analyzer 2  
 Analyst: MEB  
 Analytical Date/Time: 5/17/2023 4:32:08PM

Prep Batch: WXX14745  
 Prep Method: SM21 4500P-B,E  
 Prep Date/Time: 5/17/2023 12:30:00PM  
 Prep Initial Wt./Vol.: 25 mL  
 Prep Extract Vol: 25 mL

Print Date: 06/23/2023 2:57:05PM

### Blank Spike Summary

Blank Spike ID: LCS for HBN 1231846 [WXX14745]  
 Blank Spike Lab ID: 1713325  
 Date Analyzed: 05/17/2023 16:33

Spike Duplicate ID: LCSD for HBN 1231846 [WXX14745]  
 Spike Duplicate Lab ID: 1713326  
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1231846001, 1231846002, 1231846003, 1231846004, 1231846005, 1231846006, 1231846007, 1231846008, 1231846009, 1231846021, 1231846022, 1231846023

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

| Parameter        | Blank Spike (mg/L) |        |         | Spike Duplicate (mg/L) |        |         | CL         | RPD (%) | RPD CL  |
|------------------|--------------------|--------|---------|------------------------|--------|---------|------------|---------|---------|
|                  | Spike              | Result | Rec (%) | Spike                  | Result | Rec (%) |            |         |         |
| Total Phosphorus | 0.2                | 0.188  | 94      | 0.2                    | 0.185  | 92      | ( 75-125 ) | 1.50    | (< 25 ) |

### Batch Information

Analytical Batch: **WDA5503**  
 Analytical Method: **SM21 4500P-B,E**  
 Instrument: **Discrete Analyzer 2**  
 Analyst: **MEB**

Prep Batch: **WXX14745**  
 Prep Method: **SM21 4500P-B,E**  
 Prep Date/Time: **05/17/2023 12:30**  
 Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL  
 Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

Print Date: 06/23/2023 2:57:07PM

### Matrix Spike Summary

Original Sample ID: 1231796001  
 MS Sample ID: 1713327 MS  
 MSD Sample ID: 1713328 MSD

Analysis Date: 05/17/2023 16:37  
 Analysis Date: 05/17/2023 16:37  
 Analysis Date: 05/17/2023 16:38  
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1231846001, 1231846002, 1231846003, 1231846004, 1231846005, 1231846006, 1231846007, 1231846008, 1231846009, 1231846021, 1231846022, 1231846023

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

| Parameter        | Sample  | Matrix Spike (mg/L) |        |         | Spike Duplicate (mg/L) |        |         | CL     | RPD (%) | RPD CL |
|------------------|---------|---------------------|--------|---------|------------------------|--------|---------|--------|---------|--------|
|                  |         | Spike               | Result | Rec (%) | Spike                  | Result | Rec (%) |        |         |        |
| Total Phosphorus | 0.0255J | 0.200               | .216   | 95      | 0.200                  | 0.220  | 97      | 75-125 | 2.10    | (< 7)  |

### Batch Information

Analytical Batch: WDA5503  
 Analytical Method: SM21 4500P-B,E  
 Instrument: Discrete Analyzer 2  
 Analyst: MEB  
 Analytical Date/Time: 5/17/2023 4:37:58PM

Prep Batch: WXX14745  
 Prep Method: Total Phosphorus (W) Ext.  
 Prep Date/Time: 5/17/2023 12:30:00PM  
 Prep Initial Wt./Vol.: 25.00mL  
 Prep Extract Vol: 25.00mL

Print Date: 06/23/2023 2:57:08PM



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|--|-----------|-----------|-----------|-----------|---|-----------|-----------|-----------|------------|---|------------|--|------------|------------|----------------|------------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| <b>CLIENT:</b> Kenai Watershed Forum                               |           |           |           |           | <b>Instructions: Sections 1 - 5 must be filled out.</b><br>Omissions may delay the onset of analysis. |           |           |           |            |   |            |  |            |            | _ 1 _ of _ 3 _ |            |   |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |             |
| <b>CONTACT:</b> Benjamin Meyer                                     |           |           |           |           | <b>PHONE #:</b> 907-232-0280  |           |           |           |            | Section 3   |            | <b>1231846</b>                                 |            |            |                |            |   |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |             |
| <b>PROJECT NAME:</b> Kenai River Baseline Water Quality Monitoring |           |           |           |           | <b>PROJECT/ PWSID/ PERMIT#:</b>   |           |           |           |            | #<br>C<br>O<br>N<br>T<br>A<br>I<br>N<br>E<br>R<br>S |            | Analysis*                                      |            |            |                |            | NOTE:<br>*The following analyses require specific method and/or compound list: BTEX, Metals, PFAS |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |             |
| <b>REPORTS TO:</b> Benjamin Meyer                                  |           |           |           |           | <b>E-MAIL:</b> ben@kenaiwatershed.org   |           |           |           |            |   |            | Preserv  |            |            |                |            |   |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |             |
| <b>INVOICE TO:</b> Kenai Watershed Forum                           |           |           |           |           | <b>QUOTE #:</b>   |           |           |           |            |   |            | MI (Multi-incremental)                         |            |            |                |            |   |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |             |
| <b>P.O. #:</b>   |           |           |           |           | <b>Profile #:</b> 30346610002   |           |           |           |            |   |            | Total NO3/NO2(SM21 4500NO3-F), Total P(SM4500) |            |            |                |            |   |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |             |
| Section 1  | Section 2 | Section 3 | Section 4 | Section 5 | Section 6   | Section 7 | Section 8 | Section 9 | Section 10 | Section 11  | Section 12 | Section 13                                     | Section 14 | Section 15 | Section 16     | Section 17 | Section 18  | Section 19 | Section 20 | Section 21 | Section 22 | Section 23 | Section 24 | Section 25 | Section 26 | Section 27 | Section 28 | Section 29 | Section 30 | Section 31 | Section 32 | Section 33 | Section 34 | Section 35 | Section 36 | Section 37 | Section 38 | Section 39 | Section 40 | Section 41 | Section 42 | Section 43 | Section 44 | Section 45 | Section 46 | Section 47 | Section 48 | Section 49 | Section 50 | Section 51 | Section 52 | Section 53 | Section 54 | Section 55 | Section 56 | Section 57 | Section 58 | Section 59 | Section 60 | Section 61 | Section 62 | Section 63 | Section 64 | Section 65 | Section 66 | Section 67 | Section 68 | Section 69 | Section 70 | Section 71 | Section 72 | Section 73 | Section 74 | Section 75 | Section 76 | Section 77 | Section 78 | Section 79 | Section 80 | Section 81 | Section 82 | Section 83 | Section 84 | Section 85 | Section 86 | Section 87 | Section 88 | Section 89 | Section 90 | Section 91 | Section 92 | Section 93 | Section 94 | Section 95 | Section 96 | Section 97 | Section 98 | Section 99 | Section 100 |
| Section 1  | Section 2 | Section 3 | Section 4 | Section 5 | Section 6   | Section 7 | Section 8 | Section 9 | Section 10 | Section 11  | Section 12 | Section 13                                     | Section 14 | Section 15 | Section 16     | Section 17 | Section 18  | Section 19 | Section 20 | Section 21 | Section 22 | Section 23 | Section 24 | Section 25 | Section 26 | Section 27 | Section 28 | Section 29 | Section 30 | Section 31 | Section 32 | Section 33 | Section 34 | Section 35 | Section 36 | Section 37 | Section 38 | Section 39 | Section 40 | Section 41 | Section 42 | Section 43 | Section 44 | Section 45 | Section 46 | Section 47 | Section 48 | Section 49 | Section 50 | Section 51 | Section 52 | Section 53 | Section 54 | Section 55 | Section 56 | Section 57 | Section 58 | Section 59 | Section 60 | Section 61 | Section 62 | Section 63 | Section 64 | Section 65 | Section 66 | Section 67 | Section 68 | Section 69 | Section 70 | Section 71 | Section 72 | Section 73 | Section 74 | Section 75 | Section 76 | Section 77 | Section 78 | Section 79 | Section 80 | Section 81 | Section 82 | Section 83 | Section 84 | Section 85 | Section 86 | Section 87 | Section 88 | Section 89 | Section 90 | Section 91 | Section 92 | Section 93 | Section 94 | Section 95 | Section 96 | Section 97 | Section 98 | Section 99 | Section 100 |
| Section 1  | Section 2 | Section 3 | Section 4 | Section 5 | Section 6   | Section 7 | Section 8 | Section 9 | Section 10 | Section 11  | Section 12 | Section 13                                     | Section 14 | Section 15 | Section 16     | Section 17 | Section 18  | Section 19 | Section 20 | Section 21 | Section 22 | Section 23 | Section 24 | Section 25 | Section 26 | Section 27 | Section 28 | Section 29 | Section 30 | Section 31 | Section 32 | Section 33 | Section 34 | Section 35 | Section 36 | Section 37 | Section 38 | Section 39 | Section 40 | Section 41 | Section 42 | Section 43 | Section 44 | Section 45 | Section 46 | Section 47 | Section 48 | Section 49 | Section 50 | Section 51 | Section 52 | Section 53 | Section 54 | Section 55 | Section 56 | Section 57 | Section 58 | Section 59 | Section 60 | Section 61 | Section 62 | Section 63 | Section 64 | Section 65 | Section 66 | Section 67 | Section 68 | Section 69 | Section 70 | Section 71 | Section 72 | Section 73 | Section 74 | Section 75 | Section 76 | Section 77 | Section 78 | Section 79 | Section 80 | Section 81 | Section 82 | Section 83 | Section 84 | Section 85 | Section 86 | Section 87 | Section 88 | Section 89 | Section 90 | Section 91 | Section 92 | Section 93 | Section 94 | Section 95 | Section 96 | Section 97 | Section 98 | Section 99 | Section 100 |
| Section 1  | Section 2 | Section 3 | Section 4 | Section 5 | Section 6   | Section 7 | Section 8 | Section 9 | Section 10 | Section 11  | Section 12 | Section 13                                     | Section 14 | Section 15 | Section 16     | Section 17 | Section 18  | Section 19 | Section 20 | Section 21 | Section 22 | Section 23 | Section 24 | Section 25 | Section 26 | Section 27 | Section 28 | Section 29 | Section 30 | Section 31 | Section 32 | Section 33 | Section 34 | Section 35 | Section 36 | Section 37 | Section 38 | Section 39 | Section 40 | Section 41 | Section 42 | Section 43 | Section 44 | Section 45 | Section 46 | Section 47 | Section 48 | Section 49 | Section 50 | Section 51 | Section 52 | Section 53 | Section 54 | Section 55 | Section 56 | Section 57 | Section 58 | Section 59 | Section 60 | Section 61 | Section 62 | Section 63 | Section 64 | Section 65 | Section 66 | Section 67 | Section 68 | Section 69 | Section 70 | Section 71 | Section 72 | Section 73 | Section 74 | Section 75 | Section 76 | Section 77 | Section 78 | Section 79 | Section 80 | Section 81 | Section 82 | Section 83 | Section 84 | Section 85 | Section 86 | Section 87 | Section 88 | Section 89 | Section 90 | Section 91 | Section 92 | Section 93 | Section 94 | Section 95 | Section 96 | Section 97 | Section 98 | Section 99 | Section 100 |
| Section 1  | Section 2 | Section 3 | Section 4 | Section 5 | Section 6   | Section 7 | Section 8 | Section 9 | Section 10 | Section 11  | Section 12 | Section 13                                     | Section 14 | Section 15 | Section 16     | Section 17 | Section 18  | Section 19 | Section 20 | Section 21 | Section 22 | Section 23 | Section 24 | Section 25 | Section 26 | Section 27 | Section 28 | Section 29 | Section 30 | Section 31 | Section 32 | Section 33 | Section 34 | Section 35 | Section 36 | Section 37 | Section 38 | Section 39 | Section 40 | Section 41 | Section 42 | Section 43 | Section 44 | Section 45 | Section 46 | Section 47 | Section 48 | Section 49 | Section 50 | Section 51 | Section 52 | Section 53 | Section 54 | Section 55 | Section 56 | Section 57 | Section 58 | Section 59 | Section 60 | Section 61 | Section 62 | Section 63 | Section 64 | Section 65 | Section 66 | Section 67 | Section 68 | Section 69 | Section 70 | Section 71 | Section 72 | Section 73 | Section 74 | Section 75 | Section 76 | Section 77 | Section 78 | Section 79 | Section 80 | Section 81 | Section 82 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |             |





SGS North America Inc. CHAIN OF CUSTODY RECORD

1231846

Revised Report - Revision 1



|  |  |  |  |  |   |                                  |  |  |   |  |                          |  |  |  |                           |  |  |  |                |
|--|--|--|--|--|---|----------------------------------|--|--|---|--|--------------------------|--|--|--|---------------------------|--|--|--|----------------|
| CLIENT: Kenai Watershed Forum  |  |  |  |  | Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis. |                                  |  |  |   |  |                          |  |  |  | Page <u>2</u> of <u>3</u> |  |  |  |                |
| CONTACT: Benjamin Meyer PHONE #: 907-232-0280                                      |  |  |  |  | Section 3   |                                  | Preservative                                   |  |   |  |                          |  |  |  |                           |  |  |  |                |
| PROJECT NAME: Kenai River Baseline Water Quality Monitoring PROJECT/PWSID/PERMIT#: |  |  |  |  | CONTAINERS  | Analysis*                        |  |  |   |  |                          |  |  |  |                           | NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS |  |  |                |
| REPORTS TO: Benjamin Meyer E-MAIL: ben@kenaiwatershed.org Profile #:               |  |  |  |  |   | Comp Grab MI (Multi-incremental) |  |  |   |  |                          |  |  |  |                           |  |  |  |                |
| INVOICE TO: Kenai Watershed Forum QUOTE #: P.O. #:                                 |  |  |  |  |   |                                  |  |  |   |  |                          |  |  |  |                           |  |  |  |                |
| RESERVED for lab use   |  |  |  |  |   |                                  |  |  |   |  |                          |  |  |  |                           |  |  |  |                |
| SAMPLE IDENTIFICATION  |  |  |  |  | DATE mm/dd/yy   | TIME HH:MM                       | MATRIX/MATRIX CODE                             | #  | Total NO3/NO2(SM21 4500/NO3-F), Total P(SM4500) | Total Metals (200.7)                                 | Dissolved Metals (200.8) |  |  |  |                           |  |  |  | REMARKS/LOC ID |
| ⑩ AC AD RM 22 - Soldotna Creek   |  |  |  |  | 5/2/2023  | 9:49                             | water  | 3  | x   | x  | x                        |  |  |  |                           |  |  |  |                |
| ⑪ AC AD RM 23 - Swiftwater Park  |  |  |  |  | 5/2/2023  | 10:22                            | water  | 3  | x   | x  | x                        |  |  |  |                           |  |  |  |                |
| ⑫ AC AD RM 30 - Funny River  |  |  |  |  | 5/2/2023  | 8:57                             | water  | 3  | x   | x  | x                        |  |  |  |                           |  |  |  |                |
| ⑬ AC AD RM 31 - Morgan's Landing   |  |  |  |  | 5/2/2023  | 10:00                            | water  | 3  | x   | x  | x                        |  |  |  |                           |  |  |  |                |
| ⑭ AB RM 36 - Moose River   |  |  |  |  | 5/2/2023  | 10:38                            | water  | 2  | x   | x  |                          |  |  |  |                           |  |  |  |                |
| ⑮ AB RM 36 - Moose River-DUP   |  |  |  |  | 5/2/2023  | 10:45                            | water  | 2  | x   | x  |                          |  |  |  |                           |  |  |  |                |
| ⑯ AB RM 40 - Bing's Landing  |  |  |  |  | 5/2/2023  | 7:13                             | water  | 2  | x   | x  |                          |  |  |  |                           |  |  |  |                |
| ⑰ A RM 43 - Upstream of Dow Island   |  |  |  |  | 5/2/2023  | 9:25                             | water  | 2  | x   | ⓧ  |                          |  |  |  |                           |  |  |  |                |
| ⑱ AB RM 44 - Mouth of Killey River   |  |  |  |  | 5/2/2023  | 10:12                            | water  | 2  | x   | x  |                          |  |  |  |                           |  |  |  |                |
| ⑲ AB RM 50 - Skilak Lake Outflow   |  |  |  |  | 5/2/2023  | 8:34                             | water  | 2  | x   | x  |                          |  |  |  |                           |  |  |  |                |
| Relinquished By: (1) <i>Ben</i>  |  |  |  |  | Date 5/2/2023   | Time 14:00                       | Received By: <i>[Signature]</i>                | Section 4  |   | DOD Project? Yes <input checked="" type="checkbox"/> |                          |  | Data Deliverable Requirements: Please include Electronic Data Delivery files.              |  |                           |  |  |  |                |
| Relinquished By: (2)   |  |  |  |  | Date  | Time                             | Received By:                                   | Requested Turnaround Time and/or Special Instructions: |   |  |                          |  |  |  |                           |  |  |  |                |
| Relinquished By: (3)   |  |  |  |  | Date  | Time                             | Received By:                                   | Temp Blank °C: <i>cooled 3.2 DS2</i>                   |   |  |                          |  | Chain of Custody Seal: (Circle) <i>IF</i> INTACT BROKEN ABSENT                             |  |                           |  |  |  |                |
| Relinquished By: (4)   |  |  |  |  | Date 5/3/23   | Time 0051                        | Received For Laboratory By: <i>[Signature]</i> | or Ambient [ ]   |   |  |                          |  | Delivery Method: Hand Delivery [ ] Commerical Delivery <input checked="" type="checkbox"/> |  |                           |  |  |  |                |

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





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Form containing sections 1-5, including client information (Kenai Watershed Forum), project details (Kenai River Baseline Water Quality Monitoring), sample data table with columns for reserved use, identification, date, time, matrix, container, analysis, and remarks. Includes handwritten entries for sample IDs and times.

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| <b>CLIENT:</b><br>Kenai Watershed Forum  |                      |                          |      |      | <b>Instructions: Sections 1 - 5 must be filled out.</b><br><b>Omissions may delay the onset of analysis.</b> |  |   |   |   |  |  |  |  |  | Page <u> 1 </u> of <u> 3 </u>                                 |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|----------------------|--------------------------|------|------|--|--|---|---|---|--|--|--|--|--|---|--|--|--|---|--|--|--|-------|------|------|--|--|--|--|--|--|--|---|----------------------|--------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <b>CONTACT:</b><br>Benjamin Meyer  |                      |                          |      |      | <b>PHONE #:</b><br>907-232-0280  |  | Section 3   |   | Preservative  |  |  |  |  |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>PROJECT NAME:</b><br>Kenai River Baseline Water Quality Monitoring  |                      |                          |      |      | <b>PROJECT/ PWSID/ PERMIT#:</b>  |  | #<br>C<br>O<br>N<br>T<br>A<br>I<br>N<br>E<br>R<br>S | Comp<br>Grab<br>MI<br>(Multi-incremental) | Analysis*   |  |  |  |  |  |   |  |  |  | NOTE:<br>*The following analyses require specific method and/or compound list: BTEX, Metals, PFAS |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>REPORTS TO:</b><br>Benjamin Meyer   |                      |                          |      |      | <b>E-MAIL:</b><br>ben@kenaiwatershed.org   |  |   |   | <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <tr> <th colspan="2"></th> <th>H2SO4</th> <th>HNO3</th> <th>NONE</th> <th colspan="7"></th> </tr> <tr> <th rowspan="2">Total NO3/NO2(SM21 4500/NO3-F), Total P(SM4500)</th> <th rowspan="2">Total Metals (200.7)</th> <th rowspan="2">Dissolved Metals (200.8)</th> <th colspan="7"></th> </tr> <tr> <th></th><th></th><th></th><th></th><th></th><th></th><th></th> </tr> </table> |  |  |  |  |  |   |  |  |  |   |  |  |  | H2SO4 | HNO3 | NONE |  |  |  |  |  |  |  | Total NO3/NO2(SM21 4500/NO3-F), Total P(SM4500) | Total Metals (200.7) | Dissolved Metals (200.8) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                      | H2SO4                    | HNO3 | NONE |  |  |   |   |   |  |  |  |  |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total NO3/NO2(SM21 4500/NO3-F), Total P(SM4500)  | Total Metals (200.7) | Dissolved Metals (200.8) |      |      |  |  |   |   |   |  |  |  |  |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                      |                          |      |      |  |  |   |   |   |  |  |  |  |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>INVOICE TO:</b><br>Kenai Watershed Forum  |                      |                          |      |      | <b>QUOTE #:</b>  |  |   |   |   |  |  |  |  |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>RESERVED for lab use</b>  |                      |                          |      |      | <b>SAMPLE IDENTIFICATION</b>   |  | <b>DATE mm/dd/yy</b>                                |   | <b>TIME HH:MM</b>   |  | <b>MATRIX/ MATRIX CODE</b>                             |  |  |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                      |                          |      |      | RM 0 - No Name Creek   |  | 5/3/2022  |   | 10:30   |  | water  |  | 3  |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                      |                          |      |      | RM 1.5 - Kenai City Dock - DUP   |  | 5/3/2022  |   | 13:37   |  | water  |  | 3  |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                      |                          |      |      | RM 1.5 - Kenai City Dock   |  | 5/3/2022  |   | 13:53   |  | water  |  | 3  |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                      |                          |      |      | RM 6.5 - Cunningham Park   |  | 5/3/2022  |   | 9:22  |  | water  |  | 3  |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                      |                          |      |      | RM 10 - Beaver Creek   |  | 5/3/2022  |   | 10:05   |  | water  |  | 3  |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                      |                          |      |      | <del>RM 10.1 - Kenai River</del>   |  | <del>5/3/2022</del>                                 |   | <del></del>   |  | <del>water</del>                                       |  | <del>3</del>   |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                      |                          |      |      | RM 12.5 - Pillars  |  | 5/3/2022  |   | 8:32  |  | water  |  | 3  |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                      |                          |      |      | RM 18 - Poacher's Cove   |  | 5/3/2022  |   | 9:24  |  | water  |  | 3  |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                      |                          |      |      | RM 19 - Slikok Creek   |  | 5/3/2022  |   | 8:47  |  | water  |  | 3  |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                      |                          |      |      | RM 21 - Soldotna Bridge  |  | 5/3/2022  |   | 9:27  |  | water  |  | 3  |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Section 5</b><br>Relinquished By: (1)<br>Relinquished By: (2)<br>Relinquished By: (3)<br>Relinquished By: (4) |                      |                          |      |      | Date   |  | Time  |   | Received By:  |  | Section 4  |  | DOD Project? Yes <input checked="" type="radio"/> No <input type="radio"/> |  |   |  | Data Deliverable Requirements:<br>Please include Electronic Data Delivery files. |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                      |                          |      |      | 5/3/2022   |  | 14:00   |   |   |  |  |  | Cooler ID:   |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                      |                          |      |      | Date   |  | Time  |   | Received By:  |  | Requested Turnaround Time and/or Special Instructions: |  |  |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                      |                          |      |      | Date   |  | Time  |   | Received By:  |  |  |  |  |  |   |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                      |                          |      |      | Date   |  | Time  |   | Received For Laboratory By:   |  | Temp Blank °C:<br>_____                                |  |  |  | Chain of Custody Seal: (Circle)<br>INTACT    BROKEN    ABSENT |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                      |                          |      |      | Date   |  | Time  |   |   |  | or Ambient [ ]   |  |  |  | Delivery Method: Hand Delivery [ ] Commerical Delivery [ ]    |  |  |  |   |  |  |  |       |      |      |  |  |  |  |  |  |  |   |                      |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |





SGS North America Inc. CHAIN OF CUSTODY RECORD

1231846



|   |  |  |  |  |   |  |            |               |                             |            |  |                     |                     |   |   |  |   |  |           |  |
|---|--|--|--|--|---|--|------------|---------------|-----------------------------|------------|--|---------------------|---------------------|---|---|--|---|--|-----------|--|
| CLIENT: Kenai Watershed Forum                               |  |  |  |  | Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis. |  |            |               |                             |            |  |                     |                     |   | Page <u>2</u> of <u>3</u>   |  |   |  |           |  |
| CONTACT: Benjamin Meyer                                     |  |  |  |  | PHONE #: 907-232-0280   |  | Section 3  |               | Preservative                |            |  |                     |                     |   |   |  |   |  |           |  |
| PROJECT NAME: Kenai River Baseline Water Quality Monitoring |  |  |  |  | PROJECT/ PWSID/ PERMIT#:  |  | CONTAINERS | Analysis*     |                             |            |  |                     |                     |   |   |  |   | NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS |           |  |
| REPORTS TO: Benjamin Meyer                                  |  |  |  |  | E-MAIL: ben@kenaiwatershed.org  |  |            | Analysis*     |                             |            |  |                     |                     |   |   |  |   | REMARKS/LOC ID   |           |  |
| INVOICE TO: Kenai Watershed Forum                           |  |  |  |  | QUOTE #: P.O. #:  |  |            | Analysis*     |                             |            |  |                     |                     |   |   |  |   |  |           |  |
| RESERVED for lab use  |  |  |  |  | SAMPLE IDENTIFICATION   |  |            | DATE mm/dd/yy |                             | TIME HH:MM |  | MATRIX/ MATRIX CODE |                     | # |   | Comp Grab MI (Multi-incremental)                           |   |  | Analysis* |  |
| RM 22 - Soldotna Creek                                      |  |  |  |  | 5/2/2023  |  | 9:49       |               | water                       |            | 3  |                     | X                   |   | X   |  | X |  |           |  |
| RM 23 - Swiftwater Park                                     |  |  |  |  | 5/2/2023  |  | 10:22      |               | water                       |            | 3  |                     | X                   |   | X   |  | X |  |           |  |
| RM 30 - Funny River   |  |  |  |  | 5/2/2023  |  | 8:57       |               | water                       |            | 3  |                     | X                   |   | X   |  | X |  |           |  |
| RM 31 - Morgan's Landing                                    |  |  |  |  | 5/2/2023  |  | 10:00      |               | water                       |            | 3  |                     | X                   |   | X   |  | X |  |           |  |
| RM 36 - Moose River   |  |  |  |  | 5/2/2023  |  | 10:38      |               | water                       |            | 2  |                     | X                   |   | X   |  |   |  |           |  |
| RM 36 - Moose River-DUP                                     |  |  |  |  | 5/2/2023  |  | 10:45      |               | water                       |            | 2  |                     | X                   |   | X   |  |   |  |           |  |
| 7:13 RM 40 - Bing's Landing                                 |  |  |  |  | 5/2/2023  |  | 7:13       |               | water                       |            | 2  |                     | X                   |   | X   |  |   |  |           |  |
| RM 43 - Upstream of Dow Island                              |  |  |  |  | 5/2/2023  |  | 9:25       |               | water                       |            | 2  |                     | X                   |   | X   |  |   |  |           |  |
| RM 44 - Mouth of Killey River                               |  |  |  |  | 5/2/2023  |  | 10:12      |               | water                       |            | 2  |                     | X                   |   | X   |  |   |  |           |  |
| 8:34 RM 50 - Skilak Lake Outflow                            |  |  |  |  | 5/2/2023  |  | 8:34       |               | water                       |            | 2  |                     | X                   |   | X   |  |   |  |           |  |
| Relinquished By: (1) Ben Meyer                              |  |  |  |  | Date 5/2/2023   |  | Time 14:00 |               | Received By:                |            | Section 4  |                     | DOD Project? Yes No |   | Data Deliverable Requirements: Please include Electronic Data Delivery files. |  |   |  |           |  |
| Relinquished By: (2)  |  |  |  |  | Date  |  | Time       |               | Received By:                |            | Requested Turnaround Time and/or Special Instructions: |                     |                     |   |   |  |   |  |           |  |
| Relinquished By: (3)  |  |  |  |  | Date  |  | Time       |               | Received By:                |            | Temp Blank °C: _____                                   |                     |                     |   |   | Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT       |   |  |           |  |
| Relinquished By: (4)  |  |  |  |  | Date  |  | Time       |               | Received For Laboratory By: |            | or Ambient [ ]   |                     |                     |   |   | Delivery Method: Hand Delivery [ ] Commerical Delivery [ ] |   |  |           |  |

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|   |                                    |               |            |                     |   |      |                             |  |   |             |                                  |  |                      |  |                               |  |   |  |   |  |  |  |  |  |  |  |
|---|------------------------------------|---------------|------------|---------------------|---|------|-----------------------------|--|---|-------------|----------------------------------|--|----------------------|--|-------------------------------|--|---|--|---|--|--|--|--|--|--|--|
| CLIENT: Kenai Watershed Forum                               |                                    |               |            |                     | Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis. |      |                             |  |   |             |                                  |  |                      |  | Page <u> 3 </u> of <u> 3 </u> |  |   |  |   |  |  |  |  |  |  |  |
| CONTACT: Benjamin Meyer                                     |                                    |               |            |                     | PHONE #: 907-232-0280   |      |                             |  |   | Section 3   |                                  | Preservative   |                      |  |                               |  |   |  |   |  |  |  |  |  |  |  |
| PROJECT NAME: Kenai River Baseline Water Quality Monitoring |                                    |               |            |                     | PROJECT/ PWSID/ PERMIT#:  |      |                             |  |   | CONTAINER # | Analysis*                        |  |                      |  |                               |  |   |  |   |  | NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS |  |  |  |  |  |
| REPORTS TO: Benjamin Meyer                                  |                                    |               |            |                     | E-MAIL: ben@kenaiwatershed.org  |      |                             |  |   |             | Comp Grab MI (Multi-incremental) |  |                      |  |                               |  |   |  |   |  |  |  |  |  |  |  |
| INVOICE TO: Kenai Watershed Forum                           |                                    |               |            |                     | QUOTE #: P.O. #:  |      |                             |  |   |             |                                  | Total NO3/NO2(SM21 4500(NO3-F), Total P(SM4500))       | Total Metals (200.7) | Dissolved Metals (200.8)   |                               |  |   |  |   |  |  |  |  |  |  |  |
| RESERVED for lab use  |                                    |               |            |                     |   |      |                             |  |   |             |                                  |  |                      |  | REMARKS/LOC ID                |  |   |  |   |  |  |  |  |  |  |  |
| SAMPLE IDENTIFICATION                                       |                                    | DATE mm/dd/yy | TIME HH:MM | MATRIX/ MATRIX CODE | #   |      |                             |  |   |             |                                  |  |                      |  |                               |  |   |  |   |  |  |  |  |  |  |  |
|   | RM 70 - Jim's Landing              | 5/2/2023      | 11:11      | water               | 2   |      |                             |  | x | x           |                                  |  |                      |  |                               |  |   |  |   |  |  |  |  |  |  |  |
|   | RM 74 - Russian River              | 5/2/2023      | 10:30      | water               | 2   |      |                             |  | x | x           |                                  |  |                      |  |                               |  |   |  |   |  |  |  |  |  |  |  |
|   | RM 82 - Kenai Lake Bridge          | 5/2/2023      | 8:35       | water               | 2   |      |                             |  | x | x           |                                  |  |                      |  |                               |  |   |  |   |  |  |  |  |  |  |  |
|   | RM 79.5 - Juneau Creek             | 5/2/2023      | 9:35       | water               | 2   |      |                             |  | x | x           |                                  |  |                      |  |                               |  |   |  |   |  |  |  |  |  |  |  |
|   | RM 0 - No Name Creek - Field Blank | 5/2/2023      | 10:30      | water               | 2   |      |                             |  |   |             | x                                | x  |                      |  |                               |  |   |  |   |  |  |  |  |  |  |  |
|   | RM 12.5 - Pillars - Field Blank    | 5/2/2023      | 8:32       | water               | 2   |      |                             |  |   |             | x                                | x  |                      |  |                               |  |   |  |   |  |  |  |  |  |  |  |
| Relinquished By: (1) <i>Ben Meyer</i>                       |                                    |               |            |                     | Date  | Time | Received By:                |  |   |             |                                  | Section 4  |                      | DOD Project? Yes <input checked="" type="radio"/> No <input type="radio"/> |                               |  |   |  | Data Deliverable Requirements: Please include Electronic Data Delivery files. |  |  |  |  |  |  |  |
| Relinquished By: (2)  |                                    |               |            |                     | Date  | Time | Received By:                |  |   |             |                                  | Requested Turnaround Time and/or Special Instructions: |                      |  |                               |  |   |  |   |  |  |  |  |  |  |  |
| Relinquished By: (3)  |                                    |               |            |                     | Date  | Time | Received By:                |  |   |             |                                  | Temp Blank °C: _____                                   |                      |  |                               |  | Chain of Custody Seal: (Circle) INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT <input type="checkbox"/> |  |   |  |  |  |  |  |  |  |
| Relinquished By: (4)  |                                    |               |            |                     | Date  | Time | Received For Laboratory By: |  |   |             |                                  | or Ambient [ ]   |                      |  |                               |  |   |  |   |  |  | Delivery Method: Hand Delivery [ ] Commerical Delivery [ ] |  |  |  |  |

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SGS North America Inc. CHAIN OF CUSTODY RECORD

1231846



**CLIENT:** Kenai Watershed Forum

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

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

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

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

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

Page 1 of 3

Section 1

Section 2

| RESERVED for lab use | SAMPLE IDENTIFICATION          | DATE mm/dd/yy | TIME HH:MM | MATRIX/MATRIX CODE | # CONTAINERS | Comp Grab MI (Multi-incremental) | Analysis* |      |      |  |  |  |  |  |  |  | REMARKS/LOC ID |  |  |
|----------------------|--------------------------------|---------------|------------|--------------------|--------------|----------------------------------|-----------|------|------|--|--|--|--|--|--|--|----------------|--|--|
|                      |                                |               |            |                    |              |                                  | H2SO4     | HNO3 | NONE |  |  |  |  |  |  |  |                |  |  |
|                      | RM 0 - No Name Creek           | 5/3/2022      |            | water              | 3            |                                  | X         | X    | X    |  |  |  |  |  |  |  |                |  |  |
|                      | RM 1.5 - Kenai City Dock - DUP | 5/3/2022      | 13:53      | water              | 3            |                                  | X         | X    | X    |  |  |  |  |  |  |  |                |  |  |
|                      | RM 1.5 - Kenai City Dock       | 5/3/2022      | 13:37      | water              | 3            |                                  | X         | X    | X    |  |  |  |  |  |  |  |                |  |  |
|                      | RM 6.5 - Cunningham Park       | 5/3/2022      |            | water              | 3            |                                  | X         | X    | X    |  |  |  |  |  |  |  |                |  |  |
|                      | RM 10 - Beaver Creek           | 5/3/2022      |            | water              | 3            |                                  | X         | X    | X    |  |  |  |  |  |  |  |                |  |  |
|                      | RM 10.1 - Kenai River          | 5/3/2022      |            | water              | 3            |                                  | X         | X    | X    |  |  |  |  |  |  |  |                |  |  |
|                      | RM 12.5 - Pillars              | 5/3/2022      |            | water              | 3            |                                  | X         | X    | X    |  |  |  |  |  |  |  |                |  |  |
|                      | RM 18 - Poacher's Cove         | 5/3/2022      |            | water              | 3            |                                  | X         | X    | X    |  |  |  |  |  |  |  |                |  |  |
|                      | RM 19 - Slikok Creek           | 5/3/2022      |            | water              | 3            |                                  | X         | X    | X    |  |  |  |  |  |  |  |                |  |  |
|                      | RM 21 - Soldotna Bridge        | 5/3/2022      |            | water              | 3            |                                  | X         | X    | X    |  |  |  |  |  |  |  |                |  |  |

Section 3

Section 4

Section 5

**Relinquished By: (1)** Ben Meyer **Date** 5/3/2022 **Time** 15:50 **Received By:**

**Relinquished By: (2)** **Date** **Time** **Received By:**

**Relinquished By: (3)** **Date** **Time** **Received By:**

**Relinquished By: (4)** **Date** 5/3/23 **Time** 0851 **Received For Laboratory By:** [Signature]

**Section 4** **DOD Project?** Yes  No  **Data Deliverable Requirements:** Please include Electronic Data Delivery files.

**Cooler ID:**

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

**Temp Blank °C:** 5.2 **or Ambient [ ]**

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

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

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SAMPLE RECEIPT FORM

|  |                                     | Project Manager Completion |                          |
|--|-------------------------------------|----------------------------|--------------------------|
|  | Yes                                 | No                         | N/A                      |
| Was all necessary information recorded on the COC upon receipt? (temperature, COC seals, etc.?)  | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| Was temperature between 0-6° C?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| Were all analyses received within holding time*?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| Was a method specified for each analysis, where applicable? If no, please note correct methods.  | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| Are compound lists specified, where applicable? For project specific or special compound lists please note correct analysis code.  | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| If rush was requested by the client, was the requested TAT approved?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| If SEDD Deliverables are required, were Location ID's and an NPDL Number provided?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| <b>Sample Login Completion</b>   |                                     |                            |                          |
| Do ID's on sample containers match COC?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| If provided on containers, do dates/times collected match COC?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| Were all sample containers received in good condition?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| Were proper containers (type/mass/volume/preservative) received for all samples?<br>*See form F-083 "Sample Guide"   | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| Were Trip Blanks (VOC, GRO, Low-Level Hg, etc.) received with samples, where applicable*?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| Were all VOA vials free of headspace >6mm?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| Were all soil VOA samples received field extracted with Methanol?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| Did all soil VOA samples have an accompanying unpreserved container for % solids?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| If special handling is required, were containers labelled appropriately? e.g. MI/ISM, foreign soils, lab filter, Ref Lab, limited volume   | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| For Rush/Short Holding time, was the lab notified?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| For any question answered "NO", was the Project Manager notified?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| Was Peer Review of sample numbering/labelling completed?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |
| <b>Additional Notes/Clarification where Applicable, including resolution of "No" answers when a change order is not attached:</b>  |                                     |                            |                          |
| *002 & 003 container labels swapped times.<br>Lab Filter, pH adjustment<br>REF LAB<br>PM Initials: GBH<br>Reviewer Initials: GBH<br>Note: If 200.8/6020 Total Metals are received unpreserved, preserve and note HNO3 lot here: W09-0403-18-12<br>If 200.8/6020 Dissolved Metals are received unpreserved, log in for LABFILTER and do not preserve.<br>For all non-metals methods, inform Project Manager.<br>Lab, 7B, 25A pres. 1mL HNO3 |                                     |                            |                          |



# Alert Expeditors Inc.

## #425854

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

Date 5-3-23  
From Kona Watershed

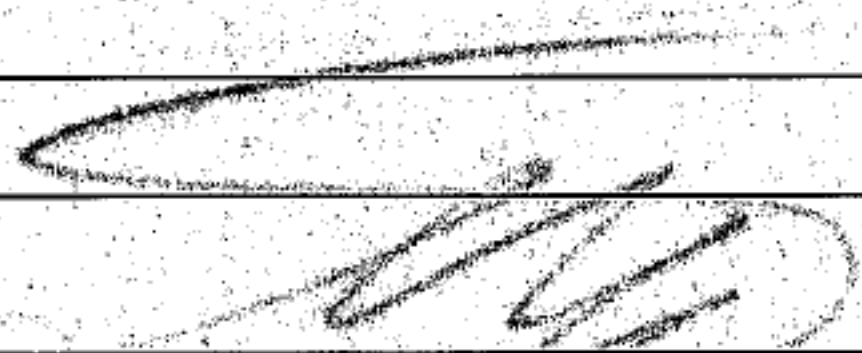
To SGS Labs Inc

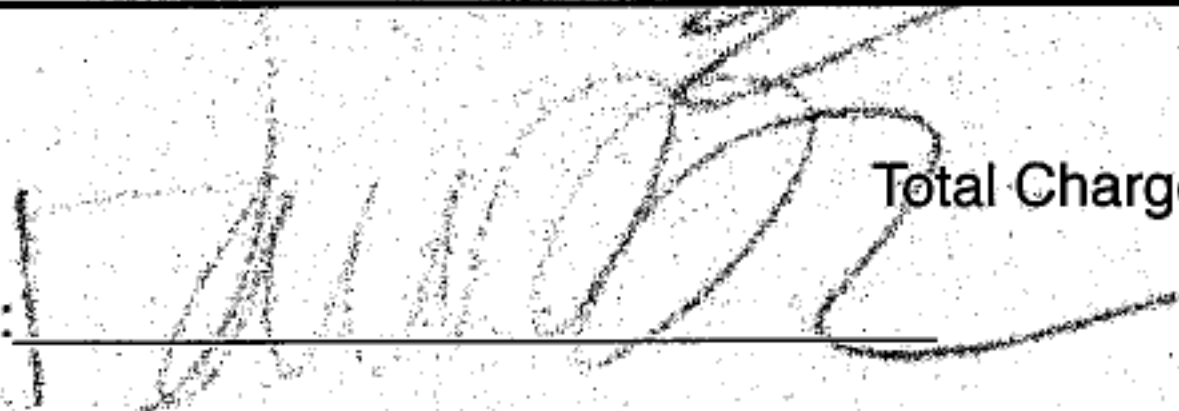
Collect  Prepay  Advance Charges

Job # EVA PO# Grant 11589397

Samples x 2

**1231846**  


Shipped Signature 

Received By:  Total Charge

# Alert Expeditors Inc.

## #425853

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


Date 5-3-23  
From Kona Watershed

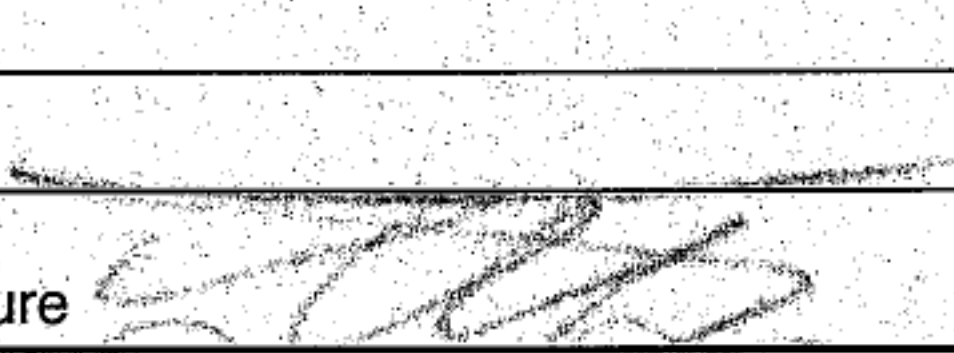
To SGS Labs Inc

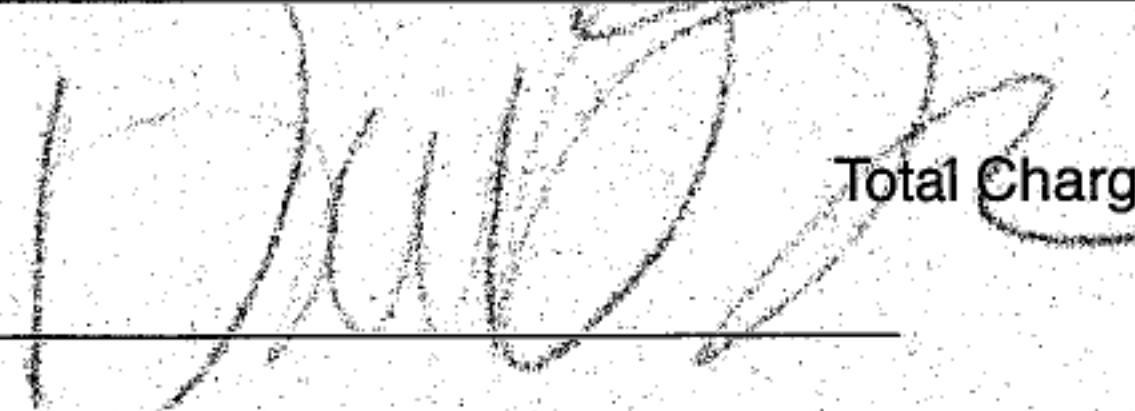
Collect  Prepay  Advance Charges

Job # EVA PO# Grant 11589910

Samples x 1

**1231846**  


Shipped Signature 

Received By:  Total Charge

### Sample Containers and Preservatives

| <u>Container Id</u> | <u>Preservative</u>      | <u>Container Condition</u> | <u>Container Id</u> | <u>Preservative</u>      | <u>Container Condition</u> |
|---------------------|--------------------------|----------------------------|---------------------|--------------------------|----------------------------|
| 1231846001-A        | H2SO4 to pH < 2          | OK                         | 1231846013-B        | HNO3 to pH < 2           | OK                         |
| 1231846001-B        | HNO3 to pH < 2           | OK                         | 1231846013-C        | No Preservative Required | OK                         |
| 1231846001-C        | No Preservative Required | OK                         | 1231846013-D        | No Preservative Required | OK                         |
| 1231846001-D        | No Preservative Required | OK                         | 1231846014-A        | H2SO4 to pH < 2          | OK                         |
| 1231846002-A        | H2SO4 to pH < 2          | OK                         | 1231846014-B        | HNO3 to pH < 2           | OK                         |
| 1231846002-B        | HNO3 to pH < 2           | OK                         | 1231846015-A        | H2SO4 to pH < 2          | OK                         |
| 1231846002-C        | No Preservative Required | OK                         | 1231846015-B        | HNO3 to pH < 2           | OK                         |
| 1231846002-D        | No Preservative Required | OK                         | 1231846016-A        | H2SO4 to pH < 2          | OK                         |
| 1231846003-A        | H2SO4 to pH < 2          | OK                         | 1231846016-B        | HNO3 to pH < 2           | OK                         |
| 1231846003-B        | HNO3 to pH < 2           | OK                         | 1231846017-A        | H2SO4 to pH < 2          | OK                         |
| 1231846003-C        | No Preservative Required | OK                         | 1231846018-A        | H2SO4 to pH < 2          | OK                         |
| 1231846003-D        | No Preservative Required | OK                         | 1231846018-B        | HNO3 to pH < 2           | OK                         |
| 1231846004-A        | H2SO4 to pH < 2          | OK                         | 1231846019-A        | H2SO4 to pH < 2          | OK                         |
| 1231846004-B        | HNO3 to pH < 2           | OK                         | 1231846019-B        | HNO3 to pH < 2           | OK                         |
| 1231846004-C        | No Preservative Required | OK                         | 1231846020-A        | H2SO4 to pH < 2          | OK                         |
| 1231846004-D        | No Preservative Required | OK                         | 1231846020-B        | HNO3 to pH < 2           | OK                         |
| 1231846005-A        | H2SO4 to pH < 2          | OK                         | 1231846021-A        | H2SO4 to pH < 2          | OK                         |
| 1231846005-B        | HNO3 to pH < 2           | OK                         | 1231846021-B        | HNO3 to pH < 2           | OK                         |
| 1231846005-C        | No Preservative Required | OK                         | 1231846022-A        | H2SO4 to pH < 2          | OK                         |
| 1231846005-D        | No Preservative Required | OK                         | 1231846022-B        | HNO3 to pH < 2           | OK                         |
| 1231846006-A        | H2SO4 to pH < 2          | OK                         | 1231846023-A        | H2SO4 to pH < 2          | OK                         |
| 1231846006-B        | HNO3 to pH < 2           | OK                         | 1231846023-B        | HNO3 to pH < 2           | OK                         |
| 1231846006-C        | No Preservative Required | OK                         | 1231846024-A        | HNO3 to pH < 2           | OK                         |
| 1231846006-D        | No Preservative Required | OK                         | 1231846024-B        | No Preservative Required | OK                         |
| 1231846007-A        | H2SO4 to pH < 2          | OK                         | 1231846024-C        | No Preservative Required | OK                         |
| 1231846007-B        | HNO3 to pH < 2           | OK                         | 1231846025-A        | HNO3 to pH < 2           | OK                         |
| 1231846007-C        | No Preservative Required | OK                         | 1231846025-B        | No Preservative Required | OK                         |
| 1231846007-D        | No Preservative Required | OK                         | 1231846025-C        | No Preservative Required | OK                         |
| 1231846008-A        | H2SO4 to pH < 2          | OK                         |                     |                          |                            |
| 1231846008-B        | HNO3 to pH < 2           | OK                         |                     |                          |                            |
| 1231846008-C        | No Preservative Required | OK                         |                     |                          |                            |
| 1231846008-D        | No Preservative Required | OK                         |                     |                          |                            |
| 1231846009-A        | H2SO4 to pH < 2          | OK                         |                     |                          |                            |
| 1231846009-B        | HNO3 to pH < 2           | OK                         |                     |                          |                            |
| 1231846009-C        | No Preservative Required | OK                         |                     |                          |                            |
| 1231846009-D        | No Preservative Required | OK                         |                     |                          |                            |
| 1231846010-A        | H2SO4 to pH < 2          | OK                         |                     |                          |                            |
| 1231846010-B        | HNO3 to pH < 2           | OK                         |                     |                          |                            |
| 1231846010-C        | No Preservative Required | OK                         |                     |                          |                            |
| 1231846010-D        | No Preservative Required | OK                         |                     |                          |                            |
| 1231846011-A        | H2SO4 to pH < 2          | OK                         |                     |                          |                            |
| 1231846011-B        | HNO3 to pH < 2           | OK                         |                     |                          |                            |
| 1231846011-C        | No Preservative Required | OK                         |                     |                          |                            |
| 1231846011-D        | No Preservative Required | OK                         |                     |                          |                            |
| 1231846012-A        | H2SO4 to pH < 2          | OK                         |                     |                          |                            |
| 1231846012-B        | HNO3 to pH < 2           | OK                         |                     |                          |                            |
| 1231846012-C        | No Preservative Required | OK                         |                     |                          |                            |
| 1231846012-D        | No Preservative Required | OK                         |                     |                          |                            |
| 1231846013-A        | H2SO4 to pH < 2          | OK                         |                     |                          |                            |



Container Condition Glossary

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

OK - The container was received at an acceptable pH for the analysis requested.

BU - The container was received with headspace greater than 6mm.

DM - The container was received damaged.

FR - The container was received frozen and not usable for Bacteria or BOD analyses.

IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.

NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.

PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

QN - Insufficient sample quantity provided.



Orlando, FL

Reissue #1  
06/15/23

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

**Technical Report for**

**SGS North America, Inc**

**1231846**

**SGS Job Number: FC5912**

**Sampling Dates: 05/02/23 - 05/03/23**



**Report to:**

**andrea.colby@sgs.com**

**Total number of pages in report: 52**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

**Norm Farmer**  
**Technical Director**

**Client Service contact: Andrea Colby 407-425-6700**

Certifications: FL(E83510), LA(03051), KS(E-10327), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AL, AK, AR, CT, IA, KY, MA, MI, MS, ND, NH, NV, OK, OR, IL, UT, VT, WA, WI, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.  
Test results relate only to samples analyzed.





June 15, 2023

Mr. Justin Nelson  
SGS

RE: SGS North America Inc. - Orlando job FC5912 Reissue

Dear Mr. Nelson,

The final report for job number FC5912 has been edited to reflect requested corrections. These edits have been incorporated into the revised report.

Cu and Zn have been reported on -23 & -24 per your request.

Please feel free to contact us if we can be of further assistance.

Sincerely,

SGS North America, Inc. - Orlando

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SGS North America Inc.

## Sample Summary

SGS North America, Inc

Job No: FC5912

1231846

| Sample Number | Collected |         | Received | Matrix |       | Client Sample ID           |
|---------------|-----------|---------|----------|--------|-------|----------------------------|
|               | Date      | Time By |          | Code   | Type  |                            |
| FC5912-1      | 05/03/23  | 10:30   | 05/09/23 | AQ     | Water | RM 0-NO NAME CREEK         |
| FC5912-2      | 05/03/23  | 13:37   | 05/09/23 | AQ     | Water | RM 1.5-KENAI CITY DOCK-DUP |
| FC5912-3      | 05/03/23  | 13:53   | 05/09/23 | AQ     | Water | RM 1.5-KENAI CITY DOCK     |
| FC5912-4      | 05/03/23  | 09:22   | 05/09/23 | AQ     | Water | RM 6.5-CUNNINGHAM PARK     |
| FC5912-5      | 05/03/23  | 10:05   | 05/09/23 | AQ     | Water | RM 10-BEAV ER CREEK        |
| FC5912-6      | 05/03/23  | 08:32   | 05/09/23 | AQ     | Water | RM 12.5-PILLARS            |
| FC5912-7      | 05/03/23  | 09:24   | 05/09/23 | AQ     | Water | RM 18-POACHER'S COVE       |
| FC5912-8      | 05/03/23  | 08:47   | 05/09/23 | AQ     | Water | RM 19-SLIKOK CREEK         |
| FC5912-9      | 05/03/23  | 09:27   | 05/09/23 | AQ     | Water | RM 21-SOLDOTNA BRIDGE      |
| FC5912-10     | 05/02/23  | 09:49   | 05/09/23 | AQ     | Water | RM 22-SOLDOTNA CREEK       |
| FC5912-11     | 05/02/23  | 10:20   | 05/09/23 | AQ     | Water | RM 23-SWIFTWATER PARK      |
| FC5912-12     | 05/02/23  | 08:57   | 05/09/23 | AQ     | Water | RM 30-FUNNY RIVER          |
| FC5912-13     | 05/02/23  | 10:00   | 05/09/23 | AQ     | Water | RM 31-MORGAN'S LANDING     |

SGS North America Inc.

**Sample Summary**

(continued)

SGS North America, Inc

**Job No:** FC5912

1231846

| Sample Number | Collected |         | Received | Matrix |                   | Client Sample ID            |
|---------------|-----------|---------|----------|--------|-------------------|-----------------------------|
|               | Date      | Time By |          | Code   | Type              |                             |
| FC5912-14     | 05/02/23  | 10:38   | 05/09/23 | AQ     | Water             | RM 36-MOOSE RIVER           |
| FC5912-15     | 05/02/23  | 10:45   | 05/09/23 | AQ     | Water             | RM 36-MOOSE RIVER-DUP       |
| FC5912-16     | 05/02/23  | 07:13   | 05/09/23 | AQ     | Water             | RM 40-BING' S LANDING       |
| FC5912-17     | 05/02/23  | 10:12   | 05/09/23 | AQ     | Water             | RM 44-MOUTH OF KILLEY RIVER |
| FC5912-18     | 05/02/23  | 08:34   | 05/09/23 | AQ     | Water             | RM 50-SKILAK LAKE OUTFLOW   |
| FC5912-19     | 05/02/23  | 11:11   | 05/09/23 | AQ     | Water             | RM 70-JIM' S LANDING        |
| FC5912-20     | 05/02/23  | 10:30   | 05/09/23 | AQ     | Water             | RM 74-RUSSIAN RIVER         |
| FC5912-21     | 05/02/23  | 08:35   | 05/09/23 | AQ     | Water             | RM 82-KENAI LAKE BRIDGE     |
| FC5912-22     | 05/02/23  | 09:35   | 05/09/23 | AQ     | Water             | RM 79.5-JUNEAU CREEK        |
| FC5912-23     | 05/02/23  | 10:30   | 05/09/23 | AQ     | Field Blank Water | RM 0-NO NAME CREEK-FB       |
| FC5912-24     | 05/02/23  | 08:32   | 05/09/23 | AQ     | Field Blank Water | RM 12.5-PILLARS-FIELD BLANK |

## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** SGS North America, Inc

**Job No:** FC5912

**Site:** 1231846

**Report Date:** 5/24/2023 1:19:35 PM

On 05/09/2023, 22 Sample(s), 0 Trip Blank(s) and 2 Field Blank(s) were received at SGS North America Inc - Orlando, at a maximum corrected temperature of 20.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC5912 was assigned to the project.

Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

### Metals Analysis By Method EPA 200.7

**Matrix:** AQ

**Batch ID:** MP42262

Sample(s) FC5853-1DUP, FC5853-1MS, FC5853-1MSD, FC5853-1PS, FC5853-1SDL were used as the QC samples for metals. Matrix Spike/Matrix Spike Duplicate Recovery(s) for Copper are outside control limits. Spike recovery indicates possible matrix interference.

RPD(s) for MSD for Copper are outside control limits for sample MP42262-S2. High RPD indicates possible matrix interference.

MP42262-PS1 for Iron: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

FC5912-3 for Zinc: Sample dilution required due to difficult matrix.

MP42262-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP42262-PS1 for Zinc: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP42262-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

FC5912-2 for Calcium: Sample dilution required due to difficult matrix.

FC5912-2 for Copper: Sample dilution required due to difficult matrix.

FC5912-2 for Iron: Sample dilution required due to difficult matrix.

FC5912-2 for Magnesium: Sample dilution required due to difficult matrix.

FC5912-2 for Zinc: Sample dilution required due to difficult matrix.

FC5912-3 for Calcium: Sample dilution required due to difficult matrix.

FC5912-3 for Copper: Sample dilution required due to difficult matrix.

FC5912-3 for Iron: Sample dilution required due to difficult matrix.

FC5912-3 for Magnesium: Sample dilution required due to difficult matrix.

### Metals Analysis By Method SW846 6010D

**Matrix:** AQ

**Batch ID:** MP42269

Sample(s) FC5887-23DUP, FC5887-23MS, FC5887-23MSD, FC5887-23PS, FC5887-23SDL were used as the QC samples.

RPD(s) for Serial Dilution for Calcium, Iron, Magnesium are outside control limits for sample MP42269-SD1. Probable cause is due to sample non-homogeneity.

SGS North America Inc. - Orlando certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc. - Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

\_\_\_\_\_  
Kim Benham, Client Services (*Signature on File*)

**Summary of Hits**

**Job Number:** FC5912  
**Account:** SGS North America, Inc  
**Project:** 1231846  
**Collected:** 05/02/23 thru 05/03/23

| Lab Sample ID          | Client Sample ID                  | Result/<br>Qual | RL    | MDL | Units | Method    |
|------------------------|-----------------------------------|-----------------|-------|-----|-------|-----------|
| <b>FC5912-1</b>        | <b>RM 0-NO NAME CREEK</b>         |                 |       |     |       |           |
| Calcium                |                                   | 9790            | 1000  |     | ug/l  | EPA 200.7 |
| Iron                   |                                   | 5410            | 300   |     | ug/l  | EPA 200.7 |
| <b>FC5912-2</b>        | <b>RM 1.5-KENAI CITY DOCK-DUP</b> |                 |       |     |       |           |
| Calcium <sup>a</sup>   |                                   | 316000          | 5000  |     | ug/l  | EPA 200.7 |
| Iron <sup>a</sup>      |                                   | 12000           | 1500  |     | ug/l  | EPA 200.7 |
| Magnesium <sup>a</sup> |                                   | 991000          | 25000 |     | ug/l  | EPA 200.7 |
| <b>FC5912-3</b>        | <b>RM 1.5-KENAI CITY DOCK</b>     |                 |       |     |       |           |
| Calcium <sup>a</sup>   |                                   | 291000          | 5000  |     | ug/l  | EPA 200.7 |
| Iron <sup>a</sup>      |                                   | 12200           | 1500  |     | ug/l  | EPA 200.7 |
| Magnesium <sup>a</sup> |                                   | 906000          | 25000 |     | ug/l  | EPA 200.7 |
| <b>FC5912-4</b>        | <b>RM 6.5-CUNNINGHAM PARK</b>     |                 |       |     |       |           |
| Calcium                |                                   | 13700           | 1000  |     | ug/l  | EPA 200.7 |
| Iron                   |                                   | 13800           | 300   |     | ug/l  | EPA 200.7 |
| Magnesium              |                                   | 6780            | 5000  |     | ug/l  | EPA 200.7 |
| Zinc                   |                                   | 41.3            | 20    |     | ug/l  | EPA 200.7 |
| <b>FC5912-5</b>        | <b>RM 10-BEAVER CREEK</b>         |                 |       |     |       |           |
| Calcium                |                                   | 8440            | 1000  |     | ug/l  | EPA 200.7 |
| Iron                   |                                   | 8630            | 300   |     | ug/l  | EPA 200.7 |
| <b>FC5912-6</b>        | <b>RM 12.5-PILLARS</b>            |                 |       |     |       |           |
| Calcium                |                                   | 11000           | 1000  |     | ug/l  | EPA 200.7 |
| Iron                   |                                   | 2020            | 300   |     | ug/l  | EPA 200.7 |
| <b>FC5912-7</b>        | <b>RM 18-POACHER'S COVE</b>       |                 |       |     |       |           |
| Calcium                |                                   | 11400           | 1000  |     | ug/l  | EPA 200.7 |
| Iron                   |                                   | 1890            | 300   |     | ug/l  | EPA 200.7 |
| <b>FC5912-8</b>        | <b>RM 19-SLIKOK CREEK</b>         |                 |       |     |       |           |
| Calcium                |                                   | 5510            | 1000  |     | ug/l  | EPA 200.7 |
| Iron                   |                                   | 1210            | 300   |     | ug/l  | EPA 200.7 |



**Summary of Hits**

**Job Number:** FC5912  
**Account:** SGS North America, Inc  
**Project:** 1231846  
**Collected:** 05/02/23 thru 05/03/23

| Lab Sample ID    | Client Sample ID                   | Result/<br>Qual | RL   | MDL | Units | Method    |
|------------------|------------------------------------|-----------------|------|-----|-------|-----------|
| <b>FC5912-9</b>  | <b>RM 21-SOLDOTNA BRIDGE</b>       |                 |      |     |       |           |
| Calcium          |                                    | 10600           | 1000 |     | ug/l  | EPA 200.7 |
| Iron             |                                    | 1560            | 300  |     | ug/l  | EPA 200.7 |
| <b>FC5912-10</b> | <b>RM 22-SOLDOTNA CREEK</b>        |                 |      |     |       |           |
| Calcium          |                                    | 10400           | 1000 |     | ug/l  | EPA 200.7 |
| Iron             |                                    | 1330            | 300  |     | ug/l  | EPA 200.7 |
| <b>FC5912-11</b> | <b>RM 23-SWIFTWATER PARK</b>       |                 |      |     |       |           |
| Calcium          |                                    | 15400           | 1000 |     | ug/l  | EPA 200.7 |
| Iron             |                                    | 327             | 300  |     | ug/l  | EPA 200.7 |
| Magnesium        |                                    | 5470            | 5000 |     | ug/l  | EPA 200.7 |
| <b>FC5912-12</b> | <b>RM 30-FUNNY RIVER</b>           |                 |      |     |       |           |
| Calcium          |                                    | 7600            | 1000 |     | ug/l  | EPA 200.7 |
| Iron             |                                    | 2690            | 300  |     | ug/l  | EPA 200.7 |
| <b>FC5912-13</b> | <b>RM 31-MORGAN'S LANDING</b>      |                 |      |     |       |           |
| Calcium          |                                    | 11900           | 1000 |     | ug/l  | EPA 200.7 |
| Iron             |                                    | 1110            | 300  |     | ug/l  | EPA 200.7 |
| <b>FC5912-14</b> | <b>RM 36-MOOSE RIVER</b>           |                 |      |     |       |           |
| Calcium          |                                    | 11800           | 1000 |     | ug/l  | EPA 200.7 |
| Iron             |                                    | 2140            | 300  |     | ug/l  | EPA 200.7 |
| <b>FC5912-15</b> | <b>RM 36-MOOSE RIVER-DUP</b>       |                 |      |     |       |           |
| Calcium          |                                    | 11700           | 1000 |     | ug/l  | EPA 200.7 |
| Iron             |                                    | 1770            | 300  |     | ug/l  | EPA 200.7 |
| <b>FC5912-16</b> | <b>RM 40-BING'S LANDING</b>        |                 |      |     |       |           |
| Calcium          |                                    | 10800           | 1000 |     | ug/l  | EPA 200.7 |
| Iron             |                                    | 757             | 300  |     | ug/l  | EPA 200.7 |
| <b>FC5912-17</b> | <b>RM 44-MOUTH OF KILLEY RIVER</b> |                 |      |     |       |           |
| Calcium          |                                    | 8850            | 1000 |     | ug/l  | EPA 200.7 |
| Iron             |                                    | 2070            | 300  |     | ug/l  | EPA 200.7 |

**Summary of Hits**

**Job Number:** FC5912  
**Account:** SGS North America, Inc  
**Project:** 1231846  
**Collected:** 05/02/23 thru 05/03/23

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

**FC5912-18 RM 50-SKILAK LAKE OUTFLOW**

|         |      |      |  |      |           |
|---------|------|------|--|------|-----------|
| Calcium | 8370 | 1000 |  | ug/l | EPA 200.7 |
| Iron    | 316  | 300  |  | ug/l | EPA 200.7 |

**FC5912-19 RM 70-JIM'S LANDING**

|         |       |      |  |      |           |
|---------|-------|------|--|------|-----------|
| Calcium | 19100 | 1000 |  | ug/l | EPA 200.7 |
|---------|-------|------|--|------|-----------|

**FC5912-20 RM 74-RUSSIAN RIVER**

|         |       |      |  |      |             |
|---------|-------|------|--|------|-------------|
| Calcium | 24100 | 1000 |  | ug/l | SW846 6010D |
|---------|-------|------|--|------|-------------|

**FC5912-21 RM 82-KENAI LAKE BRIDGE**

|         |       |      |  |      |             |
|---------|-------|------|--|------|-------------|
| Calcium | 15300 | 1000 |  | ug/l | SW846 6010D |
|---------|-------|------|--|------|-------------|

**FC5912-22 RM 79.5-JUNEAU CREEK**

|         |       |      |  |      |             |
|---------|-------|------|--|------|-------------|
| Calcium | 20000 | 1000 |  | ug/l | SW846 6010D |
|---------|-------|------|--|------|-------------|

**FC5912-23 RM 0-NO NAME CREEK-FB**

No hits reported in this sample.

**FC5912-24 RM 12.5-PILLARS-FIELD BLANK**

|         |       |      |  |      |             |
|---------|-------|------|--|------|-------------|
| Calcium | 10700 | 1000 |  | ug/l | SW846 6010D |
| Iron    | 1920  | 300  |  | ug/l | SW846 6010D |

(a) Sample dilution required due to difficult matrix.



Orlando, FL

**Section 4**

4

Sample Results

---

Report of Analysis

---



SGS North America Inc.

# Report of Analysis

Page 1 of 1

|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> RM 0-NO NAME CREEK | <b>Date Sampled:</b> 05/03/23  |
| <b>Lab Sample ID:</b> FC5912-1              | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                   | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                     |                                |

## Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|-----------|--------|------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium   | 9790   | 1000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Copper    | < 25   | 25   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron      | 5410   | 300  | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Zinc      | < 20   | 20   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19432

(2) Prep QC Batch: MP42262

RL = Reporting Limit

4.1  
4

SGS North America Inc.

## Report of Analysis

Page 1 of 1

|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> RM 1.5-KENAI CITY DOCK-DUP | <b>Date Sampled:</b> 05/03/23  |
| <b>Lab Sample ID:</b> FC5912-2                      | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                           | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                             |                                |

### Total Metals Analysis

| Analyte                | Result | RL    | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|------------------------|--------|-------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium <sup>a</sup>   | 316000 | 5000  | ug/l  | 5  | 05/18/23 | 05/23/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Copper <sup>a</sup>    | < 130  | 130   | ug/l  | 5  | 05/18/23 | 05/23/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron <sup>a</sup>      | 12000  | 1500  | ug/l  | 5  | 05/18/23 | 05/23/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium <sup>a</sup> | 991000 | 25000 | ug/l  | 5  | 05/18/23 | 05/23/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Zinc <sup>a</sup>      | < 100  | 100   | ug/l  | 5  | 05/18/23 | 05/23/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19438

(2) Prep QC Batch: MP42262

(a) Sample dilution required due to difficult matrix.

RL = Reporting Limit

SGS North America Inc.

## Report of Analysis

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|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> RM 1.5-KENAI CITY DOCK | <b>Date Sampled:</b> 05/03/23  |
| <b>Lab Sample ID:</b> FC5912-3                  | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                         |                                |

### Total Metals Analysis

| Analyte                | Result | RL    | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|------------------------|--------|-------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium <sup>a</sup>   | 291000 | 5000  | ug/l  | 5  | 05/18/23 | 05/23/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Copper <sup>a</sup>    | < 130  | 130   | ug/l  | 5  | 05/18/23 | 05/23/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron <sup>a</sup>      | 12200  | 1500  | ug/l  | 5  | 05/18/23 | 05/23/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium <sup>a</sup> | 906000 | 25000 | ug/l  | 5  | 05/18/23 | 05/23/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Zinc <sup>a</sup>      | < 100  | 100   | ug/l  | 5  | 05/18/23 | 05/23/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19438

(2) Prep QC Batch: MP42262

(a) Sample dilution required due to difficult matrix.

RL = Reporting Limit

SGS North America Inc.

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|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> RM 6.5-CUNNINGHAM PARK | <b>Date Sampled:</b> 05/03/23  |
| <b>Lab Sample ID:</b> FC5912-4                  | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                         |                                |

### Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|-----------|--------|------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium   | 13700  | 1000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Copper    | < 25   | 25   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron      | 13800  | 300  | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium | 6780   | 5000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Zinc      | 41.3   | 20   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19432

(2) Prep QC Batch: MP42262

RL = Reporting Limit

4.4  
4

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|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> RM 10-BEAVER CREEK | <b>Date Sampled:</b> 05/03/23  |
| <b>Lab Sample ID:</b> FC5912-5              | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                   | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                     |                                |

## Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|-----------|--------|------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium   | 8440   | 1000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Copper    | < 25   | 25   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron      | 8630   | 300  | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Zinc      | < 20   | 20   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19432

(2) Prep QC Batch: MP42262

RL = Reporting Limit



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|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> RM 12.5-PILLARS | <b>Date Sampled:</b> 05/03/23  |
| <b>Lab Sample ID:</b> FC5912-6           | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                  |                                |

## Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|-----------|--------|------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium   | 11000  | 1000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Copper    | < 25   | 25   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron      | 2020   | 300  | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Zinc      | < 20   | 20   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19432

(2) Prep QC Batch: MP42262

RL = Reporting Limit

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|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> RM 18-POACHER' S COVE | <b>Date Sampled:</b> 05/03/23  |
| <b>Lab Sample ID:</b> FC5912-7                 | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                      | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                        |                                |

### Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|-----------|--------|------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium   | 11400  | 1000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Copper    | < 25   | 25   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron      | 1890   | 300  | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Zinc      | < 20   | 20   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19432

(2) Prep QC Batch: MP42262

RL = Reporting Limit

4.7  
4

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|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> RM 19-SLIKOK CREEK | <b>Date Sampled:</b> 05/03/23  |
| <b>Lab Sample ID:</b> FC5912-8              | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                   | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                     |                                |

## Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|-----------|--------|------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium   | 5510   | 1000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Copper    | < 25   | 25   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron      | 1210   | 300  | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Zinc      | < 20   | 20   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19432

(2) Prep QC Batch: MP42262

RL = Reporting Limit

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|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> RM 21-SOLDOTNA BRIDGE | <b>Date Sampled:</b> 05/03/23  |
| <b>Lab Sample ID:</b> FC5912-9                 | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                      | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                        |                                |

## Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|-----------|--------|------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium   | 10600  | 1000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Copper    | < 25   | 25   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron      | 1560   | 300  | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Zinc      | < 20   | 20   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19432

(2) Prep QC Batch: MP42262

RL = Reporting Limit

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|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> RM 22-SOLDOTNA CREEK | <b>Date Sampled:</b> 05/02/23  |
| <b>Lab Sample ID:</b> FC5912-10               | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                     | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                       |                                |

4.10  
4

### Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|-----------|--------|------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium   | 10400  | 1000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Copper    | < 25   | 25   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron      | 1330   | 300  | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Zinc      | < 20   | 20   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19432

(2) Prep QC Batch: MP42262

RL = Reporting Limit

SGS North America Inc.

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|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> RM 23-SWIFTWATER PARK | <b>Date Sampled:</b> 05/02/23  |
| <b>Lab Sample ID:</b> FC5912-11                | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                      | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                        |                                |

4.11  
4

## Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|-----------|--------|------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium   | 15400  | 1000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Copper    | < 25   | 25   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron      | 327    | 300  | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium | 5470   | 5000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Zinc      | < 20   | 20   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19432

(2) Prep QC Batch: MP42262

RL = Reporting Limit

SGS North America Inc.

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|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> RM 30-FUNNY RIVER | <b>Date Sampled:</b> 05/02/23  |
| <b>Lab Sample ID:</b> FC5912-12            | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                  | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                    |                                |

### Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|-----------|--------|------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium   | 7600   | 1000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Copper    | < 25   | 25   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron      | 2690   | 300  | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Zinc      | < 20   | 20   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19432

(2) Prep QC Batch: MP42262

RL = Reporting Limit

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|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> RM 31-MORGAN'S LANDING | <b>Date Sampled:</b> 05/02/23  |
| <b>Lab Sample ID:</b> FC5912-13                 | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                         |                                |

## Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|-----------|--------|------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium   | 11900  | 1000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Copper    | < 25   | 25   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron      | 1110   | 300  | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Zinc      | < 20   | 20   | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19432

(2) Prep QC Batch: MP42262

RL = Reporting Limit



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|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> RM 36-MOOSE RIVER | <b>Date Sampled:</b> 05/02/23  |
| <b>Lab Sample ID:</b> FC5912-14            | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                  | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                    |                                |

4.14  
4

## Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|-----------|--------|------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium   | 11800  | 1000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron      | 2140   | 300  | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19432

(2) Prep QC Batch: MP42262

RL = Reporting Limit

SGS North America Inc.

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|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> RM 36-MOOSE RIVER-DUP | <b>Date Sampled:</b> 05/02/23  |
| <b>Lab Sample ID:</b> FC5912-15                | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                      | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                        |                                |

4.15

4

### Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|-----------|--------|------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium   | 11700  | 1000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron      | 1770   | 300  | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19432

(2) Prep QC Batch: MP42262

RL = Reporting Limit

SGS North America Inc.

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|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> RM 40-BING'S LANDING | <b>Date Sampled:</b> 05/02/23  |
| <b>Lab Sample ID:</b> FC5912-16               | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                     | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                       |                                |

4.16  
4

## Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|-----------|--------|------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium   | 10800  | 1000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron      | 757    | 300  | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19432

(2) Prep QC Batch: MP42262

RL = Reporting Limit

SGS North America Inc.

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|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> RM 44-MOUTH OF KILLEY RIVER | <b>Date Sampled:</b> 05/02/23  |
| <b>Lab Sample ID:</b> FC5912-17                      | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                            | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                              |                                |

### Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|-----------|--------|------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium   | 8850   | 1000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron      | 2070   | 300  | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19432

(2) Prep QC Batch: MP42262

RL = Reporting Limit

SGS North America Inc.

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|--|--------------------------------|
| <b>Client Sample ID:</b> RM 50-SKILAK LAKE OUTFLOW | <b>Date Sampled:</b> 05/02/23  |
| <b>Lab Sample ID:</b> FC5912-18                    | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                          | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                            |                                |

4.18

4

### Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|-----------|--------|------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium   | 8370   | 1000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron      | 316    | 300  | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19432

(2) Prep QC Batch: MP42262

RL = Reporting Limit

SGS North America Inc.

## Report of Analysis

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|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> RM 70-JIM'S LANDING | <b>Date Sampled:</b> 05/02/23  |
| <b>Lab Sample ID:</b> FC5912-19              | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                    | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                      |                                |

### Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                 | Prep Method            |
|-----------|--------|------|-------|----|----------|-------------|------------------------|------------------------|
| Calcium   | 19100  | 1000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Iron      | < 300  | 300  | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/18/23 | 05/22/23 LM | EPA 200.7 <sup>1</sup> | EPA 200.7 <sup>2</sup> |

(1) Instrument QC Batch: MA19432

(2) Prep QC Batch: MP42262

RL = Reporting Limit

SGS North America Inc.

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> RM 74-RUSSIAN RIVER | <b>Date Sampled:</b> 05/02/23  |
| <b>Lab Sample ID:</b> FC5912-20              | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                    | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                      |                                |

4.20  
4

## Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|-----------|--------|------|-------|----|----------|-------------|--------------------------|--------------------------|
| Calcium   | 24100  | 1000 | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |
| Iron      | < 300  | 300  | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |

(1) Instrument QC Batch: MA19429

(2) Prep QC Batch: MP42269

RL = Reporting Limit

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# Report of Analysis

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|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> RM 82-KENAI LAKE BRIDGE | <b>Date Sampled:</b> 05/02/23  |
| <b>Lab Sample ID:</b> FC5912-21                  | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                        | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                          |                                |

4.21  
4

## Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|-----------|--------|------|-------|----|----------|-------------|--------------------------|--------------------------|
| Calcium   | 15300  | 1000 | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |
| Iron      | < 300  | 300  | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |

(1) Instrument QC Batch: MA19429

(2) Prep QC Batch: MP42269

RL = Reporting Limit



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# Report of Analysis

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|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> RM 79.5-JUNEAU CREEK | <b>Date Sampled:</b> 05/02/23  |
| <b>Lab Sample ID:</b> FC5912-22               | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Water                     | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                       |                                |

4.22  
4

## Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|-----------|--------|------|-------|----|----------|-------------|--------------------------|--------------------------|
| Calcium   | 20000  | 1000 | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |
| Iron      | < 300  | 300  | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |

(1) Instrument QC Batch: MA19429

(2) Prep QC Batch: MP42269

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## Report of Analysis

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|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> RM 0-NO NAME CREEK-FB | <b>Date Sampled:</b> 05/02/23  |
| <b>Lab Sample ID:</b> FC5912-23                | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Field Blank Water          | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                        |                                |

### Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|-----------|--------|------|-------|----|----------|-------------|--------------------------|--------------------------|
| Calcium   | < 1000 | 1000 | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |
| Copper    | < 25   | 25   | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |
| Iron      | < 300  | 300  | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |
| Zinc      | < 20   | 20   | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |

(1) Instrument QC Batch: MA19429

(2) Prep QC Batch: MP42269

RL = Reporting Limit

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## Report of Analysis

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|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> RM 12.5-PILLARS-FIELD BLANK | <b>Date Sampled:</b> 05/02/23  |
| <b>Lab Sample ID:</b> FC5912-24                      | <b>Date Received:</b> 05/09/23 |
| <b>Matrix:</b> AQ - Field Blank Water                | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 1231846                              |                                |

### Total Metals Analysis

| Analyte   | Result | RL   | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|-----------|--------|------|-------|----|----------|-------------|--------------------------|--------------------------|
| Calcium   | 10700  | 1000 | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |
| Copper    | < 25   | 25   | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |
| Iron      | 1920   | 300  | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |
| Magnesium | < 5000 | 5000 | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |
| Zinc      | < 20   | 20   | ug/l  | 1  | 05/19/23 | 05/22/23 LM | SW846 6010D <sup>1</sup> | SW846 3010A <sup>2</sup> |

(1) Instrument QC Batch: MA19429

(2) Prep QC Batch: MP42269

RL = Reporting Limit



Orlando, FL

**Section 5**

Misc. Forms

5

Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



SGS North America Inc.  
CHAIN OF CUSTODY RECORD

**FC5912**



Revised Report Revision 1

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

| CLIENT: SGS North America Inc. - Alaska Division |  |                               |               | SGS Reference: <b>SGS Orlando, FL</b>  |               |                         |               | Page 1 of 3  |                                |                 |                    |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
|--|--|-------------------------------|---------------|--|---------------|-------------------------|---------------|--|--------------------------------|-----------------|--------------------|-------------|------|------|------|------|--|--|------|--|--|--|--|--|--|--|--|------------------|---------------|--------------------|---------------|-----------------|--|--|
| CONTACT: Justin Nelson                           |  | PHONE NO: (907) 562-2343      |               | Additional Comments: All soils report out in dry weight unless   |               |                         |               |  |                                |                 |                    |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| PROJECT NAME: 1231846                            |  | PWSID#:                       |               | <table border="1"> <tr> <td rowspan="3">CONTAINER</td> <td>Preservative Used:</td> <td>HNO3</td> <td>HNO3</td> <td>HNO3</td> <td>HNO3</td> <td>HNO3</td> <td></td> <td></td> </tr> <tr> <td>TYPE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C = COMP<br/>G = GRAB<br/>MI = Multi Incremental Soils</td> <td>Calcium by 200.7</td> <td>Iron by 200.7</td> <td>Magnesium by 200.7</td> <td>Zinc by 200.7</td> <td>Copper by 200.7</td> <td></td> <td></td> </tr> </table> |               |                         |               |  |                                | CONTAINER       | Preservative Used: | HNO3        | HNO3 | HNO3 | HNO3 | HNO3 |  |  | TYPE |  |  |  |  |  |  |  | C = COMP<br>G = GRAB<br>MI = Multi Incremental Soils | Calcium by 200.7 | Iron by 200.7 | Magnesium by 200.7 | Zinc by 200.7 | Copper by 200.7 |  |  |
| CONTAINER  | Preservative Used:                                   | HNO3                          | HNO3          |  |               |                         |               |  |                                |                 | HNO3               | HNO3        | HNO3 |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
|  | TYPE   |                               |               |  |               |                         |               |  |                                |                 |                    |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
|  | C = COMP<br>G = GRAB<br>MI = Multi Incremental Soils | Calcium by 200.7              | Iron by 200.7 | Magnesium by 200.7   | Zinc by 200.7 | Copper by 200.7         |               |  |                                |                 |                    |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| REPORTS TO: Justin.Nelson                        |  | E-MAIL: Justin.Nelson@sgs.com |               |  |               |                         |               |  |                                |                 |                    |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| INVOICE TO: SGS - Alaska                         |  | QUOTE #:                      |               |  |               |                         |               |  |                                |                 |                    |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| env.alaska.accounting@sgs.com                    |  | P.O. #: 1231846               |               |  |               |                         |               |  |                                |                 |                    |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| RESERVED for lab use                             | SAMPLE IDENTIFICATION                                | DATE mm/dd/yy                 | TIME HHMM     | MATRIX/MATRIX CODE   | #             | Calcium by 200.7        | Iron by 200.7 | Magnesium by 200.7                                     | Zinc by 200.7                  | Copper by 200.7 | SGS lab #          | Location ID |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| 1  | RM 0 - No Name Creek                                 | 05/03/2023                    | 10:30:00      | Water  | 1             | X                       | X             | X  | X                              | X               | 1231846001         |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| 2  | RM 1.5 - Kenai City Dock - DUP                       | 05/03/2023                    | 13:37:00      | Water  | 1             | X                       | X             | X  | X                              | X               | 1231846002         |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| 3  | RM 1.5 - Kenai City Dock                             | 05/03/2023                    | 13:53:00      | Water  | 1             | X                       | X             | X  | X                              | X               | 1231846003         |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| 4  | RM 6.5 - Cunningham Park                             | 05/03/2023                    | 09:22:00      | Water  | 1             | X                       | X             | X  | X                              | X               | 1231846004         |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| 5  | RM 10 - Beaver Creek                                 | 05/03/2023                    | 10:05:00      | Water  | 1             | X                       | X             | X  | X                              | X               | 1231846005         |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| 6  | RM 12.5 Pillars                                      | 05/03/2023                    | 08:32:00      | Water  | 1             | X                       | X             | X  | X                              | X               | 1231846006         |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| 7  | RM 18 - Poacher's Cove                               | 05/03/2023                    | 09:24:00      | Water  | 1             | X                       | X             | X  | X                              | X               | 1231846007         |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| 8  | RM 19 - Silkok Creek                                 | 05/03/2023                    | 08:47:00      | Water  | 1             | X                       | X             | X  | X                              | X               | 1231846008         |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| 9  | RM 21 - Soldotna Bridge                              | 05/03/2023                    | 09:27:00      | Water  | 1             | X                       | X             | X  | X                              | X               | 1231846009         |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| 10   | RM 22 - Soldotna Creek                               | 05/02/2023                    | 09:49:00      | Water  | 1             | X                       | X             | X  | X                              | X               | 1231846010         |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| Relinquished By: (1)                             |  | Date                          | Time          | Received By:   |               | DOD Project?            |               | NO   | Data Deliverable Requirements: |                 |                    |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| Relinquished By: (2)                             |  | Date                          | Time          | Received By:   |               | Report to DL (J Flags)? |               | NO   | Level 2 + SGS EDD              |                 |                    |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| Relinquished By: (3)                             |  | Date                          | Time          | Received By:   |               | Cooler ID:              |               | Requested Turnaround Time and-or Special Instructions: |                                |                 |                    |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
| Relinquished By: (4)                             |  | Date                          | Time          | Received For Laboratory By:  |               | Temp Blank °C:          |               | Chain of Custody Seal: (Circle)                        |                                |                 |                    |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |
|  |  |                               |               |  |               | or Ambient [ ]          |               | INTACT    BROKEN    ABSENT                             |                                |                 |                    |             |      |      |      |      |  |  |      |  |  |  |  |  |  |  |  |                  |               |                    |               |                 |  |  |

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

[http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm)

INITIAL ASSESSMENT ER

LABEL VERIFICATION

REVIEWED OB

F088\_COC\_REF\_LAB\_20190411

20.8° No ICE

FC5912: Chain of Custody

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SGS North America Inc.  
CHAIN OF CUSTODY RECORD

**FC5912**



Revised Report Revision 1

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

| CLIENT: SGS North America Inc. - Alaska Division |                               |                               |           | SGS Reference: <b>SGS Orlando, FL</b>                          |                    |                         |               |  | Page 2 of 3   |                                |            |             |
|--|-------------------------------|-------------------------------|-----------|--|--------------------|-------------------------|---------------|--|---------------|--------------------------------|------------|-------------|
| CONTACT: Justin Nelson                           |                               | PHONE NO: (907) 562-2343      |           | Additional Comments: All soils report out in dry weight unless |                    |                         |               |  |               |                                |            |             |
| PROJECT NAME: 1231846                            |                               | PWSID#: NPDL#:                |           | CONTAINER S  | Preservative Used: | HNO3                    | HNO3          | HNO3   | HNO3          | HNO3                           | SGS lab #  | Location ID |
| REPORTS TO: Justin.Nelson                        |                               | E-MAIL: Justin.Nelson@sgs.com |           |  |                    |                         |               |  |               |                                |            |             |
| INVOICE TO: SGS - Alaska                         |                               | QUOTE #:                      |           |  |                    |                         |               |  |               |                                |            |             |
| env.alaska.accounting@sgs.com                    |                               | P.O. #: 1231846               |           |  |                    |                         |               |  |               |                                |            |             |
| RESERVED for lab use                             | SAMPLE IDENTIFICATION         | DATE mm/dd/yy                 | TIME HHMM | MATRIX/MATRIX CODE   | #                  | Calcium by 200.7        | Iron by 200.7 | Magnesium by 200.7                                     | Zinc by 200.7 | Copper by 200.7                | SGS lab #  | Location ID |
| 16   | RM 23 - Swiftwater Park       | 05/02/2023                    | 10:22:00  | Water  | 1                  | X                       | X             | X  | X             | X                              | 1231846011 |             |
| 16   | RM 30 - Funny River           | 05/02/2023                    | 08:57:00  | Water  | 1                  | X                       | X             | X  | X             | X                              | 1231846012 |             |
| 13   | RM 31 - Morgan's Landing      | 05/02/2023                    | 10:00:00  | Water  | 1                  | X                       | X             | X  | X             | X                              | 1231846013 |             |
| 14   | RM 36 - Moose River           | 05/02/2023                    | 10:38:00  | Water  | 1                  | X                       | X             | X  |               |                                | 1231846014 |             |
| 15   | RM 36 - Moose River-DUP       | 05/02/2023                    | 10:45:00  | Water  | 1                  | X                       | X             | X  |               |                                | 1231846015 |             |
| 16   | RM 40 - Bing's Landing        | 05/02/2023                    | 07:13:00  | Water  | 1                  | X                       | X             | X  |               |                                | 1231846016 |             |
| 17   | RM 44 - Mouth of Killey River | 05/02/2023                    | 10:12:00  | Water  | 1                  | X                       | X             | X  |               |                                | 1231846018 |             |
| 18   | RM 50 - Skilak Lake Outflow   | 05/02/2023                    | 08:34:00  | Water  | 1                  | X                       | X             | X  |               |                                | 1231846019 |             |
| 19   | RM 70 - Jim's Landing         | 05/02/2023                    | 11:11:00  | Water  | 1                  | X                       | X             | X  |               |                                | 1231846020 |             |
| 20   | RM 74 - Russian River         | 05/02/2023                    | 10:30:00  | Water  | 1                  | X                       | X             | X  |               |                                | 1231846021 |             |
| Relinquished By: (1)                             |                               | Date                          | Time      | Received By:   |                    | DOD Project?            |               | NO   |               | Data Deliverable Requirements: |            |             |
|  |                               | 5/8                           | 10pm      |  |                    | Report to DL (J Flags)? |               | NO   |               | Level 2 + SGS EDD              |            |             |
| Relinquished By: (2)                             |                               | Date                          | Time      | Received By:   |                    | Cooler ID:              |               | Requested Turnaround Time and-or Special Instructions: |               |                                |            |             |
|  |                               | 5/19/23                       | 9:30      |  |                    |                         |               |  |               |                                |            |             |
| Relinquished By: (3)                             |                               | Date                          | Time      | Received By:   |                    | Temp Blank °C:          |               | Chain of Custody Seal: (Circle)                        |               |                                |            |             |
|  |                               |                               |           |  |                    | or Ambient [ ]          |               | INTACT BROKEN ABSENT                                   |               |                                |            |             |

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

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F088\_COC\_REF\_LAB\_20190411

SGS North America Inc.  
CHAIN OF CUSTODY RECORD

**FC5912**



Locations Nationwide  
Revised Report - Revision 1  
Alaska Florida  
New Jersey Colorado  
Texas North Carolina  
Virginia Louisiana  
[www.us.sgs.com](http://www.us.sgs.com)

|  |                                |                               |           |  |  |                                 |      |             |                                |             |            |          |          |                              |                  |               |                    |                 |                               |                               |
|--|--------------------------------|-------------------------------|-----------|--|--|---------------------------------|------|-------------|--------------------------------|-------------|------------|----------|----------|------------------------------|------------------|---------------|--------------------|-----------------|-------------------------------|-------------------------------|
| CLIENT: SGS North America Inc. - Alaska Division |                                |                               |           | SGS Reference: <b>SGS Orlando, FL</b>                          |  |                                 |      | Page 3 of 3 |                                |             |            |          |          |                              |                  |               |                    |                 |                               |                               |
| CONTACT: Justin Nelson                           |                                | PHONE NO: (907) 562-2343      |           | Additional Comments: All soils report out in dry weight unless |  |                                 |      |             |                                |             |            |          |          |                              |                  |               |                    |                 |                               |                               |
| PROJECT NAME: 1231846                            |                                | PWSID#: NPDL#:                |           | CONTAINER  | Preservative Used:                                     | HNO3                            | HNO3 | HNO3        | SGS lab #                      | Location ID |            |          |          |                              |                  |               |                    |                 |                               |                               |
| REPORTS TO: Justin Nelson                        |                                | E-MAIL: Justin.Nelson@sgs.com |           |  |  |                                 |      |             |                                |             | TYPE       | C = COMP | G = GRAB | MI = Multi Incremental Soils | Calcium by 200.7 | Iron by 200.7 | Magnesium by 200.7 |                 |                               |                               |
| INVOICE TO: SGS - Alaska                         |                                | QUOTE #: 1231846              |           |  |  |                                 |      |             |                                |             |            |          |          |                              |                  |               |                    | P.O. #: 1231846 | env.alaska.accounting@sgs.com | Env.Alaska.ReflabTeam@sgs.com |
| RESERVED for lab use                             | SAMPLE IDENTIFICATION          | DATE mm/dd/yy                 | TIME HHMM |  |  |                                 |      |             |                                |             |            |          |          |                              |                  |               |                    |                 |                               |                               |
| 21   | RM 82 - Kenai Lake Bridge      | 05/02/2023                    | 08:35:00  | Water  | 1  | X                               | X    | X           |                                |             |            |          |          |                              |                  |               |                    |                 |                               |                               |
| 22   | RM 79.5 - Juneau Creek         | 05/02/2023                    | 09:35:00  | Water  | 1  | X                               | X    | X           |                                |             | 1231846023 |          |          |                              |                  |               |                    |                 |                               |                               |
| 23   | RM 0 - No Name Creek-FB        | 05/02/2023                    | 10:30:00  | Water  | 1  | X                               | X    | X           |                                |             | 1231846024 |          |          |                              |                  |               |                    |                 |                               |                               |
| 24   | RM 12.5 - Pillars - FieldBlank | 05/02/2023                    | 08:32:00  | Water  | 1  | X                               | X    | X           |                                |             | 1231846025 |          |          |                              |                  |               |                    |                 |                               |                               |
| Relinquished By: (1)                             |                                | Date                          | Time      | Received By:   | DOD Project?   |                                 | NO   |             | Data Deliverable Requirements: |             |            |          |          |                              |                  |               |                    |                 |                               |                               |
| Relinquished By: (2)                             |                                | Date                          | Time      | Received By:   | Report to DL (J Flags)?                                |                                 | NO   |             | Level 2 + SGS EDD              |             |            |          |          |                              |                  |               |                    |                 |                               |                               |
| Relinquished By: (3)                             |                                | Date                          | Time      | Received By:   | Cooler ID:   |                                 |      |             |                                |             |            |          |          |                              |                  |               |                    |                 |                               |                               |
| Relinquished By: (4)                             |                                | Date                          | Time      | Received For Laboratory By:                                    | Requested Turnaround Time and-or Special Instructions: |                                 |      |             |                                |             |            |          |          |                              |                  |               |                    |                 |                               |                               |
|  |                                |                               |           | Temp Blank °C:   |  | Chain of Custody Seal: (Circle) |      |             |                                |             |            |          |          |                              |                  |               |                    |                 |                               |                               |
|  |                                |                               |           | or Ambient [ ]   |  | INTACT BROKEN ABSENT            |      |             |                                |             |            |          |          |                              |                  |               |                    |                 |                               |                               |

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

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REVIEWED \_\_\_\_\_

F088\_COC\_REF\_LAB\_20190411

5.1  
5

# SGS Sample Receipt Summary

Revised Report - Revision 1

Job Number: FC5912

Client: SGS AK

Project: 1231846

Date / Time Received: 5/9/2023 9:30:00 AM

Delivery Method: FX

Airbill #'s: 642042694385

|   |                        |                        |
|---|------------------------|------------------------|
| Therm ID: <u>IR 1;</u>                            | Therm CF: <u>-0.1;</u> | # of Coolers: <u>1</u> |
| Cooler Temps (Raw Measured) °C: Cooler 1: (20.8); |                        |                        |
| Cooler Temps (Corrected) °C: Cooler 1: (20.7);    |                        |                        |

**Cooler Information**

|                             | Y                                   | or | N                        |
|-----------------------------|-------------------------------------|----|--------------------------|
| 1. Custody Seals Present    | <input checked="" type="checkbox"/> |    | <input type="checkbox"/> |
| 2. Custody Seals Intact     | <input checked="" type="checkbox"/> |    | <input type="checkbox"/> |
| 3. Temp criteria achieved   | <input checked="" type="checkbox"/> |    | <input type="checkbox"/> |
| 4. Cooler temp verification | <u>IR Gun</u>                       |    |                          |
| 5. Cooler media             | <u>Ice (Bag)</u>                    |    |                          |

**Sample Information**

|   | Y                                   | or | N                                   | N/A                                 |
|---|-------------------------------------|----|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles                 | <input checked="" type="checkbox"/> |    | <input type="checkbox"/>            |                                     |
| 2. Samples preserved properly                       | <input checked="" type="checkbox"/> |    | <input type="checkbox"/>            |                                     |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> |    | <input type="checkbox"/>            |                                     |
| 4. Condition of sample                              | <u>Intact</u>                       |    |                                     |                                     |
| 5. Sample recvd within HT                           | <input checked="" type="checkbox"/> |    | <input type="checkbox"/>            |                                     |
| 6. Dates/Times/IDs on COC match Sample Label        | <input checked="" type="checkbox"/> |    | <input type="checkbox"/>            |                                     |
| 7. VOCs have headspace                              | <input type="checkbox"/>            |    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8. Bottles received for unspecified tests           | <input type="checkbox"/>            |    | <input checked="" type="checkbox"/> |                                     |
| 9. Compositing instructions clear                   | <input type="checkbox"/>            |    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs?         | <input type="checkbox"/>            |    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received?                          | <input type="checkbox"/>            |    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present?                      | <input type="checkbox"/>            |    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Trip Blank Information**

|                                | Y                        | or | N                        | N/A                                 |
|--------------------------------|--------------------------|----|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler | <input type="checkbox"/> |    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC    | <input type="checkbox"/> |    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                                | W                        | or | S                        | N/A                                 |
| 3. Type Of TB Received         | <input type="checkbox"/> |    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_  
 Test Strip Lot #s: pH 0-3 230320  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Number of 5035 Field Kits: \_\_\_\_\_  
 pH 10-12 25BDH07

Number of Lab Filtered Metals: \_\_\_\_\_  
 Other: (Specify) pH 1.0 - 12.0 222221

Comments COOLER RECEIVED AT 20.8C DUE TO NO ICE

SM001  
Rev. Date 05/24/17

Technician: NATHANS

Date: 5/9/2023 9:30:00 AM

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

**FC5912: Chain of Custody**

**Page 4 of 4**

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Orlando, FL

## Section 6

### Metals Analysis

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: FC5912  
Account: SGSAKA - SGS North America, Inc  
Project: 1231846

QC Batch ID: MP42262  
Matrix Type: AQUEOUS

Methods: EPA 200.7  
Units: ug/l

Prep Date: 05/18/23

| Metal      | RL    | IDL | MDL | MB<br>raw | final |
|------------|-------|-----|-----|-----------|-------|
| Aluminum   | 200   | 14  | 14  |           |       |
| Antimony   | 6.0   | 1   | 1   |           |       |
| Arsenic    | 10    | 1.3 | 1.3 |           |       |
| Barium     | 200   | .5  | 1   |           |       |
| Beryllium  | 4.0   | .1  | .2  |           |       |
| Boron      | 100   | 5   | 10  |           |       |
| Cadmium    | 5.0   | .1  | .2  |           |       |
| Calcium    | 1000  | 50  | 50  | 7.3       | <1000 |
| Chromium   | 10    | .5  | 1   |           |       |
| Cobalt     | 50    | .2  | .2  |           |       |
| Copper     | 25    | 1   | 1   | -0.10     | <25   |
| Iron       | 300   | 15  | 17  | 2.7       | <300  |
| Lead       | 5.0   | 1   | 1.1 |           |       |
| Lithium    | 9.0   | .5  | 1.3 |           |       |
| Magnesium  | 5000  | 35  | 35  | -0.90     | <5000 |
| Manganese  | 15    | .25 | 1   |           |       |
| Molybdenum | 50    | .3  | .3  |           |       |
| Nickel     | 40    | .4  | .4  |           |       |
| Potassium  | 10000 | 100 | 200 |           |       |
| Selenium   | 10    | 2   | 2.9 |           |       |
| Silver     | 10    | .5  | .7  |           |       |
| Sodium     | 10000 | 250 | 500 |           |       |
| Strontium  | 10    | .25 | .5  |           |       |
| Thallium   | 10    | 1   | 1.4 |           |       |
| Tin        | 50    | .5  | 1   |           |       |
| Titanium   | 10    | .5  | 1   |           |       |
| Vanadium   | 50    | .5  | .6  |           |       |
| Zinc       | 20    | 3   | 4.4 | 0.50      | <20   |

Associated samples MP42262: FC5912-1, FC5912-2, FC5912-3, FC5912-4, FC5912-5, FC5912-6, FC5912-7, FC5912-8, FC5912-9, FC5912-10, FC5912-11, FC5912-12, FC5912-13, FC5912-14, FC5912-15, FC5912-16, FC5912-17, FC5912-18, FC5912-19

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits  
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FC5912  
 Account: SGSAKA - SGS North America, Inc  
 Project: 1231846

QC Batch ID: MP42262  
 Matrix Type: AQUEOUS

Methods: EPA 200.7  
 Units: ug/l

Prep Date: 05/18/23 05/18/23

| Metal      | FC5853-1<br>Original | DUP   | RPD | QC<br>Limits | FC5853-1<br>Original MS | Spikelot<br>MPFLICP2 | % Rec | QC<br>Limits |        |
|------------|----------------------|-------|-----|--------------|-------------------------|----------------------|-------|--------------|--------|
| Aluminum   |                      |       |     |              |                         |                      |       |              |        |
| Antimony   |                      |       |     |              |                         |                      |       |              |        |
| Arsenic    |                      |       |     |              |                         |                      |       |              |        |
| Barium     |                      |       |     |              |                         |                      |       |              |        |
| Beryllium  | anr                  |       |     |              |                         |                      |       |              |        |
| Boron      |                      |       |     |              |                         |                      |       |              |        |
| Cadmium    | anr                  |       |     |              |                         |                      |       |              |        |
| Calcium    | 25000                | 27400 | 9.2 | 0-20         | 25000                   | 55700                | 25000 | 122.8        | 70-130 |
| Chromium   | anr                  |       |     |              |                         |                      |       |              |        |
| Cobalt     |                      |       |     |              |                         |                      |       |              |        |
| Copper     | 0.0                  | 0.0   | NC  | 0-20         | 0.0                     | 128                  | 250   | 51.2N(a)     | 70-130 |
| Iron       | 11500                | 12500 | 8.3 | 0-20         | 11500                   | 42000                | 26000 | 117.3        | 70-130 |
| Lead       | anr                  |       |     |              |                         |                      |       |              |        |
| Lithium    |                      |       |     |              |                         |                      |       |              |        |
| Magnesium  | 9380                 | 10300 | 9.3 | 0-20         | 9380                    | 38400                | 25000 | 116.1        | 70-130 |
| Manganese  |                      |       |     |              |                         |                      |       |              |        |
| Molybdenum |                      |       |     |              |                         |                      |       |              |        |
| Nickel     | anr                  |       |     |              |                         |                      |       |              |        |
| Potassium  |                      |       |     |              |                         |                      |       |              |        |
| Selenium   |                      |       |     |              |                         |                      |       |              |        |
| Silver     | anr                  |       |     |              |                         |                      |       |              |        |
| Sodium     |                      |       |     |              |                         |                      |       |              |        |
| Strontium  |                      |       |     |              |                         |                      |       |              |        |
| Thallium   |                      |       |     |              |                         |                      |       |              |        |
| Tin        |                      |       |     |              |                         |                      |       |              |        |
| Titanium   |                      |       |     |              |                         |                      |       |              |        |
| Vanadium   |                      |       |     |              |                         |                      |       |              |        |
| Zinc       | 704                  | 762   | 7.9 | 0-20         | 704                     | 1310                 | 500   | 121.2        | 70-130 |

Associated samples MP42262: FC5912-1, FC5912-2, FC5912-3, FC5912-4, FC5912-5, FC5912-6, FC5912-7, FC5912-8, FC5912-9, FC5912-10, FC5912-11, FC5912-12, FC5912-13, FC5912-14, FC5912-15, FC5912-16, FC5912-17, FC5912-18, FC5912-19

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested  
 (a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FC5912  
 Account: SGSAKA - SGS North America, Inc  
 Project: 1231846

QC Batch ID: MP42262  
 Matrix Type: AQUEOUS

Methods: EPA 200.7  
 Units: ug/l

Prep Date: 05/18/23

| Metal      | FC5853-1<br>Original MSD |       | SpikeLot<br>MPFLICP2 % Rec |          | MSD<br>RPD | QC<br>Limit |
|------------|--------------------------|-------|----------------------------|----------|------------|-------------|
| Aluminum   |                          |       |                            |          |            |             |
| Antimony   |                          |       |                            |          |            |             |
| Arsenic    |                          |       |                            |          |            |             |
| Barium     |                          |       |                            |          |            |             |
| Beryllium  | anr                      |       |                            |          |            |             |
| Boron      |                          |       |                            |          |            |             |
| Cadmium    | anr                      |       |                            |          |            |             |
| Calcium    | 25000                    | 53700 | 25000                      | 114.8    | 3.7        | 20          |
| Chromium   | anr                      |       |                            |          |            |             |
| Cobalt     |                          |       |                            |          |            |             |
| Copper     | 0.0                      | 167   | 250                        | 66.8N(a) | 26.4 (b)   | 20          |
| Iron       | 11500                    | 40900 | 26000                      | 113.1    | 2.7        | 20          |
| Lead       | anr                      |       |                            |          |            |             |
| Lithium    |                          |       |                            |          |            |             |
| Magnesium  | 9380                     | 37200 | 25000                      | 111.3    | 3.2        | 20          |
| Manganese  |                          |       |                            |          |            |             |
| Molybdenum |                          |       |                            |          |            |             |
| Nickel     | anr                      |       |                            |          |            |             |
| Potassium  |                          |       |                            |          |            |             |
| Selenium   |                          |       |                            |          |            |             |
| Silver     | anr                      |       |                            |          |            |             |
| Sodium     |                          |       |                            |          |            |             |
| Strontium  |                          |       |                            |          |            |             |
| Thallium   |                          |       |                            |          |            |             |
| Tin        |                          |       |                            |          |            |             |
| Titanium   |                          |       |                            |          |            |             |
| Vanadium   |                          |       |                            |          |            |             |
| Zinc       | 704                      | 1260  | 500                        | 111.2    | 3.9        | 20          |

Associated samples MP42262: FC5912-1, FC5912-2, FC5912-3, FC5912-4, FC5912-5, FC5912-6, FC5912-7, FC5912-8, FC5912-9, FC5912-10, FC5912-11, FC5912-12, FC5912-13, FC5912-14, FC5912-15, FC5912-16, FC5912-17, FC5912-18, FC5912-19

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested  
 (a) Spike recovery indicates possible matrix interference.  
 (b) High RPD indicates possible matrix interference.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FC5912  
 Account: SGS/SAKA - SGS North America, Inc  
 Project: 1231846

QC Batch ID: MP42262  
 Matrix Type: AQUEOUS

Methods: EPA 200.7  
 Units: ug/l

Prep Date: 05/18/23

| Metal      | BSP Result | Spikelot MPFLICP2 | % Rec | QC Limits |
|------------|------------|-------------------|-------|-----------|
| Aluminum   |            |                   |       |           |
| Antimony   |            |                   |       |           |
| Arsenic    |            |                   |       |           |
| Barium     |            |                   |       |           |
| Beryllium  | anr        |                   |       |           |
| Boron      |            |                   |       |           |
| Cadmium    | anr        |                   |       |           |
| Calcium    | 26500      | 25000             | 106.0 | 85-115    |
| Chromium   | anr        |                   |       |           |
| Cobalt     |            |                   |       |           |
| Copper     | 255        | 250               | 102.0 | 85-115    |
| Iron       | 27400      | 26000             | 105.4 | 85-115    |
| Lead       | anr        |                   |       |           |
| Lithium    |            |                   |       |           |
| Magnesium  | 26500      | 25000             | 106.0 | 85-115    |
| Manganese  |            |                   |       |           |
| Molybdenum |            |                   |       |           |
| Nickel     | anr        |                   |       |           |
| Potassium  |            |                   |       |           |
| Selenium   |            |                   |       |           |
| Silver     | anr        |                   |       |           |
| Sodium     |            |                   |       |           |
| Strontium  |            |                   |       |           |
| Thallium   |            |                   |       |           |
| Tin        |            |                   |       |           |
| Titanium   |            |                   |       |           |
| Vanadium   |            |                   |       |           |
| Zinc       | 530        | 500               | 106.0 | 85-115    |

Associated samples MP42262: FC5912-1, FC5912-2, FC5912-3, FC5912-4, FC5912-5, FC5912-6, FC5912-7, FC5912-8, FC5912-9, FC5912-10, FC5912-11, FC5912-12, FC5912-13, FC5912-14, FC5912-15, FC5912-16, FC5912-17, FC5912-18, FC5912-19

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FC5912  
 Account: SGS/SAKA - SGS North America, Inc  
 Project: 1231846

QC Batch ID: MP42262  
 Matrix Type: AQUEOUS

Methods: EPA 200.7  
 Units: ug/l

Prep Date: 05/18/23

| Metal      | FC5853-1 |          | QC   |        |
|------------|----------|----------|------|--------|
|            | Original | SDL 5:25 | %DIF | Limits |
| Aluminum   |          |          |      |        |
| Antimony   |          |          |      |        |
| Arsenic    |          |          |      |        |
| Barium     |          |          |      |        |
| Beryllium  | anr      |          |      |        |
| Boron      |          |          |      |        |
| Cadmium    | anr      |          |      |        |
| Calcium    | 25000    | 24900    | 0.5  | 0-10   |
| Chromium   | anr      |          |      |        |
| Cobalt     |          |          |      |        |
| Copper     | 0.00     | 0.00     | NC   | 0-10   |
| Iron       | 11500    | 11200    | 1.8  | 0-10   |
| Lead       | anr      |          |      |        |
| Lithium    |          |          |      |        |
| Magnesium  | 9380     | 9250     | 1.4  | 0-10   |
| Manganese  |          |          |      |        |
| Molybdenum |          |          |      |        |
| Nickel     | anr      |          |      |        |
| Potassium  |          |          |      |        |
| Selenium   |          |          |      |        |
| Silver     | anr      |          |      |        |
| Sodium     |          |          |      |        |
| Strontium  |          |          |      |        |
| Thallium   |          |          |      |        |
| Tin        |          |          |      |        |
| Titanium   |          |          |      |        |
| Vanadium   |          |          |      |        |
| Zinc       | 704      | 688      | 2.2  | 0-10   |

Associated samples MP42262: FC5912-1, FC5912-2, FC5912-3, FC5912-4, FC5912-5, FC5912-6, FC5912-7, FC5912-8, FC5912-9, FC5912-10, FC5912-11, FC5912-12, FC5912-13, FC5912-14, FC5912-15, FC5912-16, FC5912-17, FC5912-18, FC5912-19

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (anr) Analyte not requested

6.1.4  
 6

POST DIGESTATE SPIKE SUMMARY

Login Number: FC5912  
 Account: SGS/SAKA - SGS North America, Inc  
 Project: 1231846

QC Batch ID: MP42262  
 Matrix Type: AQUEOUS

Methods: EPA 200.7  
 Units: ug/l

Prep Date:

05/18/23

| Metal      | Sample ml | Final ml | FC5853-1 Raw | Corr.** | PS ug/l | Spike ml | Spike ug/ml | Spike ug/l | % Rec     | QC Limits |
|------------|-----------|----------|--------------|---------|---------|----------|-------------|------------|-----------|-----------|
| Aluminum   |           |          |              |         |         |          |             |            |           |           |
| Antimony   |           |          |              |         |         |          |             |            |           |           |
| Arsenic    |           |          |              |         |         |          |             |            |           |           |
| Barium     |           |          |              |         |         |          |             |            |           |           |
| Beryllium  |           |          |              |         |         |          |             |            |           |           |
| Boron      |           |          |              |         |         |          |             |            |           |           |
| Cadmium    |           |          |              |         |         |          |             |            |           |           |
| Calcium    | 9.8       | 10       | 24980        | 24480.4 | 32520   | 0.2      | 250         | 5000       | 160.8*(a) | 85-115    |
| Chromium   |           |          |              |         |         |          |             |            |           |           |
| Cobalt     |           |          |              |         |         |          |             |            |           |           |
| Copper     | 9.8       | 10       |              |         | 105.8   | 0.2      | 5           | 100        | 105.8     | 85-115    |
| Iron       | 9.8       | 10       | 11450        | 11221   | 15560   | 0.2      | 150         | 3000       | 144.6*(a) | 85-115    |
| Lead       |           |          |              |         |         |          |             |            |           |           |
| Lithium    |           |          |              |         |         |          |             |            |           |           |
| Magnesium  | 9.8       | 10       | 9380         | 9192.4  | 15680   | 0.2      | 250         | 5000       | 129.8*(a) | 85-115    |
| Manganese  |           |          |              |         |         |          |             |            |           |           |
| Molybdenum |           |          |              |         |         |          |             |            |           |           |
| Nickel     |           |          |              |         |         |          |             |            |           |           |
| Potassium  |           |          |              |         |         |          |             |            |           |           |
| Selenium   |           |          |              |         |         |          |             |            |           |           |
| Silver     |           |          |              |         |         |          |             |            |           |           |
| Sodium     |           |          |              |         |         |          |             |            |           |           |
| Strontium  |           |          |              |         |         |          |             |            |           |           |
| Thallium   |           |          |              |         |         |          |             |            |           |           |
| Tin        |           |          |              |         |         |          |             |            |           |           |
| Titanium   |           |          |              |         |         |          |             |            |           |           |
| Vanadium   |           |          |              |         |         |          |             |            |           |           |
| Zinc       | 9.8       | 10       | 703.8        | 689.724 | 1023    | 0.2      | 12.5        | 250        | 133.3*(a) | 85-115    |

Associated samples MP42262: FC5912-1, FC5912-2, FC5912-3, FC5912-4, FC5912-5, FC5912-6, FC5912-7, FC5912-8, FC5912-9, FC5912-10, FC5912-11, FC5912-12, FC5912-13, FC5912-14, FC5912-15, FC5912-16, FC5912-17, FC5912-18, FC5912-19

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(\*\*) Corr. sample result = Raw \* (sample volume / final volume)

(anr) Analyte not requested

(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: FC5912  
Account: SGSAKA - SGS North America, Inc  
Project: 1231846

QC Batch ID: MP42269  
Matrix Type: AQUEOUS

Methods: SW846 6010D  
Units: ug/l

Prep Date: 05/19/23 05/19/23

| Metal      | RL    | IDL | MDL | MB<br>raw | final | MB<br>raw | final |
|------------|-------|-----|-----|-----------|-------|-----------|-------|
| Aluminum   | 200   | 14  | 14  |           |       |           |       |
| Antimony   | 6.0   | 1   | 1   |           |       |           |       |
| Arsenic    | 10    | 1.3 | 1.3 |           |       |           |       |
| Barium     | 200   | .5  | 1   |           |       |           |       |
| Beryllium  | 4.0   | .1  | .2  |           |       |           |       |
| Boron      | 100   | 5   | 10  |           |       |           |       |
| Cadmium    | 5.0   | .1  | .2  |           |       |           |       |
| Calcium    | 1000  | 50  | 50  | 10.8      | <1000 | 22.9      | <1000 |
| Chromium   | 10    | .5  | 1   |           |       |           |       |
| Cobalt     | 50    | .2  | .2  |           |       |           |       |
| Copper     | 25    | 1   | 1   |           |       |           |       |
| Iron       | 300   | 15  | 17  | 6.6       | <300  | 4.1       | <300  |
| Lead       | 5.0   | 1   | 1.1 |           |       |           |       |
| Lithium    | 10    | .5  | 1.3 |           |       |           |       |
| Magnesium  | 5000  | 35  | 35  | -0.80     | <5000 | -19       | <5000 |
| Manganese  | 15    | .25 | 1   |           |       |           |       |
| Molybdenum | 50    | .3  | .3  |           |       |           |       |
| Nickel     | 40    | .4  | .4  |           |       |           |       |
| Potassium  | 10000 | 100 | 200 |           |       |           |       |
| Selenium   | 10    | 2   | 2.9 |           |       |           |       |
| Silver     | 10    | .5  | .7  |           |       |           |       |
| Sodium     | 10000 | 250 | 500 |           |       |           |       |
| Strontium  | 10    | .25 | .5  |           |       |           |       |
| Thallium   | 10    | 1   | 1.4 |           |       |           |       |
| Tin        | 50    | .5  | 1   |           |       |           |       |
| Titanium   | 10    | .5  | 1   |           |       |           |       |
| Vanadium   | 50    | .5  | .6  |           |       |           |       |
| Zinc       | 20    | 3   | 4.4 | 0.40      | <20   | 13.6      | * (a) |

Associated samples MP42269: FC5912-20, FC5912-21, FC5912-22, FC5912-23, FC5912-24

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits  
(anr) Analyte not requested  
(a) All associated samples with results >MDL "B" coded.



MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FC5912  
 Account: SGS/SAKA - SGS North America, Inc  
 Project: 1231846

QC Batch ID: MP42269  
 Matrix Type: AQUEOUS

Methods: SW846 6010D  
 Units: ug/l

Prep Date: 05/19/23 05/19/23

| Metal      | FC5887-23<br>Original DUP |       | RPD | QC<br>Limits | FC5887-23<br>Original MS |       | Spikelot<br>MPFLICP2 | % Rec | QC<br>Limits |
|------------|---------------------------|-------|-----|--------------|--------------------------|-------|----------------------|-------|--------------|
| Aluminum   |                           |       |     |              |                          |       |                      |       |              |
| Antimony   |                           |       |     |              |                          |       |                      |       |              |
| Arsenic    | anr                       |       |     |              |                          |       |                      |       |              |
| Barium     | anr                       |       |     |              |                          |       |                      |       |              |
| Beryllium  | anr                       |       |     |              |                          |       |                      |       |              |
| Boron      |                           |       |     |              |                          |       |                      |       |              |
| Cadmium    | anr                       |       |     |              |                          |       |                      |       |              |
| Calcium    | 59900                     | 61700 | 3.0 | 0-20         | 59900                    | 88000 | 25000                | 112.4 | 80-120       |
| Chromium   | anr                       |       |     |              |                          |       |                      |       |              |
| Cobalt     |                           |       |     |              |                          |       |                      |       |              |
| Copper     |                           |       |     |              |                          |       |                      |       |              |
| Iron       | 29000                     | 29300 | 1.0 | 0-20         | 29000                    | 56600 | 26000                | 106.2 | 80-120       |
| Lead       | anr                       |       |     |              |                          |       |                      |       |              |
| Lithium    |                           |       |     |              |                          |       |                      |       |              |
| Magnesium  | 7160                      | 7370  | 2.9 | 0-20         | 7160                     | 33800 | 25000                | 106.6 | 80-120       |
| Manganese  | anr                       |       |     |              |                          |       |                      |       |              |
| Molybdenum |                           |       |     |              |                          |       |                      |       |              |
| Nickel     | anr                       |       |     |              |                          |       |                      |       |              |
| Potassium  |                           |       |     |              |                          |       |                      |       |              |
| Selenium   | anr                       |       |     |              |                          |       |                      |       |              |
| Silver     | anr                       |       |     |              |                          |       |                      |       |              |
| Sodium     | anr                       |       |     |              |                          |       |                      |       |              |
| Strontium  |                           |       |     |              |                          |       |                      |       |              |
| Thallium   |                           |       |     |              |                          |       |                      |       |              |
| Tin        |                           |       |     |              |                          |       |                      |       |              |
| Titanium   |                           |       |     |              |                          |       |                      |       |              |
| Vanadium   |                           |       |     |              |                          |       |                      |       |              |
| Zinc       | 4.3                       | 4.3   | 0.0 | 0-20         | 4.3                      | 519   | 500                  | 102.9 | 80-120       |

Associated samples MP42269: FC5912-20, FC5912-21, FC5912-22, FC5912-23, FC5912-24

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FC5912  
 Account: SGS/SAKA - SGS North America, Inc  
 Project: 1231846

QC Batch ID: MP42269  
 Matrix Type: AQUEOUS

Methods: SW846 6010D  
 Units: ug/l

Prep Date: 05/19/23

| Metal      | FC5887-23<br>Original MSD | Spike/lot<br>MPFLICP2 % Rec | MSD<br>RPD | QC<br>Limit |     |    |
|------------|---------------------------|-----------------------------|------------|-------------|-----|----|
| Aluminum   |                           |                             |            |             |     |    |
| Antimony   |                           |                             |            |             |     |    |
| Arsenic    | anr                       |                             |            |             |     |    |
| Barium     | anr                       |                             |            |             |     |    |
| Beryllium  | anr                       |                             |            |             |     |    |
| Boron      |                           |                             |            |             |     |    |
| Cadmium    | anr                       |                             |            |             |     |    |
| Calcium    | 59900                     | 89300                       | 25000      | 117.6       | 1.5 | 20 |
| Chromium   | anr                       |                             |            |             |     |    |
| Cobalt     |                           |                             |            |             |     |    |
| Copper     |                           |                             |            |             |     |    |
| Iron       | 29000                     | 57100                       | 26000      | 108.1       | 0.9 | 20 |
| Lead       | anr                       |                             |            |             |     |    |
| Lithium    |                           |                             |            |             |     |    |
| Magnesium  | 7160                      | 33800                       | 25000      | 106.6       | 0.0 | 20 |
| Manganese  | anr                       |                             |            |             |     |    |
| Molybdenum |                           |                             |            |             |     |    |
| Nickel     | anr                       |                             |            |             |     |    |
| Potassium  |                           |                             |            |             |     |    |
| Selenium   | anr                       |                             |            |             |     |    |
| Silver     | anr                       |                             |            |             |     |    |
| Sodium     | anr                       |                             |            |             |     |    |
| Strontium  |                           |                             |            |             |     |    |
| Thallium   |                           |                             |            |             |     |    |
| Tin        |                           |                             |            |             |     |    |
| Titanium   |                           |                             |            |             |     |    |
| Vanadium   |                           |                             |            |             |     |    |
| Zinc       | 4.3                       | 518                         | 500        | 102.7       | 0.2 | 20 |

Associated samples MP42269: FC5912-20, FC5912-21, FC5912-22, FC5912-23, FC5912-24

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FC5912  
 Account: SGS/SAKA - SGS North America, Inc  
 Project: 1231846

QC Batch ID: MP42269  
 Matrix Type: AQUEOUS

Methods: SW846 6010D  
 Units: ug/l

Prep Date: 05/19/23

| Metal      | BSP Result | Spikelot MPFLICP2 | % Rec | QC Limits |
|------------|------------|-------------------|-------|-----------|
| Aluminum   |            |                   |       |           |
| Antimony   |            |                   |       |           |
| Arsenic    | anr        |                   |       |           |
| Barium     | anr        |                   |       |           |
| Beryllium  | anr        |                   |       |           |
| Boron      |            |                   |       |           |
| Cadmium    | anr        |                   |       |           |
| Calcium    | 27200      | 25000             | 108.8 | 80-120    |
| Chromium   | anr        |                   |       |           |
| Cobalt     |            |                   |       |           |
| Copper     |            |                   |       |           |
| Iron       | 27500      | 26000             | 105.8 | 80-120    |
| Lead       | anr        |                   |       |           |
| Lithium    |            |                   |       |           |
| Magnesium  | 26700      | 25000             | 106.8 | 80-120    |
| Manganese  | anr        |                   |       |           |
| Molybdenum |            |                   |       |           |
| Nickel     | anr        |                   |       |           |
| Potassium  |            |                   |       |           |
| Selenium   | anr        |                   |       |           |
| Silver     | anr        |                   |       |           |
| Sodium     | anr        |                   |       |           |
| Strontium  |            |                   |       |           |
| Thallium   |            |                   |       |           |
| Tin        |            |                   |       |           |
| Titanium   |            |                   |       |           |
| Vanadium   |            |                   |       |           |
| Zinc       | 518        | 500               | 103.6 | 80-120    |

Associated samples MP42269: FC5912-20, FC5912-21, FC5912-22, FC5912-23, FC5912-24

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FC5912  
 Account: SGS/SAKA - SGS North America, Inc  
 Project: 1231846

QC Batch ID: MP42269  
 Matrix Type: AQUEOUS

Methods: SW846 6010D  
 Units: ug/l

Prep Date: 05/19/23

| Metal      | FC5887-23<br>Original | SDL 1:1 | %DIF     | QC<br>Limits |
|------------|-----------------------|---------|----------|--------------|
| Aluminum   |                       |         |          |              |
| Antimony   |                       |         |          |              |
| Arsenic    | anr                   |         |          |              |
| Barium     | anr                   |         |          |              |
| Beryllium  | anr                   |         |          |              |
| Boron      |                       |         |          |              |
| Cadmium    | anr                   |         |          |              |
| Calcium    | 59900                 | 11600   | 80.6*(a) | 0-10         |
| Chromium   | anr                   |         |          |              |
| Cobalt     |                       |         |          |              |
| Copper     |                       |         |          |              |
| Iron       | 29000                 | 5660    | 80.5*(a) | 0-10         |
| Lead       | anr                   |         |          |              |
| Lithium    |                       |         |          |              |
| Magnesium  | 7160                  | 1400    | 80.4*(a) | 0-10         |
| Manganese  | anr                   |         |          |              |
| Molybdenum |                       |         |          |              |
| Nickel     | anr                   |         |          |              |
| Potassium  |                       |         |          |              |
| Selenium   | anr                   |         |          |              |
| Silver     | anr                   |         |          |              |
| Sodium     | anr                   |         |          |              |
| Strontium  |                       |         |          |              |
| Thallium   |                       |         |          |              |
| Tin        |                       |         |          |              |
| Titanium   |                       |         |          |              |
| Vanadium   |                       |         |          |              |
| Zinc       | 4.30                  | 0.00    | 100.0(b) | 0-10         |

Associated samples MP42269: FC5912-20, FC5912-21, FC5912-22, FC5912-23, FC5912-24

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(anr) Analyte not requested

(a) Serial dilution indicates possible matrix interference.

(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FC5912  
 Account: SGS/SAKA - SGS North America, Inc  
 Project: 1231846

QC Batch ID: MP42269  
 Matrix Type: AQUEOUS

Methods: SW846 6010D  
 Units: ug/l

Prep Date:

05/19/23

| Metal      | Sample ml | Final ml | FC5887-23 Raw | PS Corr.** ug/l | PS ug/l | Spike ml | Spike ug/ml | Spike ug/l | % Rec | QC Limits |
|------------|-----------|----------|---------------|-----------------|---------|----------|-------------|------------|-------|-----------|
| Aluminum   |           |          |               |                 |         |          |             |            |       |           |
| Antimony   |           |          |               |                 |         |          |             |            |       |           |
| Arsenic    |           |          |               |                 |         |          |             |            |       |           |
| Barium     |           |          |               |                 |         |          |             |            |       |           |
| Beryllium  |           |          |               |                 |         |          |             |            |       |           |
| Boron      |           |          |               |                 |         |          |             |            |       |           |
| Cadmium    |           |          |               |                 |         |          |             |            |       |           |
| Calcium    | 9.8       | 10       | 59900         | 58702           | 64020   | 0.2      | 250         | 5000       | 106.4 | 80-120    |
| Chromium   |           |          |               |                 |         |          |             |            |       |           |
| Cobalt     |           |          |               |                 |         |          |             |            |       |           |
| Copper     |           |          |               |                 |         |          |             |            |       |           |
| Iron       | 9.8       | 10       | 29040         | 28459.2         | 31590   | 0.2      | 150         | 3000       | 104.4 | 80-120    |
| Lead       |           |          |               |                 |         |          |             |            |       |           |
| Lithium    |           |          |               |                 |         |          |             |            |       |           |
| Magnesium  | 9.8       | 10       | 7163          | 7019.74         | 12380   | 0.2      | 250         | 5000       | 107.2 | 80-120    |
| Manganese  |           |          |               |                 |         |          |             |            |       |           |
| Molybdenum |           |          |               |                 |         |          |             |            |       |           |
| Nickel     |           |          |               |                 |         |          |             |            |       |           |
| Potassium  |           |          |               |                 |         |          |             |            |       |           |
| Selenium   |           |          |               |                 |         |          |             |            |       |           |
| Silver     |           |          |               |                 |         |          |             |            |       |           |
| Sodium     |           |          |               |                 |         |          |             |            |       |           |
| Strontium  |           |          |               |                 |         |          |             |            |       |           |
| Thallium   |           |          |               |                 |         |          |             |            |       |           |
| Tin        |           |          |               |                 |         |          |             |            |       |           |
| Titanium   |           |          |               |                 |         |          |             |            |       |           |
| Vanadium   |           |          |               |                 |         |          |             |            |       |           |
| Zinc       | 9.8       | 10       | 4.3           | 4.214           | 259.6   | 0.2      | 12.5        | 250        | 102.2 | 80-120    |

Associated samples MP42269: FC5912-20, FC5912-21, FC5912-22, FC5912-23, FC5912-24

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (\*\*) Corr. sample result = Raw \* (sample volume / final volume)  
 (anr) Analyte not requested